

Guitar Effects & Amp Simulator

63/63X

OPERATION MANUAL

Thank you very much for purchasing the ZOOM 63/63X.

Please read this manual carefully to learn about all the functions of the **53/53X** 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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Usage and safety precautions

SAFETY PRECAUTIONS

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



Something that could cause serious injury or death.



Something that could cause injury or damage to the equipment.

Other symbols



Required (mandatory) actions



Prohibited actions

Marning

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

 Use 4 conventional 1.5-volt AA batteries (alkaline or nickel-metal hydride).

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.

⚠ 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

O Do not use in extremely high or low temperatures.

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

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

O Do not use in places with excessive vibrations.

Onot use in places with excessive dust or sand.

AC adapter handling

When disconnecting the AC adapter from an outlet, always pull the body of the adapter itself.

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 G3/G3X 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 G3/G3X and the tother device farther apart. With any type of electronic device that uses digital control, including the G3/G3X, 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

Six simultaneous effects

You can select and arrange the order of up to six effects as you like and use them simultaneously. With the SCROLL keys, you can quickly change which effects are shown.

Feels just like using effect pedals

Three effects can be shown on the displays at the same time, allowing you to control them intuitively using the parameter knobs and footswitches.

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/GBX** 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.

Works with ZOOM Edit & Share software

The **GB/GBX** 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

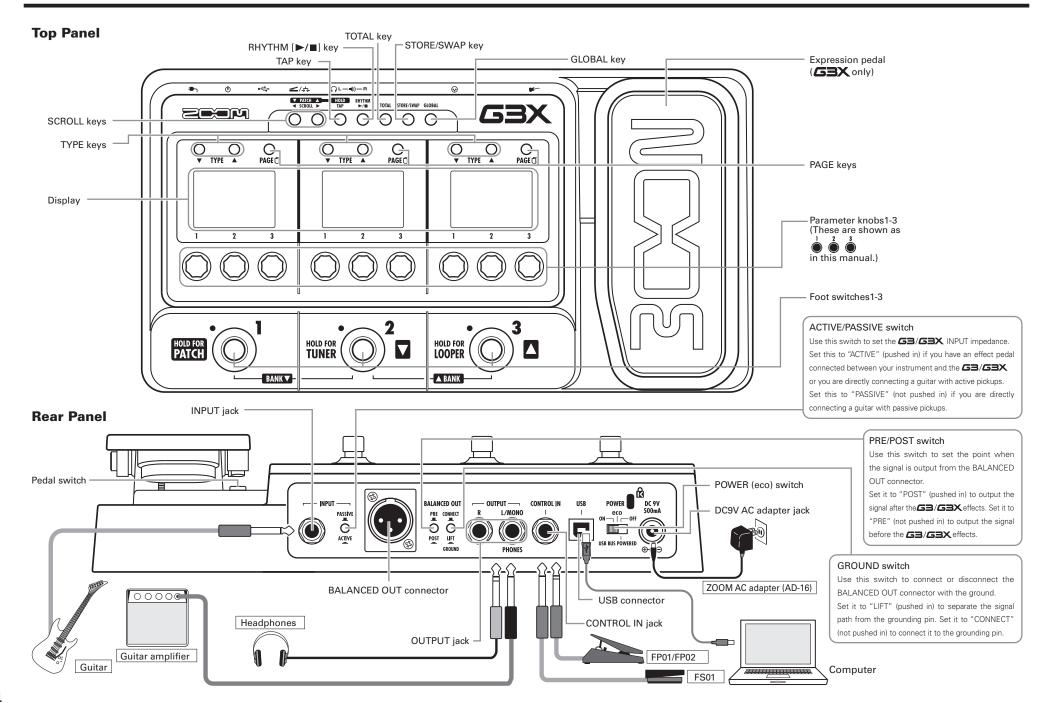
Patch

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

Bank

A set of 10 patches is called a "bank." The 63/63X has 10 banks labeled A-J.

Part Names



4

Part Names

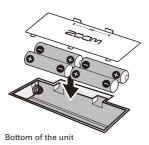
Turning the power on

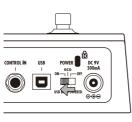
To turn the power on

• Lower the amplifier's volume all the way.

■ When using batteries

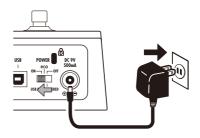
Insert batteries into the battery compartment and set the POWER switch to ON.





■ 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.

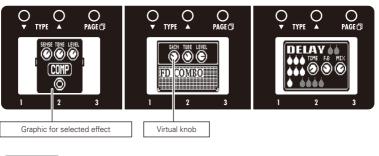
Using the POWER switch eco setting

If the GB/GBX is not used for about 25 minutes, it will automatically switch to standby.

If a guitar signal is being input, the **GB** / **GBX** will not automatically switch to standby.

Display information

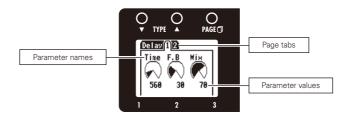
■ Home Screens show the current patch



HINT

• The positions of the virtual knobs change with the parameter values.

■ Edit Screens show parameters being edited



HINI

If there are 4 or more parameters that can be adjusted, multiple page tabs will be shown.

Adjusting effects

Confirm that the Home screens are shown.



1 To turn effects ON and OFF

• Press \bigcirc , \bigcirc and \bigcirc .



• Turns the effect ON/OFF.



NOTE

- . An effect is ON when its footswitch LED is lit.
- . An effect is OFF when its footswitch LED is not lit.

To select an effect type

• Press O TYPE A.



• The effect type changes.





- See page 40 for information about effect types and parameters.
- When the GLOBAL menu AUTO SAVE function is ON, changes made will be saved automatically. (See page 24.)

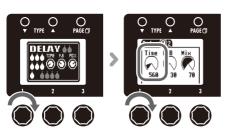
To adjust parameters

• Turn and and





• The editing screen opens where you can adjust parameters.



NOTE

· Time, rate and some other effect parameters can be set in note durations that are synchronized to the tempo.



To change the page

• Press O PAGE (1)



• The next page opens.



Effect processing capacity



The G3/G3X allows you to combine six effects as you like. However, if you combine effect types that require great amounts of processing power (amp models, for example), the available processing capacity might not be enough. If the processing required for an effect exceeds the available capacity, the effect is bypassed and a "DSP Full!" message appears. This can be avoided by changing one or more of the effect types or setting them to THRU.

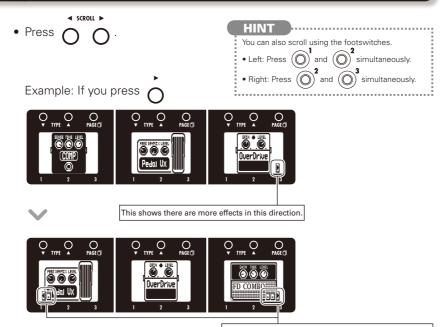
NOTE

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

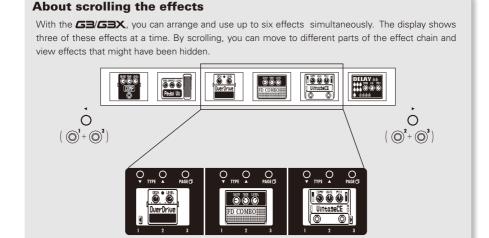
HIN

Press and hold the PAGET button for at least one second to immediately set an effect to THRU.

5 To scroll through the effects shown



This shows the number of effects hidden in this direction.



Selecting Patches

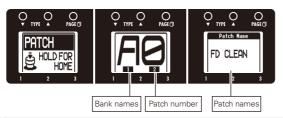
Confirm that the Home display is shown.



1 To activate patch selection



• The screens show the patch bank, number and name.



2 To change the patch

- Press ()² to select the next lower patch.
- Press to select the next higher patch.
- Turn of the middle effect.

• The patch number and name changes.







3 | To change the bank

- Press (and (at the same time to select the next lower bank.
- Press (and are time to select the next higher bank.
- Turn of the middle effect.



• 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.

4 To return to the Home Screens

• Press and hold for 1 second.



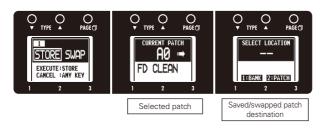


Storing Patches

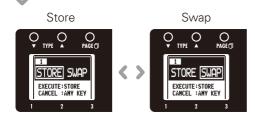
When the AUTO SAVE function is ON, settings are saved automatically after parameters are adjusted.

1 To store a patch or swap

- Press STORE/SWAP
 - V
- blinks and the screens appear as below.



- 2 To select whether to store or swap the patch
 - Turn of the left effect.

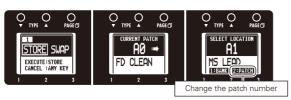


3 To set where to store or swap the new patch

■ To change the patch number where stored/swapped

• Turn of the right effect.





■ To change the bank where stored/swapped

• Turn of the right effect.





NOTE

When the GLOBAL menu AUTO SAVE function is ON, the currently active patch cannot be selected as the destination.

4 To complete patch storing/swapping

• Press STORE/SWAP

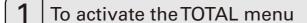


• After "COMPLETE!" appears on the display, the store/swap patch opens.

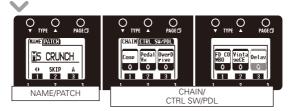




Setting patch-specific parameters



- Press
- NOTE
- Settings made for TOTAL parameters are saved separately for each patch.



2 To change the patch name

• Turn and of the left effect.



- : Turn to move the cursor.
- skip Turn to change the type of character/symbol.
- a : Turn to change the character.

NOTE

- The following characters and symbols can be used.
 ! # \$ % & ' () +, -. ; = @ [] ^ _ ` {} ~A-Z, a-z, 0-9, (space)
- 3 To adjust the patch level
 - Press O of the left effect and turn

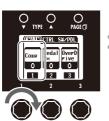


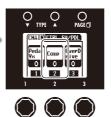
- The setting range is 0–120.
 - To change the overall volume of all natches

To change the order of the effects

of the middle and right effects to change effect positions.







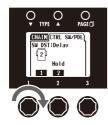
Effects that are OFF appear gray.

To set an optional footswitch function

of the middle effect. and turn



• Effect functions that can be assigned are shown.



- BYPASS/MUTE: Use to bypass or mute the effect.
- TAP TEMPO: Press the footswitch repeatedly at the desired tempo to set the tempo used for rhythms, the looper and effects.
- NO ASSIGN: No function is assigned to the footswitch.
 - If the selected parameter has multiple functions, use to select



NOTE

- In order to use the function set, the corresponding effect must also be ON.
- · See "Effect types and parameters" for details about the functions that can be assigned for each effect.
- If you connect a ZOOM FP01 or FP02 pedal to the 🗗 X, you can use it as a volume pedal.



To set an expression pedal function

Using the built-in expression pedal of the **GBX** or an optional external expression pedal (ZOOM FP01/FP02) connected to a **GB**, you can control volume and effect parameters in real-time.

■ To select the controlled parameter

• Press PAGE of the middle effect and turn of the right effect.

 Parameters that can be assigned to the expression pedal are shown on the right display.



NOTE

- If multiple effects that support AUTO ASSIGN are active, all their corresponding parameters will be assigned to the expression pedal at the same time.
- See "Effect types and parameters" for details about the functions that can be assigned for each effect.

HINI

- INPUT VOL: Controls the input level.
- OUTPUT VOL: Controls the output level. (Does not affect the volume of the rhythm or looper).
- AUTO ASSIGN: When an effect that supports auto assign is selected, a parameter will be assigned to the
 pedal automatically as follows.

Effect type	Parameter			
PedalVx	Freq			
PedalCry	Freq			
TheVibe	Speed			
PDL Pitch	Bend			
PDL MnPitch	Bend			

- . NO ASSIGN: no function is assigned to the footswitches.
- The effect that assigned to the expression pedal can be used to turn an effect ON/OFF with the pedal switch.

■ Set the parameter range that the pedal can adjust

• Turn of the right effect to set the minimum value.

• Turn of the right effect to set the maximum value.



HINT

- The minimum value can be set higher than the maximum value.
 When set this way, pushing the pedal down decreases the effect, while letting it up increases the effect.
- When using AUTO ASSIGN, the minimum and maximum values of parameters are set automatically and cannot be changed.

7 To exit the TOTAL menu

• Press

Changing Various Settings

- 1 To activate the GLOBAL menu
 - Press O









NOTE

 Global parameter settings affect all patches.

- 2 To adjust the master level
 - Turn of the left effect.











NOTE

The setting range is 0-120.

3 To set the master tempo

• Turn of the left effect.

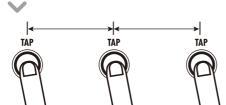


NOTE

- The setting range is 40-250.
- This tempo setting is used by every effect, rhythms and the looper.

■ Setting the tempo by tapping

• Press two or more times at the desired tempo.



HINT

 You can also set the tempo using an FS01 footswitch (sold separately).
 (See page 17.)

4 To select the connected equipment

• Turn of the left effect.



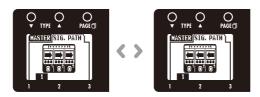
Parameter value	Meaning
DIRECT	Use when connected to headphones or monitor speakers
COMBO FRONT	Use when connected to an ordinary combo amp input
STACK FRONT	Use when connected to an ordinary stack amp input
COMBO POWER AMP	Use when connected to an ordinary combo amp return
STACK POWER AMP	Use when connected to an ordinary stack amp return

5 To change the direction of the signal flow

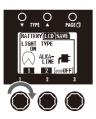
• Press On the left effect.

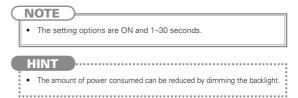


• Turn to set the signal flow direction.



- 6 To set the amount of time until the backlight dims
 - Turn of the middle effect.





To select the battery type

of the middle effect to set the battery type to ALKALINE or Ni-MH (nickel-metal hydride).







: Operating on adapter power

: Operating on USB bus power

NOTE

· Set the battery type correctly in order to allow the remaining battery charge to be shown accurately.

To check the eco mode status

The eco mode ON/OFF status is shown beneath the power icon.



To adjust the display contrast

• Press **O** of the middle effect.

of the middle effect.



: Left display

Center display

Right display

10 To set the auto save function

Press O of the middle effect.



• Turn of the middle effect.



HINT

- . ON: Patch changes will be saved automatically.
- OFF: Patch changes will not be saved until they are saved manually. (See page 14.)

11 To adjust the USB audio monitoring balance

• Turn of the right effect.



NOTE

- This adjusts the balance between the output signal from the DAW software (computer) and the DIRECT signal from the unit (after effects).
- The setting range is 0-100.
- Set to 0 to monitor only the DIRECT signal or 100 to monitor only the DAW (computer) output signal.

12 To adjust the recording level

Turn of the right effect.





- This adjusts the level of the signal sent to the DAW software (computer).
- The setting range is ±6 dB.

13 To view the firmware versions

• Press PAGE (1) of the right effect.





HINT

- Check the ZOOM website (http://www.zoom co.jp) for the latest firmware versions.
- 14 To exit the GLOBAL menu

• Press

Using the Tuner

1 To activate the tuner

• Press (for 1 second.









Turn of the left effect to switch between BYPASS and MUTE.

2 To change the tuner's standard pitch

• Turn of the right effect.





