# **Bass Effects & Amp Simulator**



# **OPERATION MANUAL**

Thank you very much for purchasing the ZOOM **BB**.

Please read this manual carefully to learn about all the functions of the **BB** so that you will be able to use it fully for a long time.

Keep this manual in a convenient place for reference when necessary.

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### SAFETY PRECAUTIONS

In this manual, symbols are used to highlight warnings and cautions that you must read to prevent accidents. The meanings of these symbols are as follows:



Something that could cause serious injury or death.

Something that could cause injury or

Caution damage to the equipment.





Prohibited actions

## \land Warning

#### **Operation using an AC adapter**

Use only a ZOOM AD-16 AC adapter with this unit.

Do not use or do anything that could exceed the ratings of outlets and other electrical wiring equipment. Before using the equipment in a foreign country or other region where the electrical voltage differs from that indicated on the AC adapter, always consult with a shop that carries ZOOM products beforehand and use the appropriate AC adapter.

#### **Operation using batteries**



Read battery warning labels carefully.

Always close the battery compartment cover when using the unit.

#### Alterations

Never open the case or attempt to modify the product.

### A Precautions

#### **Product handling**

Do not drop, bump or apply excessive force to the unit.

Be careful not to allow foreign objects or liquids to enter the unit.

#### **Operating environment**

 $\bigotimes$  Do not use in extremely high or low temperatures.

O Do not use near heaters, stoves and other heat sources.

🚫 Do not use in very high humidity or near splashing water.

O Do not use in places with excessive vibrations.

 ${ig O}$  Do not use in places with excessive dust or sand.

#### AC adapter handling



During lightning storms or when not using the unit for a long time, disconnect the power plug from the AC outlet.

#### **Battery handling**

Install the batteries with the correct +/- orientation.

Use a specified battery type. Do not mix new and old batteries or different brands or types at the same time. When not using the unit for an extended period of time, remove the batteries from the unit.

If a battery leak should occur, wipe the battery compartment and the battery terminals carefully to remove all battery residue.

#### Connecting cables with input and output jacks

Always turn the power OFF for all equipment before connecting any cables.

Always disconnect all connection cables and the AC adapter before moving the unit.

#### Volume

O Do not use the product at a loud volume for a long time.

### **Usage Precautions**

#### Interference with other electrical equipment

In consideration of safety, the BB has been designed to minimize the emission of electromagnetic radiation from the device and to minimize external electromagnetic interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference if placed nearby. If this occurs, place the BB and the other device farther apart. With any type of electronic device that uses digital control, including the BB, electromagnetic interference could cause malfunction, corrupt or destroy data and result in other unexpected trouble. Always use caution.

#### Cleaning

Use a soft cloth to clean the panels of the unit if they become dirty. If necessary, use a damp cloth that has been wrung out well. Never use abrasive cleansers, wax or solvents, including alcohol, benzene and paint thinner.

#### Malfunction

If the unit becomes broken or malfunctions, immediately disconnect the AC adapter, turn the power OFF and disconnect other cables. Contact the store where you bought the unit or ZOOM service with the following information: product model, serial number and specific symptoms of failure or malfunction, along with your name, address and telephone number.

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- Macintosh<sup>®</sup> and Mac OS<sup>®</sup> are trademarks or registered trademarks of Apple Inc.
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# Introduction

# Feels just like using effect pedals

The three effects each have their own displays, parameter knobs and footswitches, allowing you to control all of them intuitively.

# **Realistic amplifier modeling**

With our new ZFX-4 DSP, we have magnificently recreated low-end thickness, pitch clarity and loudness, which are elements that contribute to a natural playing feel. Models range from famous historical amps to recent popular ones, covering a great variety of bass sounds.

# Combine diverse effects as you like

You can freely combine the over 100 types of onboard effects, including preamps and stomp boxes tuned for bass guitars.

## Looper that can be synchronized with rhythms

The looper can be synchronized with rhythms and record phrases of up to 40 seconds.

# Automatic saving

The auto save function reliably stores the changes you make.

# Works with ZOOM Edit & Share software

The **BB** can be used with Edit & Share software, which is a patch editor and librarian, on a computer to back up patches and change the order of effects.

See the ZOOM website (http://www.zoom.co.jp/) for further information about Edit & Share.

# Terms Used in this Manual

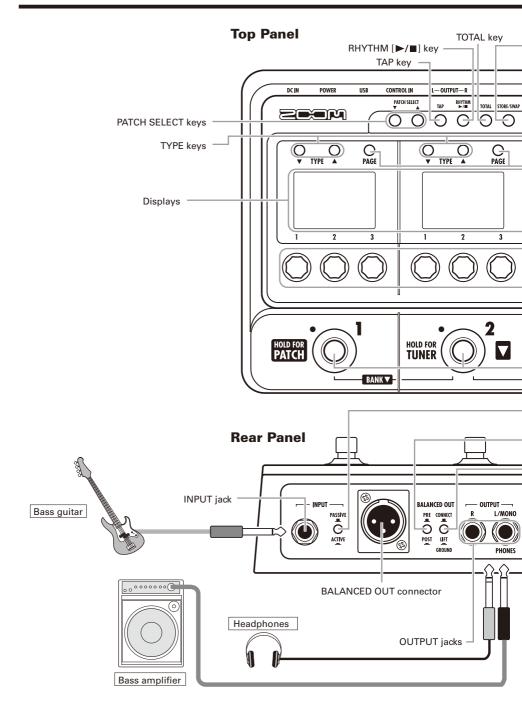
## Patch

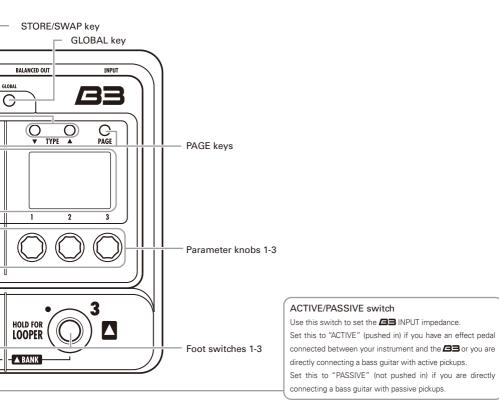
The ON/OFF status and the parameter settings of each effect are stored as "patches." Use patches to recall and save effects. The **GB** can store 100 patches.

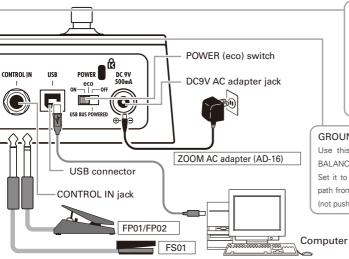
## <u>Bank</u>

A set of 10 patches is called a "bank." The 🖪 has 10 banks labeled A–J.

# **Part Names**







#### PRE/POST switch

Use this switch to set the point when the signal is output from the BALANCED OUT connector.

Set it to "POST" (pushed in) to output the signal after the BB effects. Set it to "PRE" (not pushed in) to output the signal before the BB effects.

#### GROUND switch

Use this switch to connect or disconnect the BALANCED OUT connector with the ground. Set it to "LIFT" (pushed in) to separate the signal path from the grounding pin. Set it to "CONNECT" (not pushed in) to connect it to the grounding pin.

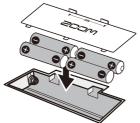
# **Turn the Power on and Play**

# To turn the power on

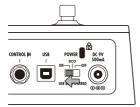
Always lower the amplifier's volume all the way before turning the power on.



Insert batteries into the battery compartment and set the POWER switch to ON.

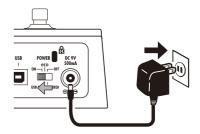


Bottom of the unit



When using an adapter

Connect the AC adapter and set the POWER switch to ON.

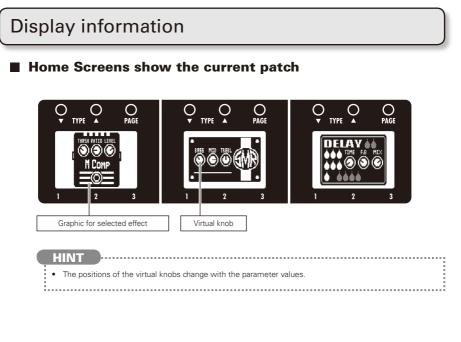


Turn the amplifier's power on and raise its volume.

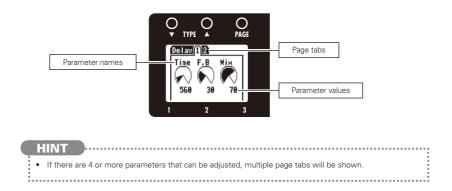
#### HINT

POWER switch options

eco: If the **/3** is not used for about 25 minutes, it will be set to standby. The **/3** will not be set to standby as long as there is a signal input from a bass guitar. OFF: When set to "OFF", the **/3** can be powered from a USB bus by connecting it to a computer's USB port.

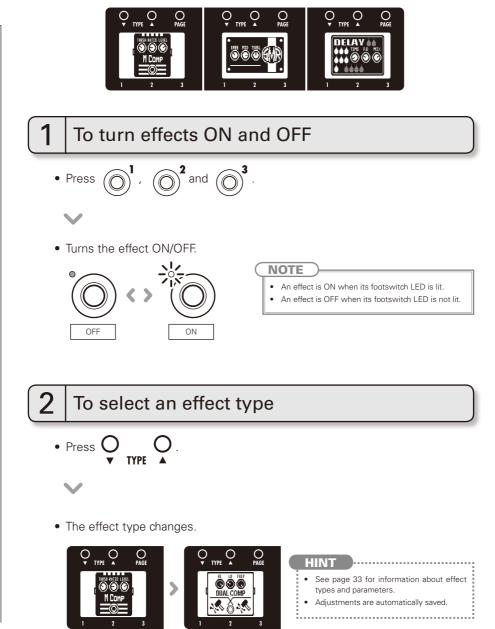


Edit Screens show parameters being edited

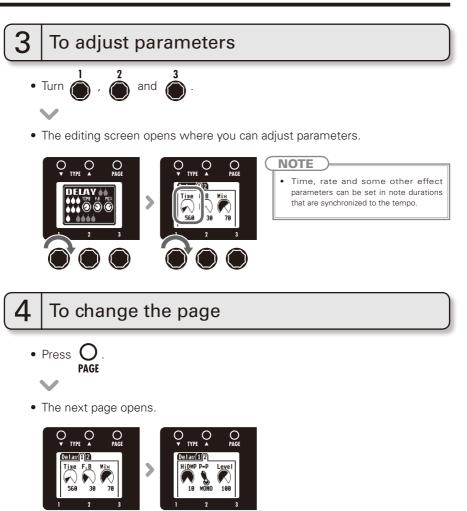


# **Adjusting Effects**

Confirm that the Home screens are shown.



Adjusting Effects



### **Effect processing capacity**



The BB allows you to combine three effects as you like. However, if you combine effect types that require great amounts of processing power, it is possible to exceed the processing capacity of the BB. If the processing required for the effect exceeds the capacity of the BB, "THRU" is shown over the effect graphic and the effect is bypassed. This can be avoided by changing one or more of the effect types.

NOTE

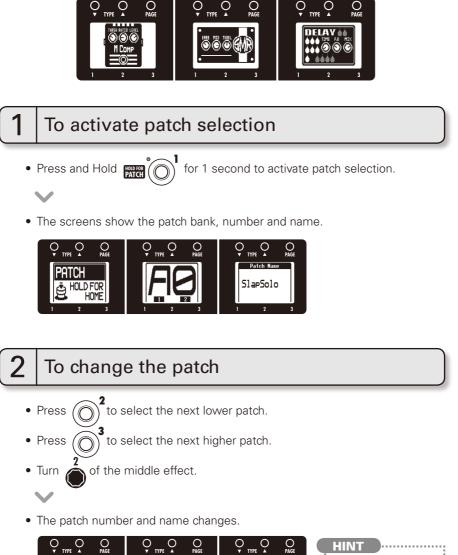
• An effect requires the same amount of processing power whether it is on or off.

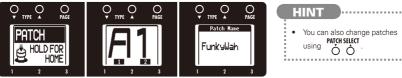


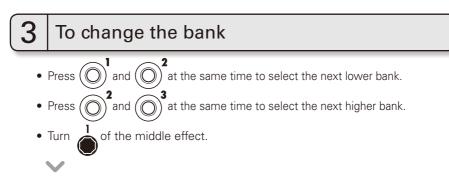
Amp models require great amounts of processing.

# **Selecting Patches**

Confirm that the Home display is shown.





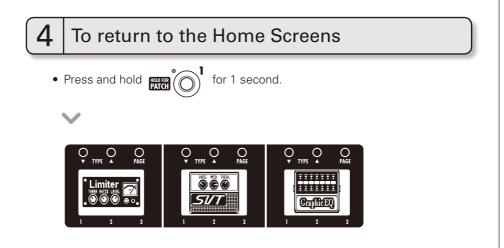


• The patch bank and name changes.



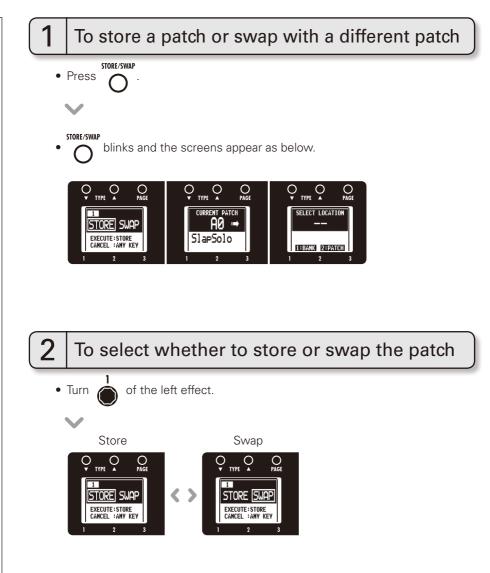
#### NOTE

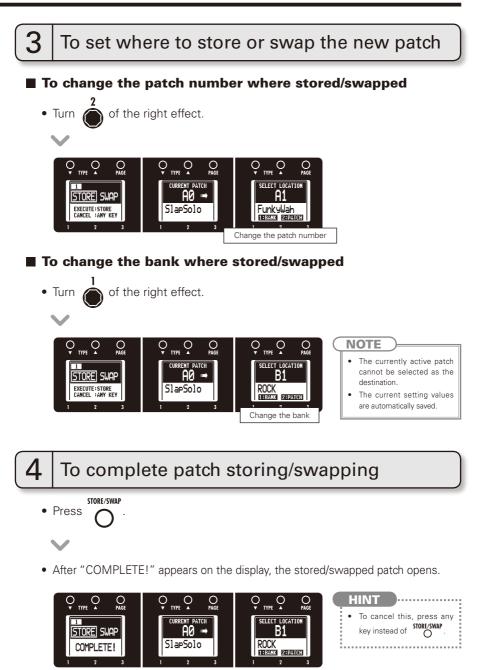
• When pressing two footswitches at the same time, the sound could be affected by the footswitch that is pressed slightly earlier. To avoid this, do not make sound when switching banks.



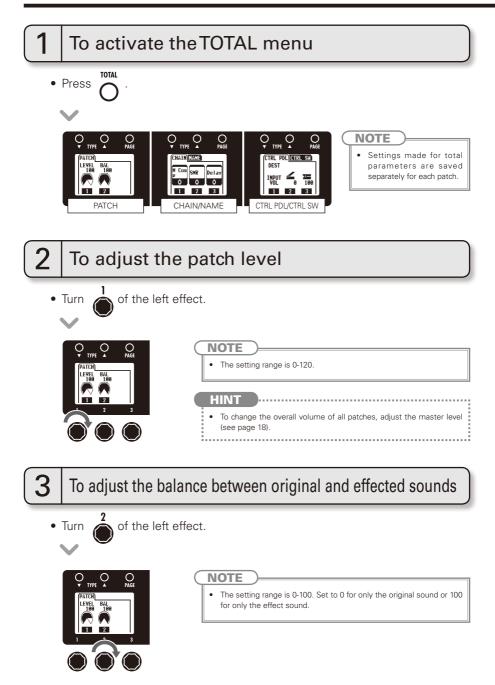
# **Storing Patches**

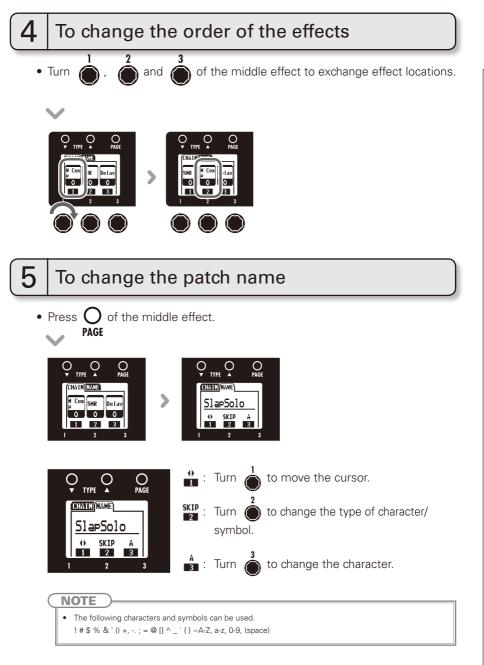
The **BB** automatically saves settings when parameters are adjusted.



