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



`

Prohibited actions

\land 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.

A Precautions

Product handling

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

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

Operating environment

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

 \bigotimes 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

i.

POWER switch options

•	1000	En switch options	=
	eco:	If the GB is not used for about 25 minutes, it will be set to standby.	i
		The GB will not be set to standby as long as there is a signal input from a guitar.	i
	OFF:	When set to "OFF," the $\ensuremath{\texttt{GB}}$ can be powered from a USB bus by connecting it to a computer's USB port.	į
			ŝ

.....



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

17

Changing Various Settings





NEXT >>



GLOBAL



Using the Tuner



Disalau	Maraian		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	А	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[®] XP SP3 (32bit) or newer Windows[®] Vista SP1 (32bit, 64bit) or newer Windows[®] 7 (32bit, 64bit) 32bit: Intel[®] Pentium[®] 4 1.8GHz or faster, RAM 1GB or more 64bit: Intel[®] Pentium[®] DualCore 2.7GHz or faster, RAM 2GB or more

Intel Mac

OSX 10.5.8/10.6.5 or later Intel[®] 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

001 Comp	This co	This compressor in the style of the MXR Dyna Comp.													
			Knob1				Knob2				Knob3				
SENSE TUNE LEVEL	Daga01	Sense	0–10		Ρ	Tone	0-10			Level	0–150				
	Fageor	Adjusts the	compressor sensi	tivity	/.	Adjusts the	tone.			Adjusts the	output level.				
		ATTCK	Slow, Fast												
	Page02	Sets comp Fast or Slow	ressor attack sp /.	eed	to										
002 RackComp	This co	ompressor allows more detailed adjustment than COMP.													
	/		Knob1			Knob2			Knob3						
PackConn .		THRSH	0–50		Ρ	Ratio	1–10			Level	0–150				
	Page01	Sets the le compressor	evel that activat	Adjusts the	compression ratio).		Adjusts the	output level.						
	Page02	ATTCK	1–10												
	1 ageoz	Adjusts the	compressor attack	c rat	e.										
003 M Comp	This co	mpressor	r provides a n	nor	e r	natural so	und.								
			Knob1				Knob2	Knob3							
		THRSH	0–50		Ρ	Ratio	1–10			Level	0–150				
M Conp	Page01	Sets the le compressor	evel that activat	es	the	Adjusts the	compression ratio	Adjusts the output level.							
	Page02	ATTCK	1–10												
	1 ugoo2	Adjusts the	compressor attack	c rat	e.										
004 SlowATTCK	This eff	ect slows	s the attack o	fe	acł	n note, re	sulting in a v	ioliı	n-lil	ke perfori	mance.				
			Knob1				Knob2				Knob3				
		Time	1–50		Ρ	Curve	0–10			Level	0–150				
SIOU ATTCK	Page01	Adjusts the	attack time.			Set the curv attack.	e of volume chang	e du	ring	Adjusts the	output level.				
	Page02														
	1 uge 02				_										
005 ZNR	ZOOM's	s unique n	oise reduction	cut	s r	noise durin	g pauses in pl	ayir	ng v	without aff	ecting the ton	е.			
			Knob1				Knob2	-r	-		Knob3				
	Page01	THRSH	1–25		Ρ	DETCT	GtrIn, EfxIn			Level	0–150				
THEN LEVEL	. ugooi	Adjusts the	effect sensitivity.			Sets contro	signal detection	level		Adjusts the	output level.		_		
ZNR 🎱 🕲 🗒	Page02														

NEXT >>>

006 NoiseGate	This is a	a noise ga	ate that cuts	the s	ound duri	ng playing pa	uses				
			Knob1			Knob2			Knob3		_
		THRSH	1–25	P	Level	0-150					
Noise Gate	Page01	Adjusts the	effect sensitivity.		Adjusts the	output level.		'			
0	D 00										
	PageU2										
007 DirtyGate	This vir	tage styl	e gate featur	es a c	haracteri	stic way of cl	osing				
	\vee		Knob1			Knob2			Knob3		
		THRSH	1–25	P	Level	0-150					
SDIRTE BAS	Page01	Adjusts the	effect sensitivity.		Adjusts the	output level.		· · · · ·			
GAILE	Page02										
	1 ageuz										
008 GraphicEQ	This un	it has a si	x band equal	izer.							
	\vee		Knob1			Knob2			Knob3		
		160Hz	-12-12		400Hz	-12-12		800Hz	-12–12		
	Page01	Boosts or cut	s the low (160 Hz) fre	equency	Boosts or o	uts the low-midd	le (400	Boosts or c	uts the middle (8	800 I	Hz)
		band.	10 10		Hz) frequen	cy band.		frequency ba	and.		_
GeoTHEO	Page02	BOOSTS OF	-12-12	2 6 H 7	Boosts or (-12-12	ly high	Boosts or c	-12-12	ics	12
		frequency b	and.	2 ((12)	(6.4 kHz) fre	equency band.	ny mgn	kHz) frequer	icy band.	105	12
	Page02	Level	0–150								
	1 age 00	Adjusts the	output level.								
009 ParaEQ	This is a	a 2-band	parametric eq	qualiz	er.						
	\vee		Knob1			Knob2			Knob3		
	D01	Freq1	20Hz–20kHz		Q1	0.5, 1, 2, 4, 8, 16		Gain1	-12–12		
∕[• åBara <mark>FII</mark> \	Pageor	Adjusts cent	er frequency of E	Q1.	Adjusts EQ	1 Q.		Adjusts EQ1	gain.		
FREE A GAIN	Page02	Freq2	20Hz–20kHz		Q2	0.5, 1, 2, 4, 8, 16		Gain2	-12–12		
	9	Adjusts cent	er frequency of E	02.	Adjusts EQ2	2 Q.		Adjusts EQ2	gain.		
	Page03	Level	0–150								_
	-	Adjusts the	output level.								_
010 CombFLTR	This eff	ect uses	the comb filt	er th	at results	from fixing t	he m	odulation	of the flange	er lil	ke
		alizei.									_
		-	Knob1			Knob2			Knob3		_
FREL RESU MIX	Page01	Freq	1-50	P	Heso Adjusts the	- IU-U- IU		Mixete the	U-IUU		Ind
		This sets the	e emphasized freq	uency.	sound of the	effect.	Sonance	that is mixed	with the original s	ound	I.
CombFLTR		HiDMP	0–10		Level	0–150					
	Page02	Adjusts the	treble attenuation	of the	Adjusts the	output level.					
011 AutoWah	This off	ect varies	wah in acco	rdano	l Ne with ni	cking intensit	tv/	L			-
Autowall			Knohl			Knoh2	. y.		Knob?		_
GENKE REST LEVEL		Sense	-101, 1-10	Р	Beso	0-10		Level	0-150		-
,000,	Page01				Adjusts the	intensity of the res	sonance	A allowed a data			_
Autowah		Adjusts the	sensitivity of the e	enect.	sound.			Adjusts the d	Sulput level.		_
	Page02										_
	-										_
012 Resonance	This eff	ect varies	the resonan	ce fil	ter freque	ency accordin	ig to p	picking inte	ensity.		
	\square		Knob1			Knob2			Knob3		
SENSE RESO LEVEL	Dec. 61	Sense	-101, 110	P	Reso	0–10		Level	0–150		
	Page01	Adjusts the	sensitivity of the e	effect.	Adjusts the	intensity of the res	sonance	Adjusts the o	output level.		
		L			sound.						
	Page02				1	1		1			

013 Cry	This eff	ect varies the sound I	ike a t	alking mod	lulator.			;
	\sim	Knob1			Knob2		Knob3	
PHYLE RESU SEMSE		Range 1–10		Reso 0	-10		Sense -10-1, 1-10	P
	Page01	Adjusts the frequency range pro by the effect.	ocessed	Adjusts the interest of the interest of the source source in the source	ensity of the moo nd.	lulation	Adjusts the sensitivity of the	ne effect.
		Bal 0–100		Level 0	-150			
	Page02	Adjusts the balance between and effect sounds.	original	Adjusts the ou	itput level.			
014 M-Filter	This env	elope filter has the flavo	r of a l	MOOG MF-1	01 low pass f	ilter a	nd can be set in a wide	e range.
	\sim	Knob1			Knob2		Knob3	
		Freq 0-100	P	Sense 0	-10		Reso 0-10	
	Page01	Sets minimum frequency of e filter.	nvelope	Sets effect se	nsitivity.		Sets effect resonance.	
	Page02	Type HPF, BPF, LPF		Chara 2	Pole, 4Pole		VLCTY Fast, Slow	
l n-Fiiter	1 ageoz	Sets filter type.		Adjusts amou	nt of filter applie	d.	Sets speed of filter action.	
		Bal 0-100		Level 0	-150			
	Page03	Adjusts the balance between and effect sounds.	original	Adjusts the ou	itput level.			
015 Step	This sp	ecial effect gives the s	sound	a stepped	quality.			
	\sim	Knob1			Knob2		Knob3	
DEPTH		Depth 0-100		Rate 0	-50) P	Reso 0–10	
	Page01	Sets the depth of the modula	tion.	Sets the spee	d of the modulat	ion.	Adjusts the intensity of the resonance sound.	modulation
	Page02	Shape 0-10		Level 0	-150			
	1 dg002	Adjusts the effect envelope.		Adjusts the ou	itput level.			
016 SeqFLTR	The see	quence filter has the f	lavor	of a Z.Vex S	Seek-Wah.			
EED AWTTEN		Knob1	1 1		Knob2		Knob3	
	Page01	Adjusts sumber of seguence		Coto offect per	-o		Speed 1-50	P F
		Shapo 0.10	steps.	Boso 0	10		Lovel 0, 150	
	Page02	Sets effect sound envelope		Sets effect res	sonance		Adjusts the output level	
017 BrdmELTR	This filt	er effect changes cha	ractor	randomly				
			acter		K LO		16 10	
		Knob1			Knob2		Knob3	
	Page01	Speed 1-50	D P	Hange U			Reso U-IU	
RATO				Chara 2	Polo 4Polo	eu.	Bal 0 100	
	Page02				1010, 41010		Adjusts the balance betwee	en original
		Sets filter type.		Adjusts amou	nt of filter applie	ji.	and effect sounds.	
	Page03	Level 0–150						
018 Booster	The bo	oster increases signal	gain	o make the	e sound mo	re po	werful.	
		Knob1			Knob2		Knob3	
		Gain 0–100	P	Tone 0	-100		Level 0-150	
Booster	Page01	Adjusts the gain.		Adjusts the to	ne.		Adjusts the output level.	
	D02							
	Pageuz							
019 OverDrive	Simula "overdr	tion of the Boss OD- ive" title.	-1, th	e compact	t effect box	that	was the first to ta	ake the
		Knob1			Knob2		Knob3	
		Gain 0–100	Р	Tone 0	-100		Level 0-150	
DuarDraua	Page01	Adjusts the gain.		Adjusts the to	ne.		Adjusts the output level.	
	D 00							
	Page02			l '			· · · · · · · · · · · · · · · · · · ·	

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	F	Tone	0–100		Level	0–150			
T Screan	Tageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
	Page02											
021 Governor	Simulat	tion of the	e Guv'nor dis	tortio	on effect f	rom Marshal	Ι.					
			Knob1			Knob2			Knob3			
		Gain	0–100	F	Tone	0–100		Level	0–150			
	Pageui	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
Governor	Page02											
	1 ageoz											
022 Dist +	Simulat	ion of the	MXR distorti	on+	effect that	made distort	ion po	pular worl	dwide.			
			Knob1			Knob2			Knob3			
		Gain	0-100	F	Tone	0-100		Level	0-150			
	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
		,			, ·			, ,				
	Page02											
023 Dist 1	Simula	tion of the	Boss DS-1	disto	rtion peda	I, which has	been	a long-sel	ler.			
	\sim		Knob1			Knob2			Knob3			
		Gain	0–100	F	Tone	0–100		Level	0–150			
Dist 1	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
	D02											
	Pageuz											
024 Squeak	Simulat	tion of the	popular Pro	Co F	at famous	for its edgy	distor	tion sound	Ι.			
	\sim		Knob1			Knob2			Knob3			
	Page01	Gain	0–100	F	Tone	0–100		Level	0–150			
Squeak	Fageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
	Page02											
	1 49002											
025 FuzzSmile	Simulat and sm	tion of the ashing so	e Fuzz Face, v ound.	whic	n has mad	e rock histor	y with	its humo	rous panel d	esign		
			Knob1			Knob2			Knob3			
GIN LEVEL	D01	Gain	0–100	F	Tone	0–100		Level	0–150			
(EuzzShile)	Pageor	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
	Page02											
	1 age 02											
026 GreatMuff	Simulat world f	tion of the or its fat,	e Electro-Har sweet fuzz s	mon ounc	x Big Mut I.	f, which is lo	ved b	y famous	artists aroun	d the		
			Knob1			Knob2			Knob3			
		Gain	0–100	F	Tone	0–100		Level	0–150			
GreatMuff	Pageui	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.			
	Daga 02											
	Fage02											
027 MetalWRLD	Simula lower r	tion of the nidrange.	e Boss Metal	Zon	e, which is	s characterize	ed by	long susta	ain and a pov	verful		
			Knob1			Knob2			Knob3			
		Gain	0–100	F	Tone	0-100		Level	0–150			
MetalWRLD	Page01	Adjusts the	gain.	· · · ·	Adjusts the	tone.		Adjusts the	output level.			
	Degrado											
	Page02											