NOTE

- The standard pitch for middle A can be adjusted to 435-445 Hz.
- The standard pitch setting is saved even when the power is turned OFF.

3 | To select the tuner type

• Turn of the right effect.





CHROMATIC

The chromatic tuner shows the nearest pitch name (semitone) and how far the input sound is from that pitch.

Other tuner types

Depending on the selected type, the nearest string name and how far the sound input is from that pitch are shown. Select from the following tunings.

Disales	Meaning	String number/Note name						
Display	ivieaning		6	5	4	3	2	1
GUITAR	Standard tuning for guitars, including 7-string guitars	В	Е	Α	D	G	В	Е
OPEN A	In open A tuning, the open strings make an A chord		Е	Α	Е	Α	C#	Е
OPEN D	In open D tuning, the open strings make a D chord		D	Α	D	F#	Α	D
OPEN E	In open E tuning, the open strings make an E chord		Е	В	Е	G#	В	Е
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	Α	D	G	Α	D

4 To use a drop tuning

Turn of the right effect.



NOTE

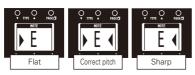
- You can lower the tuning by one (b×1), two (b×2) or three (b×3) semitones.
- Drop tuning is not possible when the TYPE is set to CHROMATIC.

5 To tune the guitar

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

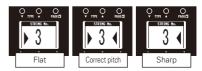
■ CHROMATIC TUNER

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.



The keys above the displays also light to show the pitch accuracy.

Pitch too low

Pitch too low

Pitch correct

Pitch correct

Pitch too ligh

6 To end tuning

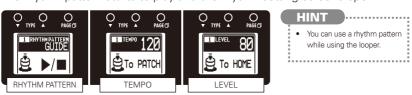
• Press \bigcirc , \bigcirc or \bigcirc or \bigcirc

Using Rhythms

1 To activate a rhythm



• The rhythm pattern starts to play and the rhythm setting screens open.



2 To select the rhythm pattern

• Turn of the left effect.



NOTE

· See page 59 for types of patterns.

3 | To adjust the tempo

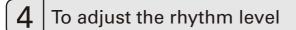
• Turn of the middle effect.





NOTE

- The setting range is 40-250.
- This tempo setting is used by every effect, rhythms and the looper.



• Turn of the right effect.







• Press O.



6 To complete setting the rhythm

■ The rhythm stops and the previous screen reappears

• Press

■ To select a patch (and keep the rhythm playing)

• Press ()2.

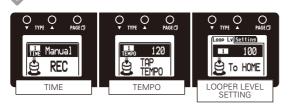
■ To return to the Home Screens (and keep the rhythm playing)

• Press ()

Using the Looper

1 To activate the Looper

• Press of a for 1 second.



2 To set the recording time

• Turn on the left effect.



Manual

Use the footswitch to start and stop recording.

Note mark

Set the recording time by setting the tempo and the number of quarter notes.

NOTE

- The looper can record 1.5-40 seconds (20 seconds when UNDO is enabled).
- If the setting (number of quarter notes) would not fall in this range, it will automatically be adjusted.
- Changing the recording time will erase the currently recorded loop.

3 | To adjust the tempo

• Turn of the middle effect.



HIN

- If no loop has been recorded yet, you can also set the tempo by tapping ².

NOTE

- The setting range is 40-250.
- · Changing the tempo will erase the currently recorded loop.
- . This tempo setting is used by every effect, rhythms and the looper.

4 To record a phrase and play it back

• Press O.



Recording standby





Recording



Loop playing back

■ If set to "Manual"

• When (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

 After recording continues for the set time, loop playback starts (and "PLAY" appears on the display).



NOTE

- During rhythm playback, recording will start after the precount.
- Since quantization is applied during rhythm playback, even if you stop the recording a little out of time, adjustment will be made automatically and the loop will play with correct timing.

5 To stop loop playback

• Press O





6 To overdub a recorded loop

■ To start overdubbing

During loop playback, press



■ To end overdubbing

• Press again.



7 To erase the loop

• Press of 1 second.



• "CLEAR" appears on the display.



8 To adjust the loop volume

■ To adjust the volume of the looped phrase

• Turn of right effect.



The setting range is 0–100.

■ To adjust the volume of the rhythm

• Press Opage of the right effect and turn



NOTE

• The setting range is 0-100.

9 To return to the Home Screens

• Press



· You can return to the Home Screens while the loop is playing.

NOTE

- · Returning to the Home Screens will not erase the loop.
- Turning the power OFF will erase the loop.

10 To change the Looper settings

• Press $\bigcap_{\mathbf{PAGE} \subset \overline{\mathbf{I}}}$ of the right effect.





■ To activate the Undo function

• Turn of the right effect.





NOTE

 When Undo is ON, the maximum loop recording time is limited to 20 seconds.

HINT

When Undo is ON, you can cancel the last overdubbing by pressing of for 1 second.

After undoing, you can also redo by pressing for 1 second again, restoring the last overdubbing.

■ To select the STOP MODE

• Turn of the right effect.





STOP MODE	How loop playback stops
STOP	Playback stops immediately
FINISH	Playback stops after the loop plays to its end
FADE OUT	Playback stops after fading out

HINT

• Even when set to "FINISH" or "FADE OUT", you can stop loop playback immediately by pressing and holding down \bigcirc^2 .

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® Dual-Core 2.7GHz or faster, RAM 2GB or more

Mac

OS X 10.5/10.6/10.7

Intel® Core Duo 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 G3/G3X and the computer. (See page 24.)
- You can adjust the recording level. (See page 25.)
- When its POWER switch is set to OFF, the GB/GBX 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 (computer), set the USB AUDIO MONITOR balance to 100. (See page 24.)

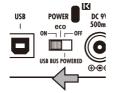
At other settings, the signals from the computer and the GB/GBX will be mixed, causing the output signal to sound like a flanger effect is being used.

Adjusting the expression pedal

1 To calibrate its sensitivity

• While pressing , set the POWER switch to ON.





NOTE

- · Calibrate the pedal if:
 - Pressing the pedal does not have much effect.
 - -The volume or tone changes too much even when only pressing the pedal lightly.





• Following the instructions shown, operate the pedal and press of each time.









• When calibration is over, "OK!" appears on the screen and play mode starts.

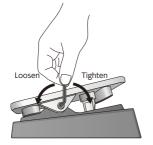
HINT

. If "ERROR!" appears, restart calibration from the beginning.

2 To adjust the torque

You can use a 5mm hex key (Allen wrench) to adjust the torque of the expression pedal.

Insert the hex key into the torque adjustment screw on the side of the pedal.
 Turn it clockwise to tighten the pedal, and turn it counterclockwise to loosen the pedal.



NOTE

 Be careful when loosening a torque adjustment screw, because if you loosen it too much, it could come off inside the unit, making it impossible to hold the pedal in place.

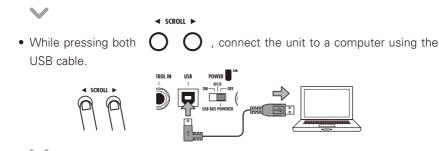
Updating the firmware

To download the latest firmware Update application:

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

HINT

- . Open the GLOBAL menu to check the current firmware versions. (See page 25.)
- 1 To prepare to update the firmware
 - Confirm that the POWER switch is set to OFF.



The VERSION UPDATE screen appears.



2 To update the firmware

 Launch the firmware update application on your computer, and execute the update.

NOTE

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

HINT

• See the ZOOM website for instructions about how to use the application.

3 | To complete updating

 When the G3/G3X has finished updating, "Complete!" appears on the display.

.....



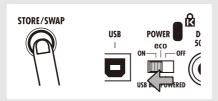
• Disconnect the USB cable.

HINT

· Updating the firmware will not erase saved patches.

Restoring the 53/53X to its factory default settings

- 1. To use the All Initialize function
 - While pressing , set the POWER switch to ON.



• The All Initialize screen appears.



2. To execute the All Initialize function

STORE/SWAP

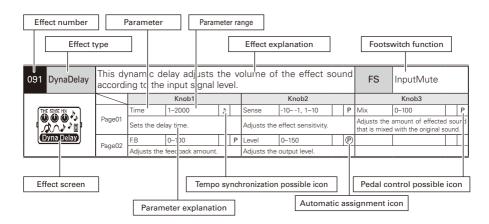
• Press O

NOTE

Press any key other than STORE/SWAP to cancel

HINT

Executing the All Initialize function will restore all the settings of the GB/GBX, including its patches, to
factory defaults. Do not use this function unless you are certain that you want to do this.



001 Comp	This compressor in the style of the MXR Dyna Comp. Knob1 Knob2 Knob3												
			Knob1				Knob2				Knob3		
SENSE TIME LEIEL	D 04	Sense	0-10		Р	Tone	0-10			Level	0-150		Р
000	Page01	Adjusts the	compressor sensi	tivity	<i>'</i> .	Adjusts the	tone.			Adjusts the	output level.		
		ATTCK	Slow, Fast										П
	Page02	Sets comp Fast or Slov	ressor attack sp v.	eed	to								
002 RackComp	This co	mpresso	r allows more	de	eta	iled adjus	stment than (100	ИF				
			Knob1				Knob2				Knob3		
20000		THRSH	0-50		Р	Ratio	1–10			Level	0-150		Р
KackLone 7	Page01	Sets the lo	evel that activat :	es t	he	Adjusts the	compression ratio).		Adjusts the	output level.		
	Dogo02	ATTCK	1–10										П
	Page02	Adjusts the	compressor attack	c rate	€.								
003 M Comp	This co	Adjusts the compressor attack rate. iis compressor provides a more natural sound.											
			Knob1				Knob2				Knob3		
THESH PATTO LEUEL		THRSH	0–50		Р	Ratio	1–10			Level	0-150		Р
H Comp	Page01	Sets the le compressor.	evel that activat	es t	he	Adjusts the	compression ratio).		Adjusts the	output level.		
	Page02	ATTCK	1-10										
	1 ageoz	Adjusts the	compressor attack	c rate	Э.								
004 SlowATTCK	This ef	ect slow:	s the attack o	f ea	ach	note, re	sulting in a v	iolir	n-li	ke perfor	mance.		
			Knob1				Knob2				Knob3		
TIME CURE LEVEL		Time	1–50		Р	Curve	0-10		Р	Level	0-150		Р
SION ATTCK	Page01	Adjusts the	attack time.			Set the curve attack.	e of volume chang	e dui	ing	Adjusts the	output level.		
	D02												Т
	Page02												
005 ZNR	ZOOM'	OOM's unique noise reduction cuts noise during pauses in playing without affe								fecting the to	ne.		
			Knob1				Knob2				Knob3		
* En Petitelate	Page01	THRSH	1–25		Р	DETCT	Gtrln, Efxln			Level	0-150	╧	Р
THESH LEVEL	i ageui	Adjusts the	effect sensitivity.			Sets control	signal detection l	evel		Adjusts the	output level.		
ZNR 🕹 🕹 📳	Page02												
	r-ageuz												

													_
006 NoiseGate	This is	a noise g	ate that cuts	the	SC	ound duri	ng playing p	ause	s.				
			Knob1				Knob2				Knob3		
	Page01	THRSH	1–25		Р	Level	0–150	Ш	Р				Ш
Noise Gate	ragcor	Adjusts the	effect sensitivity.			Adjusts the	output level.						_
	Page02												Щ
	1 ageoz												
007 DirtyGate	This vir	ntage sty	le gate featur	es a	С	haracteris	stic way of c	losir	ıg.				
7070 1707			Knob1				Knob2				Knob3		
0.0	Page01	THRSH	1–25		Р	Level	0–150		Р				Ш
DIRTY	- ageo:	Adjusts the	effect sensitivity.			Adjusts the	output level.						_
Sure Gillian	Page02			Ш	-			Ш	-				Н
008 GraphicEQ	This un	it has a s	ix band equa	lizer	:							-	
			Knob1				Knob2				Knob3		T
		160Hz	-12-12	П		400Hz	-12-12	П		800Hz	-12–12		П
	Page01	Boosts or cur band.	ts the low (160 Hz) fi	requer	су	Boosts or o		dle (40	00	Boosts or co	uts the middle () and.	300	Hz)
		3.2kHz	-12-12	Π	П	6.4kHz	-12-12		T	12kHz	-12-12		П
Graphic EQ	Page02	Boosts or frequency b	cuts the high (3 pand.	.2 kH	lz)		cuts the extrem quency band.	ely hi	gh	Boosts or o kHz) frequen	cuts the harmor	nics	(12
	Page03	Level	0-150	П	Р								
	rageus	Adjusts the	output level.										
009 ParaEQ	This is	a 2-band	parametric e	qual	lize	er.							
			Knob1				Knob2				Knob3		
	Page01	Freq1	20Hz–20kHz			Q1	0.5, 1, 2, 4, 8, 16			Gain1	-12–12		Ш
/ Cô Para ■	rageor	Adjusts cer	iter frequency of E	Q1.		Adjusts EQ1	Q.			Adjusts EQ1	gain.		\Box
FREQ. A GAIN	Page02	Freq2	20Hz–20kHz			Q2	0.5, 1, 2, 4, 8, 16			Gain2	-12–12		Ш
		Adjusts cer	iter frequency of E	_	_	Adjusts EQ2	2 Q.			Adjusts EQ2	gain.	,	_
	Page03	Level	0–150		Р								Щ
		Adjusts the	output level.				:						_
010 CombFLTR	This eff		the comb fil	ter t	tha	nt results	from fixing	the i	ma	odulation	of the flange	er li	ke
			Knob1				Knob2				Knob3		
FREE REED MIX		Freq	1–50	\Box	Р	Reso	-10-10	П	Р	Mix	0-100	П	Р
	Page01	This sets th	e emphasized free	gueno	v.		intensity of the re	sonan	се		amount of effecte		
		HiDMP	0-10	1	,	sound of the	effect. 0–150	1 1	P	that is mixed	with the original s	ound	d.
Comprin	Page02		treble attenuation	n of t	hρ			ш	Р				Ч
	9	effect soun		11 01 11	i ie	Adjusts the	output level.			-			
011 AutoWah	This eff	ect varie	s wah in acco	orda	nc	e with pi	cking intens	ty.					
			Knob1				Knob2				Knob3		
SENSE RESO LEVEL		Sense	-101, 110		Р	Reso	0–10		Р	Level	0-150		Р
AutoWah	Page01	Adjusts the	sensitivity of the	effect	:.	Adjusts the sound.	intensity of the re	sonan	ce	Adjusts the	output level.		
	Page02				4				4				Ц
012 Resonance	This eff	ect varie	s the resonar	nce :	filt	er freaue	ency accordi	na tr) n	ickina inte	ensity.		=
	<u> </u>	1	Knob1				Knob2	5 .0	7	9	Knob3	_	=
COURT OFFI IND	\vdash	Sense	-101, 110		P	Reso	0-10		P	Level	0-150		Р
Pesononce	Page01		sensitivity of the		_		intensity of the re		-	Adjusts the			H
	Page02												
	ı	1							- 1				

