## **Guitar Effects & Amp Simulator**



## **OPERATION MANUAL**

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

Please read this manual carefully to learn about all the functions of the **GB** 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.

**Caution** Something that could cause injury or damage to the equipment.

#### Other symbols



Required (mandatory) actions

Prohibited actions

## 🗥 Warning

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

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

Do not use 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.

### \land 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 **GB** 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 **GB** and the other device farther apart. With any type of electronic device that uses digital control, including the **GB**, 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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# 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**

Using our new ZFX-IV DSP, we have faithfully recreated the distortion rich with harmonics and the compression characteristic of tube amps.

The precisely-crafted modeled sounds are extremely responsive to picking dynamics and guitar volume control.

## Combine diverse effects as you like

With over 100 types of effects that you can freely combine, the **GB** is a multi-effects unit that will let your imagination run wild.

## 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 **GB** 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 GB has 10 banks labeled A–J.







### 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 GB effects. Set it to "PRE" (not pushed in) to output the signal before the GB 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.

## 5

# Turn the power on and play

## To turn the power on

Lower the amplifier's volume all the way.



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 GB is not used for about 25 minutes, it will be set to standby. The GB will not be set to standby as long as there is a signal input from a guitar. OFF: When set to "OFF", the GB 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 GB 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 GB. If the processing required for the effect exceeds the capacity of the GB, "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.

### HINT

• Amp models and the HD Reverb effect 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 **GB** automatically saves settings when parameters are adjusted.





# **Setting specific patch parameters**





- The following characters and symbols can be used.
  - ! # \$ % & ' () +, -. ; = @ [] ^ \_ ` { } ~A-Z, a-z, 0-9, (space)

NEXT >>>





TOTAL

Press

# **Changing Various Settings**





NEXT >>



## GLOBAL



# Using the Tuner



Disalau	Meaning	String number/Note name										
Display	ivieaning	7	6	5	4	3	2	1				
GUITAR	Standard tuning for guitars, including 7-string guitars	В	E	Α	D	G	В	E				
OPEN A	In open A tuning, the open strings make an A chord	-	E	Α	E	А	C#	E				
OPEN D	In open D tuning, the open strings make a D chord	-	D	Α	D	F#	A	D				
OPEN E	In open E tuning, the open strings make an E chord	-	E	В	E	G#	В	E				
OPEN G	In open G tuning, the open strings make a G chord	-	D	G	D	G	В	D				
DADGAD	This alternate tuning is often used for tapping, etc.	-	D	А	D	G	A	D				



# Tune the guitar

5

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

## ■ CHROMATIC TUNER

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

## OTHERTUNERS

The number of the nearest string and the pitch accuracy are shown.



# **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 Update application:

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



Updating the firmware

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

### Intel Mac

OSX 10.5.8/10.6.5 or later Intel<sup>®</sup> CoreDuo 1.83GHz or faster RAM 1GB 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 GB and the computer. (See page 20.)
- You can adjust the recording level. (See page 21.)
- When its POWER switch is set to OFF, the GB can be connected to a computer by USB and powered by its USB bus.

### NOTE

To monitor the signal of your connected 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 GB will be mixed, causing the output signal to sound like a flanger effect is being used.

# **Effect Types and Parameters**



## Effect Types and Parameters

001 Comp	This compressor in the style of the MXR Dyna Comp.													
		Knob1					Knob2			Knob3				
SENSE TIME LEVEL	Page01	Sense	0–10		Ρ	Tone	0–10			Level	0–150			
COMP		Adjusts the compressor sensitivity.				Adjusts the tone.				Adjusts the output level.				
(Lumr)		ATTCK	Slow, Fast											
	Page02	Sets comp Fast or Slow	ressor attack sp v.	eed	to									
002 RackComp	This compressor allows more detailed adjustment than C													
	$\sim$		Knob1				Knob2				Knob3			
		THRSH	0–50		Ρ	Ratio	1–10			Level	0–150		$\square$	
	Page01	Sets the le compressor	evel that activat	esi	the	Adjusts the	compression ratio			Adjusts the	output level.			
	D02	ATTCK	1–10									1		
	Page02	Adjusts the	compressor attack	rat	e.									
003 M Comp	This co	mpresso	r provides a n	nor	e r	natural so	und.							
	/		Knob1				Knob2				Knob3			
1000 8100 1001	Page01	THRSH	0–50		Ρ	Ratio	1–10			Level	0–150			
M Conp		Sets the le compressor	evel that activat	the	Adjusts the compression ratio.				Adjusts the output level.					
	Page02	ATTCK	1–10											
	1 ugooz	Adjusts the	compressor attack	rat	e.									
004 SlowATTCK	This eff	ect slows	s the attack o	fe	acł	n note, re	sulting in a vi	olir	n-li	ke perfor	mance.			
	/		Knob1				Knob2	Knob3						
		Time	1–50		Ρ	Curve	0–10			Level	0–150			
SIOU ATTCK	Page01	Adjusts the attack time.			Set the curve of volume change during attack.				Adjusts the output level.					
	Page02													
	-													
005 ZNR	ZOOM's unique noise reduction cuts noise during pauses in playing									without aff	ecting the ton	e.		
			Knob1				Knob2				Knob3			
• Ev-permenter	Page01	THRSH	1–25		Ρ	DETCT	Gtrln, Efxln			Level	0–150			
THEN LOUL	Fageor	Adjusts the	effect sensitivity.			Sets control	signal detection I	evel		Adjusts the	output level.			
_ ZNR 🎱 🕘 📱	Page02													
	. ugo02													

NEXT >>>

### **Effect Types and Parameters**

006 NoiseGate	This is	a noise g	ate that cuts	the	SC	ound duri	ng playing pa	ause	s.					
			Knob1				Knob2			Knob3				
		THRSH	1–25		Ρ	Level	0–150						Т	
Noise Gote	Page01	Adjusts the	effect sensitivity			Adjusts the	output level.					_	-	
•		,	, 									1		
	Page02		1				L							
007 DirtyGate	This vir	ntage styl	e gate featu	res a	ас	haracteris	stic way of c	losir	ng.					
	$\backslash$		Knob1				Knob2				Knob3			
	D01	THRSH	1–25		Ρ	Level	0–150							
<b>ADIRIT</b> MAN	Page01	Adjusts the	effect sensitivity			Adjusts the	output level.							
GAUE	Page02								_					
008 GraphicEQ	This un	it has a s	ix band equa	alize	r.				_					
	$\sim$		Knob1				Knob2				Knob3			
		160Hz	-12–12			400Hz	-12–12			800Hz	-12–12		Τ	
	Page01	Boosts or cut band.	s the low (160 Hz)	freque	псу	Boosts or c Hz) frequenc	uts the low-mido cy band.	dle (4	00	Boosts or c frequency ba	uts the middle ( and.	800	Hz)	
		3.2kHz	-12-12			6.4kHz	-12–12			12kHz	-12–12			
Gejffili	Page02	Boosts or frequency b		3.2 kł	Ηz)		uts the extreme quency band.	ely hi	gh	Boosts or o kHz) frequer	outs the harmon hoy band.	nics	(12	
	Page03	Level	0–150											
	Fage03	Adjusts the	output level.											
009 ParaEQ	This is	a 2-band	parametric e	equa	lize	ər.								
<u>∕[∙å₽</u> EI)			Knob1				Knob2				Knob3			
	Page01	Freq1	20Hz–20kHz			Q1	0.5, 1, 2, 4, 8, 16			Gain1	-12–12			
	1 ageo1	Adjusts cen	ter frequency of	EQ1.		Adjusts EQ1	Q.			Adjusts EQ1	gain.			
FRED A GAIN	Daga 02	Freq2	20Hz–20kHz			Q2	0.5, 1, 2, 4, 8, 16			Gain2	-12–12			
	Page02 Page03	Adjusts cen	ter frequency of	EQ2.		Adjusts EQ2	2 Q.			Adjusts EQ2	gain.			
		Level	0–150											
	1 ageos	Adjusts the	output level.											
010 CombFLTR	This eff an equa		the comb fi	lter	tha	at results	from fixing t	the i	ma	odulation	of the flang	er l	ike	
			Knob1				Knob2				Knob3			
		Freq	1-50		Р	Reso	-10-0-10	T		Mix	0-100	1	T	
	Page01		e emphasized fre	quen	-		ntensity of the re	sonan	се	Adjusts the a	amount of effecte with the original			
CombFLTR		HiDMP	0-10			Level	0–150					1	Τ	
	Page02	Adjusts the effect sound	treble attenuatio	on of t	he	Adjusts the	output level.							
011 AutoWah	This eff	ect varies	s wah in acc	orda	nc	e with pi	cking intensi	ty.						
			Knob1				Knob2				Knob3			
SENSE RESU LEVEL		Sense	-101, 110		Ρ	Reso	0–10			Level	0–150			
AutoWah	Page01	Adjusts the	sensitivity of the	effec	t.	Adjusts the i sound.	ntensity of the re	sonan	се	Adjusts the	output level.			
	Page02													
	1 49002													
012 Resonance	This eff	ect varies	s the resona	nce	filt	er freque	ency accordir	ng to	p p	icking int	ensity.			
	$\sim$		Knob1				Knob2				Knob3			
SEMSE RESO LEVEL		Sense	-101, 110		Ρ	Reso	0–10			Level	0–150	Γ	Г	
	Page01	Adjusts the	sensitivity of the	effec	t.	Adjusts the i sound.	ntensity of the re	sonan	се	Adjusts the	output level.			
O													_	

	This ef	ect varie	s the sound l	ike a	talking mo	odulator.					
	$\square$		Knob1	Knob1		Knob2		Knob3			
AD AD AD		Range	1–10		Reso	0–10		Sense	-10—1, 1–10		
	Page01	Adjusts the by the effec	frequency range pro t.	ocesse	d Adjusts the i resonance s	ntensity of the mo ound.	dulation	Adjusts the	sensitivity of the	effec	
		Bal	0-100		Level	0–150					
	Page02	Adjusts the balance between original and effect sounds.			Adjusts the	output level.					
4 M-Filter	This env	elope filte	er has the flavo	r of a	MOOG MF	-101 low pass	filter a	nd can be	set in a wide	rang	
	/		Knob1			Knob2			Knob3		
		Freq	0-100	P	Sense	0–10		Reso	0–10		
	Page01	Sets minim filter.	um frequency of e	nvelop	e Sets effect :	sensitivity.		Sets effect	resonance.		
	Page02	Туре	HPF, BPF, LPF		Chara	2Pole, 4Pole		VLCTY	Fast, Slow		
n-Filter ⊙	Fageuz	Sets filter t	ype.		Adjusts amo	ount of filter applie	əd.	Sets speed	of filter action.		
( <u> </u>		Bal	0-100		Level	0-150					
	Page03	Adjusts the and effect s	balance between sounds.	origina	Adjusts the	output level.					
5 Step	This sp	ecial effe	ct gives the s	sound	d a steppe	d quality.					
	$\sim$	1	Knob1			Knob2			Knob3		
(A REFERENCE)		Depth	0-100		Rate	0-50	⊅Р	Reso	0-10		
575P	Page01	Sets the depth of the modulation.			Sets the sp	eed of the modula	Adjusts the intensity of the modulat resonance sound.				
	D02	Shape	0-10		Level	0–150					
	Page02	Adjusts the	effect envelope.		Adjusts the	output level.					
6 SeqFLTR	The se	quence fi	ilter has the f	lavor	of a Z.Vex	Seek-Wah.					
	$\sim$		Knob1			Knob2			Knob3		
SER FILTER	D 01	Step	2-8		PTTRN	1–8		Speed	1–50	Þ	
STEP PTTEN SPEED	Page01	Adjusts nur	mber of sequence	steps.	Sets effect	pattern.		Sets modula	ation speed.		
$\Theta \Theta \Theta \Theta$		Shape	0-10		Reso	0–10		Level	0–150		
	Page02	Sets effect	sound envelope.		Sets effect	resonance.		Adjusts the	output level.		
7 RndmFLTR	This filt	er effect	changes cha	racte	r randomly	/.					
		1	Knob1		1	Knob2			Knob3		
		Speed	1-50	⊅ P	Range	0-100		Reso	0-10	1	
~~	Page01	-	ation speed.		1.01	uency range affect		Sets effect			
		octo modu	ation speca.		Aujusts nee	acticy range affect	stou.	Bal	0-100		
KNT M		Tupo	HDE RDE I DE		Chara	2Polo 4Polo			0-100		
	Page02	Туре	HPF, BPF, LPF		Chara	2Pole, 4Pole			halance hetwee	o oria	
	Page02	Type Sets filter t				2Pole, 4Pole	ed.		balance betweer ounds.	n orig	
							ed.	Adjusts the		n orig	
	Page02 Page03	Sets filter t Level	ype.				ed.	Adjusts the		n orig	
Booster	Page03	Sets filter t Level Adjusts the	ype.	gain	Adjusts amo	punt of filter applie		Adjusts the and effect s		n orig	
8 Booster	Page03	Sets filter t Level Adjusts the	0–150 output level.	gain	Adjusts amo	punt of filter applie		Adjusts the and effect s		n orig	
8 Booster	Page03	Sets filter t Level Adjusts the	ype. 0-150 output level. reases signal	gain	Adjusts amo	he sound mo		Adjusts the and effect s	ounds.		
8 Booster	Page03	Sets filter t Level Adjusts the oster incl	ype. 0–150 output level. reases signal Knob1 0–100		Adjusts amo	he sound mc Knob2		Adjusts the and effect s werful. Level	ounds. Knob3		
8 Booster	Page03 The bo Page01	Sets filter t Level Adjusts the oster incl Gain	ype. 0–150 output level. reases signal Knob1 0–100		Adjusts amo	he sound mc Knob2		Adjusts the and effect s werful. Level	ounds. Knob3 0–150		
8 Booster	Page03	Sets filter t Level Adjusts the oster incl Gain	ype. 0–150 output level. reases signal Knob1 0–100		Adjusts amo	he sound mc Knob2		Adjusts the and effect s werful. Level	ounds. Knob3 0–150		
Booster ©	Page03 The bo Page01 Page02 Simula	Sets filter t Level Adjusts the Oster incl Gain Adjusts the	ype. 0–150 output level. reases signal Knob1 0–100	P	Adjusts and to make t Tone Adjusts the	he sound mcc Knob2 0-100 tone.		Adjusts the and effect s werful. Level Adjusts the	Knob3 0-150 output level.		
Booster ©	Page03 The bo Page01 Page02 Simula	Sets filter t Level Adjusts the Oster incl Gain Adjusts the tion of t	ype. 0-150 output level. reases signal Knob1 0-100 gain.	P	Adjusts and to make t Tone Adjusts the	he sound mcc Knob2 0-100 tone.		Adjusts the and effect s werful. Level Adjusts the	Knob3 0-150 output level.		
Booster ©	Page03 The bo Page01 Page02 Simula	Sets filter t Level Adjusts the Oster incl Gain Adjusts the tion of t	ype. 0-150 output level. reases signal Knob1 0-100 gain. he Boss OD	P	Adjusts and to make t Tone Adjusts the Adjusts the	he sound mc he sound mc Knob2 [0-100 tone. Ct effect bo:		Adjusts the and effect s werful. Level Adjusts the	Knob3 0-150 output level. e first to tak		
9 OverDrive	Page03 The bo Page01 Page02 Simula	Sets filter t Level Adjusts the Ooster incl Gain Adjusts the tion of t ive" title. Gain	ype. 0-150 output level. reases signal Knob1 0-100 gain. he Boss OD Knob1 0-100	-1, tł	Adjusts and to make t Tone Adjusts the compa	he sound mc Knob2 0-100 ct effect bo: Knob2 0-100		Adjusts the and effect s werful. Level Was the Level	Knob3 0-150 output level. e first to tal Knob3 0-150		
Booster ©	Page03 The bo Page01 Page02 Simula	Sets filter t Level Adjusts the Ooster incl Gain Adjusts the tion of t ive" title.	ype. 0-150 output level. reases signal Knob1 0-100 gain. he Boss OD Knob1 0-100	-1, tł	Adjusts and to make t Tone Adjusts the e compa	he sound mc Knob2 0-100 ct effect bo: Knob2 0-100		Adjusts the and effect s werful. Level Was the Level	Knob3 0-150 output level. e first to tal Knob3		