028 HotBox	Simula	tion of the	e compact M	atchl	ess Hotbo	ox pre-ampli	fier wit	h a built-ir	n tube.	
	\sim		Knob1			Knob2			Knob3	
		Gain	0–100	P	Tone	0-100		Level	0–150	
	PageUI	Adjusts the	gain.		Adjusts the	tone.		Adjusts the o	output level.	
HOTDOX	Page02									
	1 age 02									
029 Z Clean	ZOOM	original u	nadorned cle	ean s	ound.					
	\square		Knob1			Knob2			Knob3	
	Page01	Gain	0–100	P	Tone	0–100		Level	0–150	
7 Plann		Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.	
	Page02									
030 Z MP1	An orig JCM80	jinal soun 0.	d created by	mer	ging chara	acteristics o	f an A	DA MP1 a	and a MARS	HALL
From Tour Line	\square		Knob1			Knob2			Knob3	
	Page01	Gain	0–100	P	Tone	0–100		Level	0–150	
		Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.	
Z MP1 🔘	Page02									
		<u> </u>			<u> </u>					
031 Z Bottom	A high	gain soun	id that emph	asıze	s low and	middle freq	uencie	S.		
8 8 8 8			Knob1		-	Knob2			Knob3	
	Page01	Gain Adjusts the	0-100		Ione	0-100		Level	0-150	
BOILTON		Aujusts the			Aujusts trie	tone.		Aujusts the t	Julpul level.	
	Page02									
	1									
032 Z Dream	A high channe	gain sour I.	nd for lead p	layin	g based o	n the Mesa	Boogi	e Road K	ing Series II	Lead
032 Z Dream	A high channe	gain sour I.	nd for lead p	layin	g based o	n the Mesa Knob2	Boog	I e Road Ki	ing Series II Knob3	Lead
032 Z Dream	A high channe	gain sour I. Gain	nd for lead p Knob1 0-100	layin;	y based o	n the Mesa Knob2 0-100	Boogi	e Road K	ing Series II Knob3 0-150	Lead
032 Z Dream	A high channe Page01	gain sour I. Gain Adjusts the	nd for lead p Knob1 0-100 gain.	layin P	y based o Tone Adjusts the	n the Mesa Knob2 0-100 tone.	Boogi	e Road K	Knob3 0-150 Dutput level.	Lead
032 Z Dream	A high channe Page01 Page02	gain sour I. Gain Adjusts the	Nob1 Knob1 0-100 gain.	layin P	y based o Tone Adjusts the	n the Mesa Knob2 0-100 tone.	Boogi	e Road Ki	ing Series II Knob3 0-150 putput level.	Lead
	A high channe Page01 Page02	gain sour I. Gain Adjusts the	Moblematic for lead p	layin P	y based o	n the Mesa Knob2 0-100 tone.	Boogi	e Road K Level Adjusts the d	Ing Series II Knob3 0–150 Dutput level.	Lead
032 Z Dream	A high channe Page01 Page02 An orig	gain sour I. Gain Adjusts the inal high g	nd for lead p <u>Knob1</u> 0-100 gain. gain sound b	layin P	y based o Tone Adjusts the ed from lo	n the Mesa Knob2 0-100 tone.	Boogi	e Road K Level Adjusts the e	Ing Series II Knob3 0-150 Dutput level.	Lead
032 Z Dream	A high channe Page01 Page02 An orig	gain sour Gain Adjusts the inal high g	nd for lead p Knob1 0-100 gain. gain sound b Knob1	layin P alanc	based o Tone Adjusts the ed from lo	n the Mesa Knob2 [0-100 tone. Dow to high fi Knob2	Boogi	e Road K Level Adjusts the e cies.	Knob3 0-150 output level.	Lead
032 Z Dream	A high channe Page01 Page02 An orig Page01	gain sour Gain Adjusts the inal high g Gain	Market for lead p Knob1 (0-100 gain. gain. gain sound b Knob1 (0-100	layin P alanc	based o Tone Adjusts the ed from lo	n the Mesa Knob2 [0-100 tone. Dow to high fi Knob2 [0-100	Boogi	e Road K Level Adjusts the c cies.	Knob3 0-150 output level. Knob3 0-150	
032 Z Dream	A high channe Page01 Page02 An orig Page01	gain sour Gain Adjusts the inal high g Gain Adjusts the	Market for lead p Knob1 (0-100 gain. gain sound b Knob1 (0-100 gain.	laying	based o Tone Adjusts the ed from lo Tone Adjusts the	n the Mesa Knob2 0-100 tone. bw to high fi Knob2 0-100 tone.	Boogi	e Road K Level Adjusts the e Cies.	Knob3 0–150 Dutput level. Knob3 0–150 0–150 Jutput level.	Lead
032 Z Dream	A high channe Page01 Page02 An orig Page01 Page01 Page02	gain SOUI I. Gain Adjusts the inal high g Gain Adjusts the	Mobiler (constraints) (constra	layini P alanc	g based o Tone Adjusts the ed from lo Tone Adjusts the	n the Mesa Knob2 0-100 tone. bw to high fi Knob2 [0-100 tone.		e Road K Level Adjusts the c cies.	Knob3 0–150 Dutput level. Knob3 0–150 0–150 Dutput level.	Lead
032 Z Dream	A high channe Page01 Page02 An orig Page01 Page02 A crunc	gain sour I. Gain Adjusts the inal high g Gain Adjusts the	Market for lead p Knob1 [0-100 gain. [0-100 gain. [0-100 gain. [0-100 gain. [0-100 gain. [0-100 gain. [0-100 gain. [0-100 [0-100 [0-100 [0-100] [0-100 [0-100] [0-100 [0-100] [0-	laying P alanc	Tone Adjusts the ed from la Adjusts the adjusts the ad	n the Mesa Knob2 0-100 tone. 0-100 Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the d cies. Adjusts the d	Knob3 0–150 0-150 0–150 0–150 0–150 0–150 0–150	Lead
032 Z Dream CONTREAM 033 Z Scream CREAM 034 Z Neos	A high channe Page01 Page02 An orig Page01 Page01 A crunc	gain Sour I. Gain Adjusts the Gain Adjusts the Cain Adjusts the	Modeled on Knob1	alance	g based o Tone Adjusts the ed from lo Tone Adjusts the bund of a	n the Mesa Knob2 0-100 tone. 0-100 Knob2 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 tone. 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2 0-100 Knob2	Boogi	e Road K Level Adjusts the cies.	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	Lead
032 Z Dream	A high channe Page01 Page02 An orig Page02 A crunc	Gain Adjusts the Gain Adjusts the Gain Adjusts the Cain	Knob1 (0-100 gain. [0-100 gain. [0-100 gain. [0-100 gain. [0-100 [0-100 [0-100 [0-100 [0-100 [0-100	laying	a based o Tone Adjusts the ed from lo Tone Adjusts the built of a Tone	n the Mesa Knob2 0-100 tone. DW to high fi Knob2 0-100 tone. 0-100 tone. Modified VCC Knob2 0-100	Boogi	e Road K Level Adjusts the cies. Level Adjusts the O.	Knob3 0–150 Dutput level. Knob3 0–150 Sutput level. Knob3 0–150	Lead
032 Z Dream	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01	gain Sour I. Gain Adjusts the inal high g Gain Adjusts the 	Knob1 (0-100 gain. ga	alanco	a based o Tone Adjusts the ed from la Tone Adjusts the built of a Tone Adjusts the Adjusts the built of a	n the Mesa Knob2 0-100 tone. Wto high fi Knob2 0-100 tone. Mnodified VC Knob2 0-100 tone. 0-100 tone. 0-100 tone.	Boogi	e Road K Level Adjusts the Cies. Level Adjusts the O.	Knob3 0–150 Dutput level. Knob3 0–150 Dutput level. Knob3 0–150 Dutput level.	Lead
032 Z Dream COST Z Scream 033 Z Scream COST Z Neos COST Z Neos	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page01 Page01	Gain Adjusts the Gain Adjusts the Gain Adjusts the Cain Adjusts the Gain	Market for lead p	laying	Subsed of a second	n the Mesa Knob2 0-100 tone. 0-100 Knob2 0-100 tone. 0-100 tone. 0-100 Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the d Cies. Level Adjusts the d C. Level Adjusts the d	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	Lead
032 Z Dream Constraints of the second secon	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page01 Page02	gain sound in Adjusts the	Market for lead p	laying P alanc alanc P P P P P P P P P P P P P P P P P P P	based o Tone Adjusts the ded from Id Tone Adjusts the double of a Tone Adjusts the double of a Tone Adjusts the double of a	n the Mesa Knob2 0-100 tone. 0-100 Knob2 0-100 tone. 0-100 tone. 0-100 Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the e cies. Adjusts the d Adjusts the d C. Level Adjusts the d	Knob3 0–150 0–150 0–150 0–150 0–150 0–150 0–150 0–150 0–150	
032 Z Dream Constraints of the second secon	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page01 Page02 A high	gain sound Gain Adjusts the Gain Adjusts the Ch sound in Ch sound in Gain Adjusts the gain sound	Market for lead p	laying P alanc the s P	based o Tone Adjusts the ded from lo Tone Adjusts the ded from lo Tone Adjusts the ded from lo de	n the Mesa Knob2 0-100 tone. 0-100 Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the e cies. Adjusts the d Adjusts the d C. Level Adjusts the Adjusts the	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	
032 Z Dream Constraints of the second secon	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page01 Page02 A high	gain sour Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain	Market for lead p	laying	Subsed of a second	n the Mesa Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the d cies. Level Adjusts the d C. Level Adjusts the d	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	
032 Z Dream COREAM 033 Z Scream 034 Z Neos 034 Z Neos 1 Neos 2 Neos 2 Neos 2 Neos	A high channe Page01 Page02 An orig Page01 Page02 A crunc Page01 Page01 Page02 A high	gain sour Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain Adjusts the Gain Adjusts the	Knob1 0-100 gain. gain sound b Knob1 0-100 gain. gain. 0-100	laying	Jone Adjusts the Adjusts the Adjusts the Adjusts the Adjusts the Cound of a Adjusts the A	n the Mesa Knob2 0-100 tone. 0	Boogi	e Road K Level Adjusts the d Cies. Level Adjusts the d Construction Adjusts the d Level Adjusts the d Adjusts the d	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	
032 Z Dream COREAM 033 Z Scream 034 Z Neos 034 Z Neos 035 Z Wild 035 Z Wild	A high channe Page01 Page02 An orig Page02 A crunc Page01 Page01 Page01 Page01 Page01 Page01	gain sour Gain Adjusts the Gain Adjusts the Gain Adjusts the Ch sound r Gain Adjusts the Gain Adjusts the Gain Adjusts the Ch sound r Gain Adjusts the Ch sound r Ch sou	Knob1 0-100 gain. gain sound b Knob1 0-100 gain. gain. 0-100	layini P alanc P b the s	Jone Adjusts the Adjusts the Adjusts the Adjusts the Adjusts the Cound of a	n the Mesa Knob2 0-100 tone. 0		e Road K Level Adjusts the d Cies. Level Adjusts the d Cies. Adjusts the d Level Adjusts the d Adjusts the d	Knob3 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150 0-150	