013 Cry	This eff	ect varies	s the sound li	ike	a t	alking mo	odulator.						
			Knob1				Knob2				Knob3		
BONGS DEED COMES		Range	1–10	П	Р	Reso	0-10	П	Р	Sense	-101, 110		Р
000	Page01	Adjusts the f by the effect	requency range pro	oces	sed	Adjusts the i resonance so	intensity of the mo	odulat	ion	Adjusts the	sensitivity of the	e effe	ct.
		Bal	0–100		Р	Level	0-150		Р				
	Page02	Adjusts the and effect s	balance between ounds.	orig	inal	Adjusts the	output level.						
014 M-Filter	This env	elope filte	r has the flavo	r of	a N	MOOG MF		filte	r aı	nd can be		rang	ge.
			Knob1	_			Knob2				Knob3		_
	D01	Freq	0–100		Р	Sense	0–10	Ш		Reso	0–10		P
	Page01	filter.	ım frequency of e	nvel	ope	Sets effect :				Sets effect			
LEGINOUS .	Page02	Туре	HPF, BPF, LPF			Chara	2Pole, 4Pole	Ш		VLCTY	Fast, Slow		
N-Filter ⊗		Sets filter ty	11.1		_		ount of filter appli	ed.	_	Sets speed	of filter action.		_
	Page03	Bal	0–100	L.	Р	Level	0-150	Ш	Р				
	1 ageos	Adjusts the and effect s	balance between ounds.	orig	inal	Adjusts the	output level.						
015 Step	This sp	ecial effe	ct gives the s	sou	nd	a steppe							
			Knob1	_			Knob2				Knob3		_
(Deconomic Deptition)	Page01	Depth	0–100			Rate	0-50	١	Р	Reso	0–10		P
	rageui		oth of the modular	tion.			eed of the modul	ation.	_	Adjusts the i	intensity of the n ound.	nodula	tion
	Page02	Shape	0–10			Level	0-150	Ш	Р				
			effect envelope.		_	Adjusts the							
016 SeqFLTR	The sec	quence fi	ter has the f	lavo	or c	of a Z.Vex							
			Knob1	_			Knob2				Knob3		_
SER FILTER	Page01	Step	2–8			PTTRN	1–8	Ш		Speed	1–50	Þ	P
			nber of sequence	step	S.	Sets effect				Sets modula	· · · · · · · · · · · · · · · · · · ·		_
	Page02	Shape	0-10			Reso	0–10	Ш	Р	Level	0-150		P
			sound envelope.	_	_	Sets effect i				Adjusts the	output level.		
017 RndmFLTR	This filt	er effect	changes char	ract	er	randomly							
			Knob1	_	_		Knob2				Knob3		_
	Page01	Speed	1–50	♪	Р	Range	0–100	Ш	Р	Reso	0-10		P
PRED (P) SPEED (P)		Sets modula		_			uency range affe	cted.		Sets effect	·	-	_
THE ORDER	Page02	Туре	HPF, BPF, LPF			Chara	2Pole, 4Pole	Ш		Bal	0-100	Ш.	P
Ned Trans	rageoz	Sets filter ty				Adjusts amo	ount of filter appli	ed.		and effect s	balance betwee ounds.	en orig	ginai
	Page03	Level	0–150		Р								
		Adjusts the	output level.		_								
018 Booster	The boo	oster incr	eases signal	gai	n t	o make t	he sound mo	ore p	00	werful.			
			Knob1				Knob2				Knob3		
GRIN LEVEL	Page01	Gain	0–100		Р	Tone	0–100	Ш		Level	0-150		Р
Booster	. agoo.	Adjusts the	gain.		_	Adjusts the	tone.			Adjusts the	output level.		_
	Page02							Ш					
019 OverDrive		tion of th	ne Boss OD	-1,	th	e compa	ct effect bo	x th	at	was the	first to ta	ıke t	he
		1	Knob1				Knob2				Knob3		
			KIIODI										
GRIM . LEVEL	David.	Gain	0-100	Π	Р	Tone	0-100	П		Level	0-150		P
GuerDrive	Page01	Gain Adjusts the	0–100		Р	Tone Adjusts the		П			0-150 output level.		Р

020 T Scream			e Ibanez TS8 ous clones.	oved by mar	ny g	uit	arists as	a booster ar	nd I	nas			
			Knob1				Knob2				Knob3		
		Gain	0-100		Р	Tone	0-100		П	Level	0-150	Т	Р
T Coverage	Page01	Adjusts the	gain.			Adjusts the	tone.	-	_	Adjusts the	output level.		
I Spreum □	D 00												
	Page02												
021 Governor	Simula	tion of th	e Guv'nor dis	tor	tio	n effect f		ıll.					
			Knob1				Knob2				Knob3	_	_
000	Page01	Gain	0–100		Р	Tone	0–100			Level	0-150		P
		Adjusts the	gain.	_		Adjusts the	tone.	_	_	Adjusts the	output level.	_	_
Governor	Page02												
022 Dist+	Simulat	ion of the	MXR distorti	ion-	+ e	ffect that		tion	рс	pular wor			
GREN LEVEL			Knob1		-		Knob2				Knob3		
	Page01	Gain	0–100		Р	Tone	0–100			Level	0-150		Р
DiSt+		Adjusts the	gain.	_	_	Adjusts the	tone.		_	Adjusts the	output level.	_	_
	Page02												
023 Dist 1	Simula	l tion of th	e Boss DS-1	dis	tor	l tion peda	I, which has	be	en	l a long-se	ller.		
			Knob1				Knob2				Knob3		
SAIN TIME LEVEL		Gain	0-100		Р	Tone	0-100			Level	0-150	Т	Р
Dist 1	Page01	Adjusts the	gain.			Adjusts the	tone.		_	Adjusts the	output level.		
51501	Page02												
024 Squeak	Simulat	ion of the	e popular Pro	Со	Ra	t famous		dist	or	tion sound			
CATHLE TRUE LEGIS			Knob1	_			Knob2	_	_		Knob3	_	
.000	Page01	Gain	0–100		Р	Tone	0–100			Level	0-150		P
Squeak		Adjusts the	gain.		_	Adjusts the	tone.		_	Adjusts the	output level.	_	_
	Page02												
025 FuzzSmile		tion of the lashing s	e Fuzz Face, ound.	wh	ich	has mad	le rock histo	ry v	/ith	its humo	orous panel o	des	ign
			Knob1				Knob2				Knob3		
SHEN LEHEL	D01	Gain	0-100		Р	Tone	0-100			Level	0-150	Т	Р
(.O_O.	Page01	Adjusts the	gain.			Adjusts the	tone.			Adjusts the	output level.		
1 UZZZJIIIIE	D00												
	Page02												
026 GreatMuff			e Electro-Har sweet fuzz s				f, which is I	oved	d b	y famous	artists arour	nd	the
			Knob1				Knob2				Knob3		
GAIN TONE LEVELY		Gain	0-100	П	Р	Tone	0-100		Г	Level	0-150	Т	Р
Great Muff	Page01	Adjusts the	gain.	-		Adjusts the	tone.		_	Adjusts the	output level.		-
or eachdart				П	П							Т	Т
	Page02			_					_				
027 MetalWRLD		tion of th	e Boss Meta	l Zc	ne	, which is	s characteriz	ed l	ру	long sust	ain and a po	we	rful
			Knob1				Knob2				Knob3		
		Gain	0–100	П	Р	Tone	0-100	T		Level	0-150	T	Р
MetalWRLD	Page01	Adjusts the	gain.	-		Adjusts the	tone.		_	Adjusts the	output level.		
TIE GRIANED						· ·				<u> </u>	I		
	Page02			_					_				_
	_												

Knob1 Knob2	in tube.	
	Knob3	
Gain 0-100 P Tone 0-100 Level	0-150	Р
Page01 Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
HotBox		П
Page02		
029 Z Clean ZOOM original unadorned clean sound.		
Knob1 Knob2	Knob3	
Gain 0-100 P Tone 0-100 Level	0-150	Р
Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
Z Clean Page 02		
O30 Z MP1 An original sound created by merging characteristics of an ADA MP1 JCM800.	and a MARSHAL	LL
Knob1 Knob2	Knob3	
(ain 0-100 P Tone 0-100 Level		Р
Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
Z MP1 (©) Page02		
031 Z Bottom A high gain sound that emphasizes low and middle frequencies.		_
Knob1 Knob2	Knob3	
Gain 0-100 P Tone 0-100 Level		Р
Page01 Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
Page02		
A high gain sound for lead playing based on the Mesa Boogie Road k	King Series II Lea	ad
Knob1 Knob2	Knob3	
Gain 0-100 P Tone 0-100 Level	0-150	Р
Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
Page02		
		_
An original high gain sound balanced from low to high frequencies.		
Knob1 Knob2	Knob3	
OOO Page01 Gain	0-150	Р
Adjusts the gain. Adjusts the tone. Adjusts the	output level.	
Page02		
	mbo amplifier.	_
034 Z Neos A crunch sound modeled on the sound of a modified British class A cor		
O34 Z Neos A crunch sound modeled on the sound of a modified British class A con	Knob3	
Knob1 Knob2 Gain 0-100 P Tone 0-100 Level	<u> </u>	Р
Knob1 Knob2	Knob3	Р
Knob1 Knob2	Knob3 0-150	Р
Knob1 Knob2	Knob3 0-150	P
	Knob3 0-150 output level.	P
	Knob3 0-150 output level. Knob3	
Name	Knob3 0-150	P
Name	Knob3 0-150 output level. Knob3	