NEXT >>>

020 T Scream	Simulation of the Ibanez TS808, which is loved by many guitarists as a booster and has inspired numerous clones.												
	/		Knob1			Knob2			Knob3				
	Page01	Gain	0–100	P	Tone	0–100		Level	0–150				
T Screan I	Tageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
	Page02												
021 Governor	Simulat	tion of the	e Guv'nor dis	tortic	on effect f	rom Marshal	Ι.						
	$\sim$		Knob1			Knob2			Knob3				
	Page01	Gain	0–100	F	Tone	0–100		Level	0–150				
	Pageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
Governor	Page02												
	1 ugeoz												
022 Dist +	Simulat	ion of the	MXR distorti	on+	effect that	made distort	ion po	pular worl	dwide.				
			Knob1			Knob2			Knob3				
		Gain	0–100	P	Tone	0-100		Level	0–150				
DiSt+	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
	D 00												
	Page02												
023 Dist 1	Simulat	tion of the	Boss DS-1	disto	rtion peda	I, which has	been	a long-sel	ler.				
	$\sim$		Knob1			Knob2		Knob3					
		Gain	0–100	P	Tone	0–100		Level	0–150				
	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.				
	D02												
	Page02												
024 Squeak	Simulat	tion of the	popular Pro	Co R	at famous	for its edgy	distor	tion sound	l.				
			Knob1			Knob2			Knob3				
	D01	Gain	0–100	P	Tone	0–100		Level	0–150				
Squeak	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
	Page02												
	1 uge 02					1							
025 FuzzSmile		tion of the ashing sc		whic	n has mad	e rock histor	y with	i its humo	rous panel d	esign			
_	$\sim$		Knob1			Knob2			Knob3				
	Page01	Gain	0–100	P	Tone	0–100		Level	0–150				
(FuzzShile)	Tageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
	Page02												
026 GreatMuff			e Electro-Har sweet fuzz s			f, which is lo	ved b	y famous	artists aroun	d the			
	$\sim$		Knob1			Knob2			Knob3				
	D 01	Gain	0–100	P	Tone	0–100		Level	0–150				
GreatMuff	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.				
	Page02												
	1 ageoz												
027 MetalWRLD		tion of the nidrange.	e Boss Metal	Zon	e, which is	s characterize	ed by I	ong susta	ain and a pow	verful			
		-	Knob1			Knob2			Knob3				
		Gain	0–100	P	Tone	0-100		Level	0–150				
MetalWRLD	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.	<u> </u>			
	Dec. 00				1								
	Page02			· · · ·				'		· · · ·			
HotBox		1	-		_	ss Hotbo					Knob3		
------------------------	--	--	--	-------------------------	--------	--	--	---------	---	---	--------	-------	--
GAIN TUNE LEVEL		ļ	Knob1				Knob2			T		_	
$\Theta \Theta \Theta$	Page01	Gain	0–100		Ρ	Tone	0–100		Level	0–150			
HotBoX		Adjusts the	gain.			Adjusts the	tone.		Adjusts th	e output level.		_	
8	Page02												
Z Clean	ZOOM	u original u	inadorned cl	ean	so	und.						-	
			Knob1				Knob2			Knob3		-	
		Gain	0-100		Р	Tone	0-100	11	Level	0-150			
	Page01	Adjusts the				Adjusts the			Adjusts th	e output level.			
Z Clean 🛛	Page02		Ì										
	-	inal soun	id created by	. m		ing chara		of an A		and a MAE	251/	^	
Z MP1	JCM80			y III	erç	Jing chara			DA IVIE I		1311/-	1	
CONTRACTOR			Knob1				Knob2			Knob3			
	Page01	Gain	0–100		Ρ	Tone	0–100		Level	0-150			
		Adjusts the	gain.			Adjusts the	tone.		Adjusts th	e output level.			
Z MP1 🔘	Page02												
	1 49002												
Z Bottom	A high	gain sour	nd that empl	nasiz	zes	low and	middle free	quencie	es.				
PATH TANK LINE	$\sim$		Knob1				Knob2			Knob3		J	
ÖÖÖ		Colin.	0-100		Р	Tone	0-100		Level	0-150			
		Gain	10-100										
DOTECT	Page01	Adjusts the				Adjusts the			Adjusts th	e output level.			
BOTTON					-				Adjusts th	e output level.			
BOTTON	Page02	Adjusts the	gain.			Adjusts the	tone.						
Z Dream	Page02	Adjusts the	gain.	olayi		Adjusts the	n the Mesa	Boog		King Series	II Le	e	
Z Dream	Page02	Adjusts the	gain. nd for lead p	playi	ing	Adjusts the based o	n the Mesa	a Boog	ie Road	King Series	Le	e	
Z Dream	Page02	Adjusts the gain sou	gain. nd for lead p Knob1 0-100	olayi		Adjusts the based o	n the Mesa Knob2	Boog	ie Road	King Series Knob3 0-150	Le	e	
	Page02 A high channe	Adjusts the	gain. nd for lead p Knob1 0-100		ing	Adjusts the based o	n the Mesa Knob2	a Boog	ie Road	King Series		e	
	Page02 A high channe	Adjusts the gain sou	gain. nd for lead p Knob1 0-100	blayi	ing	Adjusts the based o	n the Mesa Knob2	Boog	ie Road	King Series Knob3 0-150		e	
JREAM'	Page02 A high channe Page01 Page02	Adjusts the gain sou el. Gain Adjusts the	gain. nd for lead p <u>Knob1</u> 0-100 gain.		P	Adjusts the based o Tone Adjusts the	n the Mesa Knob2 0-100 tone.		Level Adjusts th	King Series Knob3 0-150		e	
Z Dream	Page02 A high channe Page01 Page02	Adjusts the gain sou el. Gain Adjusts the	gain. Ind for lead p Knob1 0-100 gain. gain.		P	Adjusts the based o Tone Adjusts the	n the Mesa Knob2 0-100 tone.		Level Adjusts th	King Series Knob3 0-150 e output level.		e	
JREAM'	Page02 A high channe Page01 Page02	Adjusts the gain sou I. Gain Adjusts the inal high	gain. Mnob1 0-100 gain. gain. Gain sound & Knob1		P	Adjusts the based o Tone Adjusts the ed from Ic	n the Mesa Knob2 0-100 tone.		Level Adjusts th	King Series Knob3 0-150 e output level. Knob3		e	
JREAM'	Page02 A high channe Page01 Page02	Adjusts the gain SOU I. Gain Adjusts the inal high Gain	gain. Model for lead p Knob1 0-100 gain. gain. Gain sound b Knob1 0-100		P	Adjusts the based o Tone Adjusts the ed from Ic	n the Mesa Knob2 0-100 tone. bww to high 1 Knob2 0-100		ie Road Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150			
JREAM'	Page02 A high channe Page01 Page02 An orig	Adjusts the gain sou I. Gain Adjusts the inal high	gain. Model for lead p Knob1 0-100 gain. gain. Gain sound b Knob1 0-100		P	Adjusts the based o Tone Adjusts the ed from Ic	n the Mesa Knob2 0-100 tone. bww to high 1 Knob2 0-100		ie Road Level Adjusts th	King Series Knob3 0-150 e output level. Knob3			
JREAM'	Page02 A high channe Page01 Page02 An orig	Adjusts the gain SOU I. Gain Adjusts the inal high Gain	gain. Model for lead p Knob1 0-100 gain. gain. Gain sound b Knob1 0-100		P	Adjusts the based o Tone Adjusts the ed from Ic	n the Mesa Knob2 0-100 tone. bww to high 1 Knob2 0-100		ie Road Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150		e 	
JREAM'	Page02 A high channe Page01 Page02 An orig Page01 Page02	Adjusts the gain sou J. Gain Adjusts the Gain Adjusts the	gain. Model for lead p Knob1 0-100 gain. gain. Gain sound b Knob1 0-100	Dalar	P P	Adjusts the based o Tone Adjusts the Tone Adjusts the	n the Mesa Knob2 0-100 tone.  bow to high 1 Knob2 0-100 tone.  0-100 tone.		Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150			
Z Scream	Page02 A high channe Page01 Page02 An orig Page01 Page02	Adjusts the gain sou J. Gain Adjusts the Gain Adjusts the	gain. Mob1 0-100 gain. gain sound & Knob1 0-100 gain.	Dalar	P P	Adjusts the based o Tone Adjusts the Tone Adjusts the	n the Mesa Knob2 0-100 tone.  bow to high 1 Knob2 0-100 tone.  0-100 tone.	frequer	Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150			
Z Scream	Page02 A high channe Page01 Page02 An orig Page01 Page01 Page01 Page02	Adjusts the gain sou J. Gain Adjusts the Gain Adjusts the	gain. Mob1 0-100 gain. gain sound b Knob1 0-100 gain. 10-100 gain.	Dalar	P P	Adjusts the based o Tone Adjusts the Tone Adjusts the	n the Mesa Knob2 0-100 tone. bw to high f Knob2 0-100 tone. 0-100 tone.	frequer	Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150 e output level.			
Z Scream	Page02 A high channe Page01 Page02 An orig Page01 Page02	Adjusts the gain sou J. Gain Adjusts the Gain Adjusts the Ch sound	gain. Knob1 0-100 gain. gain sound b Knob1 0-100 gain. modeled on Knob1 0-100	Dalar		Adjusts the based o Adjusts the control for Adjusts the Adjusts the bund of a	n the Mesa Knob2 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone.	frequer	Level Adjusts th	King Series Knob3 0-150 e output level. Knob3 0-150 e output level. Knob3			
Z Scream	Page02 A high channe Page01 Page02 An orig Page01 Page01 Page01 Page02	Adjusts the gain sou I. Gain Adjusts the inal high Gain Adjusts the ch sound Gain	gain. Knob1 0-100 gain. gain sound b Knob1 0-100 gain. modeled on Knob1 0-100	Dalar		Adjusts the based o Tone Adjusts the ad from Icc Tone Adjusts the und of a Tone	n the Mesa Knob2 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone.	frequer	Level Adjusts th	King Series           Knob3           0-150           e output level.           0-150           e output level.           0-150           e output level.           0-150           0-150           0-150		e	
Z Scream	Page02 A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page02	Adjusts the gain sou I. Gain Adjusts the inal high Gain Adjusts the ch sound Gain Adjusts the	gain. Knob1 0-100 gain. gain sound b Knob1 0-100 gain. modeled on Knob1 0-100	Doalar Doalar the		Adjusts the based o Adjusts the ed from Ic Tone Adjusts the und of a Tone Adjusts the	n the Mesa Knob2 0-100 tone. Dow to high 1 Knob2 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone.	frequer	Level Adjusts th	King Series           Knob3           0-150           e output level.           0-150           e output level.           0-150           e output level.           0-150           0-150           0-150			
	Page02 A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page02	Adjusts the gain sou I. Gain Adjusts the inal high Gain Adjusts the ch sound Gain Adjusts the	gain. md for lead p Knob1 0-100 gain. gain sound b Knob1 0-100 gain. 0-100 0-100 gain. 0-100 0	Doalar Doalar the		Adjusts the based o Adjusts the ed from Ic Tone Adjusts the und of a Tone Adjusts the	n the Mesa Knob2 0-100 tone. Dow to high 1 Knob2 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone.	frequer	Level Adjusts th	King Series           Knob3           0-150           e output level.           0-150           e output level.           0-150           e output level.           0-150           0-150           0-150			
	Page02 A high channe Page01 Page02 An orig Page01 Page02 A cruno Page01 Page01 Page02 A high	Adjusts the gain sou I. Gain Adjusts the inal high Gain Adjusts the ch sound Gain Adjusts the	gain. Mobile for lead provide the second se	Doalar Doalar the		Adjusts the based o Adjusts the ed from Ic Tone Adjusts the und of a Tone Adjusts the	n the Mesa Knob2 0-100 tone. 0-1000 tone. 0-1000 tone. 0-1000 tone. 0-1000	frequer	Level Adjusts th	King Series Knob3 0-150 e output level.  Knob3 0-150 e output level.  Knob3 0-150 e output level.			
	Page02 A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page02	Adjusts the gain sou l. Gain Adjusts the inal high Gain Adjusts the ch sound Gain Adjusts the gain sour	gain. Motion for lead p Knob1 0-100 gain. gain sound b Knob1 0-100 gain. 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 0-10	Doalar Doalar the		Adjusts the based o Adjusts the ed from Ic Tone Adjusts the bund of a Tone Adjusts the overdrive	n the Mesa Knob2 0-100 tone. Dow to high 1 Knob2 0-100 tone. 0-1000 tone. 0-	frequer	ie Road Level Adjusts th CieS. Level Adjusts th Co. Level Adjusts th Co.	King Series Knob3 0-150 e output level.  Knob3 0-150 e output level.  Knob3 0-150 e output level. Knob3 0-150 e output level. Knob3			
	Page02 A high channe Page01 Page02 An orig Page01 Page02 A cruno Page01 Page01 Page02 A high	Adjusts the gain SOU J. Gain Adjusts the inal high Gain Adjusts the Ch SOUND Gain Adjusts the gain SOUR Gain	gain. Motion for lead p Knob1 0-100 gain. gain sound b Knob1 0-100 gain. 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 gain. Mob1 0-100 0-10	Doalar Doalar the		Adjusts the based o Adjusts the ad from Ic Adjusts the ad from Ic Adjusts the bund of a Adjusts the overdrive Tone	n the Mesa Knob2 0-100 tone. Dow to high 1 Knob2 0-100 tone. 0-1000 tone. 0-	frequer	ie Road Level Adjusts th CieS. Level Adjusts th Co. Level Adjusts th Co.	King Series Knob3 0-150 e output level.			