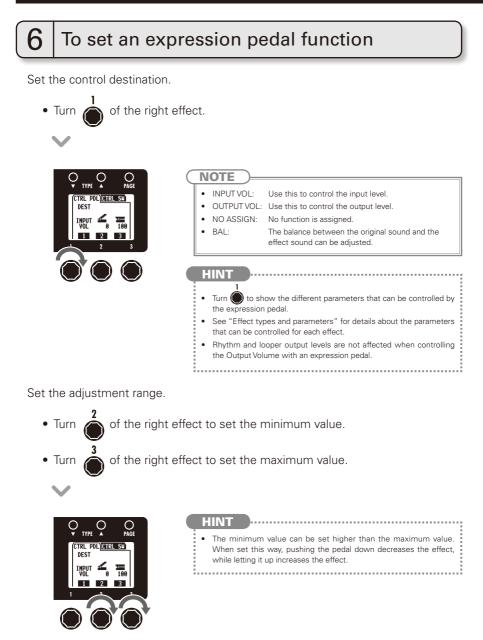


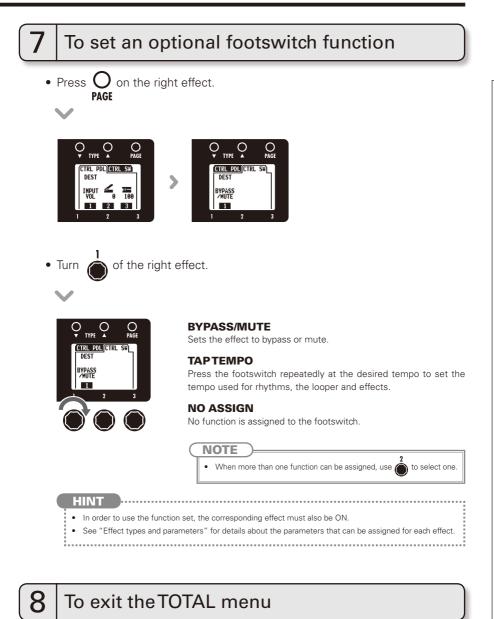
# **Setting Specific Patch Parameters**





NEXT >>>

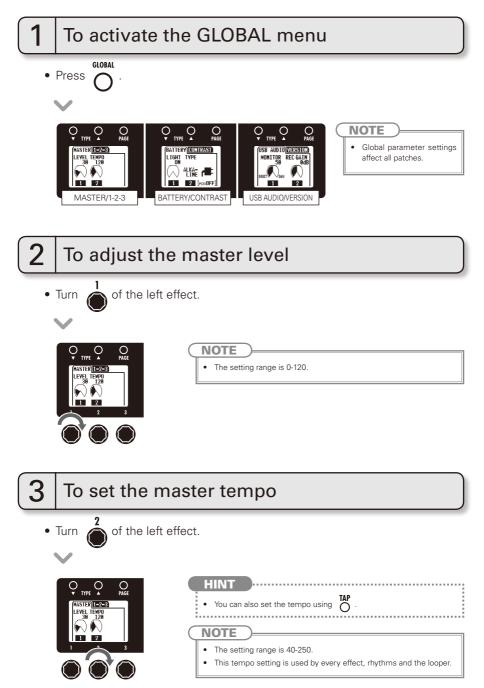


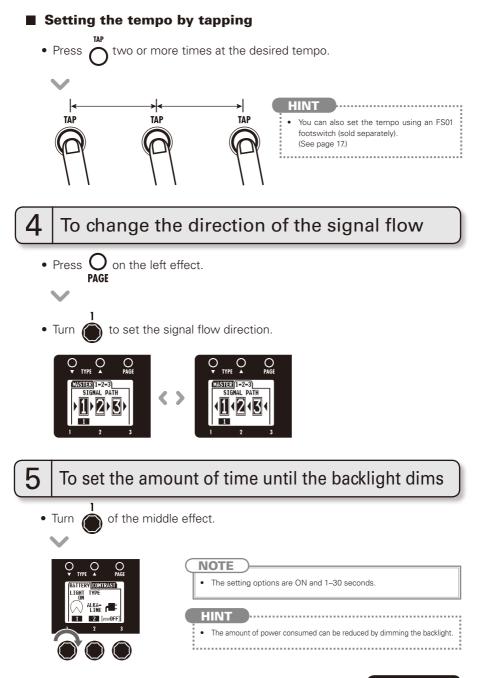


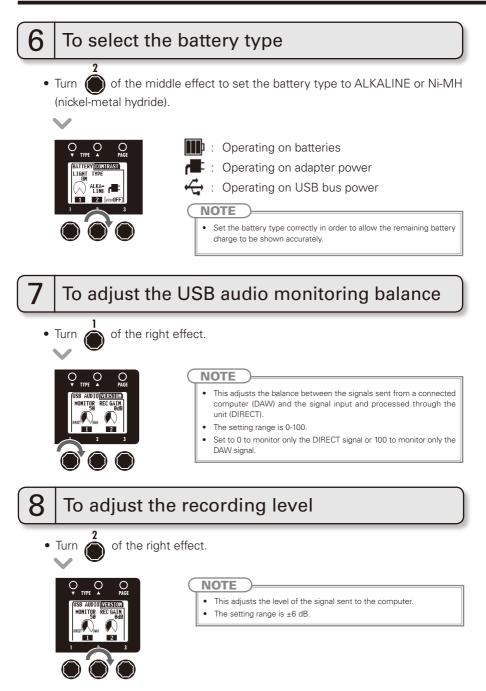
TOTAL

Press

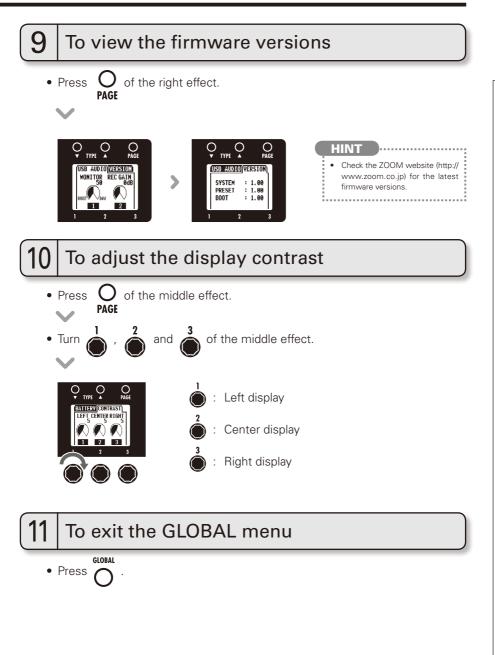
# **Changing Various Settings**



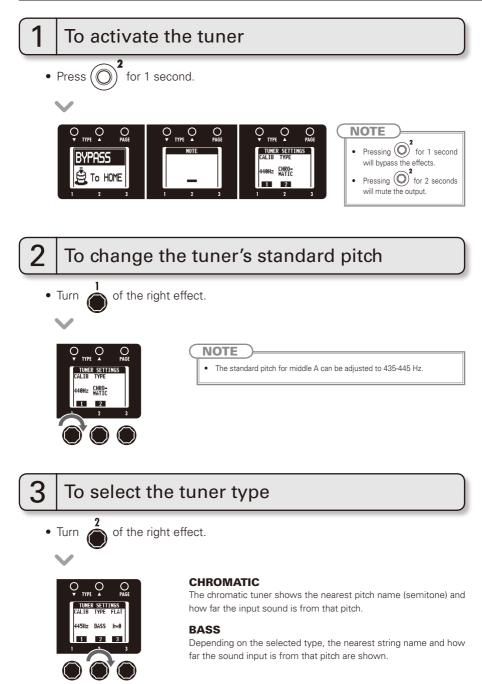


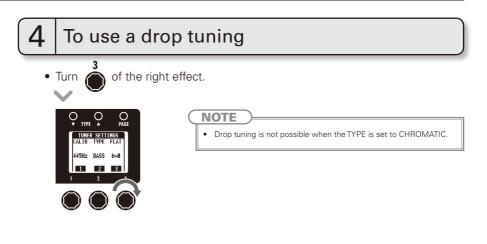


## GLOBAL



# Using the Tuner





#### Tune the bass guitar 5

• Play the open string that you want to tune and tune it.

## **CHROMATIC TUNER**

### BASSTUNER

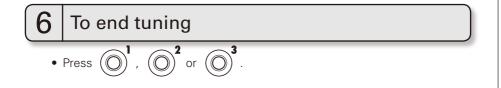
pitch accuracy are shown.

The number of the nearest string and the

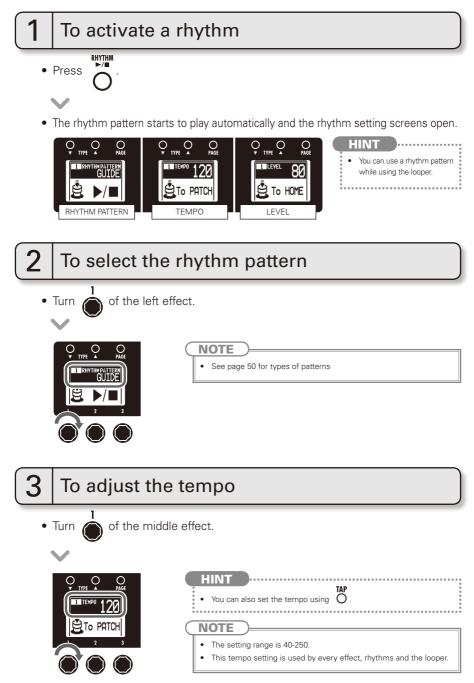
Sharp

The name of the nearest note and the pitch accuracy are shown.

ò Ò 3 F Flat Correct pitch Sharp Flat Correct pitch HINT PATCH SELECT TOTAL STORE/SWAP GLOBAL • The keys above the displays TAP  $\cap$ Ο Q ()also light to show the pitch accuracy. Pitch too low Pitch too high Pitch correct

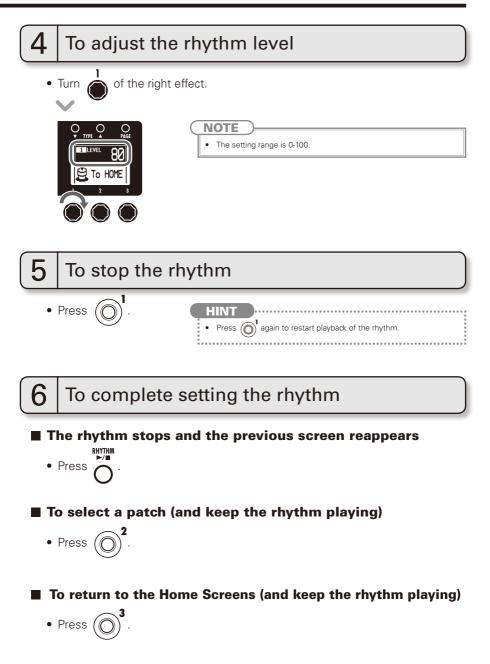


# **Using Rhythms**

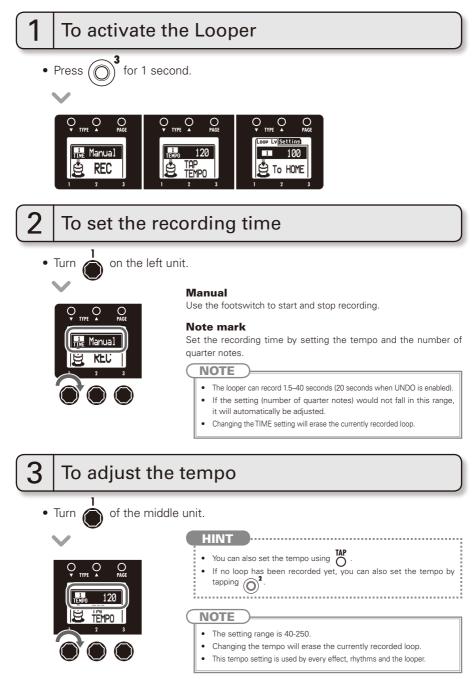


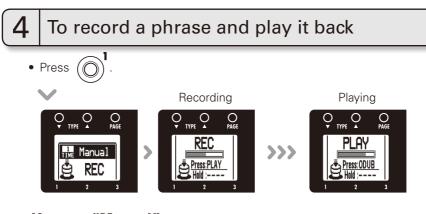
## RHYTHM

Using Rhythms



# **Using the Looper**





## If set to "Manual"

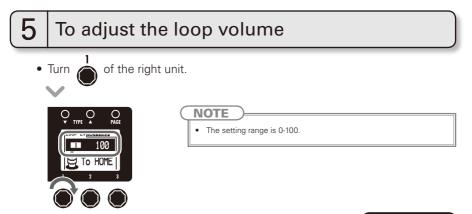
• When (O) is pressed again or the maximum recording time (about 40 seconds) is reached, loop playback starts (and "PLAY" appears on the display).

### If set to a note mark

• Recording continues for the set time and then loop playback starts (and "PLAY" appears on the display).

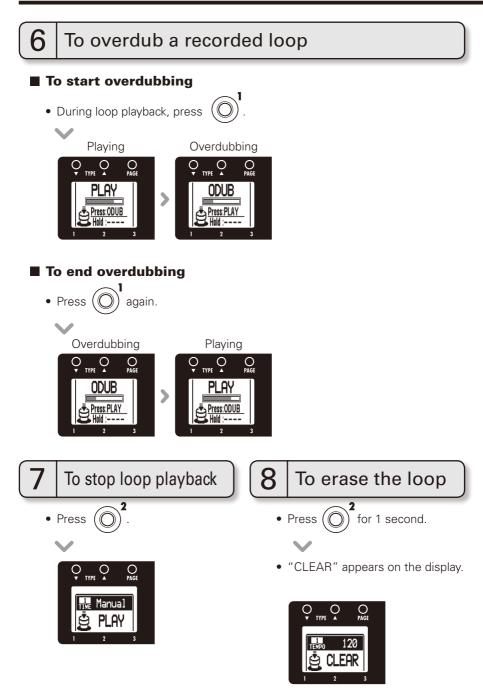


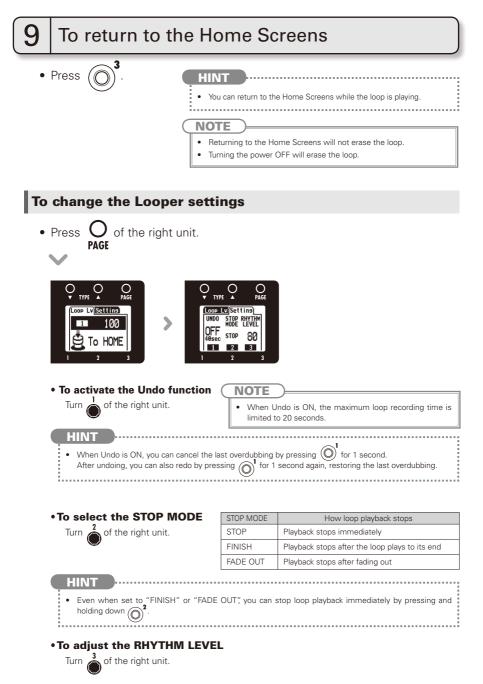
- When using a rhythm, recording will start after the precount.
- When using a rhythm, the loop timing will be quantized, so even if you stop the loop recording a little out of time, the loop end point will be adjusted to match the tempo correctly.



NEXT >>>

### **Using the Looper**





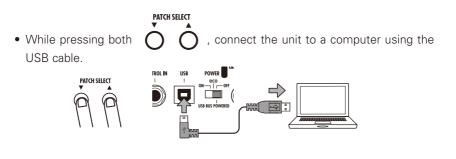
## To download the latest firmware version updater application:

• Visit the ZOOM Website (http://www.zoom.co.jp).



# To prepare to update the firmware version

• Confirm that the POWER switch is set to OFF.



The VERSION UPDATE screen appears.

### VERSION UPDATE

Ready for version update!

# 2

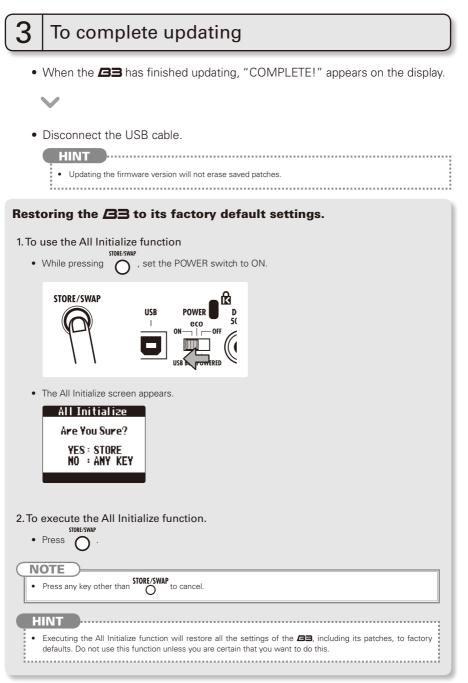
# To update the firmware

• Launch the version update application on your computer, and execute the update.

### NOTE

• Do not disconnect the USB cable while the firmware is being upgraded.





# **Using Audio Interface Functions**

This unit can be used with computers running the following operating systems

### Compatible OS

### Windows

Windows<sup>®</sup> XP SP3 (32bit) or newer Windows Vista<sup>®</sup> SP1 (32bit, 64bit) or newer Windows<sup>®</sup> 7 (32bit, 64bit) 32bit: Intel<sup>®</sup> Pentium<sup>®</sup> 4 1.8GHz or faster, 1GB RAM or more 64bit: Intel<sup>®</sup> Pentium<sup>®</sup> DualCore 2.7GHz or faster, 2GB RAM or more

### Intel Mac

OSX 10.5.8/10.6.5 or later Intel<sup>®</sup> CoreDuo 1.83GHz or faster 1GB RAM or more

### Quantization (bit-rate)

16-bit

## Sampling frequency

44.1kHz

For details about recording, playback and other functions, please see the included startup guide.

#### HINT

• You can adjust the balance between the signals from the BB and the computer. (See page 20.)

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- You can adjust the recording level. (See page 20.)
- When its POWER switch is set to OFF, the 🖪 can be connected to a computer by USB and powered by its USB bus.

.....

#### NOTE

To monitor the signal of your connected bass guitar after it has passed through your DAW software, set the USB AUDIO MONITOR balance to 100. (See page 20.)
 At other settings, the signals from the computer and the BB will be mixed, causing the output signal to sound like a flanger effect is being used.

# **Effect Types and Parameters**

Et	ffect number	F	aram	eter		Param	iete	r ra	nge							
	Effect t	уре					[		Effect ex	planation			Foots	witch functior	1	
088	3 DynaDelay	This dy accordi							olume of	the effect s	ou	nd	FS	InputMute		
				I	Knob1					Knob2				Knob3		
l r	TIME SEMSE MIX		Time	1-:	2000		Þ		Sense	-10-1, 1-10			Mix	0-100		P
1		Page01	Sets t	he delay t	ime.				Adjusts the	effect sensitivity.				amount of effected with the original		
	Dyna Delay	D 00	F.B	0-	100				Level	0-150						ГΓ
1		Page02	Adjust	s the fee	s the feet back an				Adjusts the	djusts the output level.						
_											_	_				
E	Effect screen					Tempo	sy	nch	ronizatior	possible icon			Pedal co	ntrol possible	ico	n
			Pa	aramete	er exp	lanatio	on									

## Effect Types and Parameters

001 OptComp	This co	mpresso	r is in the sty	le c	of a	in APHE>	Punch Facto	ory.					
50T (100 A)	$\sim$		Knob1			Knob2				Knob3			
<b>X</b> 0 9		Drive	0–100		Ρ	Tone	0–100			Level	0–150		
COMP	Page01	Adjusts the	depth of the compr	on.	Adjusts the	tone.			Adjusts the output level.				
002 D Comp	This co	mpresso	r in the style										
			Knob1				Knob2				Knob3		
	Page01	Sense	0–10			Tone	0–10			Level	0–150		Р
	1 ageo1	Adjusts the	compressor sensi	ι.	Adjusts the	tone.			Adjusts the	output level.			
		ATTCK	Slow, Fast										
	Page02	Sets comp Fast or Slov	ressor attack sp v.	to									
003 M Comp	This compressor provides a more natural sound.												
		Knob1				Knob2		Knob3					
THESH RATED LEVEL	Page01	THRSH	0–50		Ρ	Ratio	1–10			Level	0–150		
M Comp		Sets the lo compressor	evel that activat	he	Adjusts the compression ratio.				Adjusts the output level.				
	Page02	ATTCK	1–10										
	1 ageoz	Adjusts the	compressor attack	< rate	э.								
004 DualComp	This is a	compress	or which allows	s se	pai	rate setting	gs for the low f	req	uer	ncy and hig	gh frequency ra	inge	э.
	/	Knob1				Knob2			Knob3				
		Hi	0–50			Lo	0–50			Freq	300Hz- 1.5kHz		Р
DUALCOMP	Page01	e01 Adjusts the compression depth in the high frequency range.					Adjusts the compression depth in the low frequency range.				n Adjusts the crossover point between th high frequency and low frequency range		
120 0 120	Page02	Level	0–150			Tone	0–10						
	1 ageoz	Adjusts the	output level.	Adjusts the tonal quality of the sound.									
005 160 Comp	This co	mpresso	r is in the sty	le c	of t	he dbx 1	60A.						
	/		Knob1			Knob2			Knob3				
		THRSH	-600			Ratio	1.0–10.0			Gain	0–20		
	Page01		threshold that dete fect is activated.	nes	Adjusts the compression ratio.			Adjusts the gain after compression.					
	Dage 02	Knee	Hard, Soft			Level	0–150		Ρ				
	Page02	Sets the typ	e of knee.			Adjusts the	output level.						