NEXT >>>

036 Lead	Lead a	bright and	smooth dis [.]	torti	ion s	ound.	:				
		-	Knob1				Knob2			Knob3	
GAIN TONE LEVEL		Gain	0-100		P Ton	ne	0-100		Level	0-150	
	Page01	Adjusts the a	ain.		Adi	iusts the t	one.		Adjusts the	output level.	
LEAD			-						.,		
	Page02										
037 ExtremeDS	This dis	tortion eff	ect boasts t	he h	nighe	est gain	in the world		1		
			Knob1				Knob2			Knob3	
A 000	Page01	Gain	0–100		P Ton	ne	0–100		Level	0–150	
EXTREME	Tageor	Adjusts the g	ain.		Adj	usts the t	one.		Adjusts the	output level.	
O DISTORTION	Page02										
	1 age 02										
038 Aco.Sim	This eff	ect chang	es the tone (of a	n ele	ectric g	uitar to make	it so	und like a	n acoustic gu	uitar.
	/		Knob1				Knob2			Knob3	
ACOUSTIC		Тор (0–100		P Boo	dy	0–100		Level	0–150	
000	Page01	Adjusts the acoustic guita	unique string t ars.	one	of Adji guit	usts the b tars.	ody resonance of a	coustic	Adjusts the	output level.	
	Page02										
	1 49002										
039 FD COMBO	Modele	d sound of	a Fender Tw	in R	evert	b ('65),	which is loved	d by g	uitarists in	n various genr	es.
	/		Knob1				Knob2			Knob3	
	Page01	Gain	0–100		P Tub	be	0–100		Level	0-150	
	1 ageo1	Adjusts the g	ain.		Adj	usts tube	amp compression	۱.	Adjusts the	output level.	
TO COMPOSIT	Dogo02	Trebl (0–100		Mic	ldl	0–100		Bass	0–100	
	Fageuz	Adjusts volun	ne of high freque	ncies	i. Adji	usts volun	ne of middle freque	encies.	Adjusts volu	me of low freque	ncies.
	Page02	Prese (0–100		CA	В	See Table 1				
	1 ageos	Adjusts volume	e of super-high frequ	Jencie	es. Sel	ects cabir	net.				
040 VX COMBO	Modele	ed sound c	of a VOX AC3	0 c	ombo	o ampli	fier operating	g in C	lass A.		
	/		Knob1				Knob2			Knob3	
	D01	Gain (0–100		P Tub	be	0–100		Level	0–150	
	Fageor	Adjusts the g	ain.		Adj	usts tube	amp compression	۱.	Adjusts the	output level.	
WY COMBOOXS	Page02	Trebl	0–100		Mic	ldl	0–100		Bass	0–100	
	1 ageuz	Adjusts volun	ne of high freque	ncies	i. Adji	usts volun	ne of middle freque	encies.	Adjusts volu	me of low freque	ncies.
	Page02	Prese (0–100		CA	В	See Table 1				
	1 age03	Adjusts volume	e of super-high frequ	Jencie	es. Sel	ects cabir	net.				
041 US BLUES	Crunch	sound of	a Fender Twe	eed	Bass	sman.					
			Knob1				Knob2			Knob3	
	Daga 01	Gain	0–100		P Tub	be	0–100		Level	0–150	
	Fageor	Adjusts the g	ain.		Adj	usts tube	amp compression	۱.	Adjusts the	output level.	
	Dogo02	Trebl (0–100		Mic	ddl	0–100		Bass	0–100	
	Fageuz	Adjusts volun	ne of high freque	ncies	i. Adji	usts volun	ne of middle freque	encies.	Adjusts volu	me of low freque	ncies.
	Page02	Prese (0–100		CA	В	See Table 1				
	i ageos	Adjusts volume	e of super-high frequ	Jencie	es. Sel	ects cabir	net.				
042 BG CRUNCH	Crunch	sound of	a Mesa Boo	gie	MkIII	l comb	o amp.				
	/		Knob1				Knob2			Knob3	
	D01	Gain (0–100		P Tub	e	0–100		Level	0–150	
	PageUI	Adjusts the g	ain.		Adj	justs tube	amp compression	ı.	Adjusts the	output level.	
	Dog-00	Trebl	0–100		Mic	ddl	0–100		Bass	0–100	
	Pageu2	Adjusts volun	ne of high freque	ncies	. Adji	usts volun	ne of middle freque	ncies.	Adjusts volu	me of low freque	ncies.
(<u>)</u>	Dog-00	Prese (0–100		CA	В	See Table 1				
	rageu3	Adjusts volume	of super-high frequ	Jencie	es. Sel	ects cabir	net.				

	Madale		n da ru i l	linuatt Cur	atom 100 all t	uba a	nonlifier f	rama tha LIK	-	
043 HW STACK		eu souna of the lege	endary I	πivvaπ Cus	siom iou all-t	s eau	implitter t	rom the UK.		_
		Knob1			Knob2			Knob3		
	Page01	Gain 0–100	P	Tube	0–100		Level	0–150		
·HW STACK·	-	Adjusts the gain.		Adjusts tube	e amp compression	n.	Adjusts the	output level.		
AND THE LEVEL	Page02	Irebl 0-100		Middl	0-100		Bass	0-100	Ļ	
		Adjusts volume of high free	quencies.	Adjusts volui	me of middle freque	encies.	Adjusts volu	ime ot low treque	encie	s.
	Page03	Prese U-100	(Calanta anhi	See lable I					
		Adjusts volume of super-right	riequencies		. , .		L			
044 IANGERINE	This me	odels the Orange Gr	raphic 1	20 with it	s unique desi	gn ar	id sound.			
		Knob1			Knob2			Knob3		
	Page01	Gain 0–100	P	Tube	0–100		Level	0-150		
TANGERINE		Adjusts the gain.		Adjusts tube	e amp compression	۱. ۱	Adjusts the	output level.		_
	Page02	Trebl 0-100		Middl	0-100		Bass	0-100		
		Adjusts volume of high free	quencies.	Adjusts volu	me of middle freque	encies.	Adjusts volu	ime of low freque	encies	s.
	Page03	Prese 0-100		CAB	See lable 1					
		Adjusts volume of super-night	requencies	Selects cabi						
045 MS CRUNCH	The cru	inch sound of the M	larshall	1959 that	has given bir	th to	many leg	ends.		
		Knob1			Knob2			Knob3		
	Page01	Gain 0–100	P	Tube	0–100		Level	0–150		
MS CRUNCH		Adjusts the gain.		Adjusts tube	e amp compressior	ı.	Adjusts the	output level.		
EACH TURE LEVEL	Page02	Trebl 0–100		Middl	0–100		Bass	0–100		
		Adjusts volume of high free	quencies.	Adjusts volu	me of middle freque	encies.	Adjusts volu	ime of low freque	encies	S.
	Page03	Prese 0-100		CAB	See Table 1					
		Adjusts volume of super-high f	frequencies	Selects cabi	inet.					
046 IVIS DRIVE	The hig	in gain sound of a JO	CM200	0 Marshal	l stack amp.					
046 IVIS DRIVE	The hig	h gain sound of a Ju Knob1	CM200	0 Marshal	l stack amp. Knob2			Knob3		
046 MIS DRIVE	Page01	n gain sound of a JC Knob1 Gain 0–100	СМ200	0 Marshal Tube	Stack amp. Knob2 0–100		Level	Knob3 0–150		
MS DRIVE	Page01	n gain sound of a JC Knob1 Gain 0–100 Adjusts the gain.	CM200	0 Marshal Tube Adjusts tube	Stack amp. Knob2 0-100 a amp compression	n.	Level Adjusts the	Knob3 0–150 output level.		
MS DRIVE	Page01	In gain sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100	CM200	0 Marshal Tube Adjusts tube Middl	stack amp. Knob2 0-100 amp compression 0-100	n.	Level Adjusts the Bass	Knob3 0–150 output level. 0–100		
	Page01 Page02	M gain Sound of a JC Knob1 Gain 0–100 Adjusts the gain. Trebl 0–100 Adjusts volume of high free	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volu	I stack amp. Knob2 0–100 a amp compression 0–100 me of middle freque	n. encies.	Level Adjusts the Bass Adjusts volu	Knob3 0–150 output level. 0–100 me of low freque	encies	s.
MS DRIVE	Page01 Page02 Page03	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volu CAB	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1	n. encies.	Level Adjusts the Bass Adjusts volu	Knob3 0–150 output level. 0–100 me of low freque	encies	s.
	Page01 Page02 Page03	Main Sound Of A Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh free	CM200	0 Marshal Tube Adjusts tube Middl Adjusts voluu CAB Selects cabi	stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 inet.	n. encies.	Level Adjusts the Bass Adjusts volu	Knob3 0–150 output level. 0–100 me of low freque	encies	s.
MS DRIVE	Page01 Page02 Page03 The hig	Main Sound Off A Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh free Note that the prese Note that the prese Note that the prese Note the pres	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volut CAB Selects cabi Boogie Du	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 inet. ual Rectifier recent	encies.	Level Adjusts the Bass Adjusts volu annel (Vin	Knob3 0-150 output level. 0-100 me of low freque tage mode).	encie	S.
MS DRIVE	Page01 Page02 Page03 The hig	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f h gain sound of the Knob1	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volur CAB Selects cabi Boogie Du	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 inet. ial Rectifier re Knob2	n. encies.	Level Adjusts the Bass Adjusts volu	Knob3 0–150 output level. 0–100 mme of low freque tage mode). Knob3	encie	S.
045 MIS DRIVE	Page01 Page02 Page03 The hig	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f h gain Sound of the Knob1 Gain 0-100	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volur CAB Selects cabi Boogie Du Tube	stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque met. all Rectifier ref Knob2 0-100	n. encies.	Level Adjusts the Bass Adjusts volu annel (Vin Level	Knob3 0-150 0-utput level. 0-100 me of low freque tage mode). Knob3 0-150		S.
045 MS DRIVE	Page01 Page02 Page03 The hig Page01	Main Sound Of a JC Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh free Adjusts volume of superhigh free 0-100 Adjusts volume of superhigh free Adjusts volume of superhigh free 0-100 Adjusts volume of superhigh free Adjusts volume of superhigh free 0-100 Adjusts volume of superhigh free Knob1 Gain 0-100 Adjusts the gain.	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volur CAB Selects cabi Boogie Du Tube Adjusts tube	stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque see Table 1 inet. anal Rectifier rec Knob2 0-100 amp compression	n. encies. ed cha	Level Adjusts the Bass Adjusts volu annel (Vin Level Adjusts the	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level.		s.
045 MIS DRIVE	Page01 Page02 Page03 The hig Page01 Page01 Page01 Page01 Page01	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts twolume of high free Prese 0-100 Adjusts volume of superhigh f h gain SOUND of the Gain 0-100 Adjusts the gain. Trebl 0-100	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volur CAB Selects cabi Boogie Du Tube Adjusts tube Middl	stack amp. Knob2 0-100 amp compression 0-100 me of middle freque me of middle freque sear Table 1 inst. ana Rectifier rec Knob2 0-100 amp compression 0-100	n.	Level Adjusts the Bass Adjusts volu annel (Vin Level Adjusts the Bass	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100		S.