036 Lead	Lead a	bright an	d smooth dis	torti	on sound.					
			Knob1			Knob2			Knob3	
GAIN TENE LEVEL		Gain	0-100	F	Tone	0-100		Level	0-150	
	Page01	Adjusts the	gain.		Adjusts the			Adjusts the	output level.	
LEAD		.,			.,			.,		
4 ZOOM SUDE 14	Page02		1							
037 ExtremeDS	This dis	stortion e	ffect boasts t	he h	ighest gai	n in the world	d.			
			Knob1			Knob2			Knob3	
<b>A</b> 000	Page01	Gain	0–100	F	Tone	0–100		Level	0–150	
EXTREME	1 ageo1	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.	
© DISTORTION	Page02									
038 Aco.Sim	This eff	ect chang	ges the tone	of ar	electric g	juitar to make	e it so	und like a	an acoustic g	juitar.
			Knob1			Knob2			Knob3	
ACOUSTIC		Тор	0–100	F	Body	0–100		Level	0–150	
000	Page01	Adjusts the acoustic gui		one c	f Adjusts the l guitars.	body resonance of	acoustic	Adjusts the	output level.	
<b>—</b> / @]	Page02									
	Fageuz									
039 FD COMBO	Modele	d sound c	of a Fender Tw	vin Re	everb ('65),	which is love	d by g	uitarists i	n various gen	res.
	/		Knob1			Knob2			Knob3	
	D01	Gain	0–100	F	Tube	0–100		Level	0–150	
	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.	
	D 00	Trebl	0–100		Middl	0–100		Bass	0–100	
FD COMBO	Page02	Adjusts volu	ime of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low freque	encies.
()	D 00	Prese	0–100		CAB	See Table 1			1	
	Page03	Adjusts volun	ne of super-high freq	uencies	. Selects cab	inet.				
040 VX COMBO	Modele	ed sound	of a VOX AC3	30 cc	mbo amp	lifier operatin	g in C	lass A.	1	
	/		Knob1			Knob2			Knob3	
	Page01	Gain	0–100	F	Tube	0–100		Level	0–150	
	Fageor	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.	
WY COMPOSED	Page02	Trebl	0–100		Middl	0–100		Bass	0–100	
	1 ugoo2	Adjusts volu	ime of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	ume of low freque	encies.
	Page03	Prese	0–100		CAB	See Table 1				
	. ugooo	Adjusts volun	ne of super-high freq	uencies	. Selects cab	inet.				
041 US BLUES	Crunch	sound of	a Fender Tw	eed	Bassman.					
			Knob1			Knob2			Knob3	
( )	Page01	Gain	0–100	F	Tube	0–100		Level	0–150	
	Tageor	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.	
300820	Page02	Trebl	0–100		Middl	0–100		Bass	0–100	
	1 uge 02	Adjusts volu	ime of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	ume of low freque	encies.
	Page03	Prese	0–100		CAB	See Table 1				
	1 age 00	Adjusts volun	ne of super-high freq	uencies	. Selects cab	inet.				
042 BG CRUNCH	Crunch	sound of	a Mesa Boo	gie N	/kIII comb	oo amp.				
			Knob1			Knob2			Knob3	
	Daga01	Gain	0–100	F	Tube	0–100		Level	0–150	
	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.	
EFFERUNCH .	Dog-00	Trebl	0–100		Middl	0–100		Bass	0–100	
	Page02	Adjusts volu	ime of high freque	encies	Adjusts volu	me of middle frequ	encies.	Adjusts volu	Ime of low freque	encies.
		, 10,0010 1010				ine or mudule nequ				
	Page03	Prese	0-100		CAB	See Table 1				

HW STACK	Page01 Page02 Page03	Gain Adjusts the Trebl Adjusts volu Prese	Knob1 0-100 gain. 0-100 ume of high freque	F		Knob2 0–100		Level	Knob3 0–150	
	Page02	Adjusts the Trebl Adjusts volu	gain. 0–100	F		0–100			2 10	Т
	Page02	Trebl Adjusts volu	0-100		Adjusts tub			Level	J-150	
	-	Adjusts volu				e amp compressio	on.	Adjusts the o	utput level.	
	-		Ime of high freque	1 1	Middl	0-100		Bass	0–100	T
14 TANGERINE	Page03	Prese		encies.	Adjusts volu	ime of middle frequ	lencies.	Adjusts volur	me of low freque	encies
4 TANGERINE	Page03		0-100		CAB	See Table 1				
14 TANGERINE		Adjusts volur	me of super-high free	quencies	. Selects cab	inet.				
	This m	odels the	Orange Grap	ohic 1	20 with it	s unique des	ign ar	nd sound.		
			Knob1			Knob2			Knob3	
	D01	Gain	0-100	F	Tube	0-100		Level	0–150	ТТ
<b>ATANGERINE</b>	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	on.	Adjusts the o	utput level.	
·····································	D02	Trebl	0-100		Middl	0-100		Bass	0–100	
	Page02	Adjusts voli	ume of high freque	encies.	Adjusts volu	ime of middle frequ	Jencies.	Adjusts volur	me of low freque	encies
		Prese	0-100		CAB	See Table 1				
	Page03	Adjusts volur	me of super-high free	quencies	. Selects cab	inet.				
5 MS CRUNCH	The cru	unch sour	nd of the Mar	shall	1959 that	: has given bi	rth to	many lege	ends.	
			Knob1			Knob2			Knob3	
	D 01	Gain	0-100	F	Tube	0-100		Level	0–150	
MS CRUNCH	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	on.	Adjusts the o	utput level.	
		Trebl	0-100		Middl	0-100		Bass	0–100	T
	Page02	Adjusts volu	ume of high freque	encies.	Adjusts volu	ime of middle frequ	Jencies.	Adjusts volur	me of low freque	encies
		Prese	0-100		CAB	See Table 1				
	Page03	Adjusts volur	ne of super-high frec	quencies	. Selects cab	inet.				
6 MS DRIVE	The hio	ah aain so	ound of a JCN	//200	0 Marsha	ll stack amp.				
	$\overline{}$		Knob1			Knob2			Knob3	
	D 01	Gain	0-100	F	Tube	0-100		Level	0–150	TT
MS DRIVE	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	on.	Adjusts the o	utput level.	
		Trebl	0-100		Middl	0-100		Bass	0–100	TT
	Page02	Adjusts voli	ume of high freque	encies.	Adjusts volu	ime of middle frequ	Jencies.	Adjusts volur	me of low freque	ancies
·		Prese	0-100		CAB	See Table 1			· · · · ·	
	Page03	Adjusts volur	ne of super-high frec	quencies	. Selects cab	inet.		· ·		
7 BG DRIVE	The hig	, h gain sc	ound of the N	lesa	Boogie Du	ual Rectifier r	ed cha	annel (Vint	.age mode).	
			Knob1			Knob2			Knob3	
-		Gain	0-100	F	Tube	0-100		Level	0–150	TT
	Page01	Adjusts the	gain.		Adjusts tub	e amp compressio	on.	Adjusts the o	utput level.	
<u> Redrive</u> –		Trebl	0-100		Middl	0-100		Bass	0–100	
	Page02	Adjusts voli	ume of high freque	encies.	Adjusts volu	ime of middle frequ	Jencies.	Adjusts volur	me of low freque	encies
		Prese	0-100		CAB	See Table 1		.,		
	Page03	Adjusts volur	ne of super-high frec	Juencies	. Selects cab	inet.				
		,	iigh gain soui	nd of	a Diezel			a handmad	de German	guit
			OWS CONTION			14 1.0			Knob3	
						Knop2				
		er that all	Knob1	F	Tube	Knob2		Level		
		er that all Gain	Knob1 0–100	F		0-100	Dn.		0–150	
	amplifie	er that all Gain Adjusts the	Knob1 0–100 gain.	F	Adjusts tub	0–100 e amp compressio	on.	Adjusts the o	0–150 output level.	
	amplifie	Gain Adjusts the Trebl	Knob1 0–100 gain. 0–100		Adjusts tub Middl	0–100 e amp compressio 0–100		Adjusts the o Bass	0–150 output level. 0–100	
	Page01	Gain Adjusts the Trebl	Knob1 0–100 gain.		Adjusts tub Middl	0–100 e amp compressio		Adjusts the o Bass	0–150 output level.	) ) ) ) ) ) )