NEXT >>>

### **Effect Types and Parameters**

006 Limiter	This is	a limiter that suppress	ses si	gnal peak	s above a ce	rtain r	eference	level.	
		Knob1			Knob2			Knob3	
	$\vdash$	THRSH 0-50	Р	Ratio	1-10	Level 0-150			
	Page01	Adjusts the reference signal the limiter action.			compression ratio	o of the	Adjusts the		
.000		REL 1-10							
	Page02	Adjusts the delay between the where the signal level falls be threshold level and the limiter r	olow the						
007 SlowATTCK	This eff	ect slows the attack o	of eacl	n note, re	sulting in a v	iolin-li	ke perforr	mance.	
TIME CURVE LEVEL	$\sim$	Knob1			Knob2			Knob3	
		Time 1–50	P	Curve	0–10		Level	0–150	
SIOW ATTCK	Page01	Adjusts the attack time.		Set the curv attack.	e of volume chang	e during	Adjusts the	output level.	
008 ZNR	ZOOM's	s unique noise reduction	cuts r	noise durin	g pauses in pl	aying v	without aff	ecting the tor	ne.
	$\sim$	Knob1			Knob2			Knob3	
		THRSH 1–25	P	DETCT	GtrIn, EfxIn		Level	0–150	
	Page01	Adjusts the effect sensitivity.		Sets contro	signal detected.		Adjusts the	output level.	
009 GraphicEQ	This un	it has a seven band e	qualiz	ər.					
		Knob1			Knob2			Knob3	
		50Hz -12-12		120Hz	-12-12		400Hz	-12-12	
<u>ŦŦŦŦŦŦ</u>	Page01	Adjusts the amount of boost/c Hz.	ut at 50	Adjusts the 120 Hz.	amount of boos	st/cut at	Adjusts the 400 Hz.	amount of boos	st/cut a
	Page02	500Hz -12–12		800Hz	-12–12		4.5kHz	-12–12	
Gaffiel		Adjusts the amount of boos 500 Hz.	st/cut at	800 Hz.	amount of boos	st/cut at	Adjusts the 4.5 kHz	amount of boos	st/cut a
	Page03	10kHz -12–12 Adjusts the amount of boos		Level	0–150				
010 ParaEQ	-	a 2-band parametric e			output level.				
		Knob1	quanz	1	Knob2			Knob3	
		Freq1 20Hz-20kHz	<u> </u>	Q1	0.5, 1, 2, 4, 8, 16	1 1	Gain1	-20-20	<u> </u>
	Page01	Adjusts center frequency of E	01	Adjusts EQ			Adjusts EQ1		
( 🔹 🕄 🛄 )		Freq2 20Hz–20kHz		Q2	0.5, 1, 2, 4, 8, 16		Gain2	-20-20	
	Page02	Adjusts center frequency of E	-02	Adjusts EQ2			Adjusts EQ2		
		Level 0–150	102.	Aujusts Eq.	<u>.</u>		Aujusts 202	guin	
	Page03	Adjusts the output level.							
011 Splitter		fect divides the signal the two bands.	into t	wo bands	s (high/low) a	and let	ts you fre	ely adjust th	ie mi>
		Knob1			Knob2			Knob3	
म् म् म् म्		Hi 0–100		Lo	0-100	1 1	Frea	80Hz-2.5kHz	1 1
	Page01	Adjusts the mix ratio of th frequency band.	ne high		e mix ratio of t	he low	Adjusts the c	rossover point betw cy and low frequen	
Spitter	Page02	Level 0–150 Adjusts the output level.	P						
012 Bottom B	Empha	sizes the low and high	n frea	uencies.					
		Knob1	- 1		Knob2			Knob3	
		Bass 0–10	P	Trebl	0–10		Level	0-150	ТТ
${\mathcal B}^{{ m ott}{ m om}}{}_{{\mathcal B}}$	Page01	Adjusts the amount of low-free boost.	equency	Adjusts the boost.	amount of high-fre	equency	Adjusts the	output level.	
013 Exciter	This ex	citer is in the style of	the B	BE Sonic	Maximizer.				
		Knob1			Knob2			Knob3	
		Bass 0–10	Р	Trebl	0-10		l evel	0-150	
Exciter	Page01	Adjusts the amount of low-free phase correction.			amount of high-fre	equency	Adjusts the	1	

	This ef	fect uses	the comb fil	lter th	at results	from fixing	the m	odulation	of the flanc	ier l	ike	
014 CombFLTR	an equ				at roourte	, norm nxing		oddiation				
			Knob1			Knob2		Knob3				
	Page01	Freq	1-50	P	Reso	-10-0-10		Mix	0–100			
	Fageor		e emphasized fre	quency.	sound of the	1	sonance		amount of effect with the original			
	Page02	HiDMP Adjusts the effect soun	0-10 treble attenuation	n of the	Level Adjusts the	0-150 output level.					L	
015 AutoWah	This ef		s wah in acco	ordan	ce with p	icking intens	ity.			_	_	
		1	Knob1			Knob2	,		Knob3			
		Sense	-10-1, 1-10	P	Reso	0-10	TT	Dry	0-100	T	Г	
( AutoWah )	Page01	Adjusts the	sensitivity of the	effect.	Adjusts the sound.	intensity of the re	esonance	Adjusts leve	l of original sound		-	
	Page02	Level	0–150								Γ	
			output level.									
016 ZTron	This is	like a Q-1	Fron Envelope	e Filte	r in LP m	ode.						
			Knob1			Knob2			Knob3		_	
50%E 🔘	Page01	Sense	-101, 110	P	Reso	0-10		Dry	0-100			
res 🥥	1 ageo1	Adjusts the	sensitivity of the	effect.	sound.	intensity of the re	sonance	Adjusts level of original sound.				
	Page02	Level	0–150									
	Fage02	Adjusts the	output level.									
017 M-Filter	This er	velope fi	lter with MO	OG N	IF-101 low	/ pass filter f	avor ca	an be set	in a wide ra	nge		
			Knob1			Knob2			Knob3			
		Freq	0–100	P	Sense	0-10		Reso	0–10			
FHEL SENSE HEST	Page01	Sets minim filter.	um frequency of e	envelope	Sets effect	sensitivity.		Sets effect	resonance.			
Ma E 114 au	Page02	Туре	HPF, BPF, LPF		Chara	2Pole, 4Pole		VLCTY	Fast, Slow			
		Sets filter t	1			ount of filter appl	ed.	Sets speed	of filter action.		_	
	Page03	Bal Adjusts the and effect s	0-100 balance between	n original	Level Adjusts the	0-150 output level.					L	
018 A-Filter	This is		nce filter with	h a sh	arp envel	ope.					-	
			Knob1			Knob2	Knob3					
		Sense	1-10	Р	Peak	0-10	TT	Mode	Up/Down	1	Г	
A-FILTER	Page01	Adjusts the	effect sensitivity.		Adjusts the Q value of the filter.			Selects whether the direction filter change is up or down.			10	
1	Page02	Dry	0–100		Level	0–150						
	1 ugeoz	Adjusts lev	el of original sound	d.	Adjusts the	output level.					_	
019 Cry	This ef	fect varie	s the sound l	like a '	talking m	odulator.						
	$\sim$		Knob1			Knob2			Knob3			
	Page01		1–10 frequency range pr	rocessed		0-10 intensity of the m	odulation	Sense Adjusts the	-10-1, 1-10 sensitivity of the	effe	P ct.	
1		by the effec Bal	1		resonance s	1					T	
	Page02		0–100 balance between	n original	Level 0–150 Adjusts the output level.							
020 Step	This sp		ect gives the	sound	I a steppe	ed quality.					-	
_			Knob1			Knob2			Knob3			
DEPTH (C)		Depth	0–100		Rate	0–50		Reso	0–10			
	Page01	Sets the de	pth of the modula	ation.	Sets the sp	eed of the modul	ation.	Adjusts the resonance s	intensity of the m ound.	odula	tio	
	Page02	Shape	0–10		Level	0-150					Ĺ	
		Adjusts the	effect envelope.		Adjusts the	output level.						

### **Effect Types and Parameters**

021 SEQ FLTR	The see	quence filter has the f	lavo	or o	of a Z.Vex						
		Knob1		Knob2		Knob3					
	Page01	Step 2–8 Adjusts number of sequence	step	s.	PTTRN Sets effect (	1–8 pattern.		Speed Sets modula	1-50 ation speed.	Þ	P
0000	Page02	Shape 0–10 Sets effect sound envelope.	Í		Reso Sets effect r	0-10		Level Adjusts the	0–150 output level.		Γ
022 RNDM FLTR	This filt	er effect changes cha	rac	ter				Adjusts the	output level.		
		Knob1				Knob2			Knob3		
		Speed 1-50	⊅	Ρ	Range	0–100		Reso	0–10		$\square$
Dinter of second	Page01	Sets modulation speed.			Adjusts freq	uency range affec	ted.	Sets effect	resonance.		_
		Type HPF, BPF, LPF			Chara	2Pole, 4Pole		Bal	0–100		$\square$
ĨŢŢŢŢŶĸ®Ŏ	Page02	Sets filter type.			Adjusts amo	ount of filter applie	ed.	Adjusts the and effect s	balance betwee ounds.	n orig	ginal
	Page03	Level 0–150									
	1 ageos	Adjusts the output level.									
023 Booster	This is	a simulation of the Xo	tic	EP	Booster,		rm an	d firm.			
(TATH AND TITE)		Knob1	-	T -	_	Knob2	<del> </del>	-	Knob3	-	_
.000	Page01	Gain 0–100		Ρ	Bass	-10-10	ĻĹ	Trebl	-10-10	<u> </u>	
Booster	-	Adjusts the gain.	-	-	Adjusts the	low frequency lev	el.	Adjusts the	high frequency I	evel.	_
	Page02	Level 0–150									_
		Adjusts the output level.									
024 OverDrive	Simula	tes the ODB-3 overdri	ve	bas	ss machir	Knob2			Knob3		
TATIN TONE LEVEL		Gain 0–100	1	Р	Tone	0-100	1 1	l evel	0-150		-
OverDrive	Page01	Adjusts the gain.	1		Adjusts the				output level.		
Overbrive	Page02	Bal 0-100 Adjusts the balance betwee	Pen	the							
		original sound and the effected									
025 Bass Muff	This is	a simulation of the Ele	ectr	o-ŀ	larmonix		uff.				
		Knob1				Knob2			Knob3		
	Page01	Gain 0–100		Ρ	Tone	0–100		Level	0–150		
BASSMUFF	-	Adjusts the gain.			Adjusts the	,		Adjusts the	output level.		
0	Page02	Mode NORM, BsBST			Bal	0–100					
		Selects the distortion mode.			original sour	e balance betwe id and the effected	en the Isound.				
026 T Scream		tion of the Ibanez TS8 d numerous clones.	308	, v	hich is lo	wed by many	/ guit	arists as a	a booster ar	nd ł	าลร
		Knob1				Knob2			Knob3		
FILM TIME LEVEL		Gain 0–100	Т	Р	Tone	0–100		Level	0–150	Т	$\Box$
	Page01	Adjusts the gain.			Adjusts the	tone.		Adjusts the	output level.		
T Scream		Bal 0–100									Π
	Page02	Adjusts the balance betwe original sound and the effected									
027 Dist 1	Simula	tion of the Boss DS-1	dis	tor	tion peda		been	a long-se	ller.		
	$\sim$	Knob1				Knob2			Knob3		
	Page01	Gain 0–100		Ρ	Tone	0–100		Level	0–150		
DiSt 1	rageor	Adjusts the gain.			Adjusts the	tone.		Adjusts the	output level.		
		Bal 0–100									
	Page02	Adjusts the balance betwe original sound and the effected	een disou	the ind.							
028 Squeak	Simulat	ion of the popular Pro	Со	Ra	it famous	for its edgy	distor	tion sound			
		Knob1				Knob2			Knob3	_	
	Page01	Gain 0–100		Ρ	Tone	0–100		Level	0-150		
Squeak		Adjusts the gain.			Adjusts the	tone.		Adjusts the	output level.		
	Page02	Bal 0–100									
	i ayeuz	Adjusts the balance betwe original sound and the effected							1		

Greativiti	Page01 Page02 Simulat	Adjusts the e Bal Adjusts the original sound cion of the or its fat, s Gain Adjusts the e Bal Adjusts the original sound cion of the nidrange.	0-100 balance betwe d and the effected & Electro-Har sweet fuzz s Knob1 0-100 balance betwe a and the effected Boss Metal Knob1		nd. nd. P	Tone Adjusts the	f, which is lo Knob2 0-100	ved b	y famous	Knob3 0-150 output level. artists arour Knob3 0-150 output level.		I I th I
31 MetalWRLD	Page02 Simulat world fo Page01 Page02 Simulat lower n	Adjusts the e Bal Adjusts the original sound ciion of the or its fat, s Gain Adjusts the e Bal Adjusts the original sound cion of the nidrange. Gain	jain. 0-100 balance betweed d and the effected be Electro-Har sweet fuzz s Knob1 0-100 balance betweed and the effected Knob1		the nd. nd. P	Adjusts the Big Muf Tone Adjusts the	f, which is lo Knob2 0-100	ved b	Adjusts the famous Level	artists arour Knob3 0-150	nd '	
31 MetalWRLD	Simulat world fo Page01 Page02 Simulat lower n	Bal Adjusts the original sound or its fat, so or its fat, so or its fat, so adjusts the original sound or its fat, so adjusts the original sound icon of the nidrange. Gain Gain Gain	0-100 balance betwe d and the effected & Electro-Har sweet fuzz s Knob1 0-100 balance betwe a and the effected Boss Metal Knob1		nd. nd. P	Big Muf	f, which is lo Knob2 0-100	ved b	y famous	artists arour Knob3 0-150	nd ·	
31 MetalWRLD	Simulat world fo Page01 Page02 Simulat lower n	Adjusts the original sound cion of the or its fat, s Gain Adjusts the g Bal Adjusts the original sound cion of the nidrange.	balance betwee d and the effected e Electro-Har sweet fuzz s Knob1 0-100 balance betwee d and the effected Boss Metal Knob1		nd. nd. P	Tone Adjusts the	Knob2 0-100	ved b	Level	Knob3 0–150	nd '	
Creativitin Greativitin Greativitin Greativitin Greativitin Greativitin Greativitin Greativitin Greativitin Greativitin	Simulat world fo Page01 Page02 Simulat lower n	original sound tion of the or its fat, s Gain Adjusts the g Bal Adjusts the original sound tion of the nidrange. Gain	d and the effected a Electro-Har sweet fuzz s Knob1 0-100 gain. 0-100 balance betwe d and the effected Boss Metal Knob1		nd. nd. P	Tone Adjusts the	Knob2 0-100	ved b	Level	Knob3 0–150	nd '	= t  ]
31 MetalWRLD	world for Page01 Page02 Simulat Iower n	Gain Adjusts the g Bal Adjusts the original sound Cion of the nidrange. Gain	Sweet fuzz s           Knob1           0-100           gain.           0-100           balance betweet and the effected           B Boss Metal           Knob1		P the nd.	Tone Adjusts the	Knob2 0-100	ved b	Level	Knob3 0–150	nd '	t
81 MetalWRLD	Page02 Simulat lower n	Adjusts the g Bal Adjusts the original sound tion of the nidrange.	0–100 gain. 0–100 balance betwe d and the effected BOSS Metal Knob1	l sou	the nd.	Adjusts the	0–100			0-150		]
81 MetalWRLD	Page02 Simulat lower n	Adjusts the g Bal Adjusts the original sound tion of the nidrange.	aain. 0–100 balance betwe d and the effected BOSS Metal Knob1	l sou	the nd.	Adjusts the						
81 MetalWRLD	Page02 Simulat lower n	Bal Adjusts the original sound tion of the nidrange. Gain	0-100 balance betwe d and the effected BOSS Metal Knob1	l sou	nd.		tone.		Adjusts the	output level.	-	
81 MetalWRLD	Simulat lower n	Adjusts the original sound tion of the nidrange. Gain	balance betwe d and the effected BOSS Metal Knob1	l sou	nd.						1	
	Simulat lower n	original sound tion of the nidrange. Gain	d and the effected Boss Metal Knob1	l sou	nd.					1		1
	lower n	tion of the nidrange. Gain	Boss Metal		_							
FRIM TIME LEVEL COCO MetalWRLD	Page01				ne	, which is	characterize	ed by I	ong sust	ain and a pov	ve	r
NetalWRLD	Page01						Knob2			Knob3		ĺ
MetalWRLD	i ageol	Adjusts the c	0–100		Ρ	Tone	0–100		Level	0–150		1
TecumRLD		mujusis ine g	gain.			Adjusts the	tone.		Adjusts the	output level.		1
		Bal	0–100								1	1
	Page02		balance betwe d and the effected									
32 BassDrive	Simulat	tion of the	Sansamp B	ass	; D	river DI, ł	nighly popula	r amc	ng bass i	players.		
			Knob1				Knob2			Knob3		Ī
		Bass	-10–10			Trebl	-10-10		Prese	-10-10	Τ	1
8455 15521	Page01	-	ow frequency lev	el.		Adjusts the	high frequency lev	vel.	Adjusts the	super-high frequer	cv le	لے e۱
		-	0-100	Ē	Р	Blend	0-100		Level	0-150	Ť	٦
	Page02	Adjusts the g				Adjusts the	e balance betwe d and the effected		Adjusts the	output level.	_	
		Mid	-10–10			ongina ooun				1	1	٦
	Page03	l	middle frequency	leve	L		I			4		
3 D.I Plus	This is a				_	ss D.I.+, v	which has bo	th cle	an and di	istortion cha	nne	- 2
			Knob1				Knob2			Knob3		-
-	$\sim$	Bass	-10-10		-	Trebl	-10-10	<u> </u>	Prese	-10-10	Т	1
	Page01		ow frequency lev		_							_
			0-100	ы.   ]	Р	Blend	middle frequency 0–100	iovel.	Level	high frequency le	vei.	-
	Page02				٢		e balance betwe	on the		1	1	1
⊚ <b>D.I+</b> ⊚ □	-32	Adjusts the g	gain.				id and the effected		Adjusts the	output level.		
		Color	On/Off			CHAN	CLN / DIST				1	
	Page03	Turns preset	EQ on or off.			Switches bet channels.	tween clean and di	stortion		1		
84 Bass BB	This is a	a simulati	on of the Xo	tic	Bas		amp, which	has a	tube-like	, thick sound		
			Knob1				Knob2			Knob3		l
		Gain	0–100		Ρ	Bass	-10-10		Trebl	-10-10	Τ	1
Bace 727	Page01	Adjusts the g	gain.			Adjusts the	low frequency lev	el.	Adjusts the	high frequency le	vel.	1
	-	· · · ·	0–100			Level	0-150				Τ	1
	Page02	,	of original sound	I.		Adjusts the				ı		
5 DI5	This sin	nulates th	e AVALON [	DES	SIG	N U5 pre	amp.					
			Knob1				Knob2			Knob3		ĺ
	Dogo01	Gain	0–100			Tone	Off, 1–6		Level	0–150		Î
909	Page01	Adjusts the g	gain.			Adjusts the t	one.		Adjusts the	output level.		
45 1	Page02	HiCut	On/Off						İ	1	Τ	1