045 MIS DRIVE	Page01 Page02 Page03 The hig Page01 Page02	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f th gain SOUND of the Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free	CM200	0 Marshal Tube Adjusts tube Middl Adjusts volui CAB Selects cabi Orgie Du Tube Adjusts tube Middl Adjusts tube	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 inet. Ial Rectifier re Knob2 0-100 0-100 0-100 me of middle freque me of middle freque	n. encies. ed cha	Level Adjusts the Bass Adjusts volu annel (Vin Level Adjusts the Bass Adjusts volu	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100 me of low freque		S.
046 MIS DRIVE	Page01 Page02 Page03 The hig Page01 Page02 Page02 Page03	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f h gain sound of the Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of high free	CM200	O Marshal Tube Adjusts tube Middl Adjusts volui CAB Selects cabi Tube Adjusts tube Middl Adjusts tube Middl Adjusts volui CAB Signature CAB CAB	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 Inst. Ial Rectifier rec Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1	encies.	Level Adjusts the Bass Adjusts volu annel (Vin Level Adjusts the Bass Adjusts volu	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100 me of low freque		S.
046 MS DRIVE	Page01 Page02 Page03 The hig Page01 Page02 Page02 Page03	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f h gain Sound of the Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f	CM200	O Marshal Tube Tube Adjusts tube Middl Adjusts volu CAB Selects cabi Tube Adjusts tube Middl Adjusts tube Middl Adjusts volu CAB Selects cabi	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque see Table 1 inet. Ial Rectifier rec Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 inet.	ed cha	Level Adjusts the Bass Adjusts volu Level Level Adjusts the Bass Adjusts volu	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100 me of low freque		S.
045 MS DRIVE	Page01 Page02 Page03 The hig Page01 Page02 Page03 The 3-c	Knob1 Gain 0-100 Adjusts the gain. Trebl Trebl 0-100 Adjusts volume of high free Prese Prese 0-100 Adjusts volume of superhigh f h gain sound of the Knob1 Gain Adjusts volume of superhigh f h gain sound of the Knob1 Gain Adjusts volume of superhigh f Adjusts volume of high free Prese 0-100 Adjusts volume of high free Prese Prese 0-100 Adjusts volume of superhigh f h gain sound	CM200	O Marshal Tube Adjusts tube Middl Adjusts volu CAB Selects cabi Orgie Du Adjusts tube Adjusts tube Middl Adjusts volu CAB Selects cabi a Diezel	I stack amp. Knob2 0-100 a amp compression and Rectifier rec Knob2 0-100 a amp compression a amp compression a amp compression a stack amp compression a stack amp compression b comparison b com	n. ancies.	Level Adjusts the Bass Adjusts volu Level Level Adjusts the Bass Adjusts volu	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100 me of low freque de German	guit	s. s.
048 MS DRIVE	Page01 Page02 Page03 The hig Page03 Page03 The 3-cc amplifie	Knob1 Gain 0-100 Adjusts the gain. Trebl Trebl 0-100 Adjusts volume of high free Prese Prese 0-100 Adjusts volume of superhigh f h gain sound of the Gain 0-100 Adjusts the gain. Trebl Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f chight spain State spain. Trebl 0-100 Adjusts volume of superhigh free Prese 0-100 Adjusts volume of superhigh f	CM200	O Marshal Tube Adjusts tube Middl Adjusts volui CAB Selects cabi Orgie DL Adjusts tube Middl Adjusts tube Middl Adjusts tube adjusts cabi Selects cabi a Diezel De indepe	I stack amp. Knob2 0-100 c-100 seamp compression of middle freque see Table 1 inet. Ial Rectifier rec Knob2 0-100 amp compression 0-100 See Table 1 inet. Herbert, whice ndent channe	n. encies. n. n. encies.	Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu	Knob3 0-150 0-100 me of low freque tage mode). Knob3 0-150 0-150 0-100 me of low freque de German	encie:	s.
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048 MS DRIVE	Page01 Page02 Page02 Page03 The hig Page01 Page02 Page03 The 3-c amplifie	In gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f h gain Sound of the Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f Adjusts volume of superhigh f Adjusts volume of superhigh f channel high gain Score r er that allows contro Knob1 Gain 0-100	CM200	O Marshal Tube Adjusts tube Middl Adjusts volui CAB Selects cabi Boogie DL Tube Adjusts tube Middl Adjusts volui CAB Selects cabi a Diezel Tube Tube Tube	I stack amp. Knob2 0-100 a amp compression o-100 see Table 1 int. Ial Rectifier re Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 int. Herbert, whic ndent channe Knob2 0-100 0-100	and characteristic structure in the set of t	Level Adjusts the Bass Adjusts volu annel (Vin Level Adjusts the Bass Adjusts volu a handma	Knob3 0-150 output level. [0-100 me of low freque tage mode]. Knob3 0-150 output level. [0-100 me of low freque de German Knob3 0-150	gui1	s.
048 MS DRIVE	Page01 Page02 Page02 Page03 The hig Page01 Page03 The 3-c amplifie Page01	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f h gain Sound of the Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f schannel high gain sc er that allows contro Knob1 Gain 0-100	CM200	0 Marshal Tube Adjusts volui CAB Selects cabi Tube Adjusts volui CAB Tube Adjusts tube Middl Adjusts volui CAB Selects cabi Selects cabi Dieze Independent Tube Adjusts tube Tube Adjusts volui CAB Selects cabi Adjusts volui CAB Selects cabi CAB	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque See Table 1 net. al Rectifier re Knob2 0-100 a amp compression 0-100 See Table 1 inet. Herbert, whice ndent channee Knob2 0-100 a amp compression a amp compression	and characteristic structures and ch	Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu Level Adjusts the	Knob3 0-150 output level. 0-100 me of low freque (0-100 Knob3 0-150 output level. 0-100 Me of low freque (0-100 Me of low freque 0-150 0-150 output level.		s. s. s.
048 MS DRIVE	Page01 Page02 Page02 Page03 The hig Page01 Page02 Page03 The 3-c amplific Page01 Page01 Page01	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of super-high f h gain sound of the Knob1 Gain 0-100 Adjusts volume of super-high f Adjusts volume of super-high f channel high gain sco- er that allows controc Knob1 Gain 0-100 Adjusts volume of super-high f channel high gain sco- er that allows controc Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100	CM200	0 Marshal Tube Tube Adjusts volu Adjusts volu CAB Selects cabi Tube Adjusts tube Middl Adjusts volu CAB Selects cabi GAB Selects cabi CAB Selects cabi Tube Adjusts volu CAB Selects cabi Tube Adjusts volu CAB Selects cabi CAB Se	I stack amp. Knob2 0-100 a mp compression of middle freque see Table 1 inet. al Rectifier rec Knob2 0-100 a mp compression 0-100 me of middle freque See Table 1 inet. Herbert, whice ndent channee Knob2 0-100 a mp compression 0-100 b model	n. and chains and cha	Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu Level Adjusts the Bass	Knob3 0-150 output level. 0-100 me of low freque (0-150 output level. 0-100 me of low freque (0-100 me of low freque (0-100 Mob3 0-150 output level. 0-100	gui1	s. s.
045 MIS DRIVE	Page01 Page02 Page03 The hig Page03 Page01 Page02 Page03 The 3-c amplifie Page01 Page01	n gain Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f h gain Sound of the Knob1 Gain 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f channel high gain sc er that allows controo Gain 0-100 Adjusts volume of superhigh f channel high gain. Trebl 0-100 Adjusts volume of superhigh f channel high gain. Trebl 0-100 Adjusts volume of high free Channel high gain.	CM200	0 Marshal Tube Tube Adjusts tube Middl Adjusts volu CAB Selects cabi Orgie Du Tube Adjusts tube Middl Adjusts volu Tube Adjusts tube Middl Adjusts tube Middl Adjusts tube Middl Adjusts tube Adjusts tu	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque see Table 1 inet. al Rectifier rec Knob2 0-100 a amp compression 0-100 me of middle freque Knob2 0-100 0-	n. 	Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu	Knob3 0-150 output level. 0-100 me of low freque dage mode). Knob3 0-150 output level. 0-100 me of low freque de German Knob3 0-150 output level. 0-150 me of low freque		s. s. tar
048 MS DRIVE	Page01 Page02 Page03 The hig Page03 Page03 The 3-c amplifie Page01 Page01 Page02 Page02 Page02 Page02	Matrix Sound of a JC Knob1 Gain 0-100 Adjusts the gain. Trebl 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f h gain sound of the Knob1 Gain 0-100 Adjusts volume of superhigh f Adjusts volume of superhigh f 0-100 Adjusts volume of high free Adjusts volume of superhigh f 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of superhigh f Adjusts volume of superhigh f Chonon Adjusts volume of superhigh f Adjusts volume of superhigh f Chonon Adjusts volume of superhigh f Adjusts volume of superhigh f Chonon Adjusts volume of superhigh f Cain 0-100 Adjusts volume of superhigh f Adjusts volume of superhigh f Chonon Adjusts volume of high free Regin 0-100 Adjusts volume of high free Prese 0-100 Adjusts volume of high free	CM200	O Marshal Tube Adjusts tube Middl Adjusts volu CAB Selects cabi Odditation Adjusts tube Middl Adjusts tube Middl Adjusts volu CAB Selects cabi a Diezel I Tube Tube Adjusts volu CAB	I stack amp. Knob2 0-100 a amp compression 0-100 me of middle freque see Table 1 inet. Ial Rectifier rec Knob2 0-100 0-100 a amp compression 0-100 me of middle freque see Table 1 inet. Herbert, whice ndent channe Knob2 0-100 a amp compression 0-100 me of middle freque see Table 1 inet.	h is a language of the second	Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts the	Knob3 0-150 output level. 0-100 me of low freque tage mode). Knob3 0-150 output level. 0-100 me of low freque de German Knob3 0-150 output level. 0-100 me of low freque	gui1	s. s. tar