036 Lead	ILead a	bright an	d smooth dis	tortic	n sound.				:	
			Knob1		1	Knob2			Knob3	
GAIN TIME LEVEL		Gain	0-100	Р	Tone	0-100		Level	0-150	Р
	Page01	Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.	
LEAD		<u> </u>	Ť	П	1				1	\top
200M 8002 J	Page02					'				
037 ExtremeDS	This dis	tortion e	ffect boasts t	he h	ghest gai	n in the world	d.			
			Knob1			Knob2			Knob3	
/A 000	Page01	Gain	0–100	P		0–100		Level	0–150	P
EXTREME		Adjusts the	gain.		Adjusts the	tone.		Adjusts the	output level.	
© DISTORTION	Page02									
038 Aco.Sim	This eff	ect chan	ges the tone	of ar	electric g	guitar to make	it so	und like a	ın acoustic g	guitar.
			Knob1			Knob2			Knob3	
ACOUSTIC TO ANY LINE		Тор	0–100	P	,	0–100		Level	0-150	P
0000	Page01	Adjusts th acoustic gu	e unique string t itars.	one o	f Adjusts the guitars.	body resonance of	acoustic	Adjusts the	output level.	
	Page02									
	9								:	
039 FD COMBO	Modele	d sound	of a Fender Tw	/in Re	everb ('65),		d by g	juitarists i		res.
			Knob1			Knob2			Knob3	
	Page01	Gain Adjusts the	0–100 gain.	P		0–100 e amp compressio	n.	Level Adjusts the	0-150 output level.	P
1000	D02	Trebl	0-100		Middl	0-100		Bass	0-100	
	Page02	Adjusts volu	ume of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	ime of low freque	encies.
	Page03	Prese	0-100		CAB	See Table 1				
	rageoo	Adjusts volur	ne of super-high freq	uencies	. Selects cab	inet.				
040 DELUXE-R	This mo	odels the	sound of a F	ende	r Deluxe I	Reverb made	in 19	65.		
			Knob1			Knob2			Knob3	
	Page01	Gain	0–100	l I P						
000		Adjusts the		т.	1000	0–100		Level	0-150	Р
DELUXE R		-	ř		Adjusts tub	e amp compressio	n.	Adjusts the	output level.	Р
addennaddennad	Page02	Trebl	0-100		Adjusts tub Middl	e amp compressio		Adjusts the Bass	output level. 0-100	
аааааааааааааа	Page02	Trebl Adjusts voli	0-100 ume of high freque	encies.	Adjusts tub Middl Adjusts volu	e amp compression 0-100 Ime of middle frequ		Adjusts the Bass	output level.	
(caaaaaaaaaaaaaaaa	Page02	Trebl Adjusts volu Prese	0-100 ume of high freque		Adjusts tub Middl Adjusts volu CAB	e amp compression 0–100 Ime of middle frequency See Table 1		Adjusts the Bass	output level. 0-100	
CAAL ED VIDEO	Page03	Trebl Adjusts volu Prese Adjusts volur	0-100 ume of high freque 0-100 me of super-high freq	quencies	Adjusts tub Middl Adjusts volu CAB Selects cab	e amp compression 0–100 Ime of middle frequency See Table 1		Adjusts the Bass	output level. 0-100	
041 FD VIBRO	Page03	Trebl Adjusts volu Prese Adjusts volur	0-100 ume of high freque 0-100 me of superhigh freq of a '63 Fence	quencies	Adjusts tub Middl Adjusts volu CAB Selects cab	0–100 me of middle frequinet.		Adjusts the Bass	output level. 0–100 Ime of low freque	
041 FD VIBRO	Page03	Trebl Adjusts volu Prese Adjusts volur ed sound	0–100 ume of high freque 0–100 me of super-high freq of a '63 Fence Knob1	quencies der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab	e amp compression 0–100 Ime of middle frequing See Table 1 Iniet. Knob2		Adjusts the Bass Adjusts volu	output level. 0–100 Ime of low freque Knob3	encies.
041 FD VIBRO	Page03	Trebl Adjusts volu Prese Adjusts volur ed sound Gain	0-100 ume of high freque 0-100 me of superhigh freq of a '63 Fenc Knob1 0-100	quencies	Adjusts tub Middl Adjusts volu CAB Selects cab broverb.	e amp compression 0-100 me of middle frequence See Table 1 inet. Knob2 0-100	Jencies.	Adjusts the Bass Adjusts volu	output level. 0–100 me of low freque Knob3 0–150	
041 FD VIBRO	Page03	Trebl Adjusts volumed sound Gain Adjusts the	o-100 o-100 o-100 o-100 o-100 o-100 of a '63 Fence Knob1 o-100 gain.	quencies der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab broverb. Tube Adjusts tub	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the	output level. 0–100 me of low frequence Knob3 0–150 output level.	encies.
041 FD VIBRO	Page03	Trebl Adjusts volumed sound Gain Adjusts the	D-100 Jme of high freque D-100 me of superhigh freq of a '63 Fenc Knob1 D-100 gain. D-100	quencies der Vi	Adjusts tub Middl Adjusts volu CAB . Selects cab broverb. Tube Adjusts tub Middl	e amp compression 0-100 me of middle frequ See Table 1 inet. Knob2 0-100 e amp compression 0-100	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0-100 me of low frequence Knob3 0-150 output level. 0-100	encies.
041 FD VIBRO	Page03 Modele Page01	Trebl Adjusts volumed Sound Gain Adjusts the Trebl Adjusts volumed Sound	0-100 me of high freque 0-100 me of superhigh freq of a '63 Fenc Knob1 0-100 gain. 0-100 une of high freque	quencies der Vi	Adjusts tub Middl Adjusts volu CAB . Selects cab broverb. Tube Adjusts tub Middl Adjusts volu	e amp compressio 0-100 me of middle frequ See Table 1 inet. Knob2 0-100 e amp compressio 0-100 me of middle frequ me of middle frequ	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0–100 me of low frequence Knob3 0–150 output level.	encies.
041 FD VIBRO	Page03 Modele Page01	Trebl Adjusts volu Prese Adjusts volur ed SOUNd Gain Adjusts the Trebl Adjusts volu	0-100 ume of high freque 0-100 me of superhigh freq of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100	der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab broverb. Tube Adjusts tub Middl Adjusts volu CAB	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0-100 me of low frequence Knob3 0-150 output level. 0-100	encies.
IDVISIO.	Page03 Modele Page01 Page02 Page03	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur	0-100 ume of high freque 0-100 ne of superhigh freq of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 ume of high freque 0-100 ne of superhigh freq	quencies der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab Droverb Tube Adjusts tub Middl Adjusts tub Middl Adjusts volu CAB Selects cab	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0-100 me of low frequence Knob3 0-150 output level. 0-100	encies.
041 FD VIBRO FD VIBRO FD VIBRO 042 US BLUES	Page03 Modele Page01 Page02 Page03	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur	0-100 ume of high freque 0-100 ne of superhigh freq of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 ume of high freque 0-100 ne of superhigh freq f a Fender Tw	quencies der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab Droverb Tube Adjusts tub Middl Adjusts tub Middl Adjusts volu CAB Selects cab	e amp compressio 0-100 me of middle frequ See Table 1 inet. Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet.	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0-100 me of low frequence Knob3 0-150 output level. 0-100 me of low frequence 0-100 me of low frequence 0-100	encies.
IDIVISIO.	Page03 Modele Page01 Page02 Page03	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur	0-100 ume of high freque 0-100 me of superhigh freq of a (63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 me of superhigh freque 0-100 freque 0-100 freque Knob1	der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab broverb. Tube Adjusts tub Middl Adjusts tub CAB Selects cab Adjusts tub CAB Selects cab Adjusts tub Middl Adjusts volu CAB Selects cab	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 Knob2	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass	output level. 0–100 me of low frequence Knob3 0–150 output level. 0–100 me of low frequence Knob3	encies.
IDIVISIO.	Page03 Modele Page01 Page02 Page03	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur Sound O'	0-100 ume of high freque 0-100 me of superhigh freq 0-100 e of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 me of superhigh freq f a Fender TW Knob1 0-100	quencies der Vi	Adjusts tub Middl Adjusts volu CAB Selects cab broverb. Tube Adjusts volu CAB Adjusts tub Middl Adjusts tub Selects cab Adjusts tub Adjusts tub Adjusts volu CAB Selects cab Bassman.	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 me of middle frequ See Table 1 inet.	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts the Bass Adjusts volu Level	output level. 0–100 me of low frequence Knob3 0–150 output level. 0–100 me of low frequence Knob3 0–150	encies.
IDIVISIO.	Page03 Modele Page01 Page02 Page03 Crunch	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur Sound of	0-100 ume of high freque 0-100 me of superhigh freq of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 me of superhigh freque 0-100 me of superhigh freque f a Fender Tw Knob1 0-100 gain.	der Vi	Adjusts tub Middl Adjusts volu. CAB Selects cab broverb. Tube Adjusts tub Middl Adjusts tub Middl Adjusts volu CAB Selects cab Middl Adjusts volu CAB Selects cab Bassman. Tube Adjusts tub	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet.	Jencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts volu Level Adjusts the Adjusts volu Level Adjusts volu Adjusts volu	output level. 0–100 Ime of low frequence Knob3 0–150 output level. 0–100 Ime of low frequence Knob3 0–150 output level. Output level.	encies.
FDYTBRO	Page03 Modele Page01 Page02 Page03 Crunch	Trebl Adjusts volur Prese Adjusts volur ed Sound Gain Adjusts the Trebl Adjusts volur Sound o' Gain Adjusts the Trebl Adjusts the Trebl Adjusts the Trebl Adjusts the Trebl	0-100 ume of high freque 0-100 ne of superhigh freq 0f a '63 Fenc Knob1 0-100 gain. 0-100 me of high freque 0-100 ne of superhigh freq f a Fender Tw- Knob1 0-100 gain. 0-100	F F F F F F F F F F F F F F F F F F F	Adjusts tub Middl Adjusts volu CAB Selects cab Droverb Tube Adjusts tub Middl Adjusts tub Middl Adjusts volu CAB Selects cab Selects cab Middl Adjusts volu CAB Adjusts volu CAB Adjusts tub Middl Middl	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 see Table 1 inet. Knob2 0–100 e amp compressio 0–100 e amp compressio 0–100	June lencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts the Level Adjusts volu Level Adjusts the Level Adjusts the	output level. 0-100	P P P P P P P P P P P P P P P P P P P
042 US BLUES	Page03 Modele Page01 Page02 Page03 Crunch	Trebl Adjusts volur Prese Adjusts volur Cod Sound Adjusts the Trebl Adjusts volur Sound O Gain Adjusts volur Gainst volur Adjusts volur Sound O Gain Adjusts the Trebl Adjusts volur Adjusts volur Adjusts volur Adjusts vol	0-100 ume of high freque 0-100 me of super-high freq of a '63 Fenc Knob1 0-100 gain. 0-100 ume of high freque 0-100 me of super-high freq f a Fender Tw Knob1 0-100 gain. 0-100 ume of high freque 0-100 ume of high freque 0-100 ume of high freque	F F F F F F F F F F F F F F F F F F F	Adjusts tub Middl Adjusts volu Adjusts volu CAB Selects cab Droverb. Tube Adjusts tub Middl Adjusts volu CAB Selects cab Tube Adjusts volu Adjusts volu CAB Selects cab Adjusts volu Adjusts volu Adjusts volu Middl Adjusts tub Middl Adjusts volu Adjusts volu	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 e amp compressio 0–100 e amp compressio 0–100 me of middle frequ me of middle frequ	June lencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts the Level Adjusts volu Level Adjusts the Level Adjusts the	output level. 0–100 Ime of low frequence Knob3 0–150 output level. 0–100 Ime of low frequence Knob3 0–150 output level. Output level.	P P P P P P P P P P P P P P P P P P P
042 US BLUES	Page03 Modele Page01 Page02 Page03 Crunch	Trebl Adjusts volur Prese Adjusts volur ed sound Gain Adjusts the Trebl Adjusts volur Prese Adjusts volur Sound or Gain Adjusts the Trebl Adjusts volur Sound or Gain Adjusts the Trebl Adjusts the Trebl Adjusts the Trebl Adjusts volur	0-100 ume of high freque 0-100 ne of superhigh freq 0f a '63 Fenc Knob1 0-100 gain. 0-100 me of high freque 0-100 ne of superhigh freq f a Fender Tw- Knob1 0-100 gain. 0-100	Juencies FF	Adjusts tub Middl Adjusts volu CAB Selects cab Droverb. Tube Adjusts tub Middl Adjusts tub Middl Adjusts tub Middl Adjusts volu CAB Selects cab Sassman. Tube Adjusts tub Middl Adjusts volu CAB	e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet. Knob2 0–100 e amp compressio 0–100 me of middle frequ See Table 1 inet.	June lencies.	Adjusts the Bass Adjusts volu Level Adjusts the Bass Adjusts the Level Adjusts volu Level Adjusts the Level Adjusts the	output level. 0-100	P P P P P P P P P P P P P P P P P P P

	Modele	ed sound	of a British	comb	o amplifie	r representin	ng the	1960s Liv	erpool soun	nd.	
			Knob1			Knob2			Knob3		
		Gain	0-100	П	P Tube	0–100	П	Level	0-150	Т	Р
DATH THE LEHEL	Page01	Adjusts the	gain.		Adjusts tub	e amp compressi	ion.	Adjusts the	output level.		
000		Trebl	0-100		Middl	0-100		Bass	0-100	Т	Т
IVX COMBOXXX	Page02	Adjusts vol	lume of high frequ	encies	. Adjusts vol	ume of middle freq	uencies.	Adjusts volu	ıme of low frequ	encie	es.
********		Prese	0-100		CAB	See Table 1				Т	Т
	Page03	Adjusts volu	me of super-high fre	quencie	s. Selects cal	oinet.			1		
44 VX JMI	This sir	nulates t	the sound of	an e	arly model	of a class-A	Britisl	n combo a	amp.		
			Knob1			Knob2			Knob3		
	Dogo01	Gain	0-100		P Tube	0-100		Level	0-150		P
GAIN THE LEVEL	Page01	Adjusts the	gain.		Adjusts tub	e amp compressi	ion.	Adjusts the	output level.		
	D 00	Trebl	0-100		Middl	0-100		Bass	0-100	Т	Т
VX JIMI	Page02	Adjusts vol	lume of high frequ	encies	. Adjusts vol	ume of middle fred	uencies	Adjusts volu	ime of low frequ	iencia	es.
<u> </u>		Prese	0-100	TT	CAB	See Table 1				\top	Т
	Page03	Adjusts	volume of sup s.	er-hig	h Selects cal						
5 BG CRUNCH	Crunch	sound c	f a Mesa Bo	ogie	MkIII com	bo amp.					
			Knob1			Knob2			Knob3		
		Gain	0-100	\top	P Tube	0-100		Level	0-150		P
CACH THE LEVEL	Page01	Adjusts the	gain.		Adjusts tub	e amp compressi	ion.	Adjusts the	output level.		
		Trebl	0-100		Middl	0-100		Bass	0-100	П	Т
BG CRUNCH	Page02	Adjusts vol	lume of high frequ	encies	. Adjusts vol	ume of middle freq	uencies.	Adjusts volu	ume of low frequ	encia	es.
9		Prese	0-100		CAB	See Table 1		<u> </u>		\top	Т
	Page03		me of super-high fre	auencie							
16 MATCH 30	Madal						logobii	o o o o o o o			
IVIATCH 30	Vioueie	tu Souria	of a DC-30	CHari	1		aysiii	T			
		Gain	Knob1 0-100		P Tube	Knob2 0–100		Level	Knob3 0-150	_	ТР
E DATH THE LOUD E	Page01		1								P
000		Adjusts the	-i			e amp compressi	ion.	-	output level.	_	_
MATCH30	Page02	Trebl	0–100		Middl	0–100		Bass	0–100		
[IMATORIOO		<u> </u>	lume of high frequ	encies	- '	ume of middle freq	uencies.	Adjusts volu	ıme of low frequ	encie	es.
	Page03	Prese	0-100		CAB	See Table 1				\perp	\perp
		Adjusts volu	me of super-high fre	quencie	s. Selects cal	oinet.					
7 CAR DRIVE	This m	odels the	sound of a	Carr	Mercury h	igh-end smal	ll com	bo amp.			
			Knob1			Knob2			Knob3		
	Page01	Gain	0-100		P Tube	0-100		Level	0-150		P
WH WE UP	1 ageor	Adjusts the	gain.		Adjusts tub	e amp compressi	ion.	Adjusts the	output level.		
000	Page02	Trebl	0-100		Middl	0-100		Bass	0-100		Т
CAR	Pageuz	Adjusts vol	lume of high frequ	encies	. Adjusts vol	ume of middle fred	uencies	Adjusts volu	ume of low frequ	encie	es.
DRIVE		Prese	0-100		CAB	See Table 1				Т	Т
	Page03	Adjusts of frequencies	volume of sup	er-hiç	Selects cal	oinet.					_
18 TW ROCK			und uses th	ne dr	ive chann	el of a Two	Rock	Emerald	50, an Am	erio	car
		·	Knob1			Knob2			Knob3		
		Gain	0-100	ТТ	P Tube	0-100	\top	Level	0-150	\top	ТР
	Page01	Adjusts the	1			1	ion		output level.		Τ.
DATH TURE LEVEL		I mujusts the	gail.		Aujusts tut	e amp compressi	IUII.	+ -		_	_
		Trobl	0 100		Middl	0 100					
TIM ROCY	Page02	Trebl	0-100	Ш	Middl	0-100		Bass	0-100		
TW ROCK	Page02	Adjusts vol	lume of high frequ	uencies	. Adjusts vol	ume of middle freq	uencies.		ume of low frequ	iencie	es.
TW ROCK	Page02	Adjusts vol Prese	1		. Adjusts vol	ume of middle freq	juencies.			iencie	es.