NEXT >>>

036 Bass Pre	THIS IS	a preamp	model with	a se	mi-parame	tric equalizer	for	he mid-ra	nge.		
	$\sim$		Knob1			Knob2			Knob3		
INSS THERL LEVEL	D01	Bass	0–10		Trebl	0–10		Level	0–150		P
000	Page01	Adjusts the	low frequency lev	el.	Adjusts the	high frequency lev	vel.	Adjusts the	output level.		
lo "o		Mid	-10-10		Freq	100Hz-4.5kHz					
Bass17e	Page02	Adjusts the	middle frequency	level.	Adjusts the mid-range.	center frequency	/ of th	e			-
37 AC Bs Pre	This is	a preamp	model with	a gra	-	lizer.					
			Knob1			Knob2			Knob3		
		Gain	0-100		Depth	0-10		Level	0-150		Р
AcBsPre	Page01	Adjusts the	gain.		Adjusts the	low frequency lev	el.	Adjusts the	output level.	_	-
GEEN DEPTH LEVEL		Bass	-10-10		L-Mid	-10-10		LM_F	32Hz-6.3kHz		Γ
	Page02		low frequency lev	el.	Adjusts the	low mid frequenc	y level	. Adjusts the	L-Mid center free	uenc	ι γ.
		Mid	-10-10		H-Mid	-10-10	ÍΤ	Trebl	-10-10		ŕ
	Page03	Adjusts the	middle frequency	level.	Adjusts the	high mid frequend	cy leve	I. Adjusts the	high frequency le	evel.	-
38 SVT	Simula	tion of th	e ultimate ro	ck ba	iss amp, th	ne Ampeg SV	ΥT.				
	$\sim$		Knob1			Knob2			Knob3		
	D01	Bass	-10–10		Mid	-10–10		Trebl	-10–10		
	Page01	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency l	evel.	
INTERL		Mid_F	32Hz-6.3kHz		Gain	0–100	1	Level	0-150		
51/1	Page02	Adjusts the mid-range.	center frequency	/ of th	e Adjusts the	gain.		Adjusts the	output level.		
<u>,</u>		Ultra	Off, Low, Hi, Both, Cut		САВ	See Table 1		Mix	0–100		
	Page03	Emphasizes	high and low frequ	encies	. Selects the	cabinet.			nix balance of the s and the signal after th		
39 B-Man	Simula	tion of th	e Fender Bas	sma	n 100.						
			Knob1			Knob2			Knob3		
	Page01	Bass	-10–10		Mid	-10–10		Trebl	-10–10		
1855 MID TREN.	Fageor	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency le	evel.	
eee		Mid_F	32Hz-6.3kHz		Gain	0-100	1	Level	0-150		
B-man	Page02	Adjusts the									
N		mid-range.	e center frequency	/ of th	e Adjusts the	gain.		Adjusts the	output level.		
			on/Off	/ of th	e Adjusts the CAB	gain. See Table 1		Adjusts the Mix	output level.		
<u>,</u>	Page03	mid-range. Deep			Adjusts the	See Table 1		Mix Adjusts the r			
40 HRT3500	Page03	mid-range. Deep Adjusts the lo	On/Off ow-frequency charact	ter.	CAB Selects the	See Table 1	m cc	Mix Adjusts the r the pre-amp a	0–100 nix balance of the s		
40 HRT3500	Page03	mid-range. Deep Adjusts the lo	On/Off ow-frequency charact	ter.	CAB Selects the	See Table 1 cabinet.	m cc	Mix Adjusts the r the pre-amp a	0–100 nix balance of the s		
40 HRT3500	Page03	mid-range. Deep Adjusts the lo	On/Off ow-frequency charact e Hartke HA3	ter.	CAB Selects the	See Table 1 cabinet. or its aluminu	m cc	Mix Adjusts the r the pre-amp a	0–100 mix balance of the s and the signal after th		
40 HRT3500	Page03	mid-range. Deep Adjusts the k tion of the Bass	On/Off ow-frequency charact e Hartke HA3 Knob1	ter.	Adjusts the CAB Selects the famous fo	See Table 1 cabinet. or its aluminut Knob2		Mix Adjusts the r the pre-amp a me. Trebl	0-100 mix balance of the s and the signal after th Knob3 -10-10	e cabir	
40 HRT3500 Hrt-3500	Page03	mid-range. Deep Adjusts the k tion of the Bass	On/Off ow-frequency charact e Hartke HA3 Knob1 -10-10	ter.	Adjusts the CAB Selects the famous fo	See Table 1 cabinet. or its aluminut Knob2 -10-10		Mix Adjusts the r the pre-amp a me. Trebl	0–100 mix balance of the s and the signal after th Knob3	e cabir	
	Page03	mid-range. Deep Adjusts the k tion of the Bass Adjusts the Mid_F	On/Off ow-frequency charact e Hartke HA3 Knob1 [-10–10 low frequency lev	ter. 3500	Adjusts the CAB Selects the famous fo Mid Adjusts the TUBE	See Table 1 cabinet. or its aluminuu Knob2 [-10-10 middle frequency	level.	Mix Adjusts the n the pre-amp a ne. Trebl Adjusts the Level	0-100 mix balance of the s and the signal after th Knob3 -10-10 high frequency lo	e cabir	
	Page03 Simulat Page01	mid-range. Deep Adjusts the k tion of the Bass Adjusts the Mid_F Adjusts the	On/Off ow-frequency charact e Hartke HA3 Knob1 [-10–10 low frequency lev 32Hz=6.3kHz	ter. 3500	Adjusts the CAB Selects the famous fo Mid Adjusts the TUBE e Adjusts the	See Table 1 cabinet. or its aluminuu Knob2 -10-10 middle frequency 0-100	level.	Mix Adjusts the n the pre-amp a ne. Trebl Adjusts the Level	0-100 mix balance of the s and the signal after the Knob3 -10-10 high frequency le 0-150	e cabir	
	Page03 Simulat Page01	mid-range. Deep Adjusts the k tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp	On/Off ow-frequency charact e Hartke HA3 hob1 -10-10 low frequency lew 32Hz=6.3KHz center frequency	ter. 3500	Adjusts the CAB Selects the famous fc Mid Adjusts the TUBE e Adjusts the type sounds CAB	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1	level.	Mix Adjusts the r the pre-amp a nPC. Trebl Adjusts the Adjusts the Adjusts the Mix Adjusts the r	0-100           mix balance of the signal after th           Knob3           -10-10           high frequency li           0-150           • output level.           0-100           mix balance of the signal after th	e cabir evel.	net
Hrt-3500	Page03 Simula Page01 Page02 Page03	mid-range. Deep Adjusts the le tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the	On/Off w-frequency charact e Hartke HA3 Knob1 [-10-10 low frequency lev [32Hz=6.3KHz center frequency [Off,1=10 amount of compr	ter. 3500 rel. y of th ession	Adjusts the CAB Selects the famous for Mid Adjusts the TUBE e Adjusts the type sounds CAB . Selects the	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1	level.	Mix Adjusts the r the pre-amp a nPC. Trebl Adjusts the Adjusts the Adjusts the Mix Adjusts the r	0-100 init balance of the signal after the Knob3 -10-10 high frequency lo 0-150 routput level. 0-100	e cabir evel.	net
Hrt:3500	Page03 Simula Page01 Page02 Page03	mid-range. Deep Adjusts the le tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the	On/Off ww-frequency charact e Hartke HA3 Knob1 [-10-10 low frequency lew 32Hz-6.3kHz center frequency [Off,1-10 amount of compr e SWR SM-9	ter. 3500 rel. y of th ession	Adjusts the CAB Selects the famous for Mid Adjusts the TUBE e Adjusts the type sounds CAB . Selects the	See Table 1 cabinet. r its aluminuu (nob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet.	level.	Mix Adjusts the r the pre-amp a nPC. Trebl Adjusts the Adjusts the Adjusts the Mix Adjusts the r	0-100           mix balance of the signal after th           Knob3           -10-10           high frequency li           0-150           • output level.           0-100           mix balance of the signal after th	e cabir evel.	net
Hrt:3500	Page03 Simula Page01 Page02 Page03	mid-range. Deep Adjusts the lo tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of the	On/Off w-frequency charact e Hartke HA3 Knob1 -10-10 low frequency leve 32H2-6.3KH2 ocnter frequency Off,1-10 amount of compr e SWR SM-9 Knob1	ter. 3500 rel. y of th ession	CAB CAB Selects the famous fc Mid Adjusts the TUBE CAJ CAB CAB Selects the amous for	See Table 1 cabinet. r its aluminuu Knob2 [-10-10 middle frequency [0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2	level.	Mix Mix Adjusts the r the pre-amp a Mix Adjusts the Adjusts the Adjusts the Mix Adjusts the r the pre-amp a	0-100           mix balance of the signal after th           Knob3           -10-10           high frequency li           0-150           • output level.           0-100           mix balance of the signal after th           Knob3	e cabir evel.	
Hrt:3500	Page03 Simula Page01 Page02 Page03	mid-range. Deep Adjusts the lot tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of the Bass	On/Off ww-frequency charact e Hartke HA3 Knob1 -10-10 low frequency lev 32Hz-6.3kHz center frequency Off,1-10 amount of compr e SWR SM-9 Knob1 -10-10	8500	Adjusts the CAB Selects the famous fc Mid Adjusts the TUBE CAJ CAB CAB CAB CAB Selects the amous for Mid	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2 -10-10	level. ansisto	Mix Mix Adjusts the r the pre-amp a Trebl Adjusts the Adjusts the Mix Adjusts the r Mix Adjusts the r Mix Adjusts the r Trebl	0-100       inx balance of the signal after the sign	e cabin evel. ignal a e cabin	
Hrt:3500	Page03 Simula Page01 Page02 Page03 Simula	mid-range. Deep Adjusts the lot tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of the Bass Adjusts the	On/Off ww-frequency charact e Hartke HA3 Knob1 -10-10 low frequency lew 32Hz-6.3kHz center frequency Off,1-10 amount of compr e SWR SM-9 Knob1 -10-10 low frequency lew	8500	Adjusts the CAB Selects the famous fc Mid Adjusts the TUBE e Adjusts the TUBE e Adjusts the type sounds CAB . Selects the amous for Mid Adjusts the	See Table 1 cabinet. rr its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2 -10-10 middle frequency	d.	Mix Adjusts the r the pre-amp a mne. Trebl Adjusts the Adjusts the Mix Adjusts the r Mix Adjusts the r Trebl Adjusts the	O-100     init balance of the signal after the sin the signal after the signal after the signal after t	e cabin evel. ignal a e cabin	
Hrt-3500	Page03 Simula Page01 Page02 Page03 Simula	mid-range. Deep Adjusts the la tion of thu Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of thu Bass Adjusts the Mid_F Adjusts the	On/Off ww-frequency charact e Hartke HA3 Knob1 -10-10 low frequency lev 32Hz-6.3kHz center frequency Off,1-10 amount of compr e SWR SM-9 Knob1 -10-10	ter.  8500  rel.  rel.	Adjusts the CAB Selects the famous for Mid Adjusts the TUBE e Adjusts the TUBE e Adjusts the type sounds CAB Selects the amous for Mid Adjusts the Gain	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2 -10-10 middle frequency 0-100	level. ansisto	Mix Adjusts the r the pre-amp a Adjusts the Adjusts the Adjusts the Vevel Mix Adjusts the Mix Adjusts the r Adjusts the r Trebl Adjusts the Level	O-100     in: balance of the signal after the signal	e cabin evel. ignal a e cabin	
Hrt:3500	Page03 Simula Page01 Page02 Page03 Simula Page01	mid-range. Deep Adjusts the la tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of the Bass Adjusts the Mid_F Adjusts the Mid_F Adjusts the Mid_F	On/Off ow-frequency charact e Hartke HA3 Knob1 -10-10 low frequency lev 32Hz-6.3kHz ocenter frequency Off.1-10 amount of compr e SWR SM-9 Knob1 -10-10 low frequency lev 32Hz-6.3kHz ocenter frequency knob1 -10-10 low frequency lev 32Hz-6.3kHz	ter.  8500  rel.  rel.	Adjusts the CAB Selects the famous fc Mid Adjusts the TUBE Adjusts the type sounds CAB CAB CAB CAB CAB CAB CAB CAB CAB CAB	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2 -10-10 middle frequency 0-100 gain.	d.	Mix Adjusts the r the pre-amp a Adjusts the Adjusts the Adjusts the Vevel Mix Adjusts the Mix Adjusts the r Adjusts the r Trebl Adjusts the Level	0-100           mix balance of the signal after th           Knob3           -10-10           high frequency la           0-150           • output level.           0-100           mix balance of the signal after th           Knob3           -10-10           high frequency la           -100           mix balance of the signal after th           Knob3           -10-10           high frequency la           0-150           output level.	e cabin evel. ignal a e cabin	net
Hrt:3500	Page03 Simula Page01 Page02 Page03 Simula Page01	mid-range. Deep Adjusts the lot tion of the Bass Adjusts the Mid_F Adjusts the mid-range. Comp Adjusts the tion of the Bass Adjusts the Mid_F Adjusts the Mid_F Adjusts the Mid_F	On/Off wwfrequency charact e Hartke HA3 Knob1 -10-10 low frequency lew 32Hz-6.3KHz center frequency Off,1-10 amount of compr e SWR SM-9 Knob1 -10-10 low frequency lew 32Hz-6.3KHz	ter. 8500	Adjusts the CAB CAB Selects the famous for TUBE Adjusts the TUBE Adjusts the type sounds CAB CAB Mid Adjusts the Adjusts the Gain Adjusts the Gain	See Table 1 cabinet. r its aluminuu Knob2 -10-10 middle frequency 0-100 mix of tube and tr See Table 1 cabinet. its hi-fi soun Knob2 -10-10 middle frequency 0-100 gain. See Table 1	d.	Mix Mix Adjusts the r the pre-amp a Trebl Adjusts the V Adjusts the Mix Adjusts the r Mix Adjusts the r Mix Adjusts the r Adjusts the r Adjusts the r Mix Adjusts the r Mix Mix Mix Mix Mix Mix Mix Mix	0-100           init balance of the signal after the sin a signal after the sin a signal after the sin a signa	e cabin evel. ignal a e cabin evel.	

2 FlipTop	Simula	tion of th		5 ma	de famou	s by the Mot	own	sound of t		
			Knob1			Knob2			Knob3	
	Page01	Bass	-10–10		Mid	-10–10		Trebl	-10–10	
	Fageor	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency	level.
		Mid_F	32Hz–6.3kHz		Gain	0-100	F	Level	0–150	
lipTop	Page02	Adjusts the mid-range.	center frequency	/ of the	Adjusts the	gain.		Adjusts the	output level.	
	Page03	Ultra	Off, Low, Hi, Both		САВ	See Table 1		Mix	0–100	
	Fage03	Emphasizes	high and low frequ	encies.	Selects the	cabinet.			nix balance of the s ind the signal after t	
B Acoustic	Simula	tion of th	e Acoustic 36	60 we	ell known	for its gutsy r	midra	ange.		
			Knob1			Knob2			Knob3	
	Daga01	Bass	-10–10		Mid	-10-10		Trebl	-10-10	
	Page01	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency	level.
		Mid_F	32Hz-6.3kHz		Gain	0-100	F	Level	0-150	
acoustic	Page02	Adjusts the mid-range.	center frequency	/ of the	Adjusts the	gain.		Adjusts the	output level.	
		Bright	On/Off		CAB	See Table 1		Mix	0-100	
	Page03	Emphasizes ON.	high frequencies	s wher	<sup>1</sup> Selects the	cabinet.			nix balance of the signal after the	
4 Ag Amp	Simula	tion of th	e Aguilar DB7	750 fa	amous for	its powerful	sour	nd.		
			Knob1			Knob2			Knob3	
	D 01	Bass	-10–10		Mid	-10-10		Trebl	-10–10	
	Page01	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency	level.
ໃໄສດສຫມັງໃ		Mid_F	32Hz-6.3kHz		Gain	0-100	F	Level	0-150	
	Page02	Adjusts the mid-range.	center frequency	/ of the	Adjusts the	gain.		Adjusts the	output level.	
	Page03	Char	Off, Deep, Brght, Both		САВ	See Table 1		Mix	0–100	
	Fageus	Selects one	of 4 types of prese	t tones	. Selects the	cabinet.			nix balance of the s ind the signal after t	
5 Monotone		tion of th usicians.	e POLYTONI	e Mi	NI-BRUTE	III with its o	distin	ct midran	ge, often u	sed I
		1	Knob1		1	Knob2		1	Knob3	
		Bass	-10-10		Mid	-10-10	1 1	Trebl	-10-10	11
	Page01		low frequency lev			middle frequency			high frequency	
		Mid_F	32Hz-6.3kHz	<u> </u>	Gain	0-100	F	-	0-150	10001.
	Page02	-	center frequency	/ of the		1	<u> </u>		output level.	
XXXXXXXXX		Char	Dark, Brght, Flat		CAB	See Table 1		Mix	0-100	
	Page03		of 3 types of prese	t tones	-			Adjusts the n	nix balance of the signal after the	
	Simula	tion of th	e Marshall Su	uper l	Bass that	made rock hi	story			
6 SuperB	$\sim$		Knob1			Knob2			Knob3	
6 SuperB	· ~	Bass	-10-10		Mid	-10–10		Trebl	-10-10	
SuperB						middle frequency	level.	Adjusts the	high frequency	
SuperB	Page01		low frequency lev	el.	Adjusts the	mudule nequency				ievei.
SuperB	Page01			el.	Adjusts the Gain	0-100	F	-	0-150	level.
	Page01 Page02	Adjusts the Mid_F	low frequency lev		Gain	0-100		P Level	1	
	-	Adjusts the Mid_F Adjusts the	low frequency lev 32Hz–6.3kHz		Gain	0-100		P Level	0-150	

047 G-Krueger	Simulat	tion of the	e famous me	tal ba	iss amp G	Gallien-Kruege	er 80(	RB from	the eighties	
	$\sim$		Knob1			Knob2			Knob3	
		Bass	-10-10		Mid	-10–10		Trebl	-10-10	
	Page01	Adjusts the	low frequency lev	rel.	Adjusts the	middle frequency	level.	Adjusts the	high frequency I	evel.
1855 MID TREFL		Mid_F	32Hz-6.3kHz		Gain	0-100	P	Level	0-150	
000	Page02	Adjusts the	center frequency	/ of the	A diverse also			A allowed allow		
G-KRUEGER		mid-range.	. ,		Adjusts the	gain.		Adjusts the	output level.	
	Page03	Color	Off, Low, Mid, Hi		САВ	See Table 1		Mix	0–100	
		Adjusts the	preset tone.		Selects the	cabinet.			nix balance of the s ind the signal after th	
048 Heaven	This sir	nulation o	of the Eden V	VT-80	0 can be	used with a v	vide	variety of	playing style	es.
	$\square$		Knob1			Knob2			Knob3	
	D01	Bass	-10–10		Mid	-10–10		Trebl	-10-10	
	Page01	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency I	evel.
[™Heaven]		Mid_F	32Hz-6.3kHz		Gain	0–100	P	Level	0-150	
•••••	Page02	Adjusts the mid-range.	center frequency	/ of the	Adjusts the	gain.		Adjusts the	output level.	
		ENHNC	0-10		CAB	See Table 1		Mix	0-100	
	Page03		ntrol changes the fro ording to the knob p		Selects the	cabinet.			nix balance of the s ind the signal after th	
049 Mark B	This sir	nulates tl	ne Italian Ma	rkbas	s Little M	ark III.				
	$\sim$		Knob1			Knob2			Knob3	
		Bass	-10–10		Mid	-10–10		Trebl	-10–10	
	Page01	Adjusts the	low frequency lev	el.	Adjusts the	middle frequency	level.	Adjusts the	high frequency I	evel.
MarkBT		Mid F	32Hz-6.3kHz		Gain	0-100	Р	Level	0-150	
/000/	Page02	Adjusts the mid-range.	center frequency	/ of the	Adjusts the	gain.		Adjusts the	output level.	
		Color	0–6		CAB	See Table 1		Mix	0-100	
	Page03	Adjusts low	and high frequent	cies.	Selects the	cabinet.			nix balance of the s ind the signal after th	
050 Tremolo	This eff	ect varies	s the volume	at a r	egular rat	te.				
	$\sim$		Knob1			Knob2			Knob3	
ACCOUNTS OF THE OWNER	D 01	Depth	0-100		Rate	0-50	⇒ P	Level	0-150	
I O O O	Page01	Adjust the c	lepth of the modu	lation.	Adjusts the	rate of the modul	ation.	Adjusts the	output level.	
Trenolo ©	Page02	Wave	UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9							
		Sets the mo	dulation waveform	n.						
051 Slicer	This eff				und by co	ntinuously sl	icina	the input		
ODT Officer			Knob1			Knob2		T	Knob3	
F /	$\vdash$	PTTRN	Knob1 1-20		Speed	Knob2 1–50		Bal	Knob3 0-100	Р
*TSUILER	Page01	Sets effect p				ation speed.	P		balance betwee	
		THRSH	0-50		Level	0-150		and effect s	iounas.	
	Page02		ct threshold.			output level.				
052 4-Phaser	This is a	,		t that	<i>,</i>	s a swooshin	g sou	ind.		
			Knob1			Knob2			Knob3	
(W W W		Rate	0-50	⊅Р	Reso	-10–10		Level	0-150	
$\Theta \Theta \Theta$	Page01		modulation rate.	L L		tensity of the effect c	haracter	Adjusts the	output level.	
<b>4-Pha</b> ser	<u> </u>	LoCut	Off-800Hz		.,			1,111 110		
	Page02		ut frequency in t	he low		1			1	
			effect sound.			1				

			Knob1				tailed. Knob2			Knob3	
NUE RED LEVEL		Rate	0-50		Р	Reso	-10-10	TT	Level	0-150	T
<u>999</u>	Page01	Adjusts the	modulation rate.	1.1		Adjusts the in	tensity of the effect	characte	. Adjusts the	output level.	-
8-Phaser		LoCut	Off-800Hz								
	Page02		ut frequency in t effect sound.	the lo	ow						
The Vibe	This vit	be sound	features unio	que	un	dulations	5.				
	$\sim$		Knob1				Knob2			Knob3	
TheVibe	Page01	Speed	0-50		Ρ	Depth	0–100		Bias	0-100	
	rageor	Sets modu	ation speed.			Sets the de	pth of the modula	ation.	Adjusts bias	of waveform mod	dulatio
	Page02	Wave	0-100			Mode	VIBRT, CHORS		Level	0-150	
	1 ageoz	Adjusts mo	dulation waveform	ı.		Sets effect	to vibrato or choru	JS.	Adjusts the	output level.	_
DuoPhase	This eff	ect com	oines two pha	aser	rs.						
			Knob1				Knob2			Knob3	
	Dame 01	RateA	1–50	♪	Ρ	RateB	1–50, SyncA, RvrsA		Level	0–150	Τ
Juo-Phase 💷	Page01	Adjusts spe	ed of LFO A modu	ulatio	n.	Adjusts spe	ed of LFO B mod	lulation	Adjusts the	output level.	
		ResoA	0-10			ResoB	0-10		Link	Seri, Para, STR	T
000	Page02		nance of LFO A mo	dulatio	on.		nance of LFO B mo	dulation		vo phasers are co	nnec
		DPT_A	1-100			DPT_B	1-100			1	T
	Page03	_	oth of LFO A modu	latior	n.		th of LFO B mod	ulation.			_
WarpPhase	This ph	aser has	a one way ef	ffect	t.						
	$\sim$		Knob1				Knob2			Knob3	
	D01	Speed	1–50	♪	Ρ	Reso	0–10		Level	0-150	
	Page01	Sets modu	ation speed.			Sets effect	resonance.		Adjusts the	output level.	
	Page02	DRCTN	Go, Back								
	1 ageoz	Sets direct	on of warping.								
Chorus	This eff	ect mixes	s a shifted pito	ch w	/ith	the origi	nal sound to	add r	novement	and thicknes	s.
	$\square$		Knob1				Knob2			Knob3	
COLUMN RATE MANY		Depth	0–100			Rate	1–50		Mix	0-100	
	Page01	Sets the de	pth of the modula	tion.		Sets the sp	eed of the modul	ation.		amount of effected d with the original	
		LoCut	Off-800Hz		_	l evel	0-150		PreD	On/Off	Souri
	Page02		he low-range cuto	off po	int				-		_
_		for the effe	ct sound.			Adjusts the	output level.		lums pre-a	elay on or off.	_
Detune			fect sound th us effect with						ne original	sound, this	effe
			Knob1				Knob2		1	Knob3	
(w		Cent	-50-50		_	PreD	0-50	ТТ	Mix	0-100	-
	Page01		detuning in cents	s, wh	ich		e-delay time of th	ne effec		amount of effect	ed so
Detune			ements of 1/100-se	mitor	ne.	sound.	1		_	d with the original	soun
	Page02	Tone	0–10			Level	0–150		LoCut	Off-800Hz	
	Fage02	Adjusts the	tone.			Adjusts the	output level.			ut frequency in e effect sound.	the
VintageCE	This is	a simulat	ion of the BC	DSS	С	E-1.					
			Knob1				Knob2			Knob3	
		Comp	0–9			Rate	1–50		Mix	0–100	
UintaseCE	Page01	Sets the se	nsitivity of the com	press	or.	Sets the sp	eed of the modul	ation.		amount of effecte d with the original	
	_	Level	0-150	Π			[				
	Page02		1		_				_		