NEXT >>>

049 TW ROCK	This cr boutiqu	his crunch sound uses the drive channel of a Two Rock Emerald 50, an American outique amplifier.										
	/		Knob1			Knob2			Knob3			
	Page01	Gain	0–100	P	Tube	0–100		Level	0–150			
	1 ageo1	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.			
	Page02	Trebl	0–100		Middl	0–100		Bass	0–100			
TW ROCK	1 ugeoz	Adjusts volu	me of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low frequer	ncies.		
	Page03	Prese	0–100		CAB	See Table 1						
	1 age 00	Adjusts volum	e of super-high frequence	uencies	Selects cab	inet.						
050 MATCH 30	Modele	ed sound	of a DC-30 (c	hann	el 1), the	Matchless fla	gship	combo a	mp.			
			Knob1			Knob2			Knob3			
	Page01	Gain	0–100	P	Tube	0–100		Level	0–150			
		Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.			
MATCH30	Page02	Trebl	0–100		Middl	0–100		Bass	0–100			
		Adjusts volu	me of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low frequer	ncies.		
	Page03	Prese	0–100		CAB	See Table 1						
		Adjusts volum	ie of super-high freqi	uencies	Selects cab	inet.						
051 FD VIBRO	Modele	ed sound	of a '63 Fend	ler Vil	proverb.							
	/		Knob1			Knob2			Knob3			
	Page01	Gain	0–100	P	Tube	0–100		Level	0–150			
	- ugooi	Adjusts the	gain.		Adjusts tub	e amp compressio	n.	Adjusts the	output level.			
FDVIBRO	Page02	Trebl	0–100		Middl	0–100		Bass	0–100			
		Adjusts volu	me of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low frequer	ncies.		
	Page03	Prese	0–100		CAB	See Table 1						
		Adjusts volum	e of super-high frequence	uencies	Selects cab	inet.						
052 Tremolo	This eff	ect varies	the volume	at a i	egular rat	te.						
			Knoh1			Karah 0			Ka a b O			
			141051			KNODZ			KN0D3			
TEPTH RATE LEVEL	Page01	Depth	0–100		Rate	0-50) P	Level	0–150			
	Page01	Depth Adjust the d	0–100 epth of the modul	lation.	Rate Adjusts the	0–50 rate of the module	▶ P ition.	Level Adjusts the	0–150 putput level.			
	Page01 Page02	Depth Adjust the d Wave	0–100 epth of the modul UP 0–UP 9, DWN 0–DWN 9, TRI 0–TRI 9	lation.	Rate Adjusts the	0–50 rate of the modula	▶ P ition.	Level Adjusts the	0–150 output level.			
Frendro O	Page01 Page02	Depth Adjust the d Wave Sets the mo	0–100 epth of the modul UP 0–UP 9, DWN 0–DWN 9, TRI 0–TRI 9 dulation waveform	lation.	Rate Adjusts the	0-50 rate of the modula	♪ P ation.	Level Adjusts the	0–150 output level.			
17enolo 053 Slicer	Page01 Page02 This eff	Depth Adjust the d Wave Sets the mo	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic	lation.	Rate Adjusts the	0-50 rate of the module	▶ P ation.	Level Adjusts the o	0–150 butput level.			
053 Slicer	Page01 Page02 This eff	Depth Adjust the d Wave Sets the mo ect create	De-100 Oe-100 Oepth of the modul UP O-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic Knob1	lation. n.	Rate Adjusts the und by cc	0-50 rate of the modula ontinuously sl	P ation.	Level Adjusts the o	Knob3 0–150 Doutput level.			
053 Slicer	Page01 Page02 This eff	Depth Adjust the d Wave Sets the mo ect create	Child Comparison of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20	ation. n. cal so	Rate Adjusts the und by cc	ntinuously sl Knob2	P ation. icing 1 >	Level Adjusts the of the input. Bal	Knob3 0–150 boutput level. Knob3 0–100			
053 Slicer	Page01 Page02 This eff Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p	0-100 epth of the moduli UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform action	n.	Rate Adjusts the und by cc Speed Sets modul	nob2 0-50 rate of the modula pontinuously sl <u>Knob2</u> 1-50 ation speed.	▶ P ation.	Level Adjusts the the input. Bal Adjusts the and effect sc	Knob3 0-150 Dutput level. Knob3 0-100 Delance between punds.	P original		
053 Slicer	Page01 Page02 This eff Page01 Page01 Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, THI 0-TRI 9 dulation waveform BS a rhythmic Knob1 1-20 attern. 0-50	n.	Rate Adjusts the und by cc Speed Sets modul Level	Chool Content of the module of	P ation. icing 1 p	Level Adjusts the the input. Bal Adjusts the and effect so	Knob3 0-150 0-150 Nnob3 0-100 0-100 Dalance between punds.	P original		
053 Slicer	Page01 Page02 This eff Page01 Page01 Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effect	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attern. 0-50 ct threshold.	ation.	Rate Adjusts the und by cc Speed Sets modul Level Adjusts the	Chool Content of the module on the module on the module on the module on the module of	▶ P attion.	Level Adjusts the of the input. Bal Adjusts the and effect so	Knob3 0-150 0-150 wutput level. Knob3 0-100 balance between punds.	P original		
Image: Constraint of the sector of the s	Page01 Page02 This eff Page01 Page02 This eff	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effec ect adds	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TM 0-TRI 9 dulation waveform as a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing val	n. cal so	Rate Adjusts the und by cc Speed Sets modul Level Adjusts the	Knob2 G-50 Trate of the module Knob2 Knob2 J-50 ation speed. O-150 output level. Dound.	▶ P ation. Image: state	Level Adjusts the r the input. Bal Adjusts the and effect so	Knob3 0–150 Mutput level. Knob3 0–100 balance between punds.	P original		
053 Slicer	Page01 Page02 This eff Page01 Page02 This eff	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effec ect adds	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TM 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing val Knob1	n. cal so	Rate Adjusts the und by cc Speed Sets modul Level Adjusts the to the so	Chool Content of the module of	▶ ₽ ation. Image: state	Level Adjusts the the input. Bal Adjusts the and effect sc	Knob3 0-150 0-150 Knob3 0-100 0-100 balance between punds. Knob3	P original		
053 Slicer	Page01 Page02 This eff Page01 Page02 This eff Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effe ect adds Rate	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform ess a rhythmic Knob1 1-20 attern. 0-50 ct threshold. a phasing var Knob1 1-50	ation. n. cal so riation	Rate Adjusts the Und by CC Speed Sets modul Level Adjusts the to the so Color	Knob2 0-50 rate of the modula Image: state of the modula Knob2 1-50 ation speed. 0-150 output level. Ound. Knob2 4 STG, 8 STG, inv 4, inv 8	> P ition. Image: state s	Level Adjusts the Adjusts the the input. Bal Adjusts the and effect sc Level	Knob3 0-150 0-150 0-150 Knob3 0-100 balance between punds.	P original		
053 Slicer	Page01 Page02 This eff Page01 Page02 This eff Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effe ect adds Rate Sets the spe	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform est a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing van Knob1 1-50 eed of the modula	ation. n. cal so riation p P	Rate Adjusts the Und by ccc Speed Sets modul Level Adjusts the to the so Color Sets the tor	Knob2 G-50 rate of the module Mob2 Knob2 I1-50 ation speed. G-150 output level. Dound. Knob2 4 STG, 8 STG, inv 4, inv 8 me of the effect typ.) P ition.	Level Adjusts the the input. Bal Adjusts the and effect sc Level Adjusts the	Knob3 0–150 Knob3 C-100 Knob3 0–100 Knob3 0–100 C-100	P original		
053 Slicer	Page01 Page02 This eff Page01 Page02 This eff Page02 This eff Page01 Page01 Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effe ect adds Rate Sets the spe	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TIN0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing var Knob1 1-50 ed of the modula	ation. ation. ation. ation. ation. p P tion.	Rate Adjusts the und by ccc Speed Sets modul Level Adjusts the to the So Color Sets the tor	Knob2 0-50 rate of the modula pontinuously sl Knob2 1-50 ation speed. 0-150 output level. output level. output. Knob2 4 STG, 8 STG, inv 4, inv 8 e of the effect type	> P tition.	Level Adjusts the the input. Bal Adjusts the and effect sc Level Adjusts the	Knob3 0–150 Knob3 0–100 Knob3 0–100 Knob3 0–100 Choose the set ween punds.	P original		
053 Slicer	Page01 Page02 This eff Page01 Page02 This eff Page01 Page01 Page02	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effer ect adds Rate Sets the spe	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TIN 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing val Knob1 1-50 eed of the modula	ation. ation. n. cal so riation ↓ P tion.	Rate Adjusts the und by cc Speed Sets modul Level Adjusts the to the so Color Sets the tor	Code Construction	> P ition.	Level Adjusts the the input. Bal Adjusts the and effect sc Level Adjusts the	Knob3 0–150 Knob3 0–100	P original		
Image: Constraint of the series of the se	Page01 Page02 This eff Page01 Page02 This eff Page01 Page01 Page02 This vik	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effe ect adds Rate Sets the spe Sets the spe	0-100 epth of the modul (JP 0-UP 9, DWN 0-DWN 9, TIN 0-TRI 3 a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing van Knob1 1-50 eed of the modula features uniq	iation. ation. n. cal sco riation ♪ P ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Rate Adjusts the Und by CC Speed Sets modul Level Adjusts the to the so Color Sets the tor Sets the tor Sets the tor	Knob2 0-50 rate of the module Image: state of the module Knob2 1-50 ation speed. 0-150 output level. Dound. Knob2 4 STG, 8 STG, inv 4, inv 8 ne of the effect type) P iction. icting 1 icting 2 icting 3	Level Adjusts the the input. Bal Adjusts the and effect sc Level Adjusts the	Knob3 0–150 Knob3 Knob3 0–100 balance between unds. Knob3 0–150 butput level.	P original		
Image: Constraint of the series of the se	Page01 Page02 This eff Page02 This eff Page02 This eff Page01 Page01 This vit	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effe ect adds Rate Sets the spe Sets the spe	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TIN0-TRI 9 dulation waveform as a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing var Knob1 1-50 ed of the modula features uniq Knob1	iation. atio	Rate Adjusts the Adjusts the Und by ccc Speed Sets modul Level Adjusts the to the So Color Sets the tor Description Color Se) P iction.	Level Adjusts the the input. Bal Adjusts the and effect sc Level Adjusts the	Knob3 0-150 Knob3 0-100 Knob3 0-100 balance between punds. Knob3 0-150 butput level. Knob3	P original		
053 Slicer 054 Phaser (Phaser) 055 The Vibe	Page01 Page02 This eff Page01 Page02 This eff Page01 Page01 This vik	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effer ect adds Rate Sets the spe Sets the spe Sets the spe	C-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TIN 0-TRI 9 dulation waveform as a rhythmic Knob1 1-20 attem. 0-50 ct threshold. a phasing val Knob1 1-50 features uniq Knob1 0-50	iation. ation. n. cal so riation ♪ P tion. ue ut ue ut	Rate Adjusts the Adjusts the Und by cc Speed Sets modul Level Adjusts the to the so Color Sets the tor Depth	Chool Constraints of the module of the effect type of the effect type of the effect type of the module of the mod	> P ittion.	Level Adjusts the the input. Bal Adjusts the and effect so Level Adjusts the Bias	Knob3 0-150 Knob3 0-100 Knob3 0-100 knob3 0-150 butput level. Knob3 0-150 butput level. Knob3 0-100	P original		
053 Slicer 053 Slicer 054 Phaser 054 Phaser 055 The Vibe	Page01 Page02 This eff Page01 Page02 This eff Page01 Page02 This vik	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effet ect adds Sets the spe Sets the spe Sets the spe Speed Sets modula	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attern. 0-50 ct threshold. a phasing val Knob1 1-50 features uniq Knob1 0-50 ction speed.	ation. ation. n. cal so riation ♪ P tion. ue un ue un P	Rate Adjusts the Adjusts the Speed Sets modul Level Adjusts the to the S Color Sets the tor Sets the tor Depth Sets the de	Code Code Code Code Code Code Code Code	b P tition. Image: Constraint of the second	Level Adjusts the beam of the input. Bal Adjusts the and effect so Level Adjusts the Bias Adjusts bias	Knob3 0-150 Knob3 0-100 Knob3 0-100 balance between punds. Knob3 0-150 butput level. Knob3 0-150 butput level. 0-150 butput level. 0-100 of waveform modu	P original		
Image: Constraint of the ser 053 Slicer Image: Constraint of the ser Image: Conser Image: Constrate	Page01 Page02 This eff Page01 Page01 Page01 Page01 Page02 This eff Page01 Page01 Page02 This vik Page01 Page01 Page01	Depth Adjust the d Wave Sets the mo ect create PTTRN Sets effect p THRSH Adjusts effer ect adds Rate Sets the spe Sets the spe Sets the spe Sets modula	0-100 epth of the modul UP 0-UP 9, DWN 0-DWN 9, TRI 0-TRI 9 dulation waveform es a rhythmic Knob1 1-20 attern. 0-50 ct threshold. a phasing vai Knob1 1-50 features uniq Knob1 0-50 tion speed. 0-100	iation. 	Rate Adjusts the Adjusts the Speed Sets modul Level Adjusts the to the se Color Sets the tor Depth Sets the de Mode		b P tition.	Level Adjusts the Adjusts the Bal Adjusts the ad effect s Level Adjusts the Bias Adjusts the Bias Adjusts bias Level	Knob3 0-150 Knob3 0-100 Knob3 0-100 Knob3 0-100 0-150 0-100 0-150	P original corig		

056 DuoPhase	This off	ect com	ines two nh:	sor	2						-
050 Duoi nase			Knoh1	1301). 	Knob?			Knob2		_
			KIIODI			1-50			KIIODS		
	Page01	RateA	1-50		RateB	SyncA, RvrsA		Level	0-150		
Duo-Phase		Adjusts spe	ed of LFO A modu	lation	. Adjusts spe	ed of LFO B modu	ulation.	Adjusts the	output level.		_
RATE A DATE A LEVEL	Page02	ResoA	0–10		ResoB	0–10		Link	Seri, Para, STR		
		Adjusts reso	nance of LFO A mor	dulatio	n. Adjusts reso	nance of LFO B mo	dulation.	Sets how tw	/o phasers are con	nect	.ed.
	Page03	DPT_A	1-100		DPT_B	1–100					
		Adjusts dep	th of LFO A modu	lation	Adjusts dep	oth of LFO B modu	ilation.				_
057 WarpPhase	This ph	aser has	a one way ef	fect							
(1010) 00% 1000			Knob1			Knob2			Knob3		
1 20 0 0 0 1	Page01	Speed	1–50	⊅	P Reso	0–10		Level	0–150		
WarpPhaser		Sets modula	ation speed.		Sets effect	resonance.		Adjusts the	output level.		
~======	Page02	DRCTN	Go, Back								
		Sets direction	on of warping.								_
058 Chorus	This eff	ect mixes	a shifted pito	:h wi	th the orig	inal sound to a	add m	ovement	and thickness	5.	
	/		Knob1			Knob2			Knob3		
		Depth	0–100		Rate	1–50		Mix	0–100		Р
CHORUS	Page01	Sets the de	oth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the that is mixed	amount of effecter with the original s	d sou	und ป.
	Page02	Tone	0–10		Level	0-150					
		Adjusts the	tone.		Adjusts the	output level.					_
059 Detune	By mix	ing an efl	ect sound th	at is	slightly p	itch-shifted w	ith th	e original	sound, this	effe	€Ct
	type na	is a choru	s effect with	out	nuch sens	se of modulat	ion.				
			Knob1			Knob2			Knob3	_	
000	Page01	Cent	-25-25		PreD	0-50		Mix	0-100	Ш	Р
Detune	1 ageo1	Adjusts the are fine incre	detuning in cents ements of 1/100-se	, whic miton	h Sets the pr e. sound.	e-delay time of th	e effect	Adjusts the that is mixed	amount of effecte with the original s	d sou sound	und d.
:0=œ=		Tone	0-10		Level	0-150				\square	
	Page02	Adjusts the	tone.		Adjusts the	output level.				· · · ·	
060 VintageCE	This is	a simulat	ion of the BC	SS	CE-1.						
			Knob1			Knob2			Knob3		
		Comp	0-9	ГТ	Rate	1-50		Mix	0-100		Р
	Page01	Sata the eer	aitivity of the corre		Coto tho on	and of the module	tion	Adjusts the	amount of effecter	d sou	und
		Sets the set	sitivity of the comp		i. Sets the sp		luon.	that is mixed	with the original s	ound	1.
	Page02	Level	0-150								
		Adjusts the	output level.								_
061 StereoCho	This is	a stereo (chorus with a	clea	ar tone.						
			Knob1			Knob2			Knob3		
	Daga01	Depth	0–100		Rate	1–50		Mix	0-100		Ρ
StereoLho	Pageor	Sets the de	oth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the that is mixed	amount of effecter with the original s	d sou ounc	und 1.
	Page02	Tone	0–10		Level	0–150					
		Adjusts the	tone.		Adjusts the	output level.					_
062 Ensemble	This is	a chorus	ensemble that	at fe	atures thre	e-dimension	al mo	vement.			
			Knob1			Knob2			Knob3		
		Depth	0–100		Rate	1–50		Mix	0–100		Ρ
Ensembles	Page01	Sets the de	oth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the that is mixed	amount of effected with the original s	d sou ounc	und d.
	Dage 02	Tone	0–10		Level	0–150			_		Π
	rageu2	Adjusts the	tone.		Adjusts the	output level.					