049 TONE CITY	This mo	odels the	sound of a S	Sound	City 50 F	Plus Mark 2, a	lege	ndary Brit	ish amplifie	r.
			Knob1		1	Knob2			Knob3	
		Gain	0–100	Р	Tube	0-100		Level	0-150	Р
TOUR OUT	Page01	Adjusts the	gain.		Adjusts tube	e amp compressio	n.	Adjusts the	output level.	
TONE CITY		Trebl	0–100		Middl	0-100		Bass	0-100	
	Page02	Adjusts volui	me of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low frequ	encies.
<u> </u>		Prese	0-100		CAB	See Table 1				
	Page03	Adjusts volum	e of super-high freq	uencies	Selects cab	inet.				
050 HW STACK	Modele	ed sound o	of the legend	dary I	Hiwatt Cus	stom 100 all-t	ube a	mplifier f	rom the UK	
			Knob1			Knob2			Knob3	
	Page01	Gain	0–100	P	Tube	0–100		Level	0-150	P
·HW STACK·		Adjusts the o			-	e amp compressio	n.	Adjusts the		
DATH TUBE LEVEL	Page02	Trebl	0–100		Middl	0–100		Bass	0–100	
		<u> </u>	me of high freque	encies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low frequ	encies.
	Page03		0–100		CAB	See Table 1				
		Adjusts volum	e of super-high freq	uencies	Selects cab	inet.			:	
051 TANGERINE	This mo	odels the		hic 1	20 with it	s unique des	gn an	d sound.		
			Knob1			Knob2			Knob3	
	Page01		0–100	P	Tube	0–100		Level	0-150	P
ATANGERINE	- 5	Adjusts the	gain.		_	e amp compressio	n.	Adjusts the		
222	Page02		0–100		Middl	0–100		Bass	0–100	
			me of high freque	encies.	_	me of middle frequ	encies.	Adjusts volu	me of low frequ	encies.
	Page03		0–100		CAB	See Table 1				
<u></u>		Adjusts volum	e of super-high freq	uencies	Selects cab	inet.				
AEA D DDEAME					'					
052 B-BREAKER	This mo	odels the		/larsh	all 1962 E	Bluesbreaker (comb	o amp.		
052 B-BREAKER	This mo		Knob1			Knob2	comb		Knob3	
052 B-BREAKER		Gain	Knob1 0–100	/larsh	Tube	Knob2 0–100		Level	0-150	Р
052 B-BREAKER	This mo	Gain Adjusts the g	Knob1 0–100 gain.		Tube Adjusts tube	Knob2 0–100 e amp compressio		Level Adjusts the	0-150 output level.	P
GRIN THE LEHRL	Page01	Gain Adjusts the g	Knob1 0–100 gain. 0–100	P	Tube Adjusts tube Middl	Knob2 0-100 e amp compressio 0-100	n.	Level Adjusts the Bass	0-150 output level. 0-100	
052 B-BREAKER		Gain Adjusts the g	Knob1 0–100 gain.	P	Tube Adjusts tube Middl	Knob2 0–100 e amp compressio	n.	Level Adjusts the Bass	0-150 output level.	
GRIN THE LEHRL	Page01 Page02	Gain Adjusts the g Trebl Adjusts volui Prese	Knob1 0-100 gain. 0-100 me of high freque 0-100	P encies.	Tube Adjusts tube Middl Adjusts volu CAB	Knob2 0-100 e amp compressio 0-100	n.	Level Adjusts the Bass	0-150 output level. 0-100	
GRIN THE LEHRL	Page01	Gain Adjusts the g Trebl Adjusts volui Prese	Knob1 0–100 gain. 0–100 me of high freque	P encies.	Tube Adjusts tube Middl Adjusts volu CAB	Knob2 0-100 e amp compressio 0-100 Ime of middle frequ See Table 1	n.	Level Adjusts the Bass	0-150 output level. 0-100	
GRIN THE LEHRL	Page01 Page02 Page03	Gain Adjusts the g Trebl Adjusts volui Prese Adjusts vo frequencies.	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe	P encies.	Tube Adjusts tube Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 Ime of middle frequ See Table 1	n. encies.	Level Adjusts the Bass Adjusts volu	0–150 output level. 0–100 me of low frequ	
D-BREAKER	Page01 Page02 Page03	Gain Adjusts the g Trebl Adjusts volui Prese Adjusts vo frequencies.	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe	P encies.	Tube Adjusts tube Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet.	n. encies.	Level Adjusts the Bass Adjusts volu	0–150 output level. 0–100 me of low frequ	
D-BREAKER	Page01 Page02 Page03 The cru	Gain Adjusts the g Trebl Adjusts volun Prese Adjusts volun frequencies.	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe	P encies.	Tube Adjusts tube Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir	n. encies.	Level Adjusts the Bass Adjusts volu	0–150 output level. 0–100 me of low frequences.	
D-BREAKER 053 MS CRUNCH	Page01 Page02 Page03	Gain Adjusts the g Trebl Adjusts volun Prese Adjusts volun frequencies.	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe d of the Mar Knob1 0-100	Pencies.	Tube Adjusts tube Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2	n. encies. th to	Level Adjusts the Bass Adjusts volu	0-150 output level. 0-100 me of low frequence ends. Knob3 0-150	encies.
D-BREAKER	Page01 Page02 Page03 The cru Page01	Gain Adjusts the game Adjusts volume Prese Adjusts volume Adjusts volume Gain Adjusts the game Adjusts the g	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe d of the Mar Knob1 0-100	Pencies.	Tube Adjusts tube Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bin Knob2 0-100	n. encies. th to	Level Adjusts the Bass Adjusts volu many leg	0-150 output level. 0-100 me of low frequence ends. Knob3 0-150	encies.
D-BREAKER 053 MS CRUNCH	Page01 Page02 Page03 The cru	Gain Adjusts the g Trebl Adjusts volun Prese Adjusts vol frequencies. Inch sound Gain Adjusts the g Trebl	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe d of the Mar Knob1 0-100 gain.	encies. shall	Tube Adjusts tube Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tube Middl	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level.	encies.
D-BREAKER 053 MS CRUNCH	Page01 Page02 Page03 The cru Page01 Page02	Gain Adjusts the of Trebl Adjusts volunder of Trebl Adjusts volunder of Trebl Adjusts volunder of Trebl Gain Adjusts the of Trebl Adjusts volunder of Trebl	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe d of the Mar Knob1 0-100 gain. 0-100	encies. shall	Tube Adjusts tube Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tube Middl	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100	encies.
D-BREAKER 053 MS CRUNCH	Page01 Page02 Page03 The cru Page01	Gain Adjusts the of Trebl Adjusts volun Prese Adjusts volun Gain Adjusts the of Trebl Adjusts the of Trebl Adjusts volun Adjusts volun Adjusts volun Adjusts volun Adjusts volun	Knob1 0-100 nain. 0-100 nain. 0-100 0-100 nain. 0-100 nain. 0-100 nain. 0-100 nain. 0-100 nain. 0-100 me of high freque	encies.	Tube Adjusts tubin Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubin Middl Adjusts volu CAB	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100	encies.
D-BREAKER 053 MS CRUNCH	Page01 Page02 Page03 The cru Page01 Page02 Page02	Gain Adjusts the quantity of the property of t	Knob1 0-100 0-100 0-100 0-100 0-100 0-100 d of the Mar Knob1 0-100 0-100 0-100 me of high freque 0-100 me of high freque 0-100 e of super-high freque	PP P P P P P P P P P P P P P P P P P P	Tube Adjusts tubin Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubin Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100	encies.
D-BREAKER 053 MS CRUNCH MS CRUNCH	Page01 Page02 Page03 The cru Page01 Page02 Page02	Gain Adjusts the quantity of the property of t	Knob1 0-100 0-100 0-100 0-100 0-100 0-100 d of the Mar Knob1 0-100 0-100 0-100 me of high freque 0-100 me of high freque 0-100 e of super-high freque	PP P P P P P P P P P P P P P P P P P P	Tube Adjusts tubin Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubin Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet.	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100	encies.
D-BREAKER 053 MS CRUNCH MS CRUNCH	Page01 Page02 Page03 The cru Page01 Page02 Page03 This mo	Gain Adjusts the of Trebl Adjusts volun Prese Adjusts vo frequencies. Adjusts the of Trebl Adjusts volun Adjusts volun Adjusts volun Prese Adjusts volun Adjusts volun Adjusts volun Adjusts volun Adjusts volun Adjusts volun	Knob1 0-100 0-100 0-100 0-100 0-100 0-100 d of the Mar Knob1 0-100 0-100 0-100 me of high freque 0-100 me of high freque 0-100 e of super-high freque	PP P P P P P P P P P P P P P P P P P P	Tube Adjusts tubin Middl Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubin Middl Adjusts volu CAB Selects cab	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet.	n. encies.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ	encies.
D-BREAKER 053 MS CRUNCH MS CRUNCH 054 MS 1959	Page01 Page02 Page03 The cru Page01 Page02 Page02	Gain Adjusts the of Trebl Adjusts volun Prese Adjusts vo frequencies. Adjusts the of Trebl Adjusts volun Adjusts volun Adjusts volun Prese Adjusts volun Adjusts volun Adjusts volun Adjusts volun Adjusts volun Adjusts volun	Knob1 0-100 gain. 0-100 me of high freque 0-100 d of the Mar Knob1 0-100 gain. 0-100 me of high freque 0-100 gain. 0-100 e of super-high freque Sound of a N Knob1 0-100	PP Process Pro	Tube Adjusts tubu Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubu Middl Adjusts volu CAB Selects cab all 1959 F	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 e amp compressio 0-101 See Table 1 inet.	nn. encies. 11969.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass Adjusts volu	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ Knob3 0-150	encies.
D-BREAKER 053 MS CRUNCH MS CRUNCH	Page01 Page02 Page03 The cru Page01 Page02 Page03 This mo	Gain Adjusts the of Trebl Adjusts volunter of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatment of the treatment of the treatment of treatment of the treatm	Knob1 0-100 gain. 0-100 me of high freque 0-100 d of the Mar Knob1 0-100 gain. 0-100 me of high freque 0-100 gain. 0-100 e of super-high freque Sound of a N Knob1 0-100	PP Process Pro	Tube Adjusts tubu Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubu Middl Adjusts volu CAB Selects cab all 1959 F	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 e amp compressio 0-100 See Table 1 inet.	nn. encies. 11969.	Level Adjusts the Bass Adjusts volu many leg Level Adjusts the Bass Adjusts the Level Level	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ Knob3 0-150	encies.
D-BREAKER 053 MS CRUNCH MS CRUNCH WS L959 WS L959	Page01 Page02 Page03 The cru Page01 Page02 Page03 This mo	Gain Adjusts the of Trebl Adjusts volue Prese Adjusts volue Adjusts volue Adjusts volue Adjusts volue Adjusts volue Adjusts the of Trebl Adjusts volue Adjusts volue Adjusts volue Adjusts volue Adjusts volue Adjusts volue	Knob1 0-100 gain. 0-100 me of high freque 0-100 blume of supe d of the Mar Knob1 0-100 gain. 0-100 gain. 0-100 e of super-high freque 0-100 sound of a N Knob1 0-100 gain.	PP Pr-high	Tube Adjusts tube Adjusts tube Adjusts volu CAB Selects cab 1959 that Tube Adjusts tube Middl Adjusts volu CAB Selects cab Tube Adjusts volu CAB Selects cab Adjusts volu	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bin Knob2 0-100 e amp compressio 0-100 See Table 1 inet. Plexi made in Knob2 0-100 e amp compressio e amp compressio	nn. encies. 11969.	Level Adjusts the Bass Adjusts volu Many leg Level Adjusts the Bass Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ Knob3 0-150 output level.	P P
D-BREAKER 053 MS CRUNCH MS CRUNCH 054 MS 1959	Page01 Page02 Page03 The cru Page01 Page02 Page03 This mo	Gain Adjusts the of Trebl Adjusts volun Prese Adjusts volun Gain Adjusts the of Trebl Adjusts volun Gain Adjusts volun Prese Adjusts volun Odels the Gain Adjusts the of Adjusts volun	Knob1 0–100 Jain. 0–100 Jain. 0–100 Jain. 0–100 Jume of high freque 0–100 Jume of super Knob1 0–100 Jain. 0–100 Jain. 0–100 Jain. 0–100 Sound of a N Knob1 0–100 Sound of a N Knob1 0–100 Jain. 0–100 Jain. 0–100 Jain. 0–100	PP Pr-high	Tube Adjusts tube Adjusts tube Adjusts volu CAB Selects cab 1959 that Tube Adjusts tube Middl Adjusts volu CAB Selects cab Tube Adjusts volu CAB Selects cab Adjusts volu	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. Plexi made in Knob2 0-100 e amp compressio 0-100 Rob2	nn. encies. 11969.	Level Adjusts the Bass Adjusts volu Many leg Level Adjusts the Bass Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ Knob3 0-150 output level. 0-100	P P
D-BREAKER 053 MS CRUNCH MS CRUNCH WS L959 WS L959	Page01 Page02 Page03 The cru Page01 Page02 Page03 This mo	Gain Adjusts the quantity of the property of t	Knob1 0-100 1-100	PP pencies. shall PP pencies. Arsh PP	Tube Adjusts tubi Adjusts volu CAB Selects cab 1959 that Tube Adjusts tubi Middl Adjusts volu CAB Selects cab Middl Adjusts volu CAB Selects cab Adjusts volu CAB	Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. has given bir Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. Plexi made in Knob2 0-100 e amp compressio 0-100 me of middle frequ See Table 1 inet. Vexi made in Knob2 0-100 0-100 me of middle frequ See Table 1 inet.	nn. encies. 11969.	Level Adjusts the Bass Adjusts volu Many leg Level Adjusts the Bass Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu Level Adjusts volu	0-150 output level. 0-100 me of low frequ ends. Knob3 0-150 output level. 0-100 me of low frequ Knob3 0-150 output level. 0-100	P P

055 MS DRIVE	The hie	h gain sou	nd of a ICN		Marchal	L ctack amp				
055 WIS DITIVE		i gair soui	Knob1	12000	T IVIAI SI IAI	Knob2			Knob3	
	_	Gain 0	-100	Р	Tube	0-100		Level	0-150	Р
4	Page01	Adjusts the ga		П.		e amp compressio	n .	Adjusts the		Н.
MS DRIVE		-	-100		Middl	0-100		Bass	0-100	П
EAIN THE LEVEL	Page02		e of high freque	ncies		me of middle frequ	encies		me of low freque	ncies
<u>; </u>		-	-100	TICICS.	CAB	See Table 1	110103.	Aujusts void	THE OF IOW HEGGE	110103.
	Page03		of super-high frequ	iancias	-					
056 BGN DRIVE	This sir					3 of a Bogne	r Ecs	tasy.		
	$\overline{}$		Knob1			Knob2			Knob3	
		Gain 0	-100	Р	Tube	0-100		Level	0-150	Р
	Page01	Adjusts the ga	iin.		Adjusts tube	e amp compressio	n.	Adjusts the	output level.	
$ag_{\mathcal{H}} a_{\mathcal{H}}$		Trebl 0-	-100		Middl	0-100		Bass	0-100	
0561	Page02	Adjusts volum	e of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low freque	ncies.
		Prese 0	-100		CAB	See Table 1				
	Page03	Adjusts volume	of super-high frequ	uencies.	Selects cab	inet.				
057 BG DRIVE	The hig	h gain sou	nd of the M	esa E	Boogie Du	ual Rectifier re	ed cha	annel (Vin	tage mode).	
			Knob1			Knob2			Knob3	
	Page01	Gain 0	-100	Р	Tube	0–100		Level	0-150	P
BG DRIVE	rageui	Adjusts the ga	iin.		Adjusts tube	e amp compressio	n.	Adjusts the	output level.	
COTO THE LEIG	Page02	Trebl 0-	-100		Middl	0-100		Bass	0-100	
. 000	1 ageuz	Adjusts volum	e of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low freque	ncies.
·	Page03	Prese 0-	-100		CAB	See Table 1				
	. agooo	Adjusts volume	of super-high frequency	uencies.	Selects cab	inet.				
058 DZ DRIVE						Herbert, which ndent channe		a handma	de German (guitar
			Knob1			Knob2			Knob3	
	D01	Gain 0-	-100	Р	Tube	0-100		Level	0-150	Р
> OZ ORIVE	Page01	Adjusts the ga	iin.		Adjusts tube	e amp compressio	n.	Adjusts the	output level.	
2. 2. 2. 2. 2.	Page02	Trebl 0-	-100		Middl	0-100		Bass	0-100	
	rageuz	Adjusts volum	e of high freque	ncies.	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low freque	ncies.
	Page03	Prese 0-	-100		CAB	See Table 1				
	1 agcoo	Adjusts volume	of super-high frequency	uencies.	Selects cab	inet.				
059 ALIEN	This sir	nulates the	high-gain s	ound	of the En	gl Invader, wł	nich fe	eatures a p	owerful low	-end.
			Knob1			Knob2			Knob3	
	Page01	Gain 0-	-100	Р	Tube	0–100		Level	0-150	P
- VALEY	- agoor	Adjusts the ga				e amp compressio	n.	Adjusts the		
EATH TUBE LEVEL	Page02	Trebl 0-	-100		Middl	0–100		Bass	0–100	
(400	. ugooz	Adjusts volum	e of high freque	ncies	Adjusts volu	me of middle frequ	encies.	Adjusts volu	me of low freque	ncies.
		<u> </u>			-					
1	Page03	Prese 0	-100		CAB	See Table 1				
	Page03	Prese 0			CAB	See Table 1				
060 REVO-1		Prese 0- Adjusts volume	-100 of super-high frequ	uencies.	CAB Selects cab	See Table 1		s.		
060 REVO-1		Prese 0. Adjusts volume nulates the	-100 of super-high freque high-gain s Knob1	uencies.	CAB Selects cab	See Table 1 inet.		S.	Knob3	
060 REVO-1	This sir	Prese 0. Adjusts volume nulates the	-100 of super-high freque high-gain s	uencies.	CAB Selects cab	See Table 1 inet. nk Revolution		S.	Knob3 0-150	P
060 REVO-1		Prese 0. Adjusts volume nulates the	-100 of super-high freque high-gain s Knob1 -100	uencies.	CAB Selects cab of a Krar Tube	See Table 1 inet. nk Revolution Knob2	1 Plu		0–150	P
060 REVO-1	This sir	Prese 0 Adjusts volume mulates the Gain 0 Adjusts the ga	-100 of super-high freque high-gain s Knob1 -100	uencies.	CAB Selects cab of a Krar Tube	See Table 1 inet. nk Revolution Knob2 0-100	1 Plu	Level	0–150	P
060 REVO-1	This sir	Prese 0. Adjusts volume mulates the Gain 0. Adjusts the ga Trebl 0.	-100 of super-high freque high-gain s Knob1 -100 iin.	sounc	CAB Selects cab of a Krar Tube Adjusts tube Middl Adjusts volu	See Table 1 inet. NK Revolution Knob2 0–100 e amp compressio 0–100 me of middle frequ	1 Plu	Level Adjusts the Bass	0-150 output level.	
060 REVO-1	This sir	Prese 0. Adjusts volume nulates the Gain 0. Adjusts the ga Trebl 0. Adjusts volum	-100 of superhigh freque high-gain s Knob1 -100 in100	sounc	CAB Selects cab of a Krar Tube Adjusts tube Middl	See Table 1 inet. Nk Revolution Knob2 0–100 a amp compressio 0–100	1 Plu	Level Adjusts the Bass	0–150 output level. 0–100	