NEXT >>>

		a stereo d	chorus with a	a clea	r tone.					
		1	Knob1			Knob2			Knob3	
		Depth	0-100	TT	Rate	1-50		Mix	0-100	
	Page01		oth of the modula	ition.	1	ed of the modula	tion.	Adjusts the a	amount of effecter with the original s	
		LoCut	Off-800Hz	ТТ	Level	0–150			Ŭ	
	Page02	Specifies th for the effect	ie low-range cuto et sound.	off poin	Adjusts the					
061 Ensemble	This is	a chorus e	ensemble the	at fea	tures thre	e-dimension	al moʻ	vement.		
			Knob1			Knob2			Knob3	
r Corris date MEX I	Page01	Depth Sets the der	0–100 oth of the modula	tion.	Rate Sets the spe	1–50 eed of the modula	tion.	Adjusts the a	0-100 amount of effected	
	Page02		0–10		Level	0–150		that is mixed	with the original s	sound.
	1 ageuz	Adjusts the	tone.		Adjusts the	output level.				
062 VinFLNGR	This an	alog flang	ger sound is :	simila	r to an MX					
			Knob1			Knob2			Knob3	
		Depth	0–100		Rate	0–50	♪ P	Reso	-101, 0,110	
	Page01	Sets the dep	oth of the modula	ition.	Sets the spe	ed of the modula	tion.	Adjusts the ir resonance.	ntensity of the mo	dulatio
(VIII FLINGR)		PreD	0–50		Mix	0–100		Level	0–150	
	Page02		ay time of effect :	sound.		amount of effected with the original s		Adjusts the o	output level.	
		LoCut	Off-800Hz							
	Page03		t-off frequency in effect sound.	the low	'					
063 Flanger	This is	a jet sour	nd like an AD	A flar	iger.					
		1	Knob1			Knob2			Knob3	
		Depth	0-100	TT	Rate	0–50		Reso	-10-1, 0,1-10	ТТ
DEPTH RATE RESOL	Page01	-	oth of the modula	ition.	1	ed of the modula	L. L		ntensity of the mo	dulatio
leoe,		PreD	0-50		Mix	0-100		Level	0-150	
Fianser ©	Page02	Sets pre-del	ay time of effect :	sound.		amount of effected with the original s		Adjusts the o	output level.	
		LoCut	Off-800Hz							
	Page03		t-off frequency in effect sound.	the low	'					
064 DynaFLNGR										
D64 DynaFLNGR		lume of t ic flanger.		ound	changes :	according to	the	nput sign	al level with	n thi
DynarLivGR			Knob1	ound		Knob2			Knob3	n thi
	dynami			ound	changes a		the i	nput sign Sense		n thi
		ic flanger. Depth	Knob1		Rate	Knob2	♪ P	Sense	Knob3	
	dynami	Depth Sets the dep Reso Adjusts the i	Knob1 0–100	ition.	Rate Sets the spe Level	Knob2 0–50 eed of the modula 0–150	♪ P	Sense	Knob3 -10–1, 1–10	
I Danaflar Danaflar D	dynami Page01 Page02	Depth Sets the dep Reso Adjusts the i resonance.	Knob1 0–100 2th of the modula -10–1, 0, 1–10 ntensity of the mo	ition.	Rate Sets the spe Level Adjusts the	Knob2 0–50 eed of the modula 0–150	♪ P	Sense	Knob3 -10–1, 1–10	
I Danaflage Danaflage O	dynami Page01 Page02	Depth Sets the dep Reso Adjusts the i resonance.	Knob1 0-100 oth of the modula -10–1, 0, 1–10 ntensity of the mo	ition.	Rate Sets the spe Level Adjusts the	Knob2 0–50 eed of the modula 0–150 output level.	♪ P	Sense	Knob3 -10–1, 1–10 sensitivity of the o	
I Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Denaflare Dena	dynami Page01 Page02	Depth Sets the dep Reso Adjusts the i resonance. fect autor	Knob1 0-100 oth of the modula -10-1, 0, 1-10 ntensity of the mo natically add: Knob1	ition.	Rate Sets the spe Level Adjusts the ato.	Knob2 0-50 eed of the modula 0-150 output level. Knob2	Description.	Sense Adjusts the s	Knob3 -10–1, 1–10 sensitivity of the of Knob3	
I Danaflage Danaflage O	dynami Page01 Page02	Depth Sets the dep Reso Adjusts the i resonance. fect auton Depth	Knob1 0-100 oth of the modula -10–1, 0, 1–10 ntensity of the mo	s vibr	Rate Sets the spe Level Adjusts the atO. Rate	Knob2 0–50 eed of the modula 0–150 output level.	>     P       tion.	Sense Adjusts the s Bal Adjusts the l	Knob3 -10–1, 1–10 sensitivity of the r Knob3 0–100 palance between	effect.
I Danaflage Danaflage O	dynami Page01 Page02 This eff	Depth Sets the dep Reso Adjusts the i resonance. fect auton Depth	Knob1 0-100 oth of the modula -10-1, 0, 1-10 ntensity of the modula natically add: Knob1 0-100	s vibr	Rate Sets the spe Level Adjusts the atO. Rate	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50	>     P       tion.	Sense Adjusts the s	Knob3 -10–1, 1–10 sensitivity of the r Knob3 0–100 palance between	effect.
I Danaflar Danaflar D	dynami Page01 Page02 This eff	Depth Sets the dep Reso Adjusts the i resonance. fect auton Depth Sets the dep	Knob1 [0–100 ath of the modula [-10–1, 0, 1–10 ntensity of the modula matically add: Knob1 [0–100 ath of the modula [0–10	s vibr	Rate Sets the spe Level Adjusts the ato. Rate Sets the spe	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50 eed of the modula 0-150	>     P       tion.	Sense Adjusts the s Bal Adjusts the l	Knob3 -10–1, 1–10 sensitivity of the r Knob3 0–100 palance between	effect.
Des Vibrato	dynami Page01 Page02 This eff Page01 Page02	c flanger. Depth Sets the dep Reso Adjusts the i resonance. fect autor Depth Sets the dep Tone Adjusts the	Knob1           0-100           ath of the modula           -10-1, 0, 1-10           ntensity of the modula           matically add:           Knob1           0-100           ath of the modula           0-100           ath of the modula           0-10           sound one of the modula	s vibr	Rate Sets the spe Level Adjusts the atO. Sets the spe Level Level Adjusts the	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50 eed of the modula 0-150 output level. 0-150 output level. e original sou	J         P           tion.	Sense Adjusts the s Bal Adjusts the l	Knob3 -10–1, 1–10 sensitivity of the e Mnob3 0–100 poalance between uunds.	effect.
Des Vibrato	dynami Page01 Page02 This eff Page01 Page02	c flanger. Depth Sets the dep Reso Adjusts the i resonance. fect autor Depth Sets the dep Tone Adjusts the	Knob1 [0-100 th of the modula -10-1, 0, 1-10 ntensity of the modula matically add: Knob1 [0-100 ath of the modula [0-10 tone.	s vibr	Rate Sets the spe Level Adjusts the atO. Sets the spe Level Level Adjusts the	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50 0-50 eed of the modula 0-150 0-150 output level.	J         P           tion.	Sense Adjusts the s Bal Adjusts the l	Knob3 -10–1, 1–10 sensitivity of the r Knob3 0–100 palance between	effect.
Des Vibrato	dynami Page01 Page02 This eff Page02 This eff	c flanger. Depth Sets the dep Reso Adjusts the i resonance. fect autor Depth Sets the dep Tone Adjusts the	Knob1           0-100           ath of the modula           -10-1, 0, 1-10           ntensity of the modula           matically add:           Knob1           0-100           ath of the modula           0-100           ath of the modula           0-10           sound one of the modula	s vibr	Rate Sets the spe Level Adjusts the atO. Sets the spe Level Level Adjusts the	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50 eed of the modula 0-150 output level. 0-150 output level. e original sou	J         P           tion.	Sense Adjusts the s	Knob3 -10–1, 1–10 sensitivity of the e Mnob3 0–100 poalance between uunds.	effect.
Disnaf-Liker	dynami Page01 Page02 This eff Page01 Page02	ic flanger. Depth Sets the dep Reso Adjusts the i resonance. fect autor Depth Sets the dep Tone Adjusts the fect adds Oct Adjusts the lower sound	Knob1           [0-100           ath of the modula           -10-1, 0, 1-10           ntensity of the modula           natically add:           Knob1           [0-100           ath of the modula           [0-100           ath of the modula           [0-10           sound one of Knob1	s vibr	Rate Sets the spe Level Adjusts the ato. Sets the spe Level Adjusts the below the Dry Dry Adjusts the level	Knob2 0-50 eed of the modula 0-150 output level. C-50 eed of the modula 0-150 0-50 eed of the modula 0-150 output level. e Original SOL Knob2 0-100 evel of the original	J     P       tion.       J       J       Ition.	Sense Adjusts the s	Knob3 -10–1, 1–10 sensitivity of the of Knob3 0–100 palance between unds. Knob3	effect.
Disnaf-Liker	dynami Page01 Page02 This eff Page02 This eff	ic flanger. Depth Sets the dep Reso Adjusts the dep text autor Depth Sets the dep Tone Adjusts the fect adds Oct Adjusts the lower sound Low	Knob1           0-100           th of the modula           -10-1, 0, 1-10           ntensity of the modula           natically add.           Knob1           0-10           oth of the modula           0-10           sound one o           Knob1           0-10           loe-10           tone.           sound one o           Knob1           0-100	tion.	Rate Sets the spe Level Adjusts the atO. Rate Sets the spe Level Adjusts the below the Dry Adjusts the I Mid	Knob2 0-50 eed of the modula 0-150 output level. Knob2 0-50 eed of the modula 0-150 output level. e original sou Knob2 0-100	>         P           tion.	Sense Adjusts the s Bal Adjusts the l and effect sc and effect sc Tone Adjusts the octave lower	Knob3 -10–1, 1–10 sensitivity of the of Knob3 0–100 oalance between junds. Knob3 0–10 tonal quality of t sound compone 0–150	effect.

	This eff	fect shifts	the pitch up	or do	wn.					
			Knob1			Knob2			Knob3	
(आहर साह स्थ		Shift	-12—1, 0, 1–12, 24		Tone	0–10		Bal	0–100	Р
Ritch SHFT	Page01		tch shift amount in se jives a detuning effec		Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	n origina
	Page02	Fine Allows fine	-25-1, 0, 1-25 adjustment of pit	tch shift	Level	0-150				
68 MonoPitch	This is	amount in ce	nt (1/100 semitone)	steps.	Adjusts the	output level.	bonic			
	11115 15			10 500	Tu variari T				. , .	•
			Knob1	T T		Knob2			Knob3	
	Page01	Shift Adjusts the pi	1–12, 24 tch shift amount in se	mitones	Tone	0–10		Bal Adjusts the	0–100 balance between	n origina
MonoPitch			jives a detuning effec		Adjusts the	tone.		and effect s		in origine
		Fine	-25-1, 0, 1-25		Level	0–150				
	Page02		adjustment of pit nt (1/100 semitone)		Adjusts the	output level.				
69 H.P.S	This inte	elligent pit	ch shifter out	puts t	ne pitch-sh	nifted sound ad	cordi	ng to scale	e and key set	ttings.
			Knob1			Knob2			Knob3	
			-6, -5, -4, -3, -m, m,			C, C#, D, D#, E,				
HPS S	Page01	Scale	3, 4, 5, 6 (See Table 2)		Key	F, F#, G, G#, A, A#, B		Mix	0–100	F
			itch of the pitch- I to the original sou		for pitch shif	nic (root) of the sca ting.	le used		amount of effect with the original	
		Tone	0-10		Level	0-150				
	Page02	Adjusts the	tone.		Adjusts the	output level.			1	
70 BendCho	This effe	ect hends t	the nitch using	the in	inut signal	as the trigger a	and pro		ach note sena	rately
Denaeno			Knob1		T	Knob2		T	Knob3	nutory.
		Death	0-100		Time	0-50	Р	Bal	0-100	<u> </u>
	Page01	Depth	0-100		Time	0-50	F	Ddi	0-100	
								Adjusts the	halance betwee	n origina
ПСмосн∏_́ст	1 ugoo1	Adjusts the	effect depth.		Sets time b	efore effect starts.		Adjusts the and effect s	balance betweer ounds.	n origina
		Adjusts the Mode	effect depth. Up, Down		Sets time b Tone	efore effect starts.				n origina
	Page02	Mode				0–10		and effect s Level	ounds.	n origina
71 RingMod	Page02 This eff	Mode Sets direction	Up, Down on of pitch bend.		Tone Adjusts the	0–10	the "F	and effect s Level Adjusts the	ounds. 0–150 output level.	
71 RingMod	Page02 This eff	Mode Sets direction	Up, Down on of pitch bend. uces a metal		Tone Adjusts the	0–10 tone.	the "F	and effect s Level Adjusts the	ounds. 0-150 output level. ameter resul	
71 RingMod	Page02 This eff	Mode Sets direction	Up, Down on of pitch bend. uces a metal f sound char		Tone Adjusts the	0-10 tone. nd. Adjusting	the "F	and effect s Level Adjusts the	ounds. 0–150 output level.	
71 RingMod	Page02 This eff	Mode Sets direction fect production change of Freq	Up, Down on of pitch bend. uces a metal f sound char Knob1	acter.	Tone Adjusts the ging sour	0-10 tone. nd. Adjusting Knob2 0-10	the "F	and effect s Level Adjusts the Freq" para Bal	ounds. 0-150 output level. ameter resul Knob3 0-100 balance between	ts in a
	Page02 This eff drastic Page01	Mode Sets direction fect production change of Freq	Up, Down on of pitch bend. uces a metal f sound char Knob1 1-50	acter.	Tone Adjusts the ging sour	0-10 tone. nd. Adjusting Knob2 0-10	the "F	and effect s Level Adjusts the Freq" para Bal Adjusts the	ounds. 0-150 output level. ameter resul Knob3 0-100 balance between	ts in a
	Page02 This eff drastic	Mode Sets direction fect production change of Freq Sets the free Level	Up, Down on of pitch bend. Uces a metal f sound chara Knob1 1-50 quency of the mode	acter.	Tone Adjusts the ging sour	0-10 tone. nd. Adjusting Knob2 0-10	the "F	and effect s Level Adjusts the Freq" para Bal Adjusts the	ounds. 0-150 output level. ameter resul Knob3 0-100 balance between	ts in a
	Page02 This eff drastic Page01 Page02	Mode Sets direction fect production Freq Sets the free Level Adjusts the	Up, Down on of pitch bend. uces a metal f sound chara 1–50 quency of the mode 0–150	acter.	Tone Adjusts the ging sour	0-10 tone. nd. Adjusting Knob2 0-10	the "F	and effect s Level Adjusts the Freq" para Bal Adjusts the	ounds. 0-150 output level. ameter resul Knob3 0-100 balance between	ts in a
	Page02 This eff drastic Page01 Page02	Mode Sets direction fect production Freq Sets the free Level Adjusts the	Up, Down on of pitch bend. Juces a metal f sound char- Knob1 1-50 quency of the mod 0-150 output level.	acter.	Tone Adjusts the ging sour	0-10 tone. nd. Adjusting Knob2 0-10	the "F	and effect s Level Adjusts the Freq" para Bal Adjusts the	ounds. 0-150 output level. ameter resul Knob3 0-100 balance between	ts in a
	Page02 This eff drastic Page01 Page02	Mode Sets direction fect production Freq Sets the free Level Adjusts the	Up, Down on of pitch bend. Luces a metal f sound char Knob1 [1–50 quency of the mode [0–150 output level. es a lo-fi sou	acter.	Tone Adjusts the ging sour	0-10 tone. d. Adjusting Knob2 0-10 tone.	the "F	and effect s Level Adjusts the Freq" para Bal Adjusts the	ounds. 0–150 output level. meter resul Knob3 0–100 balance between ounds.	ts in a
	Page02 This eff drastic Page01 Page02	Mode Sets direction fect production change of Freq Sets the free Level Adjusts the fect creat	Up, Down on of pitch bend. Uces a metal f sound char Knob1 [1-50 quency of the mode [0-150 output level. es a lo-fi sou Knob1 [4-16	acter.	Tone Adjusts the ging sour Tone Adjusts the	0-10 tone. d. Adjusting Knob2 0-10 tone. Knob2 0-50		and effect s Level Adjusts the req" para Bal Adjusts the and effect s Bal Bal	ounds.           0-150           output level.           Imeter result           Knob3           0-100           balance between ounds.           Knob3           0-100           balance between ounds.	ts in a
	Page02 This eff drastic Page01 Page02 This eff Page01	Mode Sets direction fect produ- change of Freq Sets the free Level Adjusts the fect creat Bit	Up, Down on of pitch bend. Uces a metal f sound char Knob1 [1-50 quency of the mode [0-150 output level. es a lo-fi sou Knob1 [4-16	acter.	Tone Adjusts the ging SOUR Tone Adjusts the SMPL	0-10 tone. d. Adjusting Knob2 0-10 tone. Knob2 0-50		and effect s Level Adjusts the Freq" para Bal Adjusts the and effect s Bal Bal	ounds.           0-150           output level.           Imeter result           Knob3           0-100           balance between ounds.           Knob3           0-100           balance between ounds.	ts in a
	Page02 This eff drastic Page01 Page02 This eff	Mode Sets directification fect production Freq Sets the frec Level Adjusts the fect creat Bit Sets bit dep	Up, Down           on of pitch bend.           uces a metal           f sound char           1-50           quency of the mode           0-150           output level.           es a lo-fi sou           Knob1           4-16           tth.           0-10	acter.	Tone Adjusts the ging SOUR Tone Adjusts the SMPL Sets sampli Level	0-10 tone. d. Adjusting Knob2 0-10 tone. Knob2 0-50 ng rate.		and effect s Level Adjusts the Freq" para Bal Adjusts the and effect s Bal Bal	ounds.           0-150           output level.           Imeter result           Knob3           0-100           balance between ounds.           Knob3           0-100           balance between ounds.	ts in a
	Page02 This eff drastic Page01 Page02 This eff Page01 Page02	Mode Sets directive fect production Freq Sets the frec Level Adjusts the fect creat Bit Sets bit dep Tone Adjusts the	Up, Down           on of pitch bend.           uces a metal           f sound char           1-50           quency of the mode           0-150           output level.           es a lo-fi sou           Knob1           [4-16           tth.           [0-10           tone.	acter.	Tone Adjusts the ging Sour Tone Adjusts the SMPL Sets sampli Level Adjusts the	0-10 tone. Knob2 0-10 tone. 0-50 ng rate. 0-50 output level. en picking.		and effect s Level Adjusts the Freq" para Bal Adjusts the and effect s Bal Bal	ounds. O-150 output level. mmeter resul Knob3 O-100 balance between ounds. O-100 balance between ounds. Trigger	ts in a
72 BitCrush	Page02 This eff drastic Page01 Page02 This eff Page01 Page02	Mode Sets directive fect production Freq Sets the frec Level Adjusts the fect creat Bit Sets bit dep Tone Adjusts the	Up, Down           on of pitch bend.           uces a metal           f sound char.           1-50           quency of the mode           0-150           output level.           es a lo-fi sou           Knob1           4-16           th.           0-10           tone.           uces an explo           Knob1	acter.	Tone Adjusts the ging Sour Tone Adjusts the SMPL Sets sampli Level Adjusts the	0-10 tone. M. Adjusting 0-10 tone. 0-10 tone. 0-50 ng rate. 0-150 output level.		and effect s Level Adjusts the Freq" para Bal Adjusts the and effect s Bal	ounds. O-150 output level. mmeter resul Knob3 O-100 balance between ounds. D-100 balance between ounds.	ts in a
72 BitCrush	Page02 This eff drastic Page01 Page02 This eff Page01 Page02	Mode Sets directive fect production Freq Sets the frec Level Adjusts the fect creat Bit Sets bit dep Tone Adjusts the	Up, Down           on of pitch bend.           uces a metal           f sound char           1-50           quency of the mode           0-150           output level.           es a lo-fi sou           Knob1           [4-16           tth.           [0-10           tone.	acter.	Tone Adjusts the ging Sour Tone Adjusts the SMPL Sets sampli Level Adjusts the	0-10 tone. Knob2 0-10 tone. 0-50 ng rate. 0-50 output level. en picking.		and effect s Level Adjusts the Freq" para Bal Adjusts the and effect s Bal Adjusts the and effect s Bal Bal Bal Bal Bal	ounds. O-150 output level. meter resul Knob3 O-100 balance between ounds. O-100 balance between ounds. Trigger Knob3 O-100 balance between Onds. Trigger 0-100 balance between Onds. D-100 Changer Cha	ts in a
72 BitCrush	Page02 This eff drastic Page01 Page02 This eff Page01 Page02 This eff	Mode Sets directiv fect produ- change of Freq Sets the free Level Adjusts the fect creat Bit Sets bit dep Tone Adjusts the fect produ- PTTRN Sets type o	Up, Down           an of pitch bend.           uces a metal           f sound char.           1-50           quency of the mod           0-150           output level.           es a lo-fi sou           Knob1           4-16           tth.           0-10           tone.           uces an explc           Knob1           HndGn, Arm, Bornb, Thndr           effect sound.	acter.	Tone Adjusts the ging sour Tone Adjusts the SMPL Sets sampli Level Adjusts the Sound wh Decay Sets length	0-10 tone. Knob2 0-10 tone. 0-10 tone. 0-50 0-50 0-50 output level. 1-100 of reverberations.	P	and effect s Level Adjusts the Adjusts the Bal Adjusts the and effect s Bal Adjusts the and effect s FS Bal Adjusts the and effect s	ounds. 0-150 output level. meter resul Knob3 0-100 balance betweel ounds. 0-100 balance betweel ounds. Trigger Knob3 0-100 balance betweel ounds. 0-100 balance betweel ounds.	ts in a
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72 BitCrush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Crush Cr	Page02 This eff drastic Page01 Page02 This eff Page02 This eff Page02 This eff	Mode Sets directive fect produchange of Freq Sets the fred Level Adjusts the fect creat Bit Sets bit dep Tone Adjusts the fect produce PTTRN Sets type of THRSH	Up, Down           an of pitch bend.           uces a metal           f sound char.           1-50           quency of the mod           0-150           output level.           es a lo-fi sou           Knob1           4-16           tth.           0-10           tone.           uces an explc           Knob1           HndGn, Arm, Bornb, Thndr           effect sound.	acter.	Tone Adjusts the ging Sour Tone Adjusts the SMPL Sets sampli Level Adjusts the Sound wh Decay Sets length Power	0-10 tone. Knob2 0-10 tone. 0-10 tone. 0-50 0-50 0-50 output level. 1-100 of reverberations.	P	and effect s Level Adjusts the Adjusts the Bal Adjusts the and effect s Bal Adjusts the and effect s FS Bal Adjusts the and effect s	ounds. O-150 output level. Imeter resul Knob3 O-100 balance betweer ounds. O-100 balance betweer ounds. Trigger Knob3 O-100 balance betweer ounds. O-100 balance	ts in a