NEXT >>>

										_	_
063 VinFLNGR	This an	alog flang	ger sound is s	simila	to an M	XR M-117R.					
	/		Knob1			Knob2			Knob3		
DEETH RATE REED		Depth	0–100		Rate	0–50	♪ P	Reso	-101, 0,110		
	Page01	Sets the de	pth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the resonance.	intensity of the mo	dulat	ion.
	D 00	PreD	0–50		Mix	0–100		Level	0–150		_
	PageU2	Sets pre-de	lay time of effect s	sound.	Adjusts the that is mixed	amount of effected I with the original s	d sound ound.	Adjusts the	output level.		
064 Flanger	This is a	a jet sour	nd like an AD	A flan	ger.	, i i i i i i i i i i i i i i i i i i i					_
	/		Knob1			Knob2			Knob3		
(学校学)	D01	Depth	0–100		Rate	0–50	♪ P	Reso	-101, 0,110		
Flanger	Pageor	Sets the de	pth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the resonance.	intensity of the mo	dulat	ion
	Page02	PreD	0-50		Mix Adjusts the	0-100		Level	0-150		
	1 49002	Sets pre-de	lay time of effect s	sound.	that is mixed	I with the original s	ound.	Adjusts the	output level.		
065 DynaFLNGR	The vo dynami	lume of c flanger.	the effect so	ound	changes	according to	the	input sigi	nal level with	n th	is
	/		Knob1			Knob2			Knob3		
DEFTH PATE SEMSE	Page01	Depth	0–100		Rate	0–50	♪ P	Sense	-101, 110		
	- ugooi	Sets the de	pth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the	sensitivity of the	effec	t.
	Page02	Reso	-10-1, 0, 1-10		Level	0–150					_
	1 ageoz	resonance.	intensity of the mo	dulation	Adjusts the	output level.					
066 Vibrato	This eff	fect automatically adds vibrato.									
	/		Knob1			Knob2			Knob3		
	D 01	Depth	0-100		Rate	0–50) P	Bal	0–100		_
Vibrato	PageUI	Sets the de	pth of the modula	tion.	Sets the sp	eed of the modula	tion.	Adjusts the and effect s	balance between ounds.	origi	nal
	Page02	Tone	0-10		Level	0-150					_
007 0 /	T I: (1	Adjusts the	tone.		Adjusts the	output level.					_
067 Octave	inis eπ	ect adds	sound one o	ctave	and two	octaves belo	w the	e original s	souna.		_
1776 1773 AV		Oot1	Knob1		Oot2	Knob2	<u> </u>	Dec	Knob3		
	Page01	Adjusts the	e level of the source	Ind one	Adjusts the	level of the source	nd two	Adjusts the	volume of the una	ffec	ted
\odot		Chara	0-100		Tone	0-10		Level	0-150		_
	Page02	Adjusts effe	ect character.		Adjusts the	tone.		Adjusts the	output level.		_
068 PitchSHFT	This eff	ect shifts	the pitch up	or do	wn.						
	\vee		Knob1			Knob2			Knob3		
SILET TIME BIL		Shift	-12—1, 0, 1–12, 24		Tone	0–10		Bal	0-100		Ρ
Pitch SHF1	PageUI	Adjusts the pi Selecting "0" g	tch shift amount in se gives a detuning effec	mitones. t.	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	origi	nal
		Fine	-25—1, 0, 1–25		Level	0–150					
	Page02	Allows fine amount in Ce	adjustment of pit ent (1/100 semitone)	ch shift steps.	Adjusts the	output level.					
069 MonoPitch	This is a	a pitch sh	nifter with littl	e sou	nd varian	ce for monop	honi	c (single r	ote) playing.		
	/		Knob1			Knob2			Knob3		
	Page01	Shift	-12—1, 0, 1–12, 24		Tone	0–10		Bal	0–100		Ρ
MonoPitch	. 49001	Adjusts the pi Selecting "0" g	tch shift amount in se gives a detuning effec	mitones. t.	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	origi	nal
	Descolo	Fine	-25-1, 0, 1-25		Level	0–150					
	Pageu2	Allows fine amount in Ce	adjustment of pit ent (1/100 semitone)	ch shift steps.	Adjusts the	output level.					
				1000	· · · · · · · · · · · · · · · · · · ·						

070 HPS	This intel	ligent pitch	shifter outputs t	he ef	ect sound w	ith the pitch shif	ted acc	cording to s	cale and key set	tings.
	\vee		Knob1			Knob2		<u> </u>	Knob3	
	Page01	Scale	-6, -5, -4, -3, -m, m, 3, 4, 5, 6 (See Table 2)		Кеу	C, C#, D, D#, E, F, F#, G, G#, A, A#, B		Mix	0–100	Р
		Sets the pi sound added	tch of the pitch- to the original sou	shifte Ind.	d Sets the to for pitch shi	nic (root) of the sca fting.	le used	Adjusts the that is mixed	amount of effected I with the original s	d sound ound.
	Page02	Tone	0–10		Level	0–150				
		Adjusts the	tone.		Adjusts the	output level.			1	
071 BendCho	This effe	ct provides	pitch bending t	that u	ses the inpu	it signal as trigg	er and	processes	each note sepa	rately.
			Knob1			Knob2			Knob3	
	D01	Depth	0–100		Time	0–50	P	Bal	0-100	
REMOCHU-	PageUI	Adjusts the	effect depth.		Sets time b	efore effect starts.		Adjusts the and effect s	balance between ounds.	original
	Page02	Mode	Up, Down		Tone	0–10		Level	0–150	
		Sets direction	on of pitch bend.		Adjusts the	tone.		Adjusts the	output level.	
072 RingMod	I his effect produces a metallic ringing sound. Adjusting the "Freq" parameter results in a drastic change of sound character.									
			Knob1			Knob2			Knob3	
	Page01	Freq	1–50	F	Tone	0–10		Bal	0-100	L.
RingMod	Fageor	Sets the free	uency of the modu	ulation	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	original
	Page02	Level	0-150							
	TI: (1	Aujusts the	output level.							
073 BitCrush	This en	ect creat	es a lo-ti soui	na.						
P		21	Knob1	<u>г г</u>	01.401	Knob2			Knob3	
O O O Bit Crush	Page01	Bit Sets bit dep	4–16 th.		SMPL Sets sampl	0-50 ing rate.	P	Bal Adjusts the	0–100 balance between	original
_~₫∿		Tone	0-10		Level	0-150		and enects	ounus.	
	Page02	Adjusts the	tone.		Adjusts the	output level.			1	
074 Bomber	This eff	ect produ	ices an explo	sive	sound wh	ien picking.		FS	Trigger	
			Knob1			Knob2			Knob3	
TTR HOP BL	Page01	PTTRN	HndGn, Arm, Bomb, Thndr		Decay	1–100	Р	Bal	0–100	
BOMBER		Sets type of	effect sound.		Sets length	of reverberations.		Adjusts the and effect s	balance between ounds.	original
	Page02	THRSH Adjusts offs	U-50		Power Adjusts stre	U-30		Ione Adjusts the	0-10 topo	
					Aujusts stre	engui or explosive :	souna.	Aujusts the	tone.	
	Page03	Adjusts the	output level.						I	
075 MonoSynth	This ef that de	fect produtects the	uces the sou pitch of the i	nd c nput	f a mono signal.	ohonic (single	-note	playing)	guitar synthe	esizer
	\sim		Knob1			Knob2			Knob3	
SYNTH DRY LEVEL	Page01	Synth	0–100		Dry	0–100		Level	0–150	
MonoSynth	1 ageo1	Adjusts syn	hesizer 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	Р
		Sets wavefo	erm.		Adjusts the	tone.		Adjusts smo	othness of pitch ch	ange.
076 Z-Organ	This effect simulates an organ sound.									
	Knob1 Knob2 Knob3					Knob3				
000	Page01	Upper Adjusts volu	0–100 me of high freque	ncies	Adjusts volu	0–100 Ime of low frequer	ncies	Dry Adjusts leve	0–100 of original sound	
2-Ur9an		HPF	0-10		LPF	0-10		Level	0-150	
	Page02	Adjusts high-	pass filter cutoff fre	quenc	/. Adjusts low-	pass filter cutoff fre	quency.	Adjusts the	output level.	

077 Delay	This lor	ng delay h	nas a maximu	ım	en	igth of 50	00 mS.		FS	Hold, InputM	ute	
		<u> </u>	Knob1			-	Knob2			Knob3		_
DELAY		Time	1-5000	♪		F.B	0–100		Mix	0-100		Ρ
	Page01	Sets the de	lay time.			Adjusts the	feedback amount.		Adjusts the that is mixed	amount of effected with the original s	d sou	und d.
• • • • • •		HiDMP	0–10			P-P	MONO, P-P		Level	0-150		
	Page02	Adjusts the delay sound	treble attenuation	of	he	Sets delay pong.	output to mono a	r ping-	Adjusts the	output level.		
078 TapeEcho	This effection changes	ect simula s the pitch	ates a tape ecl of the echoe	ho. s.	Ch	anging th	e "Time" parar	neter	FS	InputMute		
	\vee		Knob1				Knob2			Knob3		
TopeEcho		Time	1–2000	♪	Ρ	F.B	0–100		Mix	0-100		
	Page01	Sets the de	lay time.			Adjusts the	feedback amount.		Adjusts the that is mixed	amount of effected I with the original s	d sou ounc	und d.
00		HiDMP	0-10			Level	0–150					
	Page02	PageU2 Adjusts the treble attenuation of the delay sound. Adjusts the output level.										
079 ModDelay	This del	ay effect	allows the use	e of	m	odulation			FS	InputMute		
	\vee		Knob1				Knob2			Knob3		
Press		Time	1–2000	♪		F.B	0–100		Mix	0-100		
	Page01	Sets the de	lay time.			Adjusts the	feedback amount.		Adjusts the that is mixed	amount of effected I with the original s	d sou ounc	und d.
<u></u>	Page02	Rate	1–50		Ρ	Level	0–150					
		Sets the sp	eed of the modula	tion.		Adjusts the	output level.					_
080 AnalogDly	This an length	I his analog delay simulation has a long delay with a maximum ength of 5000 mS.					num	FS	Hold, InputM	ute		
			Knob1				Knob2			Knob3		
	D 01	Time	1–5000	♪		F.B	0–100		Mix	0–100		Ρ
Analog 🚆	Page01	Sets the de	lay time.			Adjusts the	feedback amount.		Adjusts the that is mixed	amount of effected I with the original s	1 sou ounc	und 1.
	Page02	HiDMP	0-10			P-P	MONO, P-P		Level	0–150		
	1 ageoz	delay sound	treble attenuation I.		ne	pong.	output to mono d	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, InputM	ute	
			Knob1				Knob2			Knob3		_
Powerse Delay	Page01	Time	10–2500	♪	_	F.B	0–100		Bal	0-100		P
	1 ageo1	Sets the de	lay time.			Adjusts the	feedback amount.		and effect s	ounds.	origi	mai
		HiDMP	0-10			Level	0–150					
	Page02	Adjusts the delay sound	treble attenuation	of	he	Adjusts the	output level.					
082 MultiTapD	This effe	ect produc	es several dela	y so	bur	ids with di	fferent delay ti	mes.	FS	InputMute		
	\vee		Knob1				Knob2			Knob3		
Multi Tap Delay		Time	1–3000	♪		PTTRN	1–8		Mix	0-100		Ρ
	Page01	Sets the de	lay time.			Sets the tap rhythmical to	pattern, which varie random patterns.	es from	Adjusts the that is mixed	amount of effected with the original s	d sou ounc	und J.
······	Page02	Tone	0–10			Level	0–150					
		Adjusts the	tone.			Adjusts the	output level.				_	_
083 DynaDelay	This dy accordi	namic de	elay adjusts input signal	the leve	vo el.	olume of	the effect s	ound	FS	InputMute		
_	\backslash		Knob1				Knob2			Knob3		
		Time	1–2000	♪		Sense	-10—1, 1–10		Mix	0–100		Ρ
	Page01	Sets the de	lay time.			Adjusts the	effect sensitivity.		Adjusts the that is mixed	amount of effected with the original s	d sou ounc	und J.
Dyna Delay	Page02	F.B	0–100			Level	0–150					
	5002	Adjusts the	feedback amount.			Adjusts the	output level.					