NEXT >>>

049 TW ROCK		runch sound uses t ue amplifier.	the dr	ive chann	el of a Two	Rock	Emerald	50, an Ame	erican
		Knob1			Knob2			Knob3	
		Gain 0–100		P Tube	0-100		Level	0-150	
	Page01	Adjusts the gain.		Adjusts tub	e amp compressi	on.	Adjusts the	output level.	
		Trebl 0-100		Middl	0-100		Bass	0-100	T
TW ROCK	Page02	Adjusts volume of high free	auencies	. Adjusts volu	ime of middle freq	uencies.	Adjusts volu	ime of low freque	encies.
		Prese 0-100		CAB	See Table 1		.,		
	Page03	Adjusts volume of super-high f	requencie	s. Selects cab				1	
050 MATCH 30	Modele	ed sound of a DC-30				agship	combo a	amp.	
	/	Knob1			Knob2			Knob3	
	D01	Gain 0–100		P Tube	0-100		Level	0–150	
	Page01	Adjusts the gain.		Adjusts tub	e amp compressi	on.	Adjusts the	output level.	
		Trebl 0–100		Middl	0-100		Bass	0-100	
MATCH30	Page02	Adjusts volume of high free	quencies	. Adjusts volu	ime of middle freq	uencies.	Adjusts volu	ime of low freque	encies.
		Prese 0-100		CAB	See Table 1				
	Page03	Adjusts volume of super-high f	requencie	s. Selects cab	inet.			1	
051 FD VIBRO	Modele	ed sound of a '63 Fe							
		Knob1			Knob2			Knob3	
		Gain 0–100		P Tube	0-100		Level	0-150	
TREM THE LEVEL	Page01	Adjusts the gain.		Adjusts tub	e amp compressi	on.	Adjusts the	output level.	
		Trebl 0-100		Middl	0-100		Bass	0-100	
FD VIBRO	Page02	Adjusts volume of high free	quencies	Adjusts volu	Ime of middle frequ	uencies	Adjusts volu	ime of low freque	encies.
, <u>aaaaaaaaaaaaaaa</u> ,		Prese 0-100		CAB	See Table 1				
	Page03	Adjusts volume of super-high f	requencie						
	T1 · 6								
052 Tremolo	This eff	ect varies the volum	ne at a	regular ra	te.				
		Knob1			Knob2			Knob3	
TEPTH PATE LEVEL	Page01	Depth 0–100		Rate	Knob2 0–50	) P	Level	Knob3 0–150	
	Page01		dulation		1				
	Page01 Page02	Depth 0-100	odulation		0-50			0–150	
		Depth 0-100 Adjust the depth of the mo UP 0-UP 9, Wave DWN 0-DWN 9,			0-50			0–150	
	Page02	Depth 0-100 Adjust the depth of the mo UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 Sets the modulation wavef	orm.	Adjusts the	0–50 rate of the modu	lation.	Adjusts the	0–150 output level.	
053 Slicer	Page02	Depth 0-100 Adjust the depth of the mc UP 0-UP 9, Wave DWN0-DWN9, TRI 0-TRI 9 Sets the modulation wavef ect creates a rhythm	orm.	Adjusts the	0-50 rate of the modu	lation.	Adjusts the	0-150 output level.	
053 Slicer	Page02	Depth 0-100 Adjust the depth of the mc Wave DP 0-D 9, TRI 0-TRI 9 Sets the modulation wavef ect creates a rhythm Knob1	orm.	ound by co	0-50 rate of the modu ontinuously s Knob2	lation.	Adjusts the	0–150 output level. Knob3	
053 Slicer	Page02	Depth 0-100 Adjust the depth of the mc UP 0-UP 9, Wave DWN0-DWN9, TRI 0-TRI 9 Sets the modulation wavef ect creates a rhythm	orm.	Adjusts the	0-50 rate of the modu	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100	
053 Slicer	Page02	Depth         0–100           Adjust the depth of the mc         UP 0–UP 9,           Wave         DWN 0–DWN 9,           TRI 0–TRI 9         Sets the modulation wavef           ect creates a rhythm         Knob1           PTTRN         1–20           Set seffect pattern.         Sets effect pattern.	orm.	Adjusts the ound by co Speed Sets modul	0-50 rate of the modu pontinuously s Knob2 1-50 ation speed.	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100 balance between	
053 Slicer	Page02	Depth         0-100           Adjust the depth of the mc         UP 0-UP 9,           Wave         DWN 0-DWN 9,           TRI 0-TRI 9         TRI 0-TRI 9           Sets the modulation wavef         ect creates a rhythn           Fett creates a rhythn         1-20           Sets effect pattern.         THRSH           0-50         -50	orm.	Adjusts the ound by co Speed Sets modul Level	0-50 rate of the modu continuously s Knob2 1-50 ation speed. 0-150	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100 balance between	
053 Slicer	Page02 This eff Page01	Depth         0–100           Adjust the depth of the mc         UP 0–UP 9,           Wave         DWN 0–DWN 9,           TRI 0–TRI 9         Sets the modulation wavef           ect creates a rhythm         Knob1           PTTRN         1–20           Set seffect pattern.         Sets effect pattern.	orm.	Adjusts the ound by co Speed Sets modul Level	0-50 rate of the modu pontinuously s Knob2 1-50 ation speed.	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100 balance between	
053 Slicer	Page02 This eff Page01 Page02	Depth         0-100           Adjust the depth of the mc         UP 0-UP 9,           Wave         DWN 0-DWN 9,           TRI 0-TRI 9         TRI 0-TRI 9           Sets the modulation wavef         ect creates a rhythn           Fett creates a rhythn         1-20           Sets effect pattern.         THRSH           0-50         -50	iorm. nical s	Adjusts the	0-50 rate of the modu continuously s Knob2 1-50 ation speed. 0-150 output level.	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100 balance between	
<u>\$1511[[</u> ◎ <b>© © ©</b>	Page02 This eff Page01 Page02	Depth         0–100           Adjust the depth of the mc         UP 0–UP 9,           Wave         DWN 0–DWN 9,           TRI 0–TRI 9         Sets the modulation wavef           ect creates a rhythm         Rob1           PTTRN         1–20           Sets effect pattern.         THRSH           0–50         Adjusts effect threshold.	iorm. nical s	Adjusts the	0-50 rate of the modu continuously s Knob2 1-50 ation speed. 0-150 output level.	lation.	Adjusts the the input.	0–150 output level. Knob3 0–100 balance between	
054 Phaser	Page02 This eff Page01 Page02 This eff	Depth     0-100       Adjust the depth of the mc       Wave     UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9       Sets the modulation wavef       ect creates a rhythm       Nob1       PTTRN       1-20       Sets effect pattern.       THRSH     0-50       Adjusts effect threshold.       ect adds a phasing v	iorm. nical s	Adjusts the	0-50 rate of the modu rate rat	lation.	Adjusts the the input.	0-150 output level. Knob3 0-100 balance between ounds.	
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56 DuoPhase	This eff	fect com	oines two pha	asers						
	$\sim$		Knob1			Knob2			Knob3	
	Page01	RateA	1–50	♪ P	RateB	1–50, SyncA, RvrsA		Level	0–150	
Duo-Phase 🖽	Ŭ	Adjusts spe	ed of LFO A modu	ulation.	Adjusts spe	ed of LFO B mod	ulation.	Adjusts the	output level.	
RATE A PATE B LEVEL	D02	ResoA	0-10		ResoB	0-10		Link	Seri, Para, STR	
	Page02	Adjusts reso	nance of LFO A mo	dulation	. Adjusts reso	nance of LFO B mo	dulation.	Sets how tw	vo phasers are co	nnected.
. <u> </u>		DPT_A	1-100		DPT_B	1-100				
	Page03	Adjusts dep	oth of LFO A modu	lation.	Adjusts dep	th of LFO B modu	lation.			
7 WarpPhase	This ph	aser has	a one way ef	ffect.						_
	/		Knob1			Knob2			Knob3	
. <b></b>	D01	Speed	1-50	♪ P	Reso	0-10		Level	0–150	
	Page01	Sets modul	ation speed.		Sets effect	resonance.		Adjusts the	output level.	
Warpphaser		DRCTN	Go, Back							
	Page02	Sets directi	on of warping.			1			1	
58 Chorus	This eff		s a shifted pito	ch wit	h the origi	inal sound to	add m	ovement	and thicknes	s.
	$\sim$		Knob1			Knob2			Knob3	
DEPTH RATE MIX		Depth	0-100		Rate	1-50		Mix	0–100	P
CHORUS	Page01		pth of the modula	tion.	Sets the sp	eed of the modula	ition.		amount of effecte with the original	
		Tone	0-10		Level	0-150				
	Page02	Adjusts the	tone.		Adjusts the	output level.				
59 Detune			fect sound th us effect with			e of modulat		e original	sound, this	effect
			Knob1			Knob2			Knob3	
夏夏夏		Cent	05.05							
181 ALD ( CLD) (		COIIL	-2525		PreD	0–50		Mix	0–100	P
Detune	Page01	Adjusts the	detuning in cents ements of 1/100-se		Sets the pr	0–50 e-delay time of th	e effect	Adjusts the	0–100 amount of effecte with the original	ed sound
Detune		Adjusts the	detuning in cents		Sets the pr		e effect	Adjusts the	amount of effecte	ed sound
Detune	Page01 Page02	Adjusts the are fine incr	detuning in cents ements of 1/100-se 0-10		Sets the pr sound.	e-delay time of th	e effect	Adjusts the	amount of effecte	ed sound
VintageCE	Page02	Adjusts the are fine incr Tone Adjusts the	detuning in cents ements of 1/100-se 0-10 tone.	mitone	Sets the pr sound. Level Adjusts the	0–150 output level.	e effect	Adjusts the	amount of effecte I with the original	ed sound
VintageCE	Page02	Adjusts the are fine incr Tone Adjusts the	detuning in cents ements of 1/100-se 0-10 tone.	mitone	Sets the pr sound. Level Adjusts the	e-delay time of th	e effect	Adjusts the	amount of effecte	ed sound
0 VintageCE	Page02 This is	Adjusts the are fine incr Tone Adjusts the	detuning in cents ements of 1/100-se 0-10 tone.	mitone	Sets the pr sound. Level Adjusts the	0–150 output level.	e effect	Adjusts the	amount of effecte I with the original	ed sound
VintageCE	Page02	Adjusts the are fine incr Tone Adjusts the a simulat Comp	detuning in cents ements of 1/100-se 0-10 tone. tion of the BC Knob1 0-9		Sets the pr sound. Level Adjusts the CE-1. Rate	e-delay time of th 0-150 output level. Knob2		Adjusts the that is mixed Mix Adjusts the	with the original	ed sound sound.
	Page02 This is Page01	Adjusts the are fine incr Tone Adjusts the a simulat Comp	detuning in cents ements of 1/100-se 0-10 tone. ion of the BC Knob1 0-9		Sets the pr sound. Level Adjusts the CE-1. Rate	e-delay time of th 0–150 output level. Knob2 1–50		Adjusts the that is mixed Mix Adjusts the	knob3 0-100 amount of effecte	ed sound sound.
	Page02 This is	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the set Level	detuning in cents ements of 1/100-se 0-10 tone. tion of the BC Knob1 0-9		Sets the pr sound. Level Adjusts the CE-1. Rate	e-delay time of th 0–150 output level. Knob2 1–50		Adjusts the that is mixed Mix Adjusts the	knob3 0-100 amount of effecte	ed sound sound.
	Page02 This is Page01 Page02	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the set Level Adjusts the	detuning in cents ements of 1/100-se [0-10 tone. tion of the BC Knob1 [0-9 nsitivity of the comp [0-150	DSS C	Sets the pr sound. Level Adjusts the EE-1. Rate Sets the sp	e-delay time of th 0–150 output level. Knob2 1–50		Adjusts the that is mixed Mix Adjusts the	knob3 0-100 amount of effecte	ed sound sound.
UintaseCE B	Page02 This is Page01 Page02	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the set Level Adjusts the	detuning in cents ements of 1/100-se [0-10 tone. icion of the BC Knob1 [0-9 nsitivity of the comp [0-150 output level.	DSS C	Sets the pr sound. Level Adjusts the EE-1. Rate Sets the sp	e-delay time of th 0–150 output level. Knob2 1–50		Adjusts the that is mixed Mix Adjusts the	knob3 0-100 amount of effecte	ed sound sound.
UintaseCE B	Page02 This is Page01 Page02	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the set Level Adjusts the	detuning in cents ements of 1/100-se [0-10 tone. ion of the BC Knob1 [0-9 ensitivity of the comp [0-150 output level. chorus with a	DSS C	Sets the pr sound. Level Adjusts the EE-1. Rate Sets the sp	c-delay time of th     (0-150     output level.     Knob2     1-50     eed of the module		Adjusts the that is mixed Mix Adjusts the	Knob3 0-100 amount of effected 0-100 amount of effected with the original	ed sound sound.
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I StereoCho	Page02 This is Page01 Page02 This is Page01 Page01 Page02	Adjusts the are fine incr Tone Adjusts the Adjusts the a simulat Comp Sets the see Level Adjusts the a stereo Depth Sets the de Tone Adjusts the	detuning in cents ements of 1/100-se [0-10 ion of the BC Knob1 [0-9 [0-150 output level. chorus with a Knob1 [0-100 epth of the modula [0-10 tone. ensemble that	DSS C	Sets the pr sound. Level Adjusts the E-1. Rate Sets the sp r tone. Rate Sets the sp Level Adjusts the	c-delay time of th         [0-150         output level. Knob2 1-50 eed of the modula [1-50 eed of the modula [0-150 output level. eedimension	ition.	Adjusts the that is mixed Mix Adjusts the that is mixed Mix Adjusts the that is mixed	Knob3     O-100     Knob3     O-100     Mnob3     O-100     amount of effecte     with the original     O-100     amount of effecte     with the original     O-100     amount of effecte     with the original	Ped sound.
I StereoCho	Page02 This is Page01 Page02 This is Page01 Page01 Page02	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the see Level Adjusts the a stereo Depth Sets the de Tone Adjusts the a chorus	detuning in cents ements of 1/100-se [0-10 tone. [0-9 nsitivity of the Com [0-150 output level. chorus with a Knob1 [0-100 pth of the modula [0-10 tone. ensemble tha Knob1	mitone	Sets the pr sound. Level Adjusts the E-1. Rate Sets the sp r tone. Rate Sets the sp Level Adjusts the tures three Rate	delay time of th     0-150     output level.     1-50     eed of the module     1-50     eed of the module     1-50     eed of the module     0-150     output level.     eedimension     Knob2	tion.	Adjusts the that is mixed Mix Adjusts the that is mixed Mix Adjusts the that is mixed /ement.	Knob3 0-100 Characteristics Knob3 0-100 Characteristics Knob3 0-100 Characteristics Knob3 Characteristics Knob3 Characteristics Knob3 Characteristics Knob3 Characteristics Ch	de sound.     ended sound.
I StereoCho	Page02 This is Page01 Page02 This is Page02 This is	Adjusts the are fine incr Tone Adjusts the a simulat Comp Sets the see Level Adjusts the a stereo Depth Sets the de Tone Adjusts the a chorus	detuning in cents           ments of 1/100-se           0-10           tone.           ion of the BC           Knob1           0-9           nsitivity of the comp           0-150           output level.           chorus with a           Knob1           0-100           upth of the modula           0-10           tone.           ensemble that           Knob1           0-10           tone.           ensemble that           Knob1           0-100	mitone	Sets the pr sound. Level Adjusts the E-1. Rate Sets the sp r tone. Rate Sets the sp Level Adjusts the tures three Rate		tion.	Adjusts the that is mixed Mix Adjusts the that is mixed Mix Adjusts the that is mixed /ement.	Knob3 0-100 mount of effecte with the original 0-100 mount of effecte with the original 0-100 mount of effecte with the original 0-100 Knob3 0-100 Knob3 0-100 Knob3 0-100 Knob3 0-100	de sounce     sound.     P     P     de sounce     p     P     de sounce     p     p     de sounce     p     de sounce     de sounce

NEXT >>>

063 VinFLNGR	This an	alog flang	ger sound is	simila	r to an M	XR M-117R.					
			Knob1			Knob2			Knob3		
OUTLY BATE SEED		Depth	0-100		Rate	0-50	>	P Reso	-101, 0,110	Т	Т
	Page01	Sets the dep	oth of the modula	ation.	Sets the sp	eed of the modula	ation.	Adjusts the resonance.	intensity of the mo	dula	ation
		PreD	0–50		Mix	0–100		Level	0–150		Τ
	Page02	Sets pre-del	ay time of effect	sound.		amount of effecte d with the original :		nd Adjusts the	e output level.		
064 Flanger	This is a	a jet sour	nd like an AD	A flan	ger.						
	$\sim$	D 4	Knob1		D .	Knob2	1.1		Knob3	1	-
	Page01	Depth	0–100		Rate	0–50	♪	P Reso	-10-1, 0,1-10 intensity of the mo	dula	
FlanSer		Sets the dep	oth of the modula	ation.	Sets the sp	eed of the modula	ation.	resonance.	intensity of the mo	Juuic	1001
		PreD	0–50		Mix	0–100		Level	0–150		
	Page02	Sets pre-del	ay time of effect	sound.		amount of effecte d with the original :		Adjusts the	e output level.		
065 DynaFLNGR		lume of <sup>.</sup> c flanger.		ound	changes	according to	b the	input sig	nal level wit	h t	his
			Knob1			Knob2			Knob3		
REPTH RATE SENSE	Page01	Depth	0–100		Rate	0–50	♪	P Sense	-101, 110		
			oth of the modula	ation.		eed of the modula	ation.	Adjusts the	e sensitivity of the	effe	ct.
	Page02	Reso	-10-1, 0, 1-10		Level	0–150		_			
	Fageuz	Adjusts the i resonance.	ntensity of the mo	odulation	Adjusts the	output level.					
066 Vibrato	This eff	ect autor	natically add	s vibr	ato.						
	$\backslash$		Knob1			Knob2			Knob3		
		Depth	0–100		Rate	0–50	>	P Bal	0–100		
Vibrato	Page01	Sets the de	oth of the modula	ation.	Sets the sp	eed of the modula	ation.	Adjusts the and effect	e balance betweer sounds.	oriç	ginal
	Page02	Tone	0–10		Level	0-150		_			
067 Octave	This eff	Adjusts the ect adds		octave	,	output level.	w th	e original	sound.		
	$\leq$		Knob1			Knob2			Knob3		
0CT1 0CT2 04V		Oct1	0-100	Р	Oct2	0-100	ТТ	Dry	0-100	Т	T
Octave	Page01	Adjusts the	level of the sou w the effect soun		Adjusts the	e level of the sou ow the effect sou			e volume of the un	affe	cted
Ø	Page02	Chara	0–100		Tone	0–10		Level	0–150		
	Fage02	Adjusts effe	ct character.		Adjusts the	tone.		Adjusts the	e output level.		
068 PitchSHFT	This eff	ect shifts	the pitch up	o or do	wn.		_			-	-
	/		Knob1			Knob2			Knob3		
	Page01	Shift	-12—1, 0, 1–12, 24		Tone	0–10		Bal	0–100		Ρ
PitchSHFT	- ugoot		tch shift amount in se ives a detuning effe		Adjusts the	1		Adjusts the and effect	e balance betweer sounds.	oriç	jinal
	Dogo02	Fine	-25-1, 0, 1-25		Level	0–150					
	Page02		adjustment of pi nt (1/100 semitone		Adjusts the	output level.					
069 MonoPitch	This is a	a pitch sh	ifter with litt	le sou	ınd varian	ce for mono	ohor	ic (single i	note) playing.		
			Knob1			Knob2			Knob3		
SALET TUNE BAL		Shift	-12—1, 0, 1–12, 24		Tone	0-10		Bal	0–100		Р
lionoPitch	Page01		tch shift amount in se ives a detuning effe		Adjusts the	tone.		Adjusts the and effect	balance betweer sounds.	oriç	ginal
		Fine	-25-1, 0, 1-25		Level	0–150		1	1	Τ	Γ
	Page02		adjustment of pi nt (1/100 semitone		Adjusts the	output level.					-

070 HPS	This intel	ligent pitch	shifter outputs t	he e	effe	ct sound w	ith the pitch shif	ted acc	cording to s	cale and key set	tings	S.
	/		Knob1				Knob2			Knob3		
	Page01	Scale	-6, -5, -4, -3, -m, m, 3, 4, 5, 6 (See Table 2)			Key	C, C#, D, D#, E, F, F#, G, G#, A, A#, B		Mix	0–100		Р
			itch of the pitch- d to the original sou		ted	Sets the tor for pitch shift	nic (root) of the sca ting.	le used		amount of effected with the original s		
	Page02	Tone	0–10			Level	0–150					
071 BendCho	This offe	Adjusts the		that		,	output level.	or and	<u> </u>	anah nata anna	rote	
or Benacho		Ct provide:	s pitch bending 1 Knob1		us	es the inpt	Knob2		processes	Knob3		#IY.
DEPTH TIME HEL		Depth	0-100			Time	0-50	Р	Bal	0-100		r
	Page01		effect depth.			Sets time b	efore effect starts.		Adjusts the and effect s	balance between	origi	ina
	Page02	Mode	Up, Down			Tone	0–10		Level	0–150		
	Pageuz	Sets directi	on of pitch bend.			Adjusts the	tone.		Adjusts the	output level.		
072 RingMod			uces a metal of sound chara			ging sour	nd. Adjusting	the "F	req" para	imeter result	s in	16
			Knob1				Knob2			Knob3		_
	Dogo01	Freq	1–50		Ρ	Tone	0–10		Bal	0-100		L
	Page01		quency of the modu	ulatio	n.	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	origi	ina
	Page02	Level Adjusts the	0–150 output level.									
073 BitCrush	This off		es a lo-fi sou	nd					I			_
Ditorusii			Knob1				Knob2		1	Knob3		
BIT SPPING BAL		Bit	4-16			SMPL	0-50	Р	Bal	0-100	1	
	Page01	Sets bit de	1			Sets sampli				balance between	origi	ina
<u>, ∧⊈, v</u>	D 00	Tone	0-10	Π		Level	0-150					
	Page02	Adjusts the	tone.			Adjusts the	output level.					
074 Bomber	This eff	ect prod	uces an explo	siv	e s	sound wh	ien picking.		FS	Trigger		
	$\sim$		Knob1				Knob2			Knob3		
FITTER DECKY BAL	Page01	PTTRN	HndGn, Arm, Bomb, Thndr			Decay	1–100	Р	Bal	0–100		
BOMBER	lugoor		f effect sound.			_	of reverberations.		and effect s	1	origi	ina
	Page02	THRSH	0-50			Power	0-30		Tone	0-10		L
·/		· ·	ect threshold.			Adjusts stre	ength of explosive	sound.	Adjusts the	tone.		_
	Page03	Level	output level.									
075 MonoSynth		fect prod	uces the sou pitch of the i				phonic (single	e-note	playing)	guitar synthe	esiz	e
	$\sim$		Knob1				Knob2			Knob3		
STATE OF LEVEL	Page01	Synth	0–100			Dry	0–100		Level	0–150		
Mono Synth	Fageor	Adjusts syr	thesizer sound lev	el.		Adjusts leve	el of original sound		Adjusts the	output level.		_
	Page02	Wave	Sine, Tri, SawUp, SawDn			Tone	0–10		Speed	0–100		P
		Sets wavef	orm.			Adjusts the	tone.		Adjusts smo	othness of pitch ch	iange	э.
076 Z-Organ	This eff	ect simu	lates an orga	n se	ou	nd.						
	$\square$		Knob1				Knob2			Knob3		
	Page01	Upper	0–100		Ρ	Lower	0–100		Dry	0–100		
Z-Orsan	i ageoi		ume of high freque	encie	s.		ume of low freque	ncies.		el of original sound	I.	_
	Page02	HPF	0-10			LPF	0-10		Level	0–150		
	1.011	Adjusts high	-pass filter cutoff fre	quer	ncy.	Adjusts low-	pass filter cutoff fre	quency.	Adjusts the	output level.		