NEXT >>>

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074 MonoSyn			of the input s			monopn	onic (single-n		iaying) ba		er un	iat
			Knob1	r			Knob2			Knob3		
(@#@@)		Decay	0–100			Wave	Saw, Pulse, PWM		Reso	0–10		
Mono Syn Lui (ji Lui	Page01	Adjusts the	rate of sound cha	nge.		(sawtooth) or PWM (p	vaveform type to , "Pulse" (square pulse width mod fatter sound).	wave),		e intensity of th	e effe	ect
	Page02	Synth Adjusts leve	0–100 I of synthesizer so			Dry Adjusts leve	0–100 I of original sound	P	Level Adjusts the	0-150 output level.		
075 StdSyn	ZOOM		ass synthesi		_			-	Aujusts the			_
		-	Knob1				Knob2			Knob3		
SENSE SOUND TONE		Sense	0-100			Sound	1-4		Tone	0-10		
StdSyn	Page01	Adjusts the detection.	e sensitivity for	trigg	ger	Selects a sy	nthesizer variatior	1.	Adjusts the	tonal quality of the	e soun	ıd.
unojin.		Synth	0-100			Dry	0-100	Р	Level	0-150		
	Page02	, ·	I of synthesizer so	bund.		,	el of original sound			output level.		-
076 SynTlk	This ef			_			milar to a talk		, í		owe	ls.
	$\sim$		Knob1				Knob2			Knob3		
	Page01	Decay	0–100			Туре	iA, UE, UA, oA		Tone	0-10		
Svn	Fageor	Adjusts the r	ate of sound chang	e.		Selects a vo	wel variation.		Adjusts the	tonal quality of the	soun	ıd.
<b>COTIK</b>	Dogo02	Synth	0–100			Dry	0–100	P	Level	0-150		
	Page02	Adjusts leve	l of synthesizer so	ound.		Adjusts leve	el of original sound		Adjusts the	output level.		
077 V-Syn	This ef	fect produ	uces a vintag	e ba	ass	s synthes	sizer sound.					
			Knob1				Knob2			Knob3		
		Decay	0–100			Sense	0–30		Range	-10–10		
<u>V-5YN</u>	Page01	Adjusts the	rate of sound cha	nge.		Adjusts the detection.	e sensitivity for	trigger	Adjusts the	filter shift range.		
	Page02	Synth	0–100			Dry	0–100	P	Level	0–150		
	1 age 02	Adjusts leve	l of synthesizer so	ound.		Adjusts leve	el of original sound		Adjusts the	output level.		
078 4VoiceSyn							/ component ined by the N					ne
	$\sim$	1	Knob1				Knob2			Knob3		
(		ATTCK	0-10		-	Mode	1-9		Scale	1, 2	TT	
4Voice Syn	Page01		ttack rate of the syn	ithesi	zer		armony type fron	n 1 - 9.	Selects a variations a	harmony variati are available for des. (See Table 4)		
[ <del>7 8]</del> ©]		Synth	0-100			Dry	0-100	Р	Level	0-150		
	Page02	,	l of synthesizer so	bund.		,	el of original sound			output level.		-
079 Z-Syn	This ba		sizer sound						.,			-
	$\sim$		Knob1				Knob2			Knob3		
		Wave	Saw, Sgr			Decay	0-100	P	Tone	0-10	TT	
	Page01	Selects the v	vaveform.			Adjusts the	speed of tone mod	ulation.	Adjusts the	tone.		
		Freq	0-10			Range	0-20		Reso	0-20		
	Page02	Sets the cut pass filter.	-off frequency of t	the lo	w-	Adjusts the a modulation.	amount of cut-off fre	equency	Adjusts th resonance.	e intensity of th	he fil	ter
	D 00	Synth	0-100			Dry	0–100		Level	0-150		
	Page03	Adjusts leve	l of synthesizer so	ound.		Adjusts leve	el of original sound		Adjusts the	output level.		
		fect simu <sup>l</sup>	ates an orga	n so	SUI	nd.						
080 Z-Organ	This ef		5				Knob2			Knob3		_
080 Z-Organ	This ef		Knob1									
080 Z-Organ	$\geq$	Upper		ΓΤ	Р	Lower			Drv			-
2-Organ	This eff	Upper Adjusts volu	0–100	encie	·		0–100	ncies.	Dry Adjusts leve	0–100	 d.	
2-Organ	$\geq$			encie	·			ncies.	,		d.	

081 Defret	Turns t	he sound	from any bas	ss g	Jui	tar into a	fretless bas	s sour	nd.		
	$\geq$		Knob1				Knob2			Knob3	
SENSE COLOR LEVEL		Sense	0–30			Color	1–10		Level	0–150	
Defret	Page01	Adjusts the	effect sensitivity.			the sound.	e harmonics con . Higher setting onger effect chara	y values	Adjusts the	output level.	
	Page02	Tone	1–50		Ρ						
	1 ugoo2	Adjusts the	tonal quality of the	soun	d.						
082 Delay	This lor	ng delay l	nas a maximu	ım l	er	igth of 50			FS	Hold, InputN	lute
			Knob1	r			Knob2			Knob3	
	Page01	Time	1–5000	♪		F.B	0–100		Mix	0-100	
	1 ageo1	Sets the de	,			, ·	feedback amoun	t.	that is mixed	amount of effect with the original	
	D02	HiDMP	0-10			P-P	MONO, P-P		Level	0–150	
	Page02	Adjusts the delay sound	treble attenuation	i of t	he	Sets delay pong.	output to mono	or ping-	Adjusts the	output level.	
083 TapeEcho			ates a tape ed n of the echoe		Ch	anging th	ie "Time" para	meter	FS	InputMute	
			Knob1				Knob2			Knob3	
TapeEcho		Time	1–2000	♪	Ρ	F.B	0–100		Mix	0–100	
	Page01	Sets the de	lay time.			Adjusts the	feedback amoun	t.		amount of effect with the original	
ooo Qiirig		HiDMP	0–10			Level	0–150				
	Page02	Adjusts the delay sound	treble attenuation	oft	he	Adjusts the	output level.				
084 ModDelay	This de	lay effect	t allows the u	se (	of	modulati	on.		FS	InputMute	
			Knob1				Knob2			Knob3	
		Time	1–2000	♪		F.B	0-100		Mix	0-100	
° IIIII ModDelas ° ∞ S A IIII III	Page01	Sets the de	lay time.			Adjusts the	feedback amoun	t.		amount of effect with the original	
	Page02	Rate	1-50		Ρ	Level	0–150		Depth	0–100	
	Fageuz	Sets the sp	eed of the modula	tion.		Adjusts the	output level.		Sets the de	pth of the modul	ation.
085 AnalogDly		alog dela of 5000 r	y simulation ł nS.	nas	a l	ong dela	y with a max	imum	FS	Hold, InputN	/lute
			Knob1				Knob2			Knob3	
		Time	1-5000	♪		F.B	0–100		Mix	0–100	
Analoo 🖁	Page01	Sets the de	lay time.			Adjusts the	feedback amoun	t.		amount of effect with the original	
• DLY 🖱		HiDMP	0–10			P-P	MONO, P-P		Level	0–150	
	Page02	Adjusts the delay sound	treble attenuation	of t	he	Sets delay pong.	output to mono	or ping-	Adjusts the	output level.	
086 ReverseDL	This rev	erse delay	is a long delay	with	۱a	maximum	length of 250	10 mS.	FS	Hold, InputN	/lute
			Knob1				Knob2			Knob3	
BevereeDelay		Time	10–2500	♪	_	F.B	0–100		Bal	0–100	
	Page01	Sets the de	lay time.			Adjusts the	feedback amoun	t.	Adjusts the and effect s	balance betwee ounds.	n origir
		HiDMP	0–10			Level	0–150				
	Page02	Adjusts the delay sound	treble attenuation	oft	he	Adjusts the	output level.				
087 MultiTapD	This effe	ect produc	es several dela	y sc	our	nds with di	ifferent delay	times.	FS	InputMute	
			Knob1				Knob2			Knob3	
Multi Tap Delay		Time	1–3000	⊅		PTTRN	1–8		Mix	0–100	
	Page01	Sets the de	,				pattern, which va o random patterns			amount of effect with the original	
「金智慧に図りる」	I –	Tone	0-10	ΙĪ		Level	0-150				
1. S.	Page02				_						

8 DynaDelay			elay adjusts input signal			f the effect s	ound	FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
THE SENSE MIX N		Time	1-2000	♪	Sense	-10-1, 1-10		Mix	0-100	
	Page01	Sets the de	lay time.		Adjusts the	effect sensitivity.			amount of effected d with the original so	
Dyna Delay		F.B	0-100		Level	0-150				
	Page02		feedback amount		Adjusts the	output level.				
9 FilterDly	This off		s a delayed s					FS	InputMute	_
				ounu	1	Knoh2		15	Knob3	
		T.	Knob1		F.B	THIODE		1.0	Knob3 0–100	_
	Page01	Time Sets the de	1-2000	♪		0–100 feedback amount.			amount of effected	
		Rate	1-50	P	· ·	0-100		that is mixed Reso	with the original so	ouno
Filter DIS	Page02	Sets the sp	eed of the modula	ation.	- ·	pth of the modula	tion.	Adjusts the resonance.	intensity of the mod	lula
		Level	0-150					resonance.		
	Page03		output level.			1			I I	_
0 PitchDlv	This off			o o d	alayod cou	ind		FS	InputMuto	
0 PitchDly	Ins en		es pitch shift t	.u a û	eidyeü SOL				InputMute	_
			Knob1			Knob2			Knob3	
* Pitch Delay *	Page01	Time Sets the de	1–2000			-12-12 e of pitch shift ap	P plied to		0-100 amount of effected	
					delayed sou	1			with the original so	un
	Page02	F.B	0-100		Tone	0-10		Level	0-150	
		,	feedback amount		Adjusts the			Adjusts the	output level.	
1 StereoDly	This ste set sep		ay allows the	e left	and right	delay times	to be	FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
		TimeL	1–2000	♪	TimeR	1-2000	♪	Mix	0-100	
Tool Took HIX	Page01	Adjusts de delay.	lay time of left of	channe	l Adjusts de delay.	lay time of right (	channel		amount of effected d with the original so	
	D 00	LchFB	0–100		RchFB	0-100		Level	0-150	
STEREO DELAV 💿	Page02	-	1							
	3002	Adjusts dela	y feedback of left o	hannel.	Adjusts dela	y feedback of right	channel.	Adjusts the	output level.	
		Adjusts dela LchLv	v feedback of left o 0–100	hannel.	Adjusts dela RchLv		channel.	Adjusts the	output level.	
	Page03	LchLv			RchLv	y feedback of right		Adjusts the	output level.	
2 PhaseDly	Page03	LchLv Adjusts dela	0-100	nannel.	RchLv Adjusts dela	0–100 ay output of right		Adjusts the	output level.	
2 PhaseDly	Page03	LchLv Adjusts dela	0–100 ay output of left ch	nannel.	RchLv Adjusts dela	0–100 ay output of right				_
2 PhaseDly	Page03	LchLv Adjusts dela	0–100 ay output of left ch es a phaser t	nannel.	RchLv Adjusts dela	y feedback of right 0–100 ay output of right o und.			InputMute	
	Page03	LchLv Adjusts dela	0-100 ay output of left ch es a phaser t Knob1 1-2000	nannel. o a de	RchLv Adjusts dela elayed sou	y feedback of right 0–100 ay output of right o und. Knob2	channel.	FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected	so
,	Page03 This eff Page01	LchLv Adjusts dela ect applia	0-100 ay output of left ch es a phaser t Knob1 1-2000	nannel. o a de	RchLv Adjusts dela elayed sou F.B Adjusts the	y feedback of right i 0–100 ay output of right o und. Knob2 0–100 feedback amount 4 STG, 8 STG,	channel.	FS Mix Adjusts the	InputMute Knob3 0-100	so
	Page03	LchLv Adjusts del ect appli Time Sets the de Rate	o-100 ay output of left ch es a phaser t Knob1 1-2000 lay time.	o a de	RchLv Adjusts dela elayed sou F.B Adjusts the Color	y feedback of right 0–100 ay output of right of und. Knob2 0–100 feedback amount	hannel.	FS Mix Adjusts the that is mixed Level	InputMute Knob3 0-100 amount of effected with the original so	so
Phase of MDIUL.	Page03 This eff Page01 Page02	LchLv Adjusts dela ect applie Time Sets the de Rate Sets the sp	0-100 ay output of left of es a phaser t Knob1 1-2000 lay time. 1-50	o a de	RchLv Adjusts dela elayed sou F.B Adjusts the Color Sets the to	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ	hannel.	FS Mix Adjusts the that is mixed Level	InputMute Knob3 0–100 amount of effected with the original so 0–150	so
Phase of MDIUL.	Page03 This eff Page01 Page02	LchLv Adjusts dela ect applie Time Sets the de Rate Sets the sp	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the module	o a de	RchLv Adjusts dela elayed sou F.B Adjusts the Color Sets the to	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ	hannel.	FS Mix Adjusts the that is mixed Level Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level.	so
Phase of WDISL. The State of WDISL. The State of WDISL. TrgHidDiy	Page03 This eff Page01 Page02	LchLv Adjusts dela ect applie Time Sets the de Rate Sets the sp	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds of	o a de	RchLv Adjusts dela elayed sou F.B Adjusts the Color Sets the to	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger.	hannel.	FS Mix Adjusts the that is mixed Level Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute	so
Phase of WDISL. The State of WDISL. The State of WDISL. TrgHidDiy	Page03 This eff Page01 Page02	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds to Knob1 10-1000	o a de	RchLv Adjusts del- Payed son F.B Adjusts the Color Sets the tor picking as Duty Sets the ti	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected	so
Phase of in Dist	Page03 This eff Page01 Page02 This del Page01	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay Sampl Time	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds to Knob1 10-1000	o a de	RchLv Adjusts del- Payed son F.B Adjusts the Color Sets the tor picking as Duty Sets the ti	y feedback of right 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 e of the effect tyr the trigger. Knob2 25-100	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original sc 0-150 output level. InputMute Knob3 0-100	so
Phase of WDISL. The State of WDISL. The State of WDISL. TrgHidDiy	Page03 This eff Page01 Page02 This del	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds t Knob1 10-1000 lay time.	o a de	RchLv Adjusts deli elayed soo F.B Adjusts the Color Sets the toi Duty Sets the tii hold sound Level	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced.	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected	so
Phase (a) bly (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	Page03 This eff Page01 Page02 This del Page01 Page01	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH Adjusts effe	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds to Knob1 10-1000 lay time. 0-30 eet threshold. finition rever	nannel.     o a de     p     read     p   P P Pation. using	RchLv Adjusts deli elayed soo F.B Adjusts the Color Sets the toi Duty Sets the tii hold sound Level	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount. 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected with the original so	so
Phase (0) JUJL TrigHidDiy TrigHidDiy	Page03 This eff Page01 Page02 This del Page01 Page01	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH Adjusts effe	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds to Knob1 10-1000 lay time. 0-30 ect threshold.	nannel.     o a de     p     read     p   P P Pation. using	RchLv Adjusts deli elayed soo F.B Adjusts the Color Sets the toi Duty Sets the tii hold sound Level	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount. 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150	bhannel.	FS Mix Adjusts the that is mixed Adjusts the FS Mix Adjusts the that is mixed	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected with the original so	so
Phase ( ) UIUL TrigHidDiy TrigHidDiy Thisser Hold Decky Thisser Hold Decky Thisser Hold Decky	Page03 This eff Page01 Page02 This del Page01 Page02 This is a	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH Adjusts effe	0-100 ay output of left ch es a phaser t Knob1 1-2000 lay time. 1-50 eed of the modula es and holds to Knob1 10-1000 lay time. 0-30 eet threshold. finition rever	nannel.     o a de     p     read     p   P P Pation. using	RchLv Adjusts deli elayed soo F.B Adjusts the Color Sets the toi Duty Sets the tii hold sound Level	y feedback of right - 0-100 ay output of right of und. Knob2 0-100 feedback amount 4 STG, 8 STG, inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level.	bhannel.	FS Mix Adjusts the that is mixed Adjusts the FS Mix Adjusts the that is mixed	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected with the original so	so
Phase (0) JUJL TrigHidDiy TrigHidDiy	Page03 This eff Page01 Page02 This del Page01 Page01	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH Adjusts effe a high-de	0-100           ay output of left ches           es a phaser t           Knob1           1-2000           lay time.           1-50           eed of the modula           es and holds is           Knob1           10-1000           lay time.           0-30           ext threshold.           finition rever           Knob1	Definition of a definition of	RchLv Adjusts deli elayed son F.B Adjusts the Color Sets the tor picking as Duty Sets the tit hold sound Level Adjusts the	y feedback of right i 0-100 ay output of right o und. Knob2 0-100 feedback amount 4 STG, 8 STG, 8 STG, 8 STG, inv 4, inv 8 ne of the effect tyg 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original so 0-150 output level. InputMute Knob3 0-100 amount of effected with the original so InputMute Knob3	sooun
Phase (ADIUL) TrigHidDly TrigHidDly TRIGGER ROLD DECK TRIGGER ROLD	Page03 This eff Page01 Page02 This del Page01 Page02 This is a	LchLv Adjusts del ect appli Time Sets the de Rate Sets the sp ay sampl Time Sets the de THRSH Adjusts effe a high-de	0-100           ay output of left ch           ess a phaser t           Knob1           1-2000           lay time.           1-50           eed of the modula           ess and holds in           Knob1           10-1000           lay time.           0-30           ect threshold.           finition rever           Knob1           0-100	Definition of a definition of	RchLv Adjusts deli elayed son F.B Adjusts the Color Sets the tor picking as Duty Sets the tit hold sound Level Adjusts the	y feedback of right i 0-100 ay output of right o und. Knob2 0-100 feedback amount 4 STG, 8 STG, 8 STG, 8 STG, inv 4, inv 8 ne of the effect tyg 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10	bhannel.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original sc 0-150 output level. InputMute Knob3 0-100 amount of effected d with the original sc InputMute Knob3 0-100 amount of effected 0-100 amount of effected 0-100 amount of effected	so