084 EilterDly	This off	fact filtars	a delaved s	ound				FS	InputMute	
004 Thiterbiy			s a delayed si	Junu.	1			13	inputiviute	
		Time	Knob1		50	Knob2	<u> </u>	N.G.	Knob3	
	Page01	Time	1-2000	D.	г.в	0-100		Adjusts the	amount of effected	sound
		Sets the del	ay time.		Adjusts the	feedback amount.		that is mixed	with the original s	ound.
Filter		Rate	1–50	P	Depth	0–100		Reso	0–10	
	Page02	Sets the spe	eed of the modula	ition.	Sets the de	pth of the modulat	ion.	Adjusts the i resonance.	ntensity of the mod	dulation
	Page02	Level	0–150							
	1 ageos	Adjusts the	output level.							
085 PitchDly	This eff	ect applie	s pitch shift t	o a de	elayed sou	ind.		FS	InputMute	
		-	Knob1			Knob2			Knob3	
* PitchDelay *	D01	Time	1–2000		Pitch	-12-12	P	Mix	0–100	
	Fageor	Sets the del	ay time.		delayed sou	e of pitch shift ap ind.	blied to	Adjusts the that is mixed	amount of effected with the original s	sound
	Page02	F.B	0-100		Tone	0-10		Level	0–150	
		Adjusts the	feedback amount		Adjusts the	tone.		Adjusts the	output level.	
086 StereoDly	This sto set sep	əreo dela Jarately.	y allows the	left a	and right	delay times	to be	FS	InputMute	
		[Knob1			Knob2			Knob3	
		TimeL	1–2000	♪	TimeR	1–2000	5	Mix	0–100	Р
Linet Linet MIX	Page01	Adjusts de	lay time of left o	hannel	Adjusts del	ay time of right o	channel	Adjusts the	amount of effected	sound
		delay.			delay.			that is mixed	with the original s	ound.
STEREO DELAY	Page02	LchFB	0-100		RchFB	0-100		Level	0-150	
					Robl v		alannei.	Aujusts the	output level.	
	Page03		v output of left ch			v output of right of	hannel			
007 PhaseDiv	This off	Fact applie				up of the second second		FC	In nut Auto	
067 FliaseDiy		Knohl Knohl							Inputiviute	
		Time	Knob1		50	Knob2	<u> </u>	N.G.	Knob3	
Phase on DUHL.	Page01	TITTLE	1-2000		г.в	0-100		Adjusts the	amount of effected	sound
		Sets the del	ay time.		Adjusts the	feedback amount.		that is mixed	with the original s	ound.
	Page02	Rate	1–50	Р	Color	4 STG, 8 STG, inv 4, inv 8		Level	0–150	
		Sets the spe	eed of the modula	ition.	Sets the tor	ne of the effect typ	e.	Adjusts the	output level.	
088 TrgHldDly	This de	lay sample	es and holds u	using	picking as	the trigger.		FS	InputMute	
	\vee		Knob1			Knob2			Knob3	
		Time	10–1000		Duty	25-100		Mix	0–100	Р
	Page01	Sets the del	ay time.		Sets the tir	me that the samp	le-and-	Adjusts the	amount of effected	sound
					I hold sound	is produced		that is mixed	with the original s	1111111
		THRSH	0-30		hold sound	is produced. 0–150		that is mixed	with the original s	buna.
	Page02	THRSH Adjusts effe	0–30 ct threshold.		hold sound Level Adjusts the	is produced. 0–150 output level.		that is mixed	with the original s	bund.
089 HD Reverb	Page02 This is	Adjusts effe	0–30 ct threshold. finition rever	2.	hold sound Level Adjusts the	is produced. 0–150 output level.		that is mixed	I with the original so	
089 HD Reverb	Page02	Adjusts effe a high-de	0-30 ct threshold. finition rever	b.	hold sound Level Adjusts the	0–150 output level.		FS	InputMute	
089 HD Reverb	Page02	Adjusts effe a high-de Decay	0-30 ct threshold. finition rever Knob1 0-100	b.	hold sound Level Adjusts the Tone	is produced. 0–150 output level. Knob2 0–10		FS Mix	InputMute Knob3	P
089 HD Reverb	Page02 This is Page01	Adjusts effe a high-de Decay Sets the dura	0-30 ct threshold. finition rever Knob1 0-100 ation of the reverbe	b.	hold sound Level Adjusts the Tone Adjusts the	is produced. 0–150 output level. Knob2 0–10 tone.		FS Mix Adjusts the that is mixed	InputMute Knob3 0-100 amount of effected	P
089 HD Reverb	Page02 This is Page01	Adjusts effe a high-de Decay Sets the dura	0-30 ct threshold. finition rever Knob1 0-100 ation of the reverber 1-200	b.	hold sound Level Adjusts the Tone Adjusts the HPF	is produced. 0-150 output level. Knob2 0-10 tone. 0-10		FS Mix Adjusts the that is mixed Level	with the original so InputMute Knob3 0-100 amount of effected with the original so 0-150	P I sound bund.
HD Reverb	Page02 This is Page01 Page02	Adjusts effe a high-de Decay Sets the dura PreD Adjusts the d	0-30 ct threshold. finition rever Knob1 0-100 ation of the reverbe 1-200 delay between inpu and start of the rever	b.	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high-	is produced. 0–150 output level. Knob2 0–10 tone. 0–10 pass filter cutoff fre	quency.	FS Mix Adjusts the that is mixed Level Adjusts the	with the original so InputMute Knob3 0-100 amount of effected with the original so 0-150 output level.	P P I sound bund.
089 HD Reverb	Page02 This is Page01 Page02 This rev	Adjusts effe a high-de Decay Sets the duri PreD Adjusts the (original sound /erb effect	0-30 ct threshold. finition reverl Knob1 0-100 ation of the reverbe 1-200 Jelay between inpu and start of the rever st simulates t	b. erations. It of the b sound. he ac	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high- coustics o	is produced. 0–150 output level. Knob2 0–10 0–10 pass filter cutoff fre f a concert ha	quency.	FS Mix Adjusts the that is mixed Level Adjusts the	with the original si InputMute Knob3 0–100 amount of effecter with the original si 0–150 output level. InputMute	P I sound pund.
089 HD Reverb	Page02 This is Page01 Page02 This rev	Adjusts effe a high-de Decay Sets the duri PreD Adjusts the e original sound /erb effect	0-30 ct threshold. finition reverl Knob1 0-100 ation of the reverbe 1-200 Jelay between inpu and start of the rever st simulates t Knob1	b. erations. It of the b sound. he ac	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high- coustics o	is produced. 0–150 output level. Knob2 0–10 10–10 pass filter cutoff fre f a concert ha Knob2	quency.	FS Mix Adjusts the that is mixed Level Adjusts the FS	with the original si InputMute Knob3 0-100 amount of effected with the original si 0-150 output level. InputMute Knob3	P I sound bund.
089 HD Reverb	Page02 This is Page01 Page02 This rev	Adjusts effe a high-de Decay Sets the duri PreD Adjusts the e original sound /erb effect Decay	0-30 ct threshold. finition reverl Knob1 0-100 1-200 1-200 Jelay between inpu- and start of the reverber input stress the stress the stress the stress the stress Knob1 1-30	b. erations. it of the b sound. he ac	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high- coustics o Tone	is produced. 0-150 output level. Knob2 0-10 tone. 0-10 pass filter cutoff fre f a concert ha Knob2 0-10	quency.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix	with the original si InputMute Knob3 0-100 amount of effected with the original si 0-150 output level. InputMute Knob3 0-100	P I sound bund.
089 HD Reverb HD Reverb OBD Hall HALL ↔ F R R R	Page02 This is Page01 Page02 This rev Page01	THRSH Adjusts effe Decay Sets the duri PreD Adjusts the <i>i</i> original sound Verb effec	0-30 ct threshold. finition reverl Knob1 0-100 ation of the reverbed 1-200 Jelay between inpu and start of the reverbed Knob1 1-30 ation of the reverbed	b. erations. it of the b sound. the ac	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high COUSTICS O Tone Adjusts the	is produced. [0-150 output level.	quency.	Hat is mixed FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the that is mixed	with the original s InputMute Knob3 0-100 amount of effected with the original s 0-150 output level. InputMute Knob3 0-100 amount of effected with the original s	P I sound bund. P I sound bund.
089 HD Reverb	Page02 This is Page01 Page02 This rev Page01	THRSH Adjusts effe a high-de Decay Sets the duri PreD Adjusts the 4 original sound Verb effec Decay Sets the duri PreD	0-30 ct threshold. finition reverl Knob1 0-100 ation of the reverbed 1-200 lefay between inpu and start of the reverbed Knob1 1-30 ation of the reverbed 1-100	b. arations. It of the b sound. the actions. arations.	hold sound Level Adjusts the Tone Adjusts the HPF Adjusts high- coustics o Tone Adjusts the Level	is produced. 0-150 output level. Knob2 0-10 tone. 0-10 f a concert ha Knob2 0-10 tone. 0-10 tone. 0-10 0-1	quency.	FS Mix Adjusts the that is mixed Level Adjusts the FS Mix Adjusts the	with the original si InputMute Knob3 0–100 amount of effecter with the original si 0–150 output level. InputMute Knob3 0–100 amount of effecter with the original si	P I sound bund.

091 Boom	This rou	orb offer	t simulatos t	ho ac	oustics o	f a room		FS	InputMute		
	11113 TEX		Kash1			Kash2		13	Kash2		
		Docay	1 20		Topo	0 10	1 1	Mix	0 100	P	
	Page01	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.		Adjusts the that is mixed	amount of effected with the original s	d sound ound.	
		PreD	1–100		Level	0–150					
	Page02	Adjusts the original sound	delay between inpu and start of the rever	it of the b sound.	Adjusts the	output level.					
092 TiledRoom	This rev	verb effec	t simulates t	he ac	oustics o	f a tiled room	۱.	FS	InputMute		
	/		Knob1			Knob2			Knob3		
•	D 01	Decay	1–30		Tone	0–10		Mix	0–100	P	
	Pageor	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.		Adjusts the that is mixed	amount of effected with the original s	d sound ound.	
	Page02	PreD Adjusts the	1-100	ut of the	Level	0-150					
	1 49002	original sound and start of the reverb sound. Adjusts the output level.									
093 Spring	This rev	verb effec	t simulates a	a sprir	ig reverb			FS	InputMute		
			Knob1			Knob2			Knob3		
HEANY TIME MIX	Page01	Decay	1–30		Tone	0–10		Mix	0-100	P	
Spring	Fageor	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.		Adjusts the that is mixed	amount of effected I with the original s	d sound ound.	
8	Page02	PreD	1–100		Level	0–150					
	Fageuz	Adjusts the original sound	and start of the rever	it of the b sound.	Adjusts the	output level.					
094 Arena	This reverb effect simulates the acoustics of a large enclosure such as a sports arena.						FS	InputMute			
	/		Knob1			Knob2			Knob3		
0		Decay	1–30		Tone	0–10		Mix	0-100	P	
Arena Reverb	Page01	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.		Adjusts the that is mixed	amount of effected with the original s	d sound ound.	
.aaau.		PreD	1–100		Level	0–150					
	Page02	Adjusts the original sound	delay between inpu and start of the rever	it of the b sound.	Adjusts the	output level.			:		
095 EarlyRef	This eff	ect repro	duces only tl	ne ear	ly reflect	ions of revert	Э.				
	/		Knob1			Knob2			Knob3		
PECHY SHIPE MX		Decay	1–30		Shape	-10–10		Mix	0–100	P	
Early Reflection	Page01	Adjusts the	duration of the re	verb.	Adjusts the	effect envelope.		Adjusts the that is mixed	amount of effected with the original s	d sound ound.	
()	Page02	Tone	0–10		Level	0–150					
		Adjusts the	tone.		Adjusts the	output level.					
096 Air	This eff	ect repro	duces the ar	nbien	ce of a ro	om, to create	e spa	tial depth.			
			Knob1			Knob2			Knob3		
• • ·	Page01	Size	1–100		Tone	0–10		Mix	0-100	P	
	1 ageo1	Sets the siz	e of the space.		Adjusts the	tone.		that is mixed	with the original s	ound.	
.eees.	Page02	Ref	0-10		Level	0–150					
	1 ageoz	from the wa	e amount of ref III.	lection	Adjusts the	output level.					
097 Comp+OD	This eff	ect comb	oines compre	ssor a	and overc	lrive.					
	/		Knob1			Knob2			Knob3		
	Page01	Comp	0–10		Gain	0–100	P	Level	0-150		
<u>₩</u> [@]	.	Sets compr	essor strength.	, , , , , , , , , , , , , , , , , , ,	Sets overdr	ive gain.		Adjusts the	output level.		
Comp OD	Page02	Tone	0–100								
		Sets overdr	ve tone.					1			