061 Tremolo	This off	ant variou	the velume			agular rat						
061 Tremoto	This en	ect varies	the volume	at a	a 10	egular rat					- K 10	
	_	Depth	Knob1 0–100		P	Rate	Knob2 0-50	<u></u>	P	Level	Knob3 0–150	Р
MAAN LINE	Page01		lepth of the modul	ation			rate of the modul	-	÷	Adjusts the		Н.
Trancia		Adjust the o	UP 0-UP 9,			Adjusts the	Tate of the model			Adjusts the	output level.	
	Page02	Wave	DWN 0-DWN 9, TRI 0-TRI 9		Р							
		Sets the mo	dulation waveform	٦.								
062 Slicer	This eff	ect creat	es a rhythmic	al s	sol	and by co	ntinuously s	licin	g i	the input.		
			Knob1				Knob2				Knob3	
\$60000		PTTRN	1–20			Speed	1–50	Þ	Р	Bal	0-100	Р
	Page01	Sets effect p	attern.			Sets modula	ation speed.			Adjusts the and effect so	balance between ounds.	original
	Page02	THRSH	0–50			Level	0–150		Р			
	9	Adjusts effe	ct threshold.			Adjusts the	output level.					
063 Phaser	This eff	ect adds	a phasing var	iati	ion	to the so						
			Knob1				Knob2				Knob3	
,000	Page01	Rate	1–50	Þ	Р	Color	4 STG, 8 STG, inv 4, inv 8			Level	0–150	Р
(Phaser)		Sets the spe	eed of the modulat	tion.		Sets the tor	ne of the effect type	oe.		Adjusts the	output level.	
	Page02							Ш				
				_				_	_			
064 DuoPhase	This eff	ect comb	ines two pha	se	rs.							
			Knob1				Knob2				Knob3	
Distribution Co.	Page01	RateA	1–50	٨	Р	RateB	1-50, SyncA, RvrsA		Р	Level	0–150	Р
Duo-PhaSe 🗆			ed of LFO A modu	latio	_		ed of LFO B mod	ulatio		Adjusts the		
MITE A MITE A LEIGH	Page02	ResoA	0-10		Р	ResoB	0–10	Ш	Р	Link	Seri, Para, STR	Щ.
		Adjusts resor	nance of LFO A mod	dulati	on. P	Adjusts resor	nance of LFO B mo	dulati	on. P	Sets how tw	o phasers are con	nected.
	Page03	_	th of LFO A modul	latio	_		th of LFO B modu	ılatio				
065 WarpPhase	This nh		a one way ef	_		Aujusts dep	tiror Er O B mode	ilatio	1.			
vvarpriiase	THIS PH	asei iias			ι.				_			
990 NO LUG	$\overline{}$	Speed	Knob1 1–50	D	P	Reso	Knob2 0–10		P	Level	Knob3 0–150	Р
<u> </u>	Page01	Sets modula		J)	Г	Sets effect		Ш	Г	Adjusts the		
WarpPhaser		DRCTN	Go. Back	П		octo cricci	lesonanee.	П		Adjusts the	output level.	
	Page02	Sets direction	on of warping.				I.					
066 Chorus	This eff	ect mixes	a shifted pitc	h w	/ith	the origi	nal sound to	add	m	ovement	and thickness	3.
			Knob1				Knob2				Knob3	
GETH RAIL HOX		Depth	0–100			Rate	1–50		Р	Mix	0-100	Р
CHORUS	Page01	Sets the de	oth of the modulat	ion.		Sets the spe	eed of the modula	ition.			amount of effected with the original s	
	Page02	Tone	0–10			Level	0–150		Р			
		Adjusts the	tone.			Adjusts the	output level.					
067 Detune			ect sound the s effect with							e original	sound, this	effect
			Knob1				Knob2				Knob3	
		Cent	-25–25			PreD	0-50	П		Mix	0-100	Р
Detune	Page01		detuning in cents, ements of 1/100-ser			Sets the pre sound.	e-delay time of th	e effe	ect		amount of effected with the original s	
	Page02	Tone	0–10			Level	0-150		Р			
	r ayeuz	Adjusts the	tone.			Adjusts the	output level.					

	_	a simulation of	nob1			Knob2			Vnoh2	
(I comp page MEV _I)		Comp 0–9	nob1	\blacksquare	Rate	1–50	Р	Mix	Knob3 0–100	P
UintaseCE	Page01	Sets the sensitivit	y of the compres	ssor.		ed of the modulat		Adjusts the	amount of effected with the original s	d sound
0 0	Page02	Level 0-15		Р				triat is mixed	with the original s	III.
9 StereoCho		Adjusts the outpute a stereo chor		lear	tone					
Otorcoono	11113 13		nob1	- T	toric.	Knob2			Knob3	
DESTR. SATE MEY		Depth 0-10		Р	Rate	1–50	Р	Mix	0-100	ПР
© © © Stereolho	Page01	Sets the depth of		÷		ed of the modulat		Adjusts the	amount of effected with the original s	d sound
	D02	Tone 0-10)	П	Level	0-150	P			
	Page02	Adjusts the tone.			Adjusts the	output level.				
Ensemble	This is	a chorus ense	emble that	feat	ures thre	e-dimensiona	ıl mo	vement.		
			nob1			Knob2			Knob3	
DEPTH RATE MIX \$		Depth 0-10		\top	Rate	1–50	Р	Mix	0-100	ПР
©©©[EnsembleΩ	Page01	Sets the depth of		١.		ed of the modulat	_	Adjusts the	amount of effected with the original s	
· = ©== ©/	Page02	Tone 0-10)	П	Level	0–150	Р			
	Pageuz	Adjusts the tone.			Adjusts the	output level.				
VinFLNGR	This an	alog flanger s	sound is sin	nilar	to an M	KR M-117R.				
		Kı	nob1			Knob2			Knob3	
000	Page01	Depth 0-10		Р		0–50	♪ P	Reso	-10–10	Р
(Vin FLNGR)		Sets the depth of		_		ed of the modulat	_	-	nsity of the modulation r	
0	Page02	PreD 0-50		Р		0-100 mount of effected	sound	Level	0–150	P
		Sets pre-delay tin	ne of effect sou	nd.	that is mixed	with the original so	ound.	Adjusts the	output level.	
Flanger	This is	a jet sound lil		flang	ger.					
			nob1			Knob2			Knob3	
	Page01	Depth 0-10		P		0-50	♪ P	Reso	-10–10	P
Flanser		Sets the depth of PreD 0-50		1. P		ed of the modulat 0-100	ion.	Level	nsity of the modulation r	esonance
©	Page02	Sets pre-delay tin		_		mount of effected		Adjusts the		
	-					with the original so				
DynaFLNGR		lume of the ic flanger.	effect sour	nd c	changes a	according to	the	input sigr	nal level with	n this
		Kı	nob1			Knob2			Knob3	
O O O	Page01	Depth 0-10	00	Ш	Rate	0–50	♪ P	Sense	-10—1, 1–10	P
DynaFLNGR		Sets the depth of	f the modulation					Adjusts the	sensitivity of the	effect.
				_		ed of the modulat		-		
0	Page02	Reso -10-		Р	Level	0–150	ion.	,		
Vibrato		Adjusts the intensity of	f the modulation resor	P nance.	Level Adjusts the	0–150		,		
Vibrato		Adjusts the intensity of fect automatic	f the modulation resor	P nance.	Level Adjusts the	0–150 output level.			Vk2	
Vibrato		Adjusts the intensity of fect automatic	f the modulation resort cally adds v	P nance.	Level Adjusts the o	0–150 output level. Knob2	P	,	Knob3	
© Vibrato		Adjusts the intensity of fect automatic	f the modulation resortically adds v	P nance.	Adjusts the otto.	0–150 butput level. Knob2 0–50) P		0-100 balance between	P
Vibrato Vibrato	This eff	Adjusts the intensity of fect automatic	f the modulation resort cally adds v nob1 f the modulation	P nance.	Adjusts the otto. Rate Sets the spe	0–150 output level. Knob2) P		0-100 balance between	Porigina
Vibrato Vibrato Vibrato	This eff	Adjusts the intensity of fect automatic Kr Depth 0–10 Sets the depth of	f the modulation resort cally adds v nob1 co f the modulation	P nance.	Adjusts the otto. Rate Sets the spe	0–150 Dutput level. Knob2 0–50 ded of the modulat 0–150	P P ion.	Adjusts the	0-100 balance between	P
Vibrato Vibrato Vibrato Octave	This eff	Adjusts the intensity of fect automatic Kr Depth 0–10 Sets the depth of Tone 0–10	f the modulation resort cally adds vonob1	P nance.	Level Adjusts the out to. Rate Sets the specific Level Adjusts the out to the control of the co	0–150 output level. Knob2 0–50 eed of the modulat 0–150 output level.	P P ion.	Adjusts the and effect so	0-100 balance between bunds.	Porigina
William W.	This eff	Adjusts the intensity of feect automatic feect automatic Sets the depth of Tone 0–10 Adjusts the tone.	f the modulation resort cally adds vonob1	P nance.	Level Adjusts the out to. Rate Sets the specific Level Adjusts the out to the control of the co	0–150 output level. Knob2 0–50 eed of the modulat 0–150 output level.	P P ion.	Adjusts the and effect so	0-100 balance between bunds.	Porigina
William HE HE WILLIAM STATE OF THE WILLIAM STATE O	This eff Page01 Page02 This eff	Adjust the intensity of fect automatic King Depth 0–10. Sets the depth of Tone 0–10. Adjusts the tone. fect adds sour King Oct1 0–10.	if the modulation resort (cally adds v nob1 000 f the modulation of the modulation resort of the modulation of t	P P P P P P P P P P P P P P P P P P P	Level Adjusts the extra to . Rate Sets the spee Level Adjusts the example and two example .	CO-150 Dutput level. Knob2 CO-50 Ded of the modulat CO-150 Dutput level. DCtaves belov Knob2 CO-100	P P P	Adjusts the and effect so original s	0–100 balance between bunds. cound. Knob3 0–100	P
©©© Vibrato ♪^^^ ⊚	This eff	Adjust the intensity of fect automatii Depth 0–1C Sets the depth of 1 Tone 0–1C Adjusts the tone. fect adds sou	the modulation resort cally adds v nob1 00	P P P P P P P P P P P P P P P P P P P	Level Adjusts the of to. Rate Sets the spee Level Adjusts the of and two of two of the total and two of the total	0-150 butput level. Knob2 0-50 ed of the modulat 0-150 butput level. Doctaves below	P P P P P P P P P P P P P P P P P P P	Adjusts the and effect so original s	0–100 balance between bunds. Cound.	P
©©© Vibrato ♪ ^^^ ⊚	This eff Page01 Page02 This eff	Adjust the intensity of fect automatic King Depth 0-10. Sets the depth of Tone 0-10. Adjusts the tone. Fect adds sour Cottl 0-10. Adjusts the leve Adjusts the leve	the modulation resort (cally adds v nob1 (ca	P P P P P P P P P P P P P P P P P P P	Level Adjusts the ofto. Rate Sets the spee Level Adjusts the orange and two ofto.	0-150 butput level. Knob2 0-50 ed of the modulat 0-150 butput level. Doctaves below Knob2 0-100 level of the sour	P P P P P P P P P P P P P P P P P P P	Adjusts the and effect so original s	0–100 balance between bunds. cound. Knob3 0–100	P

076 PitchSHFT	This ef	fect shifts	the pitch up	or	dc	wn.	-			:		_
			Knob1				Knob2			Knob3		
(COURT MAKE ON))		Shift	-12-12 , 24	П		Tone	0–10	П	Bal	0-100	П	Р
Pitch SHFT	Page01		tch shift amount in se gives a detuning effe		nes.	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	orig	inal
		Fine	-25–25			Level	0–150	F	'			
,,	Page02		adjustment of pit nt (1/100 semitone)			Adjusts the	output level.					
077 MonoPitch	This is	a pitch sh		e s	ou	nd varian	ce for monop	honi	c (single r			
			Knob1				Knob2			Knob3		
SHIFT TIME BAL	Page01	Shift	-12 – 12 , 24 tch shift amount in se			Tone	0–10		Bal	0-100 balance between		P
MonoPitch	- agoor		gives a detuning effe		ies.	Adjusts the Level	tone.	l F	and effect s		orig	na
	Page02	Allows fine	adjustment of pit ent (1/100 semitone)	ch s	hift		output level.					
078 HPS	This inte			÷	_	ct sound w	vith the pitch shif	ted a	cording to s	cale and key set	tting	=== S.
			Knob1	_	_		Knob2			Knob3	Ť	
HPS NO	Page01	Scale	-6, -5, -4, -3, -m, m, 3, 4, 5, 6 (See Table 2)			Key	C, C#, D, D#, E, F, F#, G, G#, A, A#, B		Mix	0–100		Р
		sound added	tch of the pitch- to the original sou		ted	for pitch shit			that is mixed	amount of effected with the original :		
	Page02	Tone	0–10			Level	0–150	F	'			
	, i	Adjusts the	tone.	_	_	Adjusts the	output level.			-		_
079 BendCho	This effe	ct provides	pitch bending t	hat	us	es the inpu	ıt signal as trigg	er an	d processes	each note sep	arate	ely.
			Knob1				Knob2			Knob3		
O O O	Page01	Depth Adjusts the	0-100 effect depth.			Time Sets time h	0-50 efore effect starts.	F	Adjusts the	0-100 balance between	orig	P inal
		Mode	Up, Down			Tone	0-10		and effect s	ounds. 0–150		Р
	Page02		on of pitch bend.			Adjusts the	1			output level.		F
080 RingMod		fect produ					d. Adjusting t	he "			ts ir	n a
			Knob1		_		Knob2			Knob3		
FRED. TUNE BAL		Freq	1–50		Р	Tone	0–10	П	Bal	0-100	П	Р
RingMod	Page01		quency of the modu	ulatio	n.	Adjusts the	tone.		Adjusts the and effect s	balance between ounds.	orig	ina
	Page02	Level	0-150		Р							
081 BitCrush			output level.		_				1	:		_
081 BitCrush	THIS EI	I COL CIEDL	es a lo-fi soui	ıu.	_		K 10			- K 10		_
DATE OF THE PART O	\vdash	Bit	Knob1 4–16			SMPL	Knob2 0-50	F	Bal	Knob3 0–100		Р
O O O Bit Crush	Page01	Sets bit dep	l			Sets sampli		r		balance between	orig	_
~ ₫ ^ (Tone	0-10			Level	0-150	F		ounus.	Т	
	Page02	Adjusts the	tone.	ш		Adjusts the	output level.	1 1				_
082 Bomber	This ef	fect produ	ıces an explo	siv	es	sound wh	nen picking.		FS	Trigger		_
			Knob1				Knob2			Knob3		П
	D 01	PTTRN	HndGn, Arm, Bomb, Thndr			Decay	1–100	F	Bal	0–100		Р
000	Page01	Sets type of	effect sound.			Sets length	of reverberations.		Adjusts the and effect s	balance between ounds.	orig	ina
BOMBER	Page02	THRSH Adjusts offo	0-50 ct threshold.			Power	0-30 ength of explosive	cound	Tone Adjusts the	0-10		
		Aαjusts eπe	0-150		Р	Aujusts Stre	engui or explosive	souna	Adjusts the	torie.		_
	Page03		output level.	ш			1	Ш		1		_
		, ajusts the	output level.			1			1			