095 Hall	This re-	verb effe	ct simulates <sup>.</sup>	the ac	coustics o	of a concert h	all.	FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
		Decay	1–30		Tone	0-10		Mix	0–100	P
HALL	Page01	Sets the du	ation of the reverb	erations	. Adjusts the	tone.			amount of effect d with the original	
		PreD	1–100		Level	0–150				
	Page02	Adjusts the original sound	delay between inp and start of the reve	ut of the rb sound.	Adjusts the	output level.				
096 Room	This re	verb effe	ct simulates	the ac	coustics c	of a room.		FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
		Decay	1–30		Tone	0–10		Mix	0–100	P
	Page01		ation of the reverb	erations.	,				amount of effect d with the original	
	Daga 02	PreD	1–100		Level	0–150				
	Page02	Adjusts the original sound	delay between inp and start of the reve	ut of the rb sound.	Adjusts the	output level.				
097 TiledRoom	This re	verb effe		the ac	coustics c	of a tiled roon	n.	FS	InputMute	
			Knob1			Knob2			Knob3	
		Decay	1–30		Tone	0-10		Mix	0-100	P
Tiled Rm 24 1	Page01		ation of the reverb	erations					amount of effect d with the original	
	Page02	PreD	1–100		Level	0–150				
	Pageuz	Adjusts the original sound	delay between inp and start of the reve	ut of the rb sound.	Adjusts the	output level.				
098 Spring	This re	-	ct simulates					FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
		Decay	1–30		Tone	0-10		Mix	0-100	P
	Page01		ation of the reverb	erations.	. Adjusts the	tone.			amount of effect d with the original	
Sprin9		PreD	1–100		Level	0–150				
	Page02	Adjusts the original sound	delay between inp and start of the reve	ut of the rb sound.	Adjusts the	output level.				
099 Arena		verb effe s a sports		the ac	coustics c	f a large encl	osure	FS	InputMute	
	$\sim$	1	Knob1			Knob2			Knob3	
		Decay	1–30		Tone	0-10		Mix	0–100	P
	Page01							Adjusts the	amount of effect	
		Sets the du	ation of the reverb	erations.	. Adjusts the	tone.			d with the original	sound.
Jeeen!	-	Sets the du	ation of the reverb	erations.	. Adjusts the Level	0–150				i sound.
. vaa ii.	Page02	PreD Adjusts the	1-100 delay between inp	ut of the	Level	7				
	-	PreD Adjusts the original sound	1–100 delay between inp and start of the reve	ut of the rb sound.	Level Adjusts the	0–150 output level.				
	-	PreD Adjusts the original sound	1-100 delay between inp and start of the reve oduces only t	ut of the rb sound.	Level Adjusts the	0-150 output level.	b.		d with the original	
	-	PreD Adjusts the original sound fect repro	1-100 delay between inp and start of the reve oduces only t Knob1	ut of the rb sound.	Adjusts the	0-150 output level. ions of rever Knob2	b.	that is mixed	d with the original	
100 EarlyRef	-	PreD Adjusts the original sound fect repro	1-100 delay between inp and start of the reve oduces only t	ut of the rb sound.	Adjusts the	0-150 output level.	b.	Mix Adjusts the	Knob3 0-100 amount of effect	P red sound
100 EarlyRef	This eff	PreD Adjusts the original sound fect repro	1-100 delay between inp and start of the reve boduces only t Knob1 1-30	ut of the rb sound.	Adjusts the	0-150 output level. ions of rever Knob2 -10-10	b.	Mix Adjusts the	Knob3	P red sound
EarlyRef	This eff	PreD Adjusts the original sound fect repro	1-100 delay between inp and start of the reve polyces only t <u>Knob1</u> 1-30 duration of the re 0-10	ut of the rb sound.	Adjusts the rly reflect Shape Adjusts the Level	0-150 output level. ions of rever Knob2 -10-10 effect envelope.	b.	Mix Adjusts the	Knob3 0-100 amount of effect	P red sound
00 EarlyRef	This eff Page01 Page02	PreD Adjusts the original sound fect repro Decay Adjusts the Tone Adjusts the	1-100       delay between inp       and start of the reve       duces only t       Knob1       1-30       duration of the re       0-10       tone.	ut of the rb sound.	Adjusts the Adjusts the Shape Adjusts the Level Adjusts the	0–150 output level. ions of rever Knob2 -10–10 effect envelope. 0–150		Mix Adjusts the that is mixed	Knob3 0-100 amount of effect	P red sound
00 EarlyRef	This eff Page01 Page02	PreD Adjusts the original sound fect repro Decay Adjusts the Tone Adjusts the	1-100       delay between inp       and start of the reve       duces only t       Knob1       1-30       duration of the re       0-10       tone.	ut of the rb sound.	Adjusts the Adjusts the Shape Adjusts the Level Adjusts the	0-150 output level. ions of rever Knob2 -10-10 effect envelope. 0-150 output level.		Mix Adjusts the that is mixed	Knob3 0-100 amount of effect	P red sound
00 EarlyRef	This eff Page01 Page02	PreD Adjusts the original sound fect repro Decay Adjusts the Tone Adjusts the	1-100 delay between inp and start of the reve vduces only t Knob1 1-30 duration of the re 0-10 tone. vduces the an	ut of the rb sound.	Adjusts the Adjusts the Shape Adjusts the Level Adjusts the	0-150 output level. ions of rever Knob2 -10-10 effect envelope. 0-150 output level. pom to create		Mix Adjusts the that is mixed	Knob3 0-100 amount of effect d with the original	P red sound
100 EarlyRef	This eff Page01 Page02	PreD Adjusts the original sound fect repro Decay Adjusts the fect repro Size	1-100 delay between inp and start of the reve bduces only t Knob1 1-30 duration of the re 0-10 tone. bduces the an Knob1	ut of the rb sound.	Level Adjusts the rly reflect Shape Adjusts the Level Adjusts the ce of a ro	0-150 ions of rever Knob2 -10-10 effect envelope. 0-150 output level. Dom to create Knob2 0-10		that is mixed Mix Adjusts the that is mixed al depth. Mix Adjusts the	Knob3 0-100 amount of effect d with the original Knob3	Pred sound.
00 EarlyRef	This eff Page01 Page02 This eff	PreD Adjusts the original sound fect repro Decay Adjusts the fect repro Size	1-100       delay between inpland start of the reveloces only to the reveloces only to the reveloces only to the reveloces on the reveloc	ut of the rb sound.	Level Adjusts the rly reflect Shape Adjusts the Level Adjusts the CCC of a ro	0-150 ions of rever Knob2 -10-10 effect envelope. 0-150 output level. Dom to create Knob2 0-10		that is mixed Mix Adjusts the that is mixed al depth. Mix Adjusts the	Knob3 0-100 amount of effect d with the original Knob3 0-100 amount of effect d with the original 0-100 amount of effect	Pred sound.

102 Comp+Dist	This of	loct combines a	compross	ar and dis	tortion				
102 Comp+Dist		ect combines a							
		Knob	1		Knob2	1 1-		Knob3	- T - T
THREE TREES	Page01	THRSH 0-50		Gain	0–100	P	Level	0–150	
6 90		Sets the level that activat	es the compressor	- '	-		Adjusts the	output level.	
st (@)	Page02	Dry 0–100 Adjusts level of origir		Tone Adjusts the	0-100		Ratio	compression rati	
Comp Dist		Adjusts level of origin ATTCK 1–10	nai sound.	Adjusts the	e tone.		Adjusts the	compression rati	0.
	Page03								
		Adjusts the compres							
103 Oct+Dist	This eff	ect combines a	n octaver a	nd distort	ion.				
		Knob	1		Knob2			Knob3	
		Oct 0-100	F		0-100		Level	0–150	
臺	Page01	Adjusts the volume of one octave down.	the effect soun	d Adjusts the	gain.		Adjusts the	output level.	
Oct  Dist		Dry 0–100		Tone	0-100		Chain	Befr/Aftr	
	Page02	Adjusts level of origin	bal source	Adjusts the				tortion insertion	noint
	<b>T</b> I : 0						Sets the dis	tortion insertion	Joint.
104 Awah+Dist	This eff	ect combines a		th distort	ion.				
	$\square$	Knob			Knob2			Knob3	
SENS EATN LEHEL	Page01	Sense -10-1, 1		Gain	0–100	P	Level	0–150	
<u> </u>	- ugoo:	Adjusts the sensitivit	y of the effect.	Adjusts the			Adjusts the		
ଡ଼୲ଢ଼ୢୢୗୣୖୖ୶ଡ଼ୖ୲	Page02	Dry 0–100		Tone	0-100		Reso	0-10	
AWah 🔍 Dist		Adjusts level of origin		Adjusts the	tone.		Adjusts the int	ensity of the resonar	nce sound
	Page03	Chain Befr/Aft							
		Sets the distortion in	sertion point.						
105 Comp+AWah	This eff	ect combines c	· · · · · · · · · · · · · · · · · · ·	and auto					
		Knob	1		Knob2			Knob3	
	Page01	THRSH 0-50		Sense	-101, 1-10	P	Level	0–150	
	. ugooi	Sets the level that activat	es the compresso	r. Adjusts the	sensitivity of the	effect.	Adjusts the	output level.	
A 1900	Page02	Dry 0–100		Reso	0-10		Ratio	1-10	
Comp@AWah		Adjusts level of origin	nal sound.	Adjusts the ir	tensity of the resonan	ce sound.	Adjusts the	compression rati	0.
	Page03	ATTCK 1-10							
		Adjusts the compres	sor attack rate.						
106 PH+Dist	This eff	ect combines a	phaser and	d distortio	n in the style	of the	Roland	JET PHASEF	₹.
		Knob	1		Knob2			Knob3	
	Page01	Gain 0–100		Mode	1-4		Reso	0-10	
	Fageor	Adjusts the gain.		Selects the	e jet sound mode.		Adjusts the int	ensity of the effect	character
	Page02	Rate 0–50	F	Tone	0–10		Level	0–150	
	1 age 02	Adjusts the modulati	on rate.	Adjusts the	tone.		Adjusts the	output level.	
107 PedalVox	This sir	nulates a vintag	je Vox wah	pedal.					
		Knob	1		Knob2			Knob3	
		Freq 1–50	F	<b>D</b> ryMX	0–100		Level	0–150	
Pedal Vox	Page01	Adjusts the emphasi	zed frequency.	Adjusts the r	nix with the unaffecte	ed sound.	Adjusts the	output level.	
108 PedalWah	This is	a pedal wah effe	ect for base	guitar.					
<b></b>		Knob	1		Knob2			Knob3	
		Freq 1-50	F	P DryMX	0-100		Level	0-150	
PedalWah	Page01	Adjusts the frequency t	hat is emphasized	d. Adjusts the sound.	e mix with the un	affected	Adjusts the	output level.	
109 PDL Reso	Pedal v	vah with a stron	g character	:					
		Knob			Knob2			Knob3	
_		Freq 1-50	F	P Reso	0-10		Level	0-150	
	Page01	Adjusts the emphasi	11.		e intensity of the	e effect		output level.	
	1	1		Una dutel.					
PDL Reso		DrvMX 0-100							
PDL Reso	Page02	DryMX 0–100 Adjusts the amount	of original sound	d					

110 PDL Pitch	Use an	expressio	on pedal to ch	an	ge	the pitch	in real time	with	tł	nis effect.			
	/		Knob1				Knob2				Knob3		
	Page01	Color	1–9 (See Table 3)			Tone	0–10			Bend	0–100		Ρ
PDL Pitch	Fageor		e of pitch change pression pedal.	con	trol	Adjusts the	tone.			Sets the am	nount of pitch shift		
		Mode	Up, Down			Level	0–150						
	Page02	Sets the dire to Up or Do	ection of the pitch wn.	char	nge	Adjusts the	output level.						
111 PDL MnPit			nifter speciall hifted in real							note play	ing), which a	llov	NS
	/		Knob1				Knob2				Knob3		
	Page01	Color	1–9 (See Table 3)		Ρ	Tone	0–10			Bend	0–100		Р
	Fageor		e of pitch change pression pedal.	con	trol	Adjusts the	tone.			Sets the am	nount of pitch shift		
		Mode	Up, Down			Level	0-150						
	Page02	Sets the dire to Up or Do	ection of the pitch wn.	char	nge	Adjusts the	output level.						

# ■Table 1

Туре	Modeled cabinet and speakers	
ORGN	The recommended cabinet will be selected.	
8x10 AG	AMPEG 810E simulation	
4x12 SB	MARSHALL 1935A simulation	
4x12 BM	FENDER BASSMAN simulation	
4x10 HA	HARTKE 4.5XL simulation	
4x10 SWR	SWR GOLIATH simulation	
4X10 AL	AGUILAR GS410 simulation	
4x10 GK	GALLIEN KRUEGER 410RBH simulation	
4x10 E	EDEN D410XLT simulation	
1x18 AC	ACOUSTIC 301 simulation	
1x15 PT	POLYTONE MINI BRUTE III combo amp cabinet simulation	
1x15 AG	AMPEG B-15 combo amp cabinet simulation	
1x12 MB	Markbass 12-inch combo amp cabinet simulation	

# Table 2

Setting	Scale used	Interval
-6		6th down
-5	Major	5th down
-4	IVIAJOI	4th down
-3		3rd down
-m	Minor	3rd down
m	IVIIIIOI	3rd up
3		3rd up
4	Major	4th up
5	Major	5th up
6		6th up

# Table 3

Color	Pedal min	Pedal max 🚈	
1	0 cents	+1 octave	
2	0 cents	+2 octaves	
3	0 cents	-100 cents	
4	0 cents	-2 octaves	
5	0 cents	-00	
6	-1 octave + original	+1 octave + original	
7	-700 cents + original	+500 cents + original	
8	Doubling	Detuned + original	
9	-∞ (0 Hz) + original	+1 octave + original	

# Table 4



#### The unit will not turn ON

- Confirm that the POWER switch is set to "ON". When using bus power, confirm that the switch is "OFF" before connecting the USB cable.
- When using batteries, confirm that they are still charged.

#### No sound or very low volume

- Check the connections ( $\rightarrow$ P4–6).
- Adjust the patch level ( $\rightarrow$ P14).
- Adjust the master level ( $\rightarrow$ P18).
- When adjusting the volume with an expression pedal, make sure that a suitable volume setting has been set with the pedal.
- Confirm that unit is not in mute mode ( $\rightarrow$ P22).
- The unit might have switched to standby to save power (→P6). In standby, audio input and output are disabled.

#### There is a lot of noise

- Check the shielded cables that you are using for defects.
- Use only a genuine ZOOM AC adapter.

# **Rhythm List**

#	Pattern Name	Tim Sig.
1	GUIDE	4/4
2	8Beat1	4/4
3	8Beat2	4/4
4	8Beat3	4/4
5	8SHFFL	4/4
6	16Beat1	4/4
7	16Beat2	4/4
8	16SHFFL	4/4
9	Rock	4/4
10	Hard	4/4
11	Metal1	4/4
12	Metal2	4/4
13	Thrash	4/4
14	Punk	4/4

#	Pattern Name	Tim Sig.
15	DnB	4/4
16	Funk1	4/4
17	Funk2	4/4
18	Hiphop	4/4
19	R'nR	4/4
20	Pop1	4/4
21	Pop2	4/4
22	Pop3	4/4
23	Dance1	4/4
24	Dance2	4/4
25	Dance3	4/4
26	Dance4	4/4
27	3Per4	3/4
28	6Per8	3/4

#### # Pattern Name Tim Sig. 29 5Per4 1 5/45Per4 2 30 5/4 31 Latin 4/4 32 Ballad1 4/4 33 Ballad2 3/4 34 Blues1 4/4 35 Blues2 3/4 36 Jazz1 4/4 37 Jazz2 3/4 38 Metro3 3/4 39 Metro4 4/4 Metro5 5/4 40 41 Metro

#### The sound distorts strangely/has an odd timbre

• Set the Active/Passive switch according to the type of bass guitar pickups or the device connected directly to the **PB**.

#### An effect is not working

If the effect processing capacity is exceeded, "THRU" appears on the effect graphic. In this case, the effect is bypassed.

#### The expression pedal is not working well

Check the expression pedal settings ( $\rightarrow$ P16).

#### The recorded level in a DAW is low

Check the recording level setting ( $\rightarrow$ P20).

#### Batteries lose their charge quickly

- Are you using manganese batteries? Alkaline batteries should provide 6 hours of operation.
- Check the battery setting (→P20). Set the type of battery being used for a more accurate display of the remaining charge.