198 Comp+Pher	This off	fact combi	nes compre	eenr	and phase	ar				
030 Comp+i lisi			Knoh1			Knob2			Knob2	
PATE LEIEL		Comp	0.10		Rato	1 50		2 Lovol	0 150	1 1
. (000) . (000)	Page01	Sets compre	ssor strength		Sets the sn	eed of the modula	tion	Adjusts the	output level	
	Page02	Color	4 STG, 8 STG, inv 4, inv 8							
	Ű	Sets phaser of	color.							
099 Comp+AWah	This eff	ⁱ ect combi	nes compre	ssor	and auto-	wah.				
COTP T SENS LEVEL			Knob1			Knob2			Knob3	
	Page01	Comp	0–10		Sense	-10—1, 1–10		P Level	0–150	
		Sets compre	ssor strength.		Sets auto-w	ah sensitivity.		Adjusts the	output level.	
Comp@AWah	Page02	Reso	0-10							
		Sets resonan	ice of auto-wah.							
100 Cho+Dly	This eff	ect combi	nes chorus a	and c	lelay.					
	/		Knob1			Knob2			Knob3	
CHORUS	Page01	ChoRt	1–50		ChoMx	0–100		P DlyTm	1–2000	⊅
	Tageor	Adjusts choru	us rate.		Adjusts cho	rus mix.		Adjusts dela	ay time.	
	Page02	DlyFB	0–100		DlyMx	0–100		Level	0–150	
	- ugooz	Adjusts delay	/ feedback.		Adjusts dela	ay mix.		Adjusts the	output level.	
101 Dly+Rev	This eff	his effect combines delay and reverb.								
			Knob1			Knob2			Knob3	
	Page01	DlyTm	1–2000	♪	DlyMx	0–100		P RevMx	0–100	
DLY+REV		DIVER	0 100		Adjusts dela			Adjusts rev	end mix.	
	Page02	Adjusts delay	/ feedback		Adjusts the	output level.				
102 Cho+Bey	This off	fect combi	nes chorus :	and r	everb					
			Knoh1			Knob?			Knob2	
		ChoRt	1 50		ChoMy	0 100		P RovMy	0 100	
	Page01	Adjusts chori	IS rate		Adjusts cho	rus mix			arb mix	
Cho©Rev		Level	0-150		Aujusts cito			Aujusts rev		
	Page02	Adjusts the o	utput level.							
103 El G+VCho	This eff	fect combi	nes flanger	and y	vintage ch	Orus		_		
			Knoh1		T T	Knob?			Knob2	
		ElaDa	0.100		ElaBt	0.50		ChoMy	0 100	P
	Page01	Adjusts flang	er denth		Adjusts flan	der rate	2	Adjusts vint	age chorus mix	<u> </u>
FLANGER VCHO		ChoBt	1-50		l evel	0-150				
	Page02	Adjusts vinta	ne chorus rate							
			ge chorus rute.		Adjusts the	output level.				
104 PedalVox	This sir	nulates a v	vintage Vox v	wah	Adjusts the oedal.	output level.				
104 Pedalvox	This sir	nulates a v	vintage Vox v	wah	Adjusts the	output level.			Knob3	
	This sir	nulates a v	vintage Vox v Knob1	wah	Adjusts the	Knob2		Level	Knob3	
	This sir	Freq	vintage Vox v Knob1 1-50	wah	Adjusts the Dedal.	Nnob2 0–100 ox with the una	ffecte	Level	Knob3 0–150	
	This sir	Freq Adjusts the e	vintage Vox v Knob1 1–50 emphasized frequ	wah	Adjusts the Dedal.	Nnob2 0–100 mix with the una	ffecte	Level d Adjusts the	Knob3 0–150 output level.	
Pedal Vox	Page01 Page02	Freq Adjusts the e	vintage Vox v Knob1 1-50 mphasized frequ	wah	Adjusts the Dedal.	Knob2 0-100 mix with the una	ffecte	Level d Adjusts the	Knob3 0–150 output level.	
104 PedalVox	Page01 Page02 This sir	Freq	vintage Vox v Knob1 1-50 emphasized frequ	wah	Adjusts the Dedal. DryMX Adjusts the sound.	with the una 0-100 mix with the una	ffecte	Level d Adjusts the	Knob3 0-150 output level.	
104 PedalVox	This sir Page01 Page02 This sir	Freq Adjusts the e	vintage Vox v Knob1 1-50 mphasized frequ vintage CRY	wah ency. BAB	Adjusts the Dedal.	Knob2 0-100 mix with the una dal.	ffecte	Level d Adjusts the	Knob3 0–150 output level.	
104 PedalVox	This sir Page01 Page02 This sir	nulates a v Freq Adjusts the e	vintage Vox v Knob1 1–50 wphasized frequ vintage CRY Knob1 1 50	wah ency. BAB	Adjusts the cedal. DryMX Adjusts the sound. (wah peo	Knob2 0-100 mix with the una dal. Knob2	ffecte	d Adjusts the	Knob3 0-150 output level. Knob3	
104 PedalVox	This sir Page01 Page02 This sir Page01	rulates a v Freq Adjusts the e	vintage Vox v Knob1 1–50 mphasized frequ vintage CRY Knob1 1–50	wah ency. BAB	Adjusts the Dedal. DryMX Adjusts the sound. (wah peo	with the una Mob2 0-100 mix with the una dal. Knob2 0-100 mix with the una	ffecte	Level Level d Adjusts the Level d Adjusts of	Knob3 0–150 output level. Knob3 0–150	
104 PedalVox	This sir Page01 Page02 This sir Page01	Freq Adjusts the e	vintage Vox v Knob1 1–50 mphasized frequ vintage CRY Knob1 1–50 mphasized frequ	wah ency. BAB' ency.	Adjusts the oedal.	with the una Knob2 0-100 mix with the una dal. Knob2 0-100 mix with the una	ffecte	d Adjusts the Level Level Level d Adjusts the	Knob3 0-150 output level.	

106 PDL Pitch	Use an	expressio	on pedal to ch	ang	je	the pitch	in real time v	vith	tł	nis effect.			
			Knob1				Knob2			Knob3			
	Page01	Color	1–9 (See Table 3)			Tone	0–10			Bend	0–100		Ρ
PDL Pitch	Fageor	Sets the type of pitch change control with the expression pedal.			Adjusts the tone.		Sets the am	ount of pitch shift					
		Mode	Up, Down			Level	0–150						
	Page02	Sets the dire to Up or Dov	ts the direction of the pitch change , Up or Down.			Adjusts the output level.							
107 PDL MnPit	This is the pito	a pitch sł h to be s	nifter speciall hifted in real	y fo tim	or e v	monopho with the e	nic sound (s expression pe	ing eda	le- I.	note play	ing), which a	llov	VS
	\backslash		Knob1			Knob2				Knob3			
	Dogo01	Color	1–9 (See Table 3)			Tone	0–10			Bend	0–100		Ρ
- Haimapit	Fageor	Sets the typ with the exp	ets the type of pitch change control rith the expression pedal.			Adjusts the	tone.			Sets the am	ount of pitch shift		
		Mode	Up, Down			Level	0-150						
	Page02	Page02 Sets the direction of the pitch change to Up or Down.			ge	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		6th down	3		3rd up
-5		5th down	4		4th up
-4	IVlajor	4th down	5	Ivlajor	5th up
-3		3rd down	6		6th up
-m	Minor	3rd down			
m	IVIIIIOI	3rd up			

■Table 3

Color	Pedal min	Pedal max 🚝
		1

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	Kana 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
3	(0 112) P Oliginal	

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

Effect t	ypes	107 types			
Number o	f simultaneous effects	3			
Number o	of user banks/patches	10 patches x 10) banks		
Samplin	g frequency	44.1kHz			
A/D con	version	24-bit with 128x oversampling			
D/A conversion Signal processing		24-bit with 128x oversampling			
		32-bit floating point & 32-bit fixed point			
Frequen	cy characteristics	20-20 kHz +1 dB, -3 dB (10 kΩ load)			
Display		LCD x 3			
Input		Standard mona Rated input le Input impedar ACTIVE/PASS	ural phone jack evel -20dBm nce 1ΜΩ IVE (switch selectable)		
Output	R	Standard mona Maximum out Line: +5 dBm	ural phone jack tput level: n (with output load impedance of 10 kΩ or more)		
	L/Mono/Phone	Standard stered Maximum out Line: +5 dBm Headphones:	o phone jack (line/headphones) tput level: n (with output load impedance of 10 kΩ or more) 20 mW + 20 mW (into 32 Ω load)		
	Balanced output	XLR connector Output imped 100 Ω (HOT- PRE/POST (sv GND LIFT (sw	dance -GND, COLD-GND), 200 Ω (HOT-COLD) witch selectable) vitch selectable)		
Control	input	For FP01/FP02/	FS01		
S/N (equ	ivalent input noise)	120dB			
Noise flo	or (residual noise)	-100dBm			
Power		AC adapter Batteries	DC9V (center minus plug), 500 mA (ZOOM AD-16) 6 hours of continuous operation using 4 AA alkaline batteries		
Dimension	•	USB			
	ions	170mm(D) x 23	4mm(vv) x 54mm(H)		
USB		USB AUGIO			
weight		I.ZKg			
Options		FPU1/FPU2 expr	ression pedal and FS01 foot switch		

• 0dBm = 0.775Vrms

#	PatternName	TimSig		#	PatternName	TimSig
1	GUIDE	4/4	1	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	1	26	Dance4	4/4
6	16Beat1	4/4		27	3Per4	3/4
7	16Beat2	4/4	1	28	6Per8	3/4
8	16SHFFL	4/4	1	29	5Per4_1	5/4
9	Rock	4/4	1	30	5Per4_2	5/4
10	Hard	4/4	1	31	Latin	4/4
11	Metal1	4/4		32	Ballad1	4/4
12	Metal2	4/4	1	33	Ballad2	3/4
13	Thrash	4/4	1	34	Blues1	4/4
14	Punk	4/4	1	35	Blues2	3/4
15	DnB	4/4	1	36	Jazz1	4/4
16	Funk1	4/4	1	37	Jazz2	3/4
17	Funk2	4/4	1	38	Metro3	3/4
18	Hiphop	4/4	1	39	Metro4	4/4
19	R'nR	4/4	1	40	Metro5	5/4
20	Pop1	4/4	1	41	Metro	
21	Pon2	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

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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.

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		Patch Name	Comment
	0	Automatic	This patch uses the Slicer to generate an automatic backing rhythm. This is a great sound for playing guita
	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 Tele
E	4	YngDrive	This shred tone is inspired by Yngwie. Run up a harmonic minor scale on a Strat with this one!
Γ	5	RECT DRIVE	This high-gain sound uses Mesa Boogie Dual Rectifier modeling. An optimal gain setting and the Hall Rev
	6	TnSpank	The sound is good for country soloing when you need clear attack.
	7	VX СОМВО	This crunch sound uses Vox AC30TBX modeling. Turn the Stereo Chorus effect on for a wide arpen
	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 rev
	0	CmpCutting	This clean cutting sound combines Comp and Phaser effects. Turn the Auto Wah on to add accents to your
	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
	3	Juice	This natural crunch sound adds a detune effect to thicken the sound. This patch is perfect for backing parts
r	4	Chalk	This slightly distorted crunch sound has a characteristic mid-range. This patch stands out for its unique atn
U	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 y
	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 p
	2	Guv Boost	This crunch sound uses the Governor effect. The Z Clean is ready to be used to provide a full range boost.
	3	HotBoxFaze	A combination of the Phaser, Hot Box and Noise Gate creates a rockin' overdriven tone with a great swe
	4	Open Wah	Combination of Comb Filter, OverDrive and FD Combo. Using the comb filter creates the sound of an ope
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 re-
	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
	1	GetWet	Rich and wet. Adjust the Time settings for a wide range of lush tones.
	2	TW LEAD	This lead tone uses Two Rock modeling. The combination of analog delay and hall reverb harmonizes per
	3	Guitar1&2	Who needs another guitar player? This patch will fatten things up nicely.
	4	Crw.Solo	This patch uses T Scream to add a boost to Diezel Herbert modeling. Analog delay is added for a solo sou
I	5	Aphex	In your face stutter effect for percussive attack. Try hitting harmonics or single notes to create a digital gli
	6	JAZZ BED	A combination of Delay + Reverb and Comp for complex jazz chord voicings that ring out clear and susta
	7	Minor SWG	This patch uses the Acoustic effect to simulate a Maccaferri-type guitar popular in gypsy jazz. Use the from
	8	Translator	A combination of Cry, Step and Air. Try playing a continuous funk guitar line. The step filter adds an inte
	9	Funk JZ	Starting with a slightly crunchy drive sound, chorus is added for flavor to get a sonic character used freque
	0	MetaFlange	A combination of Extreme Distortion, Flanger and Noise Gate provides a brutal high-gain distortion with a
	1	UNDER WATR	A combination of Chorus + Reverb and Comp + Auto Wah for an interesting clean sound for extended cho
	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 D
	4	TriDelay	This set up includes tape echo, filter delay and mod delay effects. You can turn these delay effects on and
J	5	PurpleRain	This patch is inspired by Prince's Purple Rain. The width of the sound that you feel when you play an arpe
	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.
	9	DreamSeq	This is a spacey sound realized by combining Z Dream, Seq Filter and Stereo Delay effects. All you have t
	-		

		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.
	1	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	This drive sound uses Vox AC30TBX modeling and features high-frequency characteristic typical of alnico speakers.
	3	JB Talk	This is a re-creation of the talking modulator sound that can be heard on Jeff Beck's rendition of Superstition.
Λ	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.
A	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	JTM45	This sound is based on the Marshall JTM45 and combines modeling of a Bassman preamp and a Marshall 1960 cabinet.
	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.
	4	Fat Boost	This fat rhythm tone adds a Booster effect to the Marshall preamp and Bassman cabinet modeling combo.
R	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.
	7	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!
	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.
	7	Destroyer	WARNING! WARNING! Explosive sound using Bomber effect. USE AT YOUR OWN RISK!
	8	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	This sequencer sound combines Seq Filter, Warp Phaser and Filter Delay effects. All three effects are synced to the tempo, so this patch is very effective when used with a rhythm or the looper.
	2	Soft Touch	The gentle, enveloping chord sound results from providing a warm clear tone with spatial effects.
	3	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.
n	4	MoogMe	A warm fuzzy synth sound. Great for single-note low-end growl.
ש	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.
IF.	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 Seream 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.

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

backing parts with power chords.

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.

er 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.

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

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

a 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,

BG CRUNCH

MS DRIVE

MATCH30

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

"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

MATCHLESS DC30

distortion.

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

Governo 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

Sequel LE installation

example.

the driver.

NOTE

steps.

HINT

NOTE

Sequel LE.

AC adapter

Batteries

NOTE

"Setup" ("Setup.exe").

the driver correctly.

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.



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.

Guitar or other instrument

USB cable

IINPUTI iack

This unit

[OUTPUT] jack



Continued overleaf

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

Continued overleaf

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

uel LE to record > Windows MacOS X

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

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



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



NOTE

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

Add an audio track.

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



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

Audio 🔤 Instrument 🛁
▲ Name
n 📼 empty 📐
🔳 70`s Funky Phaser
🔳 Bass - Bright Bass
🔳 Bass - Easy Bass
🔳 Bass - Synth Phaser
🗉 Bizarreflanger
🗉 Bluesman
🔳 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.