077 Delay	This lor	ng delay has a m	aximum	ler	igth of 50	00 mS.		FS	Hold, Input	Nute
		Knob1				Knob2			Knob3	
()		Time 1-5000	>		F.B	0–100		Mix	0-100	
	Page01	Sets the delay time.			Adjusts the	feedback amount.			amount of effect d with the origina	
<b>6</b> 6666		HiDMP 0–10			P-P	MONO, P-P		Level	0-150	
	Page02	Adjusts the treble atte delay sound.	enuation of t	the	Sets delay pong.	output to mono c	r ping-	Adjusts the	output level.	
078 TapeEcho		ect simulates a ta s the pitch of the		Ch	anging th	e "Time" parar	neter	FS	InputMute	
		Knob1				Knob2			Knob3	
TapeEcho		Time 1-2000	>	Ρ	F.B	0–100		Mix	0-100	
	Page01	Sets the delay time.			Adjusts the	feedback amount.			amount of effect d with the origina	
<b>C</b>		HiDMP 0–10			Level	0–150				
	Page02	Adjusts the treble atte delay sound.	enuation of 1	the	Adjusts the	output level.				
079 ModDelay	This del	ay effect allows t	he use of	m	odulation			FS	InputMute	
		Knob1				Knob2			Knob3	
		Time 1-2000	۲.		F.B	0–100		Mix	0–100	
© 00 00 00 00 00 00 00 00 00 00 00 00 00	Page01	Sets the delay time.			Adjusts the	feedback amount.			amount of effect d with the origina	
	Page02	Rate 1-50		Ρ	Level	0–150				
	1 ageoz	Sets the speed of the	modulation.		Adjusts the	output level.				
080 AnalogDly		alog delay simula of 5000 mS.	ation has	a l	ong delay	/ with a maxi	mum	FS	Hold, Input	∕lute
	/	Knob1				Knob2			Knob3	
		Time 1–5000	5		F.B	0–100		Mix	0–100	
Analog 🖉	Page01	Sets the delay time.			,	feedback amount.		that is mixed	amount of effect with the origina	
	D 00	HiDMP 0–10			P-P	MONO, P-P		Level	0–150	
	Page02	Adjusts the treble atte delay sound.	enuation of 1	the	Sets delay pong.	output to mono c	r ping-	Adjusts the	output level.	
081 ReverseDL	This reve	erse delay is a long	delay with	۱a	maximum	length of 2500	mS.	FS	Hold, Input	√lute
	/	Knob1				Knob2			Knob3	
		Time 10-2500	>		F.B	0–100		Bal	0–100	
ReverseDelay	Page01	Sets the delay time.			Adjusts the	feedback amount.		Adjusts the and effect s	balance betwee ounds.	n origin
	D 00	HiDMP 0–10			Level	0–150				
	Page02	Adjusts the treble atte delay sound.	enuation of t	the	Adjusts the	output level.				
082 MultiTapD	This effe	ect produces sever	al delay so	our	ids with di	fferent delay ti	mes.	FS	InputMute	
	/	Knob1				Knob2			Knob3	
Multi Tap Delay		Time 1-3000	1		PTTRN	1–8		Mix	0–100	
	Page01	Sets the delay time.				pattern, which vari random patterns.	es from		amount of effect d with the origina	
• (F) • •		Tone 0–10			Level	0-150				
	Page02	Adjusts the tone.			Adjusts the				1	
083 DynaDelay	,	namic delay ad ng to the input s			olume of	the effect s	ound	FS	InputMute	
		Knob1				Knob2			Knob3	
TIME SENSE MIX		Time 1-2000	۷	-	Sense	-101, 1-10		Mix	0–100	
	Page01	Sets the delay time.			Adjusts the	effect sensitivity.			amount of effect with the origina	
(Dyna Delay)	Descolo	F.B 0–100			Level	0–150				
_	Page02	Adjusts the feedback	amount.		Adjusts the	output level.				

084 FilterDly	This ef	fect filter	s a delayed s	ound.				FS	InputMute	
			Knob1			Knob2			Knob3	
		Time	1–2000	♪	F.B	0–100		Mix	0–100	
	Page01	Sets the de	elay time.		Adjusts the	feedback amount			amount of effected with the original	
Filter		Rate	1-50	P	Depth	0–100		Reso	0–10	
DIA "III".	Page02	Sets the sp	eed of the modul	ation.	Sets the de	epth of the modula	tion.	Adjusts the resonance.	intensity of the m	odulatio
	Page03	Level	0–150							
		Adjusts the	output level.							
085 PitchDly	This eff	ect applie	es pitch shift	to a de	elayed sou	und.		FS	InputMute	
	$\square$		Knob1			Knob2			Knob3	
* PitchDelay *		Time	1–2000		Pitch	-12–12	P	Mix	0–100	
	Page01	Sets the de	.,		Sets volum delayed sou	1	plied to	Adjusts the that is mixed	amount of effected with the original	ed soun sound.
	Page02	F.B	0-100		Tone	0-10		Level	0–150	
		Adjusts the	feedback amount	t.	Adjusts the	tone.		Adjusts the	output level.	
086 StereoDly		ereo dela parately.	ay allows the	e left a	and right	delay times	to be	FS	InputMute	
	$\sim$		Knob1			Knob2			Knob3	
		TimeL	1-2000	⊅	TimeR	1–2000	>	Mix	0-100	P
	Page01	Adjusts de delay.	elay time of left	channe	Adjusts de delay.	lay time of right	channel		amount of effecte with the original	
	Page02	LchFB	0-100		RchFB	0–100		Level	0–150	
STEREO DELAY 💿	1 ageo2	Adjusts dela	y feedback of left	channel.	Adjusts dela	y feedback of right	channel.	Adjusts the	output level.	
	Page03	LchLv	0-100		RchLv	0–100				
		Adjusts del	ay output of left cl	hannel.	Adjusts del	ay output of right of	channel.			
087 PhaseDly	This ef	fect appli	es a phaser t	o a de	elayed so	und.		FS	InputMute	
			Knob1			Knob2			Knob3	
		Time	1–2000	⊅	F.B	0–100		Mix	0-100	
	Page01	Sets the de	lay time.		Adjusts the	feedback amount			amount of effecte with the original	
		Rate								
	Page02	nale	1–50	P	Color	4 STG, 8 STG, inv 4, inv 8		Level	0–150	
	Page02		1–50 eed of the modul				pe.		0–150 output level.	
088 TrgHIdDly		Sets the sp		ation.	Sets the to	inv 4, inv 8 ne of the effect typ	pe.			
088 TrgHIdDly		Sets the sp	eed of the modul	ation.	Sets the to	inv 4, inv 8 ne of the effect typ	pe.	Adjusts the	output level.	
	This de	Sets the sp	eed of the module	ation.	Sets the to	inv 4, inv 8 ne of the effect type the trigger.	pe.	Adjusts the	output level. InputMute	
		Sets the sp lay sampl	eed of the module es and holds Knob1 10-1000	ation.	Sets the to picking as Duty Sets the ti	inv 4, inv 8 ne of the effect type the trigger. Knob2 25–100 me that the same		Adjusts the FS Mix Adjusts the	output level. InputMute Knob3 0-100 amount of effecte	ed soun
	This de	Sets the sp lay sampl Time Sets the de	eed of the modul es and holds Knob1 10-1000 Hay time.	ation.	Sets the to picking as Duty Sets the ti hold sound	inv 4, inv 8 ne of the effect typ the trigger. Knob2 25–100 me that the samp is produced.		Adjusts the FS Mix Adjusts the	output level. InputMute Knob3 0-100	ed soun
	This de	Sets the sp lay sampl Time Sets the de THRSH	eed of the modul es and holds Knob1 10–1000 day time.	ation.	Sets the to picking as Duty Sets the ti hold sound Level	inv 4, inv 8 ne of the effect typ the trigger. Xnob2 25–100 me that the samp is produced. 0–150		Adjusts the FS Mix Adjusts the	output level. InputMute Knob3 0-100 amount of effecte	ed soun
	This de Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe	eed of the modul es and holds Knob1 10-1000 Hay time.	using	Sets the to picking as Duty Sets the ti hold sound Level	inv 4, inv 8 ne of the effect typ the trigger. Knob2 25–100 me that the samp is produced.		Adjusts the FS Mix Adjusts the	output level. InputMute Knob3 0-100 amount of effecte	ed soun
	This de Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe	eed of the modul es and holds Knob1 10-1000 lay time. 0-30 cct threshold.	using	Sets the to picking as Duty Sets the ti hold sound Level	inv 4, inv 8 ne of the effect typ the trigger. Xnob2 25–100 me that the samp is produced. 0–150		Adjusts the FS Mix Adjusts the that is mixed	output level. InputMute Knob3 0-100 amount of effecte d with the original	ed soun
TRIGGER HOLD DELAY	This de Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe	eed of the moduli es and holds Knob1 10-1000 day time. 0-30 act threshold.	using	Sets the to picking as Duty Sets the ti hold sound Level	inv 4, inv 8 ne of the effect typ s the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level.		Adjusts the FS Mix Adjusts the that is mixed	output level. InputMute Knob3 0-100 amount of effected with the original InputMute	
	This de Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts eff a high-de Decay	eed of the modul es and holds Knob1 10-1000 lay time. 0-30 ect threshold. finition rever Knob1	ation. using	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the Tone	inv 4, inv 8 ne of the effect tyr the trigger. Knob2 25-100 me that the samy is produced. 0-150 output level. Knob2 0-10		Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the	InputMute Knob3 0-100 amount of effected with the original InputMute Knob3	ed sound sound.
1700ER HOLD DELAT	This de Page01 Page02 This is	Sets the sp lay sampl Time Sets the de THRSH Adjusts eff a high-de Decay	• 00           eed of the modul.           eed of the modul.           es and holds           Nob1           10-1000           slay time.           0-30           ext threshold.           efinition rever           Knob1           0-100	ation. using	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the Tone	inv 4, inv 8 ne of the effect tyr the trigger. Knob2 25-100 me that the samy is produced. 0-150 output level. Knob2 0-10		Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the	InputNute Knob3 0-100 amount of effect with the original InputMute Knob3 0-100 amount of effect	ed sound sound.
1706ER HOLD DELAY	This de Page01 Page02 This is	Sets the sp lay sampl Time Sets the de THRSH Adjusts effi a high-de Decay Sets the du PreD Adjusts the	Image: Constraint of the module           eeed of the module           eeed of the module           es and holds           Knob1           10-1000           slay time.           [0-30           act threshold.           ofinition rever           Knob1           [0-100           varion of the reverb           1-200	ation. using using b. b. erations. ut of the	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the HPF	inv 4, inv 8 ne of the effect tyr the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10 tone.	ple-and-	Adjusts the FS Mix Adjusts the that is mixed Mix Adjusts the that is mixed Level	InputNute Knob3 0-100 amount of effect with the original InputMute Knob3 0-100 amount of effect with the original	ed sound sound.
17REFER HOLD DERN 10039 HD Reverb HD Reverb	This de Page01 Page02 This is Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe Adjusts effe Decay Sets the du PreD Adjust the original sound	Image: Constraint of the module eee and holds           eee and holds           Knob1           10-1000           slay time.           0-30           act threshold.           finition rever           Knob1           0-100           attor of the reverb           1-200           delay between inpland start of the reverb	ation. using using b. erations. erations. ut of the rb sound.	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the HPF Adjusts high	inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10 tone. 0-10	ple-and-	Adjusts the FS Mix Adjusts the that is mixed Mix Adjusts the that is mixed Level	InputNute Knob3 0-100 amount of effect with the original InputMute Knob3 0-100 amount of effect amount of effect with the original 0-100 amount of effect with the original 0-150	ed sound sound.
17REFER HOLD DERN 10039 HD Reverb HD Reverb	This de Page01 Page02 This is Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe Adjusts effe Decay Sets the du PreD Adjust the original sound	Image: Constraint of the module eee and holds           eee and holds           Knob1           10-1000           slay time.           0-30           act threshold.           finition rever           Knob1           0-100           attor of the reverb           1-200           delay between inpland start of the reverb	ation. using using b. erations. erations. ut of the rb sound.	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the HPF Adjusts high	inv 4, inv 8 ne of the effect tyr sthe trigger. Knob2 25-100 me that the sam is produced. 0-150 output level. Knob2 0-10 tone. 0-10 -pass filter cutoff fre	ple-and-	Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the that is mixed Adjusts the Adjusts the	output level. InputMute Knob3 [0-100 amount of effect with the original (0-100 amount of effect with the original 0-150 output level.	ed sound sound.
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Integer Hold DER       Image: Constraint of the second	This de Page01 Page02 This is Page01 Page02	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe Decay Sets the du PreD Adjusts the original sound verb effe	Image: Control of the module           eeed of the module           eeed of the module           es and holds           Knob1           10-1000           slay time.           [0-30           ext threshold.           offinition rever           Knob1           [0-100           ration of the reverb           1-200           elay between inpland start of the reverb           at start of the reverb           Knob1	b. erations the ac	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the HPF Adjusts high coustics co	inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10 tone. 0-10 pass filter cutoff fre f a concert h. Knob2 0-10	ple-and-	Adjusts the Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the that is mixed Level Adjusts the Mix Adjusts the	InputMute Knob3 0–100 amount of effect vith the original Knob3 0–100 amount of effect vith the original 0–100 amount of effect vith the original 0–150 output level. InputMute Knob3	ed sound.
17REFER HOLD DERN 10039 HD Reverb HD Reverb	This de Page01 Page02 This is Page01 Page02 This re	Sets the sp lay sampl Time Sets the de THRSH Adjusts effe Decay Sets the du PreD Adjusts the original sound verb effe Decay Sets the du PreD	Image: Control of the module           eeed of the module           eeed of the module           ees and holds           Knob1           10-1000           slay time.           0-30           act threshold.           ofinition rever           Knob1           1-000           ation of the reverb           1-200           delay between inpland start of the reverb           ct simulates           Knob1           1-30	ation. using b. constructions ut of the acc erations ut of the acc	Sets the to picking as Duty Sets the ti hold sound Level Adjusts the HPF Adjusts thigh coustics co Tone Adjusts the Level	inv 4, inv 8 ne of the effect typ the trigger. Knob2 25-100 me that the samp is produced. 0-150 output level. Knob2 0-10 tone. 0-10 pass filter cutoff fre f a concert h. Knob2 0-10	ple-and-	Adjusts the Adjusts the FS Mix Adjusts the that is mixed FS Mix Adjusts the that is mixed Level Adjusts the Mix Adjusts the	output level. InputMute Knob3 0-100 amount of effect with the original 0-100 amount of effect with the original 0-100 output level. InputMute Knob3 0-100 amount of effect amount of effect	ed sound.