# **Specifications**

Effect t	ypes	111 types					
Number o	of simultaneous effects	3					
Number	of user banks/patches	10 patches x 10	banks				
Sampli	ng frequency	44.1kHz					
A/D coi	nversion	24-bit with 128	k oversampling				
D/A co	nversion	24-bit with 128	« oversampling				
Signal	processing	32-bit floating point & 32-bit fixed point					
Freque	ncy characteristics	; 20-20 kHz +1 d	20-20 kHz +1 dB, -3 dB (10 kΩ load)				
Display	,	LCD x 3					
Input		Standard mono Rated input le Input impeda ACTIVE/PASS	vel -20dBm				
Output	R	Standard mono Maximum ou Line: +5 dBm					
	L/Mono/Phone	Maximum ou Line: +5 dBm	p phone jack (line/headphones) tput level: (with output load impedance of 10 kΩ or more) 20 mW + 20 mW (into 32 Ω load)				
-	Balanced output	Output imped 100 Ω (HOT PRE/POST (st	lance GND, COLD-GND), 200 Ω (HOT-COLD) witch selectable) vitch selectable)				
Contro	input	For FP01/FP02/	FS01				
Noise fl	oor (residual noise)	-100dBm					
Power		AC adapter Batteries USB	DC9V (center minus plug), 500 mA (ZOOM AD-16) 6 hours of continuous operation using 4 AA alkaline batteries				
Dimens	ione	170 (D) x 234 (\	Bus power				
		USB Audio	V/ X 34 (F)/ FIII				
USB							
Weight		1.2kg					
Option	5	FP01/FP02 exp	ression pedal and FS01 foot switch				

• 0dBm = 0.775Vrms

# FCC regulation warning (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## For EU Countries

Declaration of Conformity: This product complies with the requirements of EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC and ErP Directive 2009/125/EC



### **Disposal of Old Electrical & Electronic Equipment**

(Applicable in European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



#### **ZOOM CORPORATION**

4-4-3 Surugadai, Kanda, Chiyoda-ku, Tokyo 101-0062 Japan http://www.zoom.co.jp

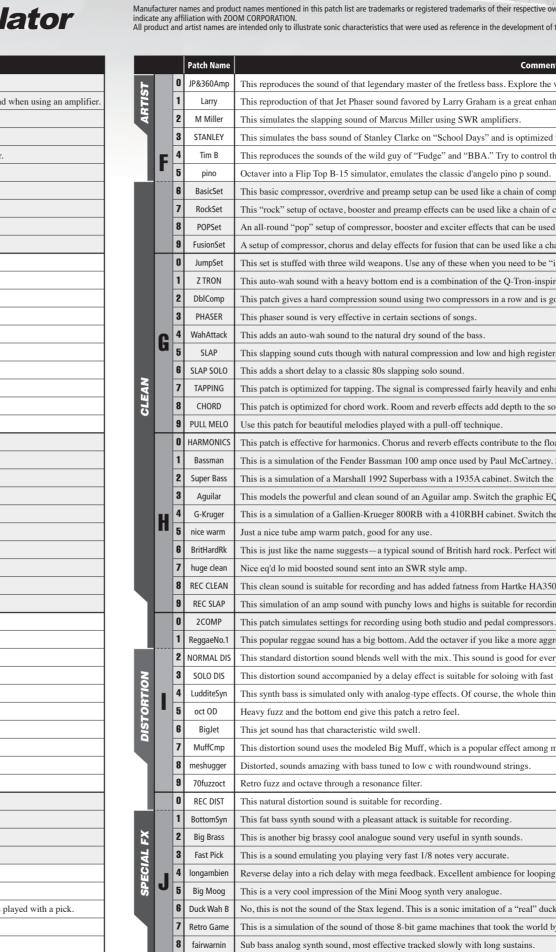


9

Percy J

A set of the favorite effects used by the legendary fretless player of Brand X.





9

DistSeq

This spacey sound combines Dist1, Seq Filter and Stereo Delay effects.

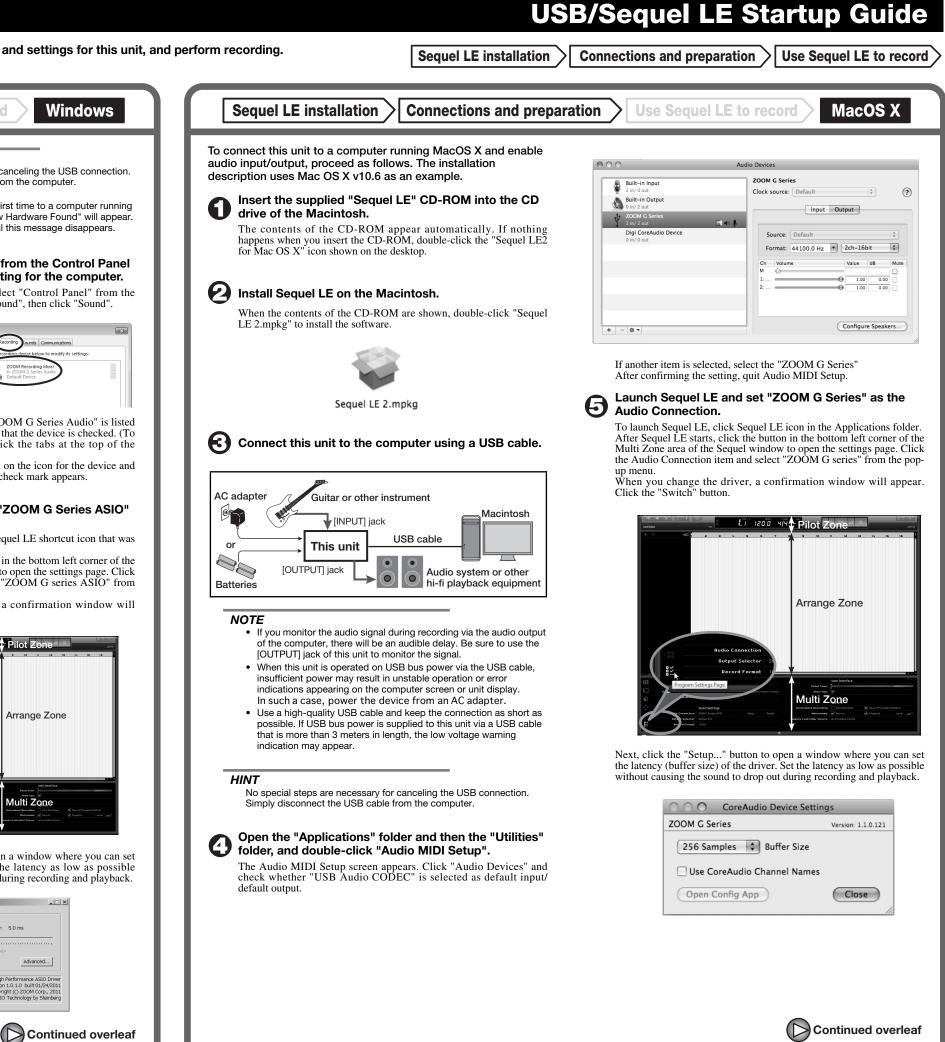
			Patch Name	Comment
		0	MarkBoost	This uses modeling of the all-around Markbass sound. Switch the graphic EQ on for a tighter low end when using an amplifier.
		1	Polytone	This has the characteristic mid range of the Polytone MINI-BRUTE, which is popular among jazz players. Switch the EQ on for a tighter low end when using an amplifi
0		2	SLAP WAH	This patch with additional auto-wah is useful for slapping solos.
DEMO		3	bass tank	Less overdriven style into an SVT style amp modeler.
9	Λ	4	Hartke	A Hartke HA3500 is combined with a 4.5XL cabinet with aluminum cone drivers. Switch the EQ on for tighter low end when using an amplifier.
	A	5	SansCmp	A basic combination of SansAmp and Punch Factory, which are two favorite effects among bass players. Add EQ to your taste.
		6	Jaco Jazz	Jaco Jazz Ah yes the famous Jaco and his sound this sound emulates a fretless bass very well.
		7	SVT	The all-tube Ampeg SVT is combined with an 810E cabinet. Switch the EQ on for a tighter low end when using an amplifier.
		8	tl octave	My basic beefed up octave sound, big lows and fat sine wave.
		9	RecU5	The AVALON U5 model contributes to this clear and crispy bass sound.
		0	W10 Big D	Very powerful Octave and Distortion sound.
en		1	W10 Thumb1	Moog filter sound for thumb play style.
/ictor Wooten		2	W10 Thumb2	Q-Tron filter sound for thumb play style.
ž		3	W10 StepUp	Long time delay sound with Hall reverb.
cto		4	W10 Up Top	Pitch shifter with delay for bass guitar solo.
Vĩ	D	5	W10 Bottom	Nice bottom sound with booster and Bottom B.
		6	W10LesFret	Fretless sound with Hall reverb.
		7	W10 DreamX	Dreamy sound using Reverse Delay.
_		8	W10 DreamY	Dreamy sound using Pitch Delay.
_		9	W10 BowTie	Slow attack sound with Hall reverb.
		0	HintoCliff	This patch is a tribute dedicated to my friend Cliff Burton. I think of him when I hear it.
		1	GalePlus	This patch is a kind of straight-ahead vibe plus a little more "stuff " I added to it
ello		2	Smoothfun	This patch says to me that this bass sound is so smooth, I should have some fun with it.
A A		3	WahTalkin	With this patch, I have this picture in my head of having a conversation with a wah pedal.
Frank Bello	le	4	Horrorfuzz	This patch is my horror movie bass sound. To me it sounds like it's from a horror movie soundtrack.
	լե	5	Tremozep	When I'm playing with this patch, it sounds like it has a Led Zeppelin vibe to it. Tremolo all the way!
		6	FollowMe	When I hear this patch, it makes me feel like there is a sound following me every note I play.
		7	LeStandard	With this patch, I just wanted to have a cool, straight ahead bass sound to jam to.
		8	Believe it	This patch has a journey-bass sound vibe to it. Big Chorus going on.
		9	Cureme	I think-This patch has a Cure-ish (the band) vibe to it. Fun with the Flanger!
		0	Crunch Fuz	FuzzSmile gives hard edge fuzz.
5		1	Amused	Synth & OptComp creates a modern alt metal talk box type sound.
efs		2	UR No Good	Derived from Van Halen II "You're No Good" bass intro. Classic Phaser and Compression. Great bass intro patch.
David Ellef		3	Wid Sprd	D.I Plus with the Vibe gives useful effect for blues or rock songs.
avid	In	4	Nat Bg Wah	A natural bass wah created with Bottom B, Pedal Wah and Early Reflection.
Ä	שן	5	Big Room	Oct Stomp, Reverb and Flip Top create an ambient hall setting with a lower octave added.
		6	Space Driv	Exciter, Phaser, Fuzz. Good for solo bass and oddity pieces.
		7	Bass Synth	Mono Synth creates outstanding effect for solos and special effects.
		8	Lo Down	Octave creates lower octave while Random Filter adds mystic.
		9	Spc Fusion	Vibrato with 4 Voice Synth provides fusion jazz voicing.
ish		0	cto Stomp	A combination of Bottom B and Flip Top rounded out through the 160 COMP delivers a FAT SOLID SOUND.
Vimb		1	Pump House	SVT Amp with a twist of Mono Pitch and 160 Comp creates controllable Sub Low with the expression pedal. PUMP IT!
Doug Wimbish		2	Propeller	A Bass Drive merged with Trigger Hold then the 160 Comp evens it out. Expression Pedal makes it pulse.
Ğ		3	Swirl	With the Vibrato, Arena Reverb and Exciter, you create a Whirling Leslie Vibe.
	E	4	Jaco Solo	Jaco Solo is a very dreamy sound thick with a nice reverb can be used for solo's or a main sound.
F	F	5	Earth W&F	This is a cool synth patch emulating the famous tune "Let's Groove Tonight" by Earth Wind & Fire.
ARTIST		6	Anthony J	This patch simulates Anthony Jackson's trademark sound with a flanger. The swelling effect of the flanger fits nicely with tight rhythmic figures played with a pick.
A		7	Fat&Bright	Use this patch for a fat and bright slapping sound. Remember that funky guy who performed with Miles and the Stones?
		8	Slplss Tny	This simulates the sound of that impressive intro played by that skinhead guy with a "disciplined" British prog group. Try slapping with this.
1		0	<u> </u>	

	<b>3</b>
ir respective owners and do not	
evelopment of this product.	
Comment	
Explore the world of "Word of Mouth" with chorus and distortion!	
a great enhancement to wild bass solos!	
ers.	
is optimized for chord stroking and slapping.	
to control the depth of distortion with your picking touch.	
no p sound.	
hain of compact effect pedals.	
e a chain of compact pedals.	
t can be used like a chain of compact effect pedals.	
sed like a chain of compact effect pedals.	
need to be "in-your-face"!	
Q-Tron-inspired Z Tron effect and a preamp.	
row and is good for cool slapping solos.	
high registers enhanced by an exciter.	
vily and enhanced with EQ for a broader sound.	
epth to the sound.	
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ute to the floating sound.	
McCartney. Switch the graphic EQ on for tighter low end when using an amplifier.	
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he graphic EQ on for tighter low end when using an amplifier.	
et. Switch the graphic EQ on for tighter low end when using an amplifier.	
c. Perfect with a pick.	
artke HA3500 modeling.	
e for recording slapped basses.	
compressors.	
a more aggressive sound.	
good for everything but ballads!	
ing with fast passages.	
he whole thing is still digitally simulated!	
fect among many bass players. Switch on the exciter for a more contoured sound.	
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e for looping.	
a "real" duck!	
x the world by storm in the 80s.	
ustains.	
B3-PatchList-E-1	
DorawiLiSt-E-1	

# USB/Sequel LE Startup Guide

**Connections and preparation** 

This USB/Sequel LE Startup Guide explains how to install Sequel LE on a computer, make connections and settings for this unit, and perform recording.



To connect this unit to a computer running Windows 7 (or Windows Vista, XP) and to enable audio input/output, proceed as follows. The installation description uses Windows 7 as an example.

Sequel LE installation

#### Download the latest ASIO driver from the web site of ZOOM Corporation (http://www.zoom.co.jp) and install the driver.

The ASIO driver software is required to enable use of Sequel LE for audio input and output with a computer. Refer to the read me file included in the download package for instructions on how to install the driver correctly.

#### NOTE

If the system software is an older version, the product may not be recognized properly by the computer. It is therefore recommended to always keep the system software updated to the latest version. The system software can be downloaded from our web site.

#### Insert the supplied "Sequel LE" CD-ROM into the CD drive of the computer, and perform the installation steps.

Insert the CD-ROM. When the contents of the CD-ROM are shown, double-click "Sequel LE2 for Windows" and then select "Setup.exe". When the language selection screen appears, choose the language to

After making the selection, follow the instructions on the screen.

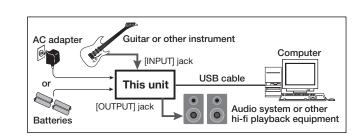


### HINT

If nothing happens when you insert the CD-ROM, open the Start menu and select "Computer" ("My Computer" in Windows XP). Then double-click the "Sequel LE 2 for windows" CD-ROM icon to display the contents of the CD-ROM, and double-click the executable file "Setup" ("Setup.exe").

## NOTE

During the installation of Sequel LE, a screen asking about installation of activation (software license authentication) management software appears. Install this software, because it is required for registering Sequel LE.



**Connect this unit to the computer using a USB cable.** 

#### NOTE

- If you monitor the audio signal during recording via the audio output of the computer, there will be an audible delay. Be sure to use the [OUTPUT] jack of this unit to monitor the signal.
- · When this unit is operated on USB bus power via the USB cable, insufficient power may result in unstable operation or error indications appearing on the computer screen or unit display In such a case, power the device from an AC adapter.
- Use a high-guality USB cable and keep the connection as short as possible. If USB bus power is supplied to this unit via a USB cable that is more than 3 meters in length, the low voltage warning indication may appear.

HINT

**Use Sequel LE to record** 

- No special steps are necessary for canceling the USB connection. Simply disconnect the USB cable from the computer.
- When you connect this unit for the first time to a computer running Windows 7, a message saying "New Hardware Found" will appear. Before proceeding, wait a while until this message disappears.

#### Bring up the "Sound" window from the Control Panel and make the input device setting for the computer.

To bring up the "Sound" window, select "Control Panel" from the Start menu and click "Hardware and Sound", then click "Sound"



In the "Sound" window, verify that "ZOOM G Series Audio" is listed under the Play and Record devices and that the device is checked. (To switch between Play and Record, click the tabs at the top of the window.)

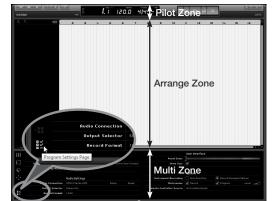
If the device is not checked, right-click on the icon for the device and click "Set as Default Device" so that a check mark appears.

#### Launch Sequel LE and select "ZOOM G Series ASIO" as the ASIO driver.

To start Sequel LE, double-click the Sequel LE shortcut icon that was created on the desktop.

After Sequel LE starts, click the button in the bottom left corner of the Multi Zone area of the Sequel window to open the settings page. Click the Audio Connection item and select "ZOOM G series ASIO" from the pop-up menu.

When you change the ASIO driver, a confirmation window will appear. Click the "Switch" button



Next, click the "Setup..." button to open a window where you can set the latency of the ASIO driver. Set the latency as low as possible without causing the sound to drop out during recording and playback.



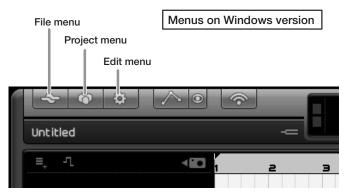
OOO CoreAudio Device Settir	igs
ZOOM G Series	Version: 1.1.0.121
256 Samples 🗘 Buffer Size	
Use CoreAudio Channel Names	
Open Config App	Close

Sequel LE installation > Connections and preparation > Use Sequel LE to record >

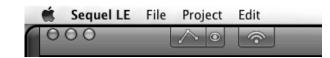
uel LE to record > Windows MacOS X

# Select "New Project" from the "Project" menu.

This will close the currently open project and create a new empty project file. If the currently open file has been changed, a message appears asking if you want to save it or not.



In the Mac OS X version, the "File", "Project" and "Edit" menus appear at the upper left corner of the screen.

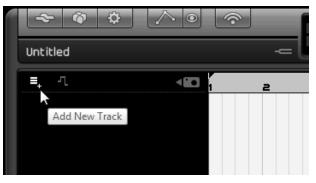


#### NOTE

After installing Sequel LE, the first time you launch it, a demo project is automatically opened. Even after creating a new project, you can open this demo project again any time by using "Open Project..." from the "Project" menu.

# Add an audio track.

1. Click the "Add New Track" button at the top of the track list.



- 2. Click the "Audio" button at the top of the dialog shown.
- 3. Select "empty" at the top of the Name list and click the "OK" button to add an audio track to the project.

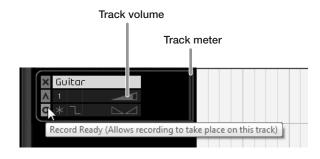
Text Filter	🕨 Audio 📮 Instrument 🚄
Category	▲ Name
Accordion	n 📼 empty 📐
3 Bass	🔳 70`s Funky Phaser
1 Brass	🔳 Bass - Bright Bass
	🔳 Bass - Easy Bass
1 Drum&Perc	🔳 Bass - Synth Phaser
Ethnic	🗉 Bizarreflanger
6 Guitar/Plucked	🗉 Bluesman
2 Keyboard	🔳 Brass – Funky Brass Section

4. Double-click the track name if you want to edit it. Input "Guitar" here for this example.

# Set the recording level.

Use the track "Volume" slider to adjust the input volume of the track so that distortion does not occur during recording.

Turn the "Record Ready" button on for the added track so that you can hear the sound of the instrument input on that track. The level meter to the right of the track setting area moves in response to the input.

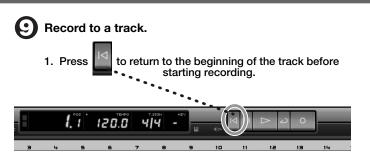


#### HINT

In order to record with better sound quality, adjust the volume so that it is as loud as possible without the signal distorting.

NOTE

- While a track is record ready, the signal input to this audio interface is output directly and the same signal is also output after it passes through the computer once, resulting in a flanger-like sound. To avoid this, set the USB level of the interface all the way to DAW.
- The meter above shows the signal level after processing with Sequel LE. For this reason, after playing the guitar or other instrument, a slight delay might occur before the level meter moves.



 At the right side of the Pilot Zone are several buttons used for recording, playback and other controls. Among these, the second one from the right is the "Cycle" button. Confirm that this button is OFF (same color as other buttons).



3. Click the "Record" button to start recording. Recording will start after a two-bar pre-count



4. After you are done performing, press the space key on the computer keyboard to stop recording.

# Check the recording.

### Start playback

You can start playback in Sequel using one of the following methods.

- Click the "Play" button.
- Press the space key on the computer keyboard. The space key can be used alternately to start and stop playback.
- Press the "Enter" key on the computer keyboard (numerical keypad).
- Double-click the bottom half of the ruler at the top of the Arrange Zone.

#### Stop playback

You can stop playback using one of the following methods.

- Click the "Play" button during playback.
- Press the space key on the computer keyboard.
- Press the "0" key on the computer keyboard (numerical keypad).

### For optimum enjoyment

While using Sequel LE, other applications may slow down drastically or a message such as "Cannot synchronize with USB audio interface" may appear. If this happens frequently, consider taking the following steps to optimize the operation conditions for Sequel LE.

- (1) Shut down other applications besides Sequel LE. In particular, check for resident software and other utilities
- (2) Reduce plug-ins (effects, instruments) used by Sequel LE. When there is a high number of plug-ins, the computer's processing power may not be able to keep up. Reducing the number of tracks for simultaneous playback can also be helpful.
- (3) Power the unit from an AC adapter. When a device designed to use USB power is powered via the USB port, the current supply may sometimes fluctuate, leading to problems. See if using an AC adapter improves operation.

If applications still run very slowly or the computer itself does not function properly, disconnect this unit from the computer and shut down Sequel LE. Then reconnect the USB cable and start Sequel LE again.