083 MonoSynth			uces the sou pitch of the i				phonic (single	e-not	e playing)	guitar synth	esize
			Knob1				Knob2			Knob3	
SPHTH LOP LEVEL	Page01	Synth	0-100		Р	Dry	0-100	F	Level	0-150	
000	rageui	Adjusts syn	thesizer sound leve	el.		Adjusts leve	of original sound		Adjusts the	output level.	
	Page02	Wave	Sine, Tri, SawUp, SawDn			Tone	0–10		Speed	0–100	
		Sets wavefo	orm.			Adjusts the	tone.		Adjusts sm	oothness of pitch c	hange.
084 Z-Organ	This eff	ect simu	lates an orgar	า รด	ur	nd.					
			Knob1				Knob2			Knob3	
	Page01	Upper	0-100		Р	Lower	0-100	F	Dry	0-100	
Z-Orean	1 agco1	Adjusts volu	ime of high freque	ncies	S.	Adjusts volu	ime of low frequer	ncies.	Adjusts lev	el of original soun	d.
	Page02	HPF	0-10			LPF	0–10		Level	0-150	
	rageoz	Adjusts high-	pass filter cutoff fre	quen	cy.	Adjusts low-	pass filter cutoff fre	quenc	/. Adjusts the	output level.	
085 Delay	This lor	ng delay h	nas a maximu	m le	en	igth of 25	500 ms.		FS	Hold, InputN	lute
			Knob1				Knob2			Knob3	
DEL DIVI		Time	1-2500	Þ		F.B	0–100	F	Mix	0-100	
OF E	Page01	Sets the de	lay time.			Adjusts the	feedback amount.			amount of effected with the original	
••••		HiDMP	0-10		-	P-P	MONO, P-P		I evel	0–150	sound.
<u> </u>	Page02		treble attenuation	of th	he			or pine		1	
		delay sound				pong.			Adjusts the	output level.	
086 TapeEcho			ulates a tap es the pitch of				iging the "T	ime	FS	InputMute	
			Knob1				Knob2			Knob3	
TapeEcho		Time	1-2000	Þ	Р	F.B	0-100	F	Mix	0-100	
	Page01	Sets the de	lay time.			Adjusts the	feedback amount.			amount of effected with the original	
000 07 7 0		HiDMP	0–10			Level	0-150	F	,		
	Page02	Adjusts the delay sound	treble attenuation	of th	he	Adjusts the	output level.				
087 ModDelay	This de	lay effect	allows the use	e of	m	odulation			FS	InputMute	
			Knob1				Knob2			Knob3	
" ModDelay "	D 04	Time	1–2000	♪		F.B	0–100	F		0–100	
⊕ DIME ES MIX □	Page01	Sets the de	lay time.			Adjusts the feedback amount.			Adjusts the amount of effected sound that is mixed with the original sound.		
<u> </u>		Rate	1-50	П	Р	Level	0-150	F			
	Page02	Sets the sp	eed of the modula	tion.		Adjusts the	output level.				
088 AnalogDly		alog dela of 2500 r	y simulation h	nas	a I	ong dela	y with a maxi	mun	FS	Hold, InputN	lute
			Knob1				Knob2			Knob3	
TIME		Time	1–2500	Þ		F.B	0–100	F		0-100	
Analog	Page01	Sets the de	lay time.			Adjusts the	feedback amount.			amount of effected with the original	
⊕ ۵۲۸ ی		HiDMP	0-10			P-P	MONO, P-P		Level	0-150	
	Page02	Adjusts the delay sound	treble attenuation	of th	he	Sets delay pong.	output to mono o	or ping	Adjusts the	output level.	
089 ReverseDL	This reve	erse delay	is a long delay	with	а		length of 1250) ms.	FS	Hold, InputIV	lute
_			Knob1				Knob2			Knob3	
		Time	10-1250	Þ		F.B	0-100	F	Bal	0-100	
Reverse Delay	Page01	Sets the de	lay time.			Adjusts the	feedback amount.		and effect :	balance betweer sounds.	origin
		HiDMP	0-10	\Box		Level	0-150	F			\Box
	Page02		treble attenuation								

090 MultiTapD	Thin offe	ot produc	oo ooyoral dala		nda with d	lifforont dolov t	imaa	FS	Innut Muto	
090 Multi Tapi	This elle	ect produc	Knob1	y sou	nas with a	lifferent delay t	mes.	F5	InputMute Knob3	
		Time	1-2500)	PTTRN	Knob2		Mix	0-100	Р
Multi Tap Delay	Page01			12		pattern, which var	es from		amount of effecte	
		Sets the de				o random patterns.			d with the original s	
4 ED	Page02	Tone	0-10		Level	0–150	P			
		Adjusts the			<u> </u>	output level.				
091 DynaDelay			elay adjusts input signal		olume of	f the effect s	ound	FS	InputMute	
			Knob1			Knob2			Knob3	
TIME SENSE HIX	Page01	Time	1–2000	D	Sense	-101, 1-10	P	Mix	0-100	P
	rageui	Sets the de	lay time.		Adjusts the	effect sensitivity.			amount of effected with the original s	
(Dyna Delay)	Page02	F.B	0–100	P	Level	0-150	P			
	g	Adjusts the	feedback amount		Adjusts the	output level.				
092 FilterDly	This eff	ect filters	s a delayed s	ound				FS	InputMute	
			Knob1			Knob2			Knob3	
	D 04	Time	1–2000	♪	F.B	0-100	P	Mix	0-100	P
	Page01	Sets the de	lay time.		Adjusts the	feedback amount			amount of effecte with the original s	
(W W W ↔ \		Rate	1–50	Р	Depth	0-100	Р	Reso	0-10	Р
Bis ,	Page02	Sets the sp	eed of the modula	ition.	Sets the de	epth of the modula	tion.	Adjusts the resonance.	intensity of the mo	dulation
	Page03	Level	0-150	P						
		Adjusts the	output level.							
093 PitchDly	This eff	ect applie	s pitch shift t	o a d	elayed so	und.		FS	InputMute	
			Knob1			Knob2			Knob3	
* PitchDelay *	Page01	Time	1–2000		Pitch	-12–12	P	Mix	0–100	P
D+0-001839-05-400 TIME FITCH MIX	rageui	Sets the de	lay time.		delayed sou	ne of pitch shift ap und.	plied to		amount of effecte with the original s	
	Page02	F.B	0-100	Р	Tone	0-10		Level	0-150	Р
	1 ageuz	Adjusts the	feedback amount		Adjusts the	tone.		Adjusts the	output level.	
094 StereoDly		ereo dela arately.	y allows the	left	and right	delay times	to be	FS	InputMute	
			Knob1			Knob2			Knob3	
		TimeL	1–1000	D	TimeR	1–1000	Þ	Mix	0-100	P
linet linet MIX	Page01	Adjusts de delay.	lay time of left of	channe	Adjusts de delay.	lay time of right	channel		amount of effected with the original s	
	Page02	LchFB	0-100	Р	RchFB	0–100	Р	Level	0-150	P
STEREO DELAY 💿	9	-	y feedback of left c			y feedback of right		Adjusts the	output level.	
	Page03	LchLv	0-100	P	RchLv	0-100	P			
005 PL DI	T1 : "		ay output of left ch			ay output of right of	mannel.	F0		
095 PhaseDly	This eff	ect applie	es a phaser t	o a d	elayed so			FS	InputMute	
		Time	Knob1 1–2000		EB	Knob2 0–100	Р	Mix	Knob3 0-100	ГР
Phase ∞ ∞ DIU"	Page01	Sets the de		Þ	1	feedback amount		Adjusts the	amount of effecte	d sound
. 6 6 6 .		Rate	1–50	Р	Color	4 STG, 8 STG,		that is mixed	d with the original s	sound.
	Page02					inv 4, inv 8				
000 57 11115			eed of the modula			ne of the effect typ	Je.	.,	output level.	
096 TrgHldDly	This del	ay sample	es and holds i	using	picking as			FS	InputMute	
		T:	Knob1			Knob2		1.4	Knob3	1 -
TRIGGER HOLD DELAY	Page01	Time	10–1000		Duty Sate the ti	25-100 me that the same	do and	Mix Adjusts the	0-100 amount of effecte	P
		Sets the de	lay time.			me that the samp is produced.	ne-diid-		amount of effected with the original s	
	Page02	THRSH	0-30		Level	0-150	P			
	. 5	Adjusts effe	ct threshold.		Adjusts the	output level.				

097 HD Reverb	This is	a high-de	finition rever	b.	;	:		FS	InputMute	
			Knob1			Knob2			Knob3	
		Decay	0-100	П	Tone	0–10	П	Mix	0-100	Р
HD Reverb	Page01	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.			amount of effected with the original	
		PreD	1–200		HPF	0–10		Level	0-150	Р
	Page02		Adjusts the delay between input of the original sound and start of the reverb sound. Adjusts high-pass filter cutoff frequency.				Adjusts the	Adjusts the output level.		
098 Hall	This rev	verb effec	ct simulates t	the ac	oustics o	f a concert h	all.	FS	InputMute	
			Knob1			Knob2			Knob3	
Blace a dS B	D 04	Decay	1–30	P	Tone	0–10		Mix	0-100	P
HALL COM	Page01		ation of the reverbe	erations.	Adjusts the				amount of effected with the original	
Пааар	Page02	PreD	1-100 delay between inpu	ut of the	Level	0–150	P			
	ragooz		and start of the rever		Adjusts the	output level.				
099 Room	This rev	verb effec	t simulates 1	the ac	oustics o	f a room.		FS	InputMute	
			Knob1			Knob2			Knob3	
	_	Decay	1–30	Р	Tone	0-10		Mix	0-100	P
" ROOM _ ; _ " "	Page01	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.			amount of effected with the original	
		PreD	1–100		Level	0–150	P			
	Page02	Adjusts the original sound	delay between inpu and start of the rever	ut of the rb sound.	Adjusts the	output level.				
100 TiledRoom	This rev	verb effec	ct simulates t	the ac	oustics o	f a tiled roon	n.	FS	InputMute	
			Knob1			Knob2			Knob3	
		Decay	1–30	P	Tone	0–10		Mix	0-100	P
	Page01		ation of the reverbe	erations.	Adjusts the				amount of effected with the original	
	Page02	PreD	1–100		Level	0-150	P			
		original sound	delay between inpu and start of the rever	rb sound.		output level.			1	
101 Spring	This rev	verb effec	t simulates a	a sprir	ng reverb			FS InputMute		
			Knob1			Knob2			Knob3	
DECRY TONE MIX	Page01	Decay	1–30	P	Tone	0–10		Mix	0-100	P
000	1 ageor	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.			amount of effected with the original	
SPrins .		PreD	1-100		Level	0–150	P			
	Page02		delay between inpu and start of the rever		Adjusts the	output level.				
102 Arena		verb effects a sports	et simulates t arena.	the ac	oustics o	f a large enc	losure	FS	InputMute	
			Knob1			Knob2			Knob3	
		Decay	1–30	Р	Tone	0–10		Mix	0-100	Р
Arena Reverb	Page01	Sets the dur	ation of the reverbe	erations.	Adjusts the	tone.			amount of effected with the original	
		PreD	1–100		Level	0–150	P			
	Page02		delay between inpu and start of the rever		Adjusts the	output level.				
103 EarlyRef	This eff	ect repro	duces only t	he ear	ly reflect	ions of rever	b.			
			Knob1			Knob2			Knob3	
DECAY SHAPE MIX "	Page01	Decay	1–30		Shape	-10–10	P	Mix	0-100	P
Early Reflection	i ageul	· ·	duration of the re	verb.		effect envelope.			amount of effected with the original	
	Page02	Tone Adjusts the	0-10		Level	0-150 output level.	P			
		Aujusts the	LUITE.		Aujusts the	output level.			-	

104 Air	This off	oot ropro	duces the an	nhio	ann of a re	nom to croat	o co	atial danth	-		_
104 All	THIS EII	ect repro	duces the an	nbiei	T OI a IC		e sp	ılai deptii			_
		Size	Knob1 1–100	П	Tone	Knob2 0–10		Mix	Knob3 0-100	T	Р
	Page01		e of the space.		Adjusts the			Adjusts the	amount of effect		und
.0001.		Ref	0-10	F	Level	0-150		Р		T	П
	Page02	Adjusts the amount of reflection from the wall.		Adjusts the	output level.						
105 Comp+OD	This eff	ect comb	ines compre	ssor	and over	drive.					
			Knob1			Knob2			Knob3		
	Page01	Comp	0–10		Gain	0-100	П	P Level	0-150		Р
	rageui	Sets compr	essor strength.		Sets overdi	rive gain.		Adjusts the	output level.		
Comp O O	Page02	Tone	0-100								
	rageoz	Sets overdr	ive tone.								
106 Comp+Phsr	This eff	ect comb	oines compre	ssor	and phas			_			
		0	Knob1		D .	Knob2	1.1		Knob3	_	_
	Page01	Comp	0–10		Rate	1–50	1.	P Level	0-150		Р
un S Dhrr		Sets compr	essor strength. 4 STG, 8 STG,		Sets the sp	eed of the modul	ation.	Adjusts the	output level.	_	_
(A) (A)	Page02	Color	inv 4, inv 8								
		Sets phaser	color.								
107 Comp+AWah	This eff	ect comb	oines compre	ssor	and auto-	wah.					
			Knob1			Knob2			Knob3		
	Page01	Comp	0–10		Sense	-101, 1-10		P Level	0-150		Р
	- ugooi	Sets compr	essor strength.			vah sensitivity.		Adjusts the	output level.		_
Comp@AWah	Page02	Reso	0-10	F	·						Ш
		Sets resona	nce of auto-wah.								_
108 Cho+Dly	This eff	ect comb	oines chorus	and (delay.						
CALLE MEY			Knob1			Knob2			Knob3		
(CHORUS	Page01	ChoRt	1–50	F		ChoMx 0-100 P			DlyTm 1–2000 🐧 Adjusts delay time.		
DELAY 🌉		Adjusts cho		П,	Adjusts cho	1		-	-	_	Р
66666	Page02	DlyFB	0-100	F		0–100	\perp	P Level	0-150		I P
		Adjusts dela			Adjusts del	ay mix.		Adjusts the	output level.		
109 Dly+Rev	This eff	ect comb	oines delay ar	nd re	verb.						
THE DAWY DAWY			Knob1			Knob2			Knob3		
	Page01	DlyTm	1–1500	Þ	DlyMx	0–100		P RevMx	0–100		Р
DLY+REV		Adjusts dela			Adjusts del			Adjusts rev	erb mix.	_	_
	Page02	DlyFB Adjusts dela	0-100	F		0–150 output level.		P			L
110 Cho+Rev	This eff		oines chorus	and i		output level.					_
- 1			Knob1			Knob2			Knob3		
666		ChoRt	1–50	F	ChoMx	0-100	П	P RevMx	0-100	T	Р
	Page01	Adjusts cho	rus rate.		Adjusts cho	orus mix.		Adjusts rev	erb mix.		_
Cho Rev	Page02	Level	0-150	F							П
	Pageuz	Adjusts the	output level.								
111 FLG+VCho	This eff	ect comb	ines flanger	and	vintage ch	orus.					
			Knob1			Knob2			Knob3		
	Page01	FlgDp	0-100	F	FlgRt	0-50	Þ	P ChoMx	0-100		Р
FLANCER V-CHO	i ageui	Adjusts flan	ger depth.		Adjusts flar	nger rate.			tage chorus mix.		_
	Page02	ChoRt	1–50	F		0-150		P			Ĺ
	. agcoz	Adjusts vint	age chorus rate.		Adjusts the	output level.					