091 Room	This re	verb effe	ct simulate:	s the a	acou	istics c	of a room.			FS	InputMute		
			Knob1				Knob2				Knob3		
		Decay	1-30		То	one	0-10			Mix	0-100		Ρ
■ ROOM   _ +++_   ■	Page01	Sets the du	ration of the reve	erberation	ns. Ac	djusts the	tone.				amount of effe d with the origin		
		PreD	1–100			evel	0–150						
	Page02	Adjusts the original soun	delay between i d and start of the re	nput of t everb sour	he Id. Ac	djusts the	e output level.						
092 TiledRoom	This re	verb effe	ct simulate:	s the a	acou	istics c	of a tiled roon	า.		FS	InputMute	Э	
	$\sim$		Knob1				Knob2				Knob3		
0		Decay	1–30		To	one	0-10			Mix	0-100		Ρ
Tiled Rm 242, T	Page01		ration of the reve	erberation	ns. Ac	djusts the	1				amount of effe d with the origin		
		PreD	1-100			evel	0–150						
	Page02	Adjusts the original soun	delay between i d and start of the re	nput of t everb sour	he Id. Ac	djusts the	e output level.						_
093 Spring	This re	verb effe	ct simulate	s a sp	ring	reverb				FS	InputMute	e	
			Knob1				Knob2				Knob3		
		Decay	1–30		То	one	0-10			Mix	0-100		Ρ
	Page01	Sets the du	ration of the reve	erberation	ns. Ac	djusts the	tone.				amount of effe d with the origin		
		PreD	1–100			evel	0–150						
	Page02		delay between i d and start of the re			djusts the	e output level.						
094 Arena		verb effe s a sport:		s the a	acou	istics c	of a large encl	osu	re	FS	InputMute	9	
	$\square$		Knob1				Knob2				Knob3		
p		Decay	1–30		To	one	0-10			Mix	0-100		Ρ
Arena Reverb	Page01		ration of the reve	erberation	ns. Ac	djusts the					amount of effe d with the origin		
	Page02	PreD	1–100			evel	0–150						
	Fage02		delay between i d and start of the re			djusts the	e output level.						_
095 EarlyRef	This ef	fect repro	oduces only	the e	arly	reflect	tions of rever	b.					
			Knob1				Knob2				Knob3		
DECRY SHAPE MIX		Decay	1–30		Sh	nape	-10–10			Mix	0–100		Ρ
Early Reflection	Page01	Adjusts the	e duration of the	reverb.			effect envelope.				amount of effer d with the origin		
. III i i i i i i i i i i i i i i i i i	Page02	Tone	0–10			evel	0–150						
		Adjusts the	e tone.		Ac	djusts the	e output level.						_
096 Air	This eff	fect repro	oduces the	ambie	ence	of a ro	oom, to creat	e sp	bat	ial depth			
	$\sim$		Knob1				Knob2				Knob3		
		Size	1-100		То	one	0-10			Mix	0-100		Ρ
	Page01	Sets the si	ze of the space.		Ac	djusts the					amount of effe d with the origin		
		Ref	0–10			evel	0–150						
	Page02	Adjusts the from the w	ne amount of /all.	reflecti	on Ac	djusts the	e output level.						
097 Comp+OD	This ef	fect com	bines comp	resso	r and	d over	drive.						
			Knob1				Knob2				Knob3		
	D-1 ~	Comp	0-10		Ga	ain	0–100		Ρ	Level	0-150		
	Page01	Sets comp	ressor strength.		Se	ets overd	rive gain.			Adjusts the	output level.		
Comp OD	Page02	Tone	0-100								1		

B Comp+Phsr			bines compr Knob1			Knob2			Knob3	
8475 (205)		Comp	0-10		Rate	1-50		P Level	0-150	
inn) .ÖÖ.	Page01	<u> </u>	pressor strength.			peed of the modu			output level.	
UP OS Pher			4 STG, 8 STG,		Sets the sp			Aujusts the	output level.	
Ö Ö PM	Page02	Color	inv 4, inv 8							
		Sets phase	er color.							
Comp+AWah	This eff	fect com	bines compr	esso	r and auto	-wah.				
	$\sim$		Knob1			Knob2			Knob3	
	D 01	Comp	0-10		Sense	-10-1, 1-10	1	P Level	0–150	
	Page01	Sets comp	pressor strength.		Sets auto-	wah sensitivity.		Adjusts the	output level.	
Comp@AWah	Page02	Reso	0-10							
	Fageuz	Sets resor	ance of auto-wah							
Cho+Dly	This ef	fect com	bines chorus	and	delay.					
		l	Knob1		,	Knob2			Knob3	
		ChoRt	1-50		ChoMx	0-100		P DlyTm	1-2000	⊅
e e chulhus	Page01	Adjusts ch			Adjusts ch			, Adjusts del	1	
	D 00	DlyFB	0-100		DlyMx	0–100		Level	0-150	
, <u>, , , , , , , , , , , , , , , , , , </u>	Page02	Adjusts de	lay feedback.		Adjusts de	lay mix.		Adjusts the	e output level.	
Dly+Rev	This ef	fect com	bines delay a	and re	everb.					
1 -			Knob1			Knob2			Knob3	
		DlyTm	1-2000	⊅	DlyMx	0-100		P RevMx	0-100	
₩ ₩ ₩ N DLY+REV	Page01	Adjusts de			Adjusts de			Adjusts rev		
		DIyFB	0-100		Level	0-150			1	
	Page02	Adjusts de	lay feedback.		Adjusts the	e output level.			4	
Cho+Rev	This ef	fect com	bines chorus	and	reverb.					
			Knob1			Knob2			Knob3	
		ChoRt	1-50	TT	ChoMx	0-100		P RevMx	0-100	
	Page01	Adjusts ch	orus rate.		Adjusts ch	orus mix.		Adjusts rev	erb mix.	
Cho@Rev		Level	0-150						1	
	Page02	Adjusts the	e output level.			1			1	
FLG+VCho	This ef	fect com	bines flanger	r and	vintage ch	norus.				
		1	Knob1			Knob2			Knob3	
	$\vdash$	FlgDp	0-100		FlgRt	0-50		ChoMx	0-100	
	Page01		nger depth.		Adjusts fla		12		tage chorus mix.	
TCHNGCK VICHO		ChoRt	1-50		Level	0-150				
	Page02	Adjusts vir	ntage chorus rate.		Adjusts the	e output level.				
PedalVox	This sir		a vintage Vox	wah						
PedalVox	<u> </u>		Knob1		1	Knob2			Knob3	
	$\vdash$	Freq	1-50		P DryMX	0-100		Level	0-150	
	Page01					e mix with the u	naffecte	d		
		Adjusts th	e emphasized frec	quency.	sound.			Adjusts the	e output level.	
Pedal Uax	Page02									
Pedal Vox										
Pedal Uox			a vintage CB	YBAE	3Y wah pe	dal.				
Pedal UoX	This sir	nulates	a vintago orr			14 1.4			Knob3	
PedalCry	This sir	nulates	Knob1			Knob2			KIIODO	
Pedal Jox		nulates : Freq			P DryMX	0-100		Level	0-150	
	This sir	Freq	Knob1		Adjusts the	1	naffecte	d	0–150	
Pedal Uox		Freq	Knob1		Adjusts th	0–100	Inaffecte	d		

					_						
106 PDL Pitch	Use an	expressio	on pedal to ch	an	ge	the pitch	in real time v	vith t	his effect.		
			Knob1				Knob2			Knob3	
	Page01	Color	1–9 (See Table 3)			Tone	0–10		Bend	0–100	P
PDL Pitch	Fageor		e of pitch change pression pedal.	con	trol	Adjusts the	tone.		Sets the an	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.				
107 PDL MnPit			nifter speciall hifted in real						-note play	ring), which a	llows
			Knob1				Knob2			Knob3	
	Page01	Color	1–9 (See Table 3)			Tone	0–10		Bend	0–100	Р
- Haiminpit	Fageor		e of pitch change pression pedal.	con	trol	Adjusts the	tone.		Sets the an	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
FD COMBO 2x12	Fender Twin Reverb ('65) cabinet with 2x12-inch Jensen speakers
VX COMBO 2x12	Vox AC30 cabinet with 2x12-inch Celestion Alnico speakers
US BLUES 4x10	Fender Tweed Bassman cabinet with 4x10-inch Jensen speakers
BG CRUNCH 1x12	Mesa Boogie MkIII cabinet with 1x12-inch Electro Voice speaker
HW STACK 4x12	Hiwatt Custom 100 cabinet with 4x12-inch Fane speakers
TANGERINE 4x12	Orange Graphic 120 cabinet with 4x12-inch Celestion speakers
MS CRUNCH 4x12	Marshall 1959 cabinet with 4x12-inch Celestion speakers
MS DRIVE 4x12	Marshall JCM2000 cabinet with 4x12-inch Celestion speakers
BG DRIVE 4x12	Mesa Boogie Dual Rectifier cabinet with 4x12-inch Celestion speakers
DZ DRIVE 4x12	Diezel Herbert cabinet with 4x12-inch Celestion speakers
TW ROCK 1x12	Two Rock Emerald 50 cabinet with 1x12-inch Fane speaker
MATCH 30 2x12	Matchless DC30 cabinet with 2x12-inch Celestion speakers
FD VIBRO 2x10	Fender Vibroverb ('63) cabinet with 2x10-inch Jensen speakers
OFF	No cabinet used.

# ∎Table 2

Setting	Scale used	Interval	Setting	Scale used	Interval
-6	Major	6th down	3		3rd up
-5		5th down	4	Major	4th up
-4		4th down	5		5th up
-3		3rd down	6		6th up
-m	Minor	3rd down	<u>.</u>		
m	IVIITIOI	3rd up			

# ■Table 3

Color	Pedal min	Pedal max 🚄

1	0 cent	+1 octave
2	0 cent	+2 octaves
3	0 cent	-100 cents
4	0 cent	-2 octave
5	0 cent	-00

Color	🚄 Pedal min	Pedal max 🙈
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

# 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.

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

- Set the OUTPUT parameter according to the output equipment.
- Set the Active/Passive switch according to the type of guitar pickups or the device connected directly to the **GB**.

# 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 ( $\rightarrow$ P21).

# 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**

107 types				
3				
10 patches x 10 banks				
44.1kHz				
24-bit with 128x oversampling				
24-bit with 128x oversampling				
32-bit floating point & 32-bit fixed point				
20-20 kHz +1 dB, -3 dB (10 kΩ load)				
LCD x 3				
Standard monaural phone jack         Rated input level       -20dBm         Input impedance       1MΩ         ACTIVE/PASSIVE (switch selectable)				
Standard monaural phone jack Maximum output level: Line: +5 dBm (with output load impedance of 10 k $\Omega$ or more)				
Standard stereo phone jack (line/headphones) Maximum output level: Line: +5 dBm (with output load impedance of 10 k $\Omega$ or more) Headphones: 20 mW + 20 mW (into 32 $\Omega$ load)				
XLR connector Output impedance 100 Ω (HOT-GND, COLD-GND), 200 Ω (HOT-COLD) PRE/POST (switch selectable)				
GND LIFT (switch selectable)				
,				
GND LIFT (switch selectable)				
GND LIFT (switch selectable) For FP01/FP02/FS01				
GND LIFT (switch selectable) For FP01/FP02/FS01 120dB				
GND LIFT (switch selectable) For FP01/FP02/FS01 120dB -100dBm AC adapter DC9V (center minus plug), 500 mA (ZOOM AD-16) Batteries 6 hours of continuous operation using 4 AA				
GND LIFT (switch selectable)         For FP01/FP02/FS01         120dB         -100dBm         AC adapter       DC9V (center minus plug), 500 mA (ZOOM AD-16)         Batteries       6 hours of continuous operation using 4 AA alkaline batteries				
GND LIFT (switch selectable)         For FP01/FP02/FS01         120dB         -100dBm         AC adapter       DC9V (center minus plug), 500 mA (ZOOM AD-16)         Batteries       6 hours of continuous operation using 4 AA alkaline batteries         USB       Bus power				
GND LIFT (switch selectable)         For FP01/FP02/FS01         120dB         -100dBm         AC adapter       DC9V (center minus plug), 500 mA (ZOOM AD-16)         Batteries       6 hours of continuous operation using 4 AA alkaline batteries         USB       Bus power         170mm(D) x 234mm(W) x 54mm(H)				

• 0dBm = 0.775Vrms

#	PatternName	TimSig		#	PatternName	TimSig
1	GUIDE	4/4		22	Pop3	4/4
2	8Beat1	4/4		23	Dance1	4/4
3	8Beat2	4/4	1	24	Dance2	4/4
4	8Beat3	4/4	1	25	Dance3	4/4
5	8SHFFL	4/4		26	Dance4	4/4
6	16Beat1	4/4		27	3Per4	3/4
7	16Beat2	4/4	11	28	6Per8	3/4
8	16SHFFL	4/4		29	5Per4_1	5/4
9	Rock	4/4		30	5Per4_2	5/4
10	Hard	4/4		31	Latin	4/4
11	Metal1	4/4		32	Ballad1	4/4
12	Metal2	4/4	11	33	Ballad2	3/4
13	Thrash	4/4		34	Blues1	4/4
14	Punk	4/4		35	Blues2	3/4
15	DnB	4/4		36	Jazz1	4/4
16	Funk1	4/4	11	37	Jazz2	3/4
17	Funk2	4/4	11	38	Metro3	3/4
18	Hiphop	4/4	1	39	Metro4	4/4
19	R'nR	4/4		40	Metro5	5/4
20	Pop1	4/4		41	Metro	
21	Pop2	4/4	1'			

# 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





When trying preset patches with a guitar amp, refer to the "Recommended settings for use with typical guitar amps" on the back of this page.

Manufacturer names and product names mentioned in this patch list are trademarks or registered trademarks of their respective owners and do not indicate any affiliation with ZOOM CORPORATION. All product and artist names are intended only to illustrate sonic characteristics that were used as reference in the development of this product.

		Patch Name	Comment
	0	Automatic	This patch uses the Slicer to generate an automatic backing rhythm. This is a great sound for playing guitar a
	1	RETRO LEAD	Combination of BG Crunch, OverDrive and Air. Clear lead tone with all the sustain and none of the fuzz.
	2	Z.Z	This crunch sound was inspired by ZZ Top's Doubleback. Try it with a guitar that has humbucker pickups.
	3	Nash.UK	This is a country sound that uses the modeled sound of the British Vox AC30TBX amp. Perfect with a Telec
F	4	YngDrive	This shred tone is inspired by Yngwie. Run up a harmonic minor scale on a Strat with this one!
•	5	RECT DRIVE	This high-gain sound uses Mesa Boogie Dual Rectifier modeling. An optimal gain setting and the Hall Reve
	6	TnSpank	The sound is good for country soloing when you need clear attack.
	7	<b>VX СОМВО</b>	This crunch sound uses Vox AC30TBX modeling. Turn the Stereo Chorus effect on for a wide arpege
	8	SonicFilta	A combination of HW Stack and Filter Delay to create a biting Edge type sound but with a great filter effect
	9	TANGERINE	This crunch sound uses Orange Graphic 120 modeling. The combination of the HD Reverb adds dense rever
	0	CmpCutting	This clean cutting sound combines Comp and Phaser effects. Turn the Auto Wah on to add accents to your p
	1	MATCH DRV	This drive sound uses Matchless DC30 modeling. Turn the Booster ON to crank up the gain even more.
	2	Standard	This Patch combines chorus, tape echo and spring reverb effects. Add your own favorite drive effect for a se
	3	Juice	This natural crunch sound adds a detune effect to thicken the sound. This patch is perfect for backing parts w
ſ	4	Chalk	This slightly distorted crunch sound has a characteristic mid-range. This patch stands out for its unique atmo-
G	5	Start	Inspired by Kiko Loureiro, the guitarist of Angra, this lead tone has a great playing feel.
	6	HeadCrush	This drive sound was inspired by Megadeth's Endgame album.
	7	LstRythm	This patch re-creates the rhythm guitar sound on Megadeth's My Last Words.
	8	Surf	This is a surf guitar sound with plenty of reverb. The Rack Comp effect gives it a strong attack.
	9	US BLUES	This light blues sound uses Fender Bassman modeling. The combination of Air and Room reverb effects yie
	0	DeepArpe	The combination of Chorus and Stereo Chorus effects creates a sound that is great for arpeggios.
	1	DoubleOD	The T Scream is used to make a bedrock sound for backing parts. Turn on the OverDrive, which is set to pro
	2	Guv Boost	This crunch sound uses the Governor effect. The Z Clean is ready to be used to provide a full range boost. Y
	3	HotBoxFaze	A combination of the Phaser, Hot Box and Noise Gate creates a rockin' overdriven tone with a great swell
	4	Open Wah	Combination of Comb Filter, OverDrive and FD Combo. Using the comb filter creates the sound of an open
H	5	RabbitHole	Trippy Pitch Delay. Great for dark creepy melody lines.
	6	Sliders	A combination of the Bend Chorus, Metal World and Noise Gate creates an amazingly different effect of rec
	7	SoDumbize	Infectious filtered grooves.
	8	TapGuns	These added rhythm effects can bring percussive overtones to any idea.
	9	ToneAge	For all your stoner rock needs.
	0	Echo Run	A combination of the MATCH 30, Stereo Delay & Graphic EQ creates a clean dual time delay effect with so
	1	GetWet	
	$\vdash$		Rich and wet. Adjust the Time settings for a wide range of lush tones.
	2 3	TW LEAD	This lead tone uses Two Rock modeling. The combination of analog delay and hall reverb harmonizes perfet.
	$\vdash$	Guitar1&2	Who needs another guitar player? This patch will fatten things up nicely. This patch uses T Screem to add a boost to Diazal Harbert modeling. Analog delay is added for a solo source
	4	Crw.Solo	This patch uses T Scream to add a boost to Diezel Herbert modeling. Analog delay is added for a solo sound
	5	Aphex	In your face stutter effect for percussive attack. Try hitting harmonics or single notes to create a digital glitc
	6	JAZZ BED	A combination of Delay + Reverb and Comp for complex jazz chord voicings that ring out clear and sustain
	7	Minor SWG	This patch uses the Acoustic effect to simulate a Maccaferri-type guitar popular in gypsy jazz. Use the front
	8	Translator	A combination of Cry, Step and Air. Try playing a continuous funk guitar line. The step filter adds an intere
	9	Funk JZ	Starting with a slightly crunchy drive sound, chorus is added for flavor to get a sonic character used frequent
	0	MetaFlange	A combination of Extreme Distortion, Flanger and Noise Gate provides a brutal high-gain distortion with a
	$\vdash$	UNDER WATR	A combination of Chorus + Reverb and Comp + Auto Wah for an interesting clean sound for extended chore
	2	Police	This delay sound was inspired by Walking On The Moon by The Police.
	3	Nirvana	This distortion sound was modeled after the guitar sound of Nirvana's Kurt Cobain. The combination of Dis
J	4	TriDelay	This set up includes tape echo, filter delay and mod delay effects. You can turn these delay effects on and of
	5	PurpleRain	This patch is inspired by Prince's Purple Rain. The width of the sound that you feel when you play an arpeg
	6	2000 DRIVE	This drive sound uses Marshall JCM2000 modeling. This is great for guitars with rear humbucker pickups.
	7	FlyReverse	Stereo chorus and reverse delay are combined for a clean sound.
	8	30 CLEAN	This clean tone uses Matchless DC30 modeling. The bright tone and cabinet resonance are its features.

		Det al al					
		Patch Name	Comment				
	0	TW Crunch	This crunch sound uses modeling of a Two Rock amp. The light distortion is perfect for backing parts. You can also turn OverDrive ON to get a lead tone with sustain.				
		Cut Edge	This cutting sound will remind you of 80s new wave. With the sensitivity of the compressor set so that it responds slowly, the attack is emphasized more when picking. This is perfect for guitars with single coil pickups.				
	2	VX DRIVE					
	3	JB Talk This is a re-creation of the talking modulator sound that can be heard on Jeff Beck's rendition of Superstition.					
A	4	MS FULLUP	This is a re-creation of the sound of the universally-loved vintage Marshall amp set to full-up. Compared to modern high-gain amps, this sound features a unique saturation.				
	5	Strings	This combination of slow attack and stereo delay effects give guitar chords the beautiful sound of a string section. Play long chords slowly with this one.				
	6	Elegant	Starting with a tone that stands out well, the combination of short and long delays provides an elegant sound for soloing.				
	7	Super Dry	By setting the threshold of the Noise Gate rather high, the sonic waves seem like they are being cut off in this echoless riffing sound.				
	8	HW STACK	This crunch sound uses Hiwatt Custom 100 modeling. This patch is great for use with humbucker pickups.				
	9	Horizons	A combination of Acoustic, Chorus and Delay+Reverb provides a beautiful acoustic guitar simulation with a warm lush chorus, delay and reverb that smooths out every passage. Great for acoustic rhythm and leads!				
	0	Angra	This drive sound is like the one used by Kiko Loureiro playing lead in Angra. The key is the use of a small amount of delay.				
	1	Percussive	This sound is perfect for percussive 16th-note muted backing parts. The keys are the compressor that brings outs the attack and the movement of the phaser.				
	2						
	3	MetalChor	A combination of Metal World, Graphic EQ and Stereo Chorus to create a very big and wide rock sound. Great for all rhythm and leads for that huge hard rock tone.				
R	4	Fat Boost	This fat rhythm tone adds a Booster effect to the Marshall preamp and Bassman cabinet modeling combo.				
	5	Rockabilly	The slap delay is strong in this rockabilly sound, and the tremolo adds a retro feel.				
	6	DoublePick	A punchy aggressive clean sound great for picked chords or palm-muted, percussive picking.				
	$\vdash$	MachineGun	Inspired by Jimi Hendrix's Machine Gun, this patch uses The Vibe, which is modeled after the Univibe, to generate a unique vibrato.				
	8	S.R.V.	Fender Bassman modeling is used to get Stevie Ray Vaughan's blues tone.				
	9	10 inch	Ballsy, nasty, heavy sound from all 10 inches.				
	0	Metal	This forceful metal tone brings up the low end. The Delay effect is set to ping-pong to add stereo width.				
	1	Octo Stomp	A combination of Octave, Z MP1 and Arena Reverb provides a great heavy tone with a haunting octave effect that lays underneath and a huge reverb that smooths and follows! Makes everything sound huge!				
	2	Pure Arp	This bright, clear arpeggio tone brings out lovely harmonics in a tube amp sound.				
	3	Fix My Wah	A combination of Metal world, Graphic EQ and Pedal Vox which creates a high-gain rock sound with a wah effect that is fixed to one frequency. Graphic EQ adds some bite on top. Great for rock soloing!				
C	4	Dreaming	When playing long chords, this filtered sound is like bubbles that appear and soon fade away, creating a dreamlike comfortable feeling.				
	5	NoseHarp	Percussive and melodic mono synth with a bit of flange to spice it up.				
	6	SHIMMR MAN	Combination of Acoustic, Rack Comp and HD Reverb. Shimmering clean chords ring out with acoustic guitar like qualities.				
	1	Destroyer	WARNING! WARNING! Explosive sound using Bomber effect. USE AT YOUR OWN RISK!				
	$\vdash$	STRT SHRED	Combination of OverDrive, Stereo Delay and Tangerine. This tone is designed for fast leads and sweeping arpeggios with a touch of delay.				
	9	Velvet Sky	A combination of Flanger Vintage Chorus, Delay+Reverb and the Rack Comp that produces a very lush, clean flanging effect with reverb, delay and nice compression. Great for spacious type clean passages.				
	0	BROKEN	Combination of Dirty Gate and Z Wild sounds like a failing speaker. Interesting response when playing rhythm guitar parts with chord stabs and continuous eighth note percussive strokes.				
	1	MinimalSeq					
	2	Soft Touch	The gentle, enveloping chord sound results from providing a warm clear tone with spatial effects.				
	$\vdash$	UNDERWORLD	Combination of Parametoric EQ, Resonance and LEAD ZOOM 9002. Auto-wah effect with super-low sub-bass tracking. Play a rhythmic pattern or hit one sustaining chord for interesting overtones.				
D	4	MoogMe	A warm fuzzy synth sound. Great for single-note low-end growl.				
	5	Welcome	Welcome to Space. Try single note combinations and hear the planets collide.				
	6	FuzzLead	This fuzz tone provides a strong lead tone whether you are using a guitar with single coil or humbucker pickups.				
	7	FD CLEAN	Fender Twin Reverb modeling is used for this clean sound. Turn the tremolo on to get the vibrato effect of the Twin Reverb.				
	8	Church	Spacious Organ overtones for a wide ambient soundscape.				
	9	Legato	The Air effect contributes to a solo sound that adds a reverberation like that of a wind instrument. This patch is good for legato-style playing.				
	0	U2Edge	This is a dotted eighth note delay sound like that employed by U2's guitarist The Edge. The Stereo Delay effect sends the sound left and right.				
	1	DZ DRIVE	This high-gain sound uses Diezel Herbert amp modeling. By setting the ZNR DETECT parameter to GtrIn, unnecessary noise is shut out.				
	2	MuffDrive	Great Muff for monstrous riffs with monstrous loads of gain and sustain. Adjust the Room Reverb for a more spacious beast.				
	3	NiceMiddle	By adding the distortion of the T Scream amp model, a dense mid-range tone suitable for soloing is produced.				
E	4	FD TWANG	This twangy crunch sound uses Fender Twin Reverb modeling. By putting the Spring Reverb before the amp, the reverberations are also slightly distorted.				
	5	Heavy	Noisy midrange distortion. Great for getting on top of a mix if you need to get rowdy and obnoxious.				
	6	Tsugaru	By using the pitch shifting of the Bend Chorus effect, a sound reminiscent of the traditional Japanese Tsugaru Shamisen is generated. To maximize this similarity use the rear pickup on a guitar with single coil pickups and pick eighth notes with downward strokes.				
	7	TIME BOMB	Combination of Comp, T Scream and Tangerine. A vintage amp on the verge of exploding. Great for aggressive rhythms or solos.				
	8	Luscious	A combination of the Acoustic, Arena Reverb and Filter Delay creates a beautiful acoustic sound with a great luscious reverb that swallows you whole and a Filter Delay to give some depth to the sound.				
	9	Glam-Rock	This patch uses Orange Graphic 120 modeling to capture a glam rock sound. Two Booster effects jack the mid range up hard.				



#### Comment

r playing guitar along to electro-style dance music.

fect with a Telecaster.

nd the Hall Reverb produce a sound that is excellent for riffing.

r a wide arpeggio tone.

great filter effect and lush delay to follow! Great for rhythm and chordal soloing!

adds dense reverberations

ccents to your playing.

ve effect for a setup that is suitable for all kinds of genres.

r backing parts with power chords.

r its unique atmosphere and feeling of space.

everb effects yields a three-dimensional sound.

hich is set to provide a boost, to get the sustain necessary for a lead part. Use the analog delay as you like. l range boost. You can turn the volume up without changing the gain.

ith a great swelling phaser and noise gate to quiet it up. Classic in your face Eruption type of solo sound!

ound of an open wah through a vintage tube combo. Try this when overdubbing secondary rhythm guitar tracks

rent effect of recreating sliding into a note or chord just by striking one note or chord without hand movement.

ay effect with some edge from the Graphic EQ. Great for staccato single note rhythm patterns.

armonizes perfectly.

for a solo sound.

te a digital glitch effect.

lear and sustain long.

z. Use the front humbucker with this one.

er adds an interesting effect when combined with the Auto Wah.

ter used frequently in funky jazz.

istortion with a flanger effect and gate to keep it quiet. All around great Hard Rock tone!

r extended chord voicings.

nbination of Dist 1 and Chorus represent typical effect settings that he used.

effects on and off as needed, or use all three at once if you like.

u play an arpeggio with this patch is from heavy use of the Stereo Delay effect.

All you have to do to make music with this patch is turn the volume up on your guitar!

# Fender Twin Reverb '65

This amp modeling is based on the pre-CBS "Twin Reverb" from 1965 aka "Blackface". This amp has four 7025 (12AX7), one 12AX7 and two 12AT7 total of 7 tubes for preamp section and four 6L6GC tubes for power-amp section and silicon diodes for the rectifier circuit.

FD COMBO

HW STACK

**BG DRIVE** 

FD VIBRO

Dist +

GreatMuff

The amp incorporates a diode rectifier which is believed to give a tighter sound to than a tube rectifier does, this is the reason for this characteristic glittering sound of this "Twin Reverb".

The original amp has two 12" loudspeakers by Jensen and 80 watts of output power

## **HIWATT Custom 100**

The Custom 100 was the flagship amp from HIWATT, a British manufacturer that ranks with Marshall among the British legends. Vintage HIWATT amplifiers, which were made before the mid-1980s, used high-graded military-spec parts and hand-soldered point-to-point wiring. Their sound was the epitome of clean. The pre-stage tubes were ECC83, the power tubes were the same EL34s as used by Marshall. Unlike the glittering clean sound of a Fender amp, the clean sound of a HIWATT is darker, having that characteristic British tone. Especially in the "normal" channel, turning up the volume to maximum will simply increase the sound pressure, without breakup or loss of detail. In the high-gain "brilliant" channel, slight distortion is possible by connecting a guitar with a high-output pickup such as a Les Paul. But the sound always remains detailed and transparent, allowing the listener to clearly pick out the individual notes that make up a chord.

#### **MESA/BOOGIE Dual Rectifier**

This modeling is based on Mesa/Boogie Dual Rectifier, which has five 12AX7 tubes in the preamp section, and four 6L6GC tubes in the power-amp section, the amp produces 100 watts of power. Unlike the Mark series, this model gives more priority to the tone shaping, it features a tone control circuit after the volume control. After this model hit the scene, the Mesa/Boogie brand image changed from Fusion to Metal. The distinguishing feature of this amplifier, and its namesake, is of course the rectifier. The sound provided by this modeling is based on the Dual Rectifier which has two rectifier circuits, one of which is tube based and one configured with silicone diodes. The diodes create a tight, high-powered sound, while the tube sound is more soft and warm

### Fender Vibroverb '63

This model was created in during a transition period before all Fender amp panels became black in the late 1960s beginning in 1964. Called the "Brown face," this model has a characteristic full tone that is different from the black panel models. The preamp uses five 12AX7 and one 12AT7 for a total of six tubes, while the power uses two 6L6GC tubes. The sound begins to distort when the volume is about halfway up and allows a guitarist to get a great crunch tone. The cabinet includes two 10-inch Jensen speakers that can output full lows and highs. Another characteristic of this amp is the sharp clarity of the sound when chords are played.

# MXR Distortion+

MXR, a company founded in the seventies by two high school students, is famous for stomp boxes such as the Dynacomp and Phase 90. In the early days, their products were actually built and painted in their garage and set out to dry in the garden. As the story goes, sometimes small insects would get stuck on the surface, and the lot would be shipped out as is. The pedals soon gained fame in the seventies, but eventually lost their market share to products from large companies like BOSS and others that provided high performance at lower cost. MXR disappeared from the scene, but in the late eighties, Jim Dunlop bought the company and is now producing a number of re-issue models. This pedal was loved by Randy Rhoads who made its "distortion" sound. The hard-edged tone stays detailed when playing fast solos or riffs with the muted lower strings. The music of heavy metal and hard rock wouldn't be the same without it.

# **Electro-Harmonix BIG MUFF**

There are several versions of this pedal. This model is based on the so-called "Ram's Head" from the early seventies, characterized by very long sustain and rich distortion canvas. Players from the 70's associated with this sound are Carlos Santana and Robert Fripp of King Crimson. From the late eighties into the nineties, the grunge movement took over, with Nirvana's Cobain and J. Mascis of Dinosaur Jr. using the pedal to do their thing. Compared to an ordinary fuzz pedal, the BIG MUFF offers rich mid-range and detailed distortion that maintains presence, even when playing chords. The result is a wholly unique sound somewhere between distortion and fuzz.

# VOX AC30TBX

Orange Graphic 120

Diezel Herbert

BOSS OD-1

hear a difference

**BOSS DS-1** 

**BOSS MT-2** 

requencies, for an extremely low sound.

Tracing back the long history of VOX, one finds that it all began in 1958 under the moniker "Jennings Musical Instruments" (JMI). Originally, this company built amps in the ten to fifteen watt range, but as time went on, the demand for higher-power amps became stronger. It lead to the birth of the famous AC30. The original AC30 had two Alnico Celestion 12" speakers, one EF86 tube for preamp section and one EL84 tube for power-amp section, along with a GZ34 rectifier. In the following years, musicians wanted even higher gain, and VOX responded with the Top Boost unit, an add-on that was later integrated in the AC30TBX. We decided to emulate AC30TBX.

Orange was established in London by Clifford Cooper in 1968. Their most

famous amp is the Graphic 120, which is noted for not have any writing on

the front panel, but uses illustrations instead to show all its functions. As with

nany other British amp brands, it uses two ECC83 tubes for the preamp and

four EL34 tubes for the power amp. The character of it output tone, however, is quite different from other British amps. Many guitarists of memorable

bands have used its unique crunch sound with strong cabinet resonance. Even

This modern three-channel amp features great tonal versatility, ranging from

a clean tone to heavy distortion. In particular, the extremely dry and gritty

distortion produced by channel 3 gives a piercing effect that is hard to

produce with any other amp. It is a favorite of Heavy Rock bands such as

Metallica and Slipknot. The uncluttered sound compliments the tones of a tuned-down guitar. A DEEP control allows further boosting of the bass

The "OD-1" released by BOSS in 1977 was originally developed to simulate

the natural overdrive sound of tube amplifiers, but this stomp box turned out

to be popular as a booster used in front of the real tube amplifier to get

tighter and more punchy sound with increased gain. The "OD-1" employs an

asymmetrical "clipper" section in its circuit design that uses three diodes to create the overdrive sound that both mild and rich in nuances. If you are lucky

enough to hear the sound of the real "OD-1", we invite you to try a blind test:

to turn off all of the effect modules except the "OD-1" and compare the

sound of this modeling and that of the real one. We believe that you will not

This orange-colored pedal can be called the standard of distortion sound.

Among the many distortion pedals from BOSS, it is a big-seller, along with the

SD-1. In Japan, sales of the pedal ceased at one point (although production

for the U.S. market continued), but as of 2005, the product is available again.

This was the only BOSS pedal to be reintroduced to the market in this fashion.

The sound is trebly and very "distortion-like", but it can hold its own in a

The "MT-2" ("METAL ZONE") has the most intense distortion of lot. Its

unique distortion sound has very fat mid to low range and it has a parametric

EQ in addition to the Hi and Low EQ, which is the key to the scooped metal

sound. This stomp box is reputed for its flexibility in sound because you can

not only get that scooped metal sound by cutting the mid-range and boosting

the high and low range but also the overdrive sound by reducing the gain and

boosting the mid-range. This is one of the best-selling stomp boxes among

many of the popular line-ups of BOSS products. Once connected, a Strat or

Les Paul will have the "MT-2" sound regardless of the types of guitar pickups.

It was first introduced in 1991 and is still in the BOSS's catalog today!

band. This pedal was favored by Joe Satriani and Nirvana's Kurt Cobain

now, young musicians also love it and its unique covering of orange Tolex.

# Fender BASSMAN

**VX СОМВО** 

TANGERINE

DZ DRIVE

Dist 1

MetalWRLD

When it first came out in 1951, the BASSMAN had an output of 26 watts and used a single Jensen 15-inch speaker. After various modifications, it reemerged in 1959 with a 50-watt output and four specially designed Jensen 10-inch speakers. We emulated the "bright" channel of the '59 BASSMAN. It was introduced at the 1951 NAMM show along with the Precision Bass. This amp was originally intended for bass guitars, but its reedy distortion made it a favorite with some of the early blues giants, and later with many rock guitarists. Of course, the amp continues to be used by many musicians today

# Marshall 1959 SuperLead100

This 1959 stack amp that received the nickname "PLEXI" from the material of its front panel is one of the most famous amplifiers in Rock history. Its iconic sound was used on a number of rock albums by many famous guitarists all over the world. It is no exaggeration to say that virtually everybody has heard the sound of this amp at least once. It uses three ECC83 tubes for the preamp section and four EL34 tubes in the power-amp section. Two cabinets with four Celestion 12" speakers complete the package to make this epitome of British Rock. With the volume full up, the aggressive transients and resulting distortion are complemented by smooth harmonics are a guitarist dream.

MS CRUNCH

TW ROCK

T Scream

Squeak

HotBox

# Two Rock Emerald 50

After K&M Analog Designs, LLC was founded in 1999, the company built ten amps with the K&M Analog Designs brand before establishing the TWO ROCK brand. Their tone, achieved through extensive research of vintage amps, combines both the modern and the sublime sound of vintage amps. The Emerald 50 is a 50-watt amp with two channels. The clean channel has a beautiful clean tone that resembles a Fender, and the lead channel allows you to get an extended tone with sustain. This high-end amp with point-to-point wiring is appreciated by many guitarists who are particular about their sound.

#### Ibanez TS808 OverDrive

This modeled is the early Tube Screamer that was introduced by Ibanez in 1979 for the non-US market. In Japan, it was sold under the MAXON name as the OD808. As the moniker implies, when using the pedal on its own, it produces natural distortion such as when driving a tube amp hard. But it often was used simply as a booster, with gain at 0 and volume at 10, to drive an amp up even further. Normally, this would not change the tone of the amp, but a slight peak in the mid-range gives an overall softer tone. This pedal is also famous for being used by blues guitar legend Stevie Ray Vaughan.

# **PROCO RAT**

This is one of the most widely used pedals. It has only three knobs (Distortion, Filter, Volume), but each knob has a wide adjustment range, allowing for a variety of sound types. With the distortion turned all-the-way up, the fat, up-front sound is similar to a Fuzz pedal. At the twelve o'clock position, it gets crunchy and brings out fine picking nuances, allowing the player to tweak the sound by varying the playing style. Unlike a regular tone control, the filter knob cuts the treble when turned clockwise. This is the secret behind the typical "RAT" sound. This model is simulated by the TONE parameter, but operation is reversed (treble is cut when turned counterclockwise)

# **MATCHLESS HOT BOX**

The "HOT BOX" was released as a pedal preamp bearing the MATCHLESS brand name. It uses two 12AX7A tubes for an accurate reproduction of the sound of the "MATCHLESS" guitar amplifiers. It has a compressed sound and a guick response that are distinctive characteristics of tube amps. Its sound is fat and cuts through very well. Even if you crank up the gain to get a distorted sound, you will still retain the nuances of the original guitar tone. Although it is categorized as preamp, the ideal way to get the best possible sound is to connect it, like a regular stomp box, to the input of your guitar amp. Its design features a case that is polished like a mirror and the "MATCHLESS" logo light up when you turn it on. This "HOT BOX" is literally a magic box you can get the signature sound of "MATCHLESS" amps regardless of the guitar amplifier you connect it to.

#### US BLUES **MESA/BOOGIE Mark III**

The origin of the MESA/BOOGIE amplifier was a modified Fender Princeton Randall Smith, an amp tech in San Francisco, souped up these small guitar amps to 100 watts of power and sold them to various clients. The first model was called "Mark I". The second model, the "Mark II" had lead and rhythm

channels and a 4-band EQ to give wider variety of tone. Until the model Mark II, MESA/BOOGIE amps were quite expensive, hand-made amplifiers, but the next model, the "Mark III" was more affordable. It had one 12" loudspeaker and 60 watt of power but retained all of the classic BOOGIE features: simul-power circuitry, the graphic EQ, and three (Rhythm1 Rhythm2 and Lead) separate channels We emulated this famous combo amp "Mark III"

## Marshall JCM2000

MS DRIVE

MATCH30

Governo

BG CRUNCH

"JCM2000" is based on the "PLEXI" amp (aka Old Marshall) whose rich overtones and powerful sound were legendary. It has very a flexible sound and can produce the traditional Marshall sound, modern heavy metal sound or sounds suitable for many musical genres. It has a modern Marshall's standard circuit with four ECC83 tubes in the preamp section and four EL34 tubes for the power section. It is an all-tube amplifier that can produce clean or heavily distorted sound and can be used in all kinds of musical situations. The sound is rather grainy but the response is fast and the guitar cuts through the mix very well. "JCM2000" series has two different models: the TSL and the DSL We decided to emulate "DSL-100" for this one We combined this amplifier with a "1960A" cabinet and used the Lead channel that has more distortion.

# MATCHLESS DC30

Matchless, which appeared in the late 1980s with a focus on excellence, uses Class A circuits and hand-wiring and no printed circuit boards. They lit the fuse for the explosion in interest in boutique amps that continues today. The DC-30, as its model name indicates has roots in the VOX AC30. With two channels, channel 1 uses two 12AX7 tubes for the preamp, while channel 2 uses an EF86 pentode tube to allow the operation of a unique variable tone circuit. The power amp uses four EL84 tubes, while the rectifier uses a 5AR4. The cabinet contains two specially-designed 12-inch Celestion speakers. It features a powerful, dazzling tone that belies its 30-watt power

### Marshall Guv'nor

#### The Marshall official sales talk for this distortion pedal "Guv'nor" was that you could get the distortion sound of the Marshall amps with this small stomp box. Depending on which guitar amps you combine, you can actually get the Marshall amps distortion. There are two different versions of the Guy'nor: the Britain-made ones from 1988 and the Korean-made ones from 1998. This model is based on the original version from 1988. The Guv'nor's characteristic feature is the frequency point you can tweak using the

"TREBLE" control. Even if you lower this parameter value, the sound will get fat instead of dull. As you raise the value, the sound will get sweeter and clearer

# **Dallas-Arbiter FUZZ FACE**

FuzzSmile

"FUZZ FACE" was originally released from the Dallas-Arbiter company in 1966 encased in a uniquely designed housing that literally looked like a face. It was famous for being one of legendary guitarist Jimi Hendrix's favorite pieces of gear. He combined this "FUZZ FACE" with his Marshall amps because at the time, it was hard to get distorted sound from them. The heavy, fat low end and the fuzz sound with long sustain are the characteristics of this unit. The earliest model used two PNP germanium transistors and was very different in sound from the later models using silicon transistors. The model is based on the old Fuzz Face, the earliest, most sought after version that was released



# **Recommended settings for use** with typical guitar amps

When using G3 amp modeling with a guitar amp, you should set the OUTPUT item (GLOBAL settings) appropriately for that amp. Some examples along with suitable settings for the guitar amps follow.









• When the G3 is connected to an amp's RETURN jack (G3 OUTPUT set to a POWER AMP option). the guitar amp's volume control will not effect the level of the sound from the G3. Use the G3's MASTER LEVEL (GLOBAL settings) to adjust its output volume

When using headphones or monitor speakers, set OUTPUT to DIRECT

# 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

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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.

Te×t 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
≥ 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.