112 PedalVx	This sir	mulates a	vintage Britis	sh v	va	h pedal.		-	_	-		_	_
			Knob1	_			Knob2				Knob3		
(FREE DEVMIX LEVEL		Freq	1-50	П	®	DryMX	0–100	П	Р	Level	0-150	П	Р
996	Page01	Adjusts the	emphasized frequ	ency		Adjusts the m	ix with the unaffecte	d sou	ınd.	Adjusts the	output level.	_	_
Pedal UX	Page02												
113 PedalCry	This sir	nulates a	vintage CRY	BAI	BY	wah ped	lal.	-	_	<u> </u>	:		
			Knob1				Knob2				Knob3		
FREI DRYMIX LEUEI		Freq	1–50		®	DryMX	0-100		Р	Level	0-150	П	Р
$lackbox{0}$	Page01	Adjusts the	emphasized frequ	ency		Adjusts the m	ix with the unaffecter	d sou	ınd.	Adjusts the	output level.		_
Pedai Cry	Page02												
114 TheVibe	This vik	ne sound	features unio	III E	un	dulations		_	_		-		_
THOTISC	11110 VII	1	Knob1		an i	adiationic	Knob2		_		Knob3	_	_
Thellia	$\overline{}$	Speed	0-50		(P)	Depth	0-100	т	Р	Bias	0-100	_	Р
STED TETT SHE	Page01	Sets modulation speed.			- 10 -	pth of the modula	tion	ı.		of waveform modu	latic	ļ.,	
		Wave	0–100	П	Р	Mode	VIBRT, CHORS		Г	Level	0-150	Т	Р
	Page02	Adjusts mo	dulation waveform			Sets effect	to vibrato or choru	S.	_	Adjusts the	output level.	_	_
115 PDL Pitch	Use an	expression	on pedal to ch	anç	ge	the pitch	in real time v	vith	n th	nis effect.			
			Knob1				Knob2				Knob3		
COLOR TONE BEHO	D01	Color	1–9 (See Table 3)			Tone	0–10			Bend	0–100		P
PDL Pitch	Page01		pe of pitch change pression pedal.	cont	rol	Adjusts the tone.			Sets the amount of pitch shift.				
		Mode	Up, Down			Level	0–150		Р				Г
	Page02	Sets the director of the Up or Do	ection of the pitch wn.	chan	ge	Adjusts the	output level.						
116 PDL MnPit			hifter speciall hifted in real							note play	ring), which a	llov	ws
			Knob1				Knob2				Knob3		
COLLEGE DEMO.	D 04	Color	1–9 (See Table 3)			Tone	0–10			Bend	0-100	Г	P
- HIMTPIE	Page01		pe of pitch change pression pedal.	cont	rol	Adjusts the	tone.			Sets the an	nount of pitch shift		
⊗		Mode	Up, Down			Level	0–150		Р			Г	
	Page02	Sets the dire	ection of the pitch wn.	chan	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
DELUXE-R 1X12	Fender Deluxe Reverb cabinet with 1x12-inch Jensen speaker
FD VIBRO 2x10	Fender Vibroverb ('63) cabinet with 2x10-inch Jensen speakers
US BLUES 4x10	Fender Tweed Bassman cabinet with 4x10-inch Jensen speakers
VX COMBO 2x12	British combo amp cabinet with 2x12-inch Celestion Alnico speakers
VX JMI 2x12	Early model British combo amp cabinet with 2x12-inch Celestion Alnico speakers
BG CRUNCH 1x12	Mesa Boogie MkIII cabinet with 1x12-inch Electro Voice speaker
MATCH 30 2x12	Matchless DC30 cabinet with 2x12-inch Celestion speakers
CAR DRIVE 1x12	Carr Mercury cabinet with 1x12-inch Eminence speaker
TW ROCK 1x12	Two Rock Emerald 50 cabinet with 1x12-inch Fane speaker
TONE CITY 4x12	Cabinet with 4x12-inch Fane speakers
HW STACK 4x12	Hiwatt Custom 100 cabinet with 4x12-inch Fane speakers
TANGERINE 4x12	Orange Graphic 120 cabinet with 4x12-inch Celestion speakers
B-BREAKER 2x12	Marshall Bluesbreaker cabinet with 2x12-inch Celestion speakers
MS CRUNCH 4x12	Marshall 1959 cabinet with 4x12-inch Celestion speakers
MS 1959 4x12	Marshall 1959 B cabinet with 4x12-inch Celestion speakers
MS DRIVE 4x12	Marshall JCM2000 cabinet with 4x12-inch Celestion speakers
BGN DRIVE 4x12	Bogner Ecstasy 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
ALIEN 4x12	Engl Invader cabinet with 4x12-inch Celestion speakers
REVO-1 4x12	Krank Revolution 1 Plus cabinet with 4x12-inch Eminence speakers
OFF	No cabinet used.

■Table 2

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

Setting	Scale used	Interval
3		3rd up
4		4th up
5	Major	5th up
6		6th up

■Table 3

Color	A Pedal min	Pedal max 🚄
1	0 cent	+1 octave
2	0 cent	+2 octaves
3	0 cent	-100 cents
4	0 cent	-2 octave
5	0 cent	-00

Color	A 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			

Troubleshooting

The unit will not turn ON

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

No sound or very low volume

- Check the connections (→P4-5).
- Adjust the patch level (→P16).
- Adjust the master level (→P20).
- 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
 (→P26)

There is a lot of noise

- Check shielded cables 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 (→P21).
- Set the ACTIVE/PASSIVE switch according to the type of guitar pickups or the device connected directly to the GB/GBX (→P5).

An effect is not working

 If the effect processing capacity is exceeded, "DSP Full!" appears on the effect graphic. In this case, the effect is bypassed (→P10).

The expression pedal is not working well

- Check the expression pedal settings (→P18).
- Adjust the expression pedal (→P37).

The recorded level in a DAW is low

Check the recording level setting (→P25).

Batteries lose their charge quickly

- Confirm that you are not using manganese batteries. Alkaline batteries should provide 6 hours of continuous operation.
- Check the battery setting (→P23).
- Set the type of battery being used to enable the remaining charge to be shown more accurately.

Specifications

Effect ty	/pes	116 types					
Number	of simultaneous effects	6					
Number	of user banks/patches	10 patches x 1	10 banks				
Samplin	g frequency	44.1kHz					
A/D con	version	24-bit with 12	8x oversampling				
D/A con	version	24-bit with 128x oversampling					
Signal p	rocessing	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		Rated input Input imped					
Output	R	Maximum o	naural phone jack output level: m (with output load impedance of 10 kΩ or more)				
	L/MONO/PHONES	Maximum o Line: +5 dB	eo phone jack (line/headphones) utput level: m (with output load impedance of 10 kΩ or more) s: 20 mW + 20 mW (into 32 Ω load)				
	BALANCED OUTPUT	Output impe 100 Ω (HC PRE/POST (
Control	input	For FP01/FP02	2/FS01				
Power		AC adapter Batteries	DC9V (center minus plug), 500 mA (ZOOM AD-16) 6 hours of continuous operation using 4 AA alkaline batteries Bus power				
Dimensi	ions		D) x 234mm(W) x 54mm(H) D) x 323mm(W) x 66mm(H)				
USB		USB Audio					
Weight		G3 1.2kg G3X 1.6kg					
Options		FP01/FP02 ex	pression pedal and FS01 foot switch				
• 0dBm =	: 0.775Vrms						

 ⁰dBm = 0.775Vrms

Rhythm List

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

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

#	PatternName	TimSig
29	5Per4_1	5/4
30	5Per4_2	5/4
31	Latin	4/4
32	Ballad1	4/4
33	Ballad2	3/4
34	Blues1	4/4
35	Blues2	3/4
36	Jazz1	4/4
37	Jazz2	3/4
38	Metro3	3/4
39	Metro4	4/4
40	Metro5	5/4
41	Metro	

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 quarantee 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



ZOOM CORPORATION

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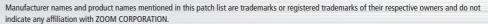
Guitar Effects & Amp Simulator

	BANK/F	PATCH	PATCH NAME	COMMENT
		0	WAH BGN	This drive sound uses the BGN DRIVE effect. Press the expression pedal down to use pedal wah.
		1	TREM FD	This uses FD COMBO for a clean sound. Use the expression pedal to control the Tremolo effect.
		2	DZ Bend	This high-gain sound combines DZ DRIVE and PDL Mono Pitch.
		3	Movejet	The expression pedal controls the Resonance of the Flanger in this simple flanger sound.
	n	4	FunkyWah	This is a funky pedal wah sound. Turn the compressor and phaser ON for a perfect tone for single-note muted backing lines.
	A	5	MS Echo	Use the expression pedal with this 70s Marshall sound to control the TapeEcho Mix.
		6	MultiMod	This rich modulation sound with a wide stereo feel is created by a combination of DuoPhase and StereoChorus effects.
		7	ShuffleAT	Using the Slicer, this patch automatically generates a shuffle backing pattern.
		8	DriveA-Wah	Combining a nice drive sound with auto-wah, this patch sings in response to dynamics with both single note lines and chords.
Demo		9	Taste-AC	You don't need to change your axe in the middle of a show. This patch uses the acoustic simulator for a tone with a lot of air.
		0	GoodFuzz	With this patch, you can get a great fuzz sound no matter what the volume setting of the guitar. The clear sound when the volume is around 2 is really great!
		1	Jazz	This sound is good for jazz with a cool tone.
		2	Fripper	This ambient ReverseDelay sound uses a spacious loop. Use the expression pedal to control the ReverseDelay.
		3	Horn	Short reflections from the Air effect make this patch sound like a wind instrument. This is great for playing sax-style phrases.
	В	4	Clean FLNG	Instead of chorus, this clean sound is modulated by a flanger effect. Suits a retro atmosphere.
	ן ע	5	DST&VIBRO	This bluesy drive sound combines DIST and FD VIBRO effects.
		6	Fast Filt	This filter sound responds quickly to picking dynamics. Single note lines work best with this effect.
		7	CRY&BLUES	This crunch sound uses the B-BREAKER effect. Use the expression pedal to assign PedalCry.
		8	BoostCity	This drive sound uses the TONE CITY effect. Turn the Booster ON for an even more powerful sound.
		9	Heaven	This patch creates a chord sound that will make you feel like you are in Heaven. This is recommended for long chord backing parts.
		0	StereoFunk	This auto-wah sound is cool and funky. The Air effect creates wide stereo imaging.
		1	Tele ClnRW	A wide stereo chorus and hard compression create a clean sound for backing parts.
2	C	2	410BlsSolo	Delay and reverb are added to the US BLUES 4x10 combo sound. Hit an open chord, let it ring and check the sustain!
tze		3	Str Cln LD	This combines chorus and delay in a tone with aggressive compression. The tone is clean, but suitable when you want to solo through a high gain amp.
¥		4	Trem Clean	This clean sound has a vintage feel. Use the expression pedal to control the tremolo.
Richie Kotzen		5	Elec Rhyth	This rhythm sound for classic hard rock uses a little EarlyRef. Remember the shorts and the backpack?
Ric		6	Washed Out	The CAR DRIVE, Cho+Dly and Comp in this patch create a big overdriven tone that sounds like multiple layered guitars.
		7	BigFatFIng	This dirty, big-bottomed flanged guitar sound transforms a clean amp into a fat rocking sound!
		8	Robo Funk	M Comp, RndmFLTR, and ParaEQ create a sick funk sound best for quick staccato single-note lines.
\searrow		9	Fool Frnds	This emulates the sound of an acoustic guitar plugged directly into an amp. Reverb is optional.
		0	MatchVibe	This classic rock tone uses MATCH 30. Turn OverDrive on for leads or TheVibe on for backing.
		1	Revolving	This heavy sound with a beautiful low end is great for riffs. Boost and delay can also be added in this patch that is great for modern metal style solos.
9		2	Livid	This clean sound uses a chorus and two delays to create width perfect for arpeggios and chords.
rei		3	ValleyRock	Add flanger and delay to this 80s Heavy Rock sound for a Van Halen flavor.
Kiko Loureiro	D	4	IndieDrive	This indie rock patch has two types of delays that can be used independently or simultaneously.
9		6	MetallicCh Progressng	A slight chorus gives this modern heavy sound greater width. This page metal selectors for feet picking her on effective modulated ping sons delay.
7		7	Enfermo	This prog metal solo tone for fast picking has an effective modulated ping-pong delay. This heavy rock tone uses the Booster to maximize lead sounds.
		8	7 mirrors	This is a tribute to the enigmatic master guitarist Allan Holdsworth.
		9	HolyShift	This sound features pitch shifting and is great for solos. Use the expression pedal to control the HPS Mix.
		0	Honeydrip	This is a very usable sound for single note lines and lead playing.
		1	It's Alive	This killer sound for solos has a vocal quality depending on the guitar note pitch.
	E	2	Tropicana	This lead tone features the TANGERINE amp sound.
9		3	Thrash Em	No explanation needed for this exemplary thrash sound.
Rob Caggiano		4	Zipper	This really obnoxious fuzzed-out sound has some depth added by the Air effect.
		5	Solottery	Using BG CRUNCH, this smooth and squashed solo sound adds nice warmth with AnalogDly.
		6	Creeper	This ominous and creepy sound is great with an amp.
		7	Heavy D	This heavy tone that uses Z Bottom and BG DRIVE was designed with drop D tuning in mind.
		8	Classic	This patch has a very Classic Rock feel to it and is great with an amp.
		9	Wood	This sound uses Governor, M Comp and DELUXE-R for a woody drive tone. The Cry effect adds the feeling of a human voice.



G3 / G3X presets have been created by professional guitarists.

BANK C: Richie Kotzen
 BANK D: Kiko Loureiro
 BANK F: Mike Orlando



All product and artist names are intended only to illustrate sonic characteristics that were used as reference in the development of this product.



	product and artist names are interided only to indistrate some characteristics that were used as reference in the development of this product.			
	BANK/PATCH PA		PATCH NAME	COMMENT
	F	0	XtremeWah	This is a spacious and distorted auto wah sound. The expression pedal controls the delay feedback.
		1	HeavyMedal	This very saturated distortion sound is great for heavy metal and rock, as well as rhythm and lead playing.
		2	MetaSynCor	Synth octaves and a lush delay make this tone huge. The expression pedal controls the synth.
율		3	StackedUp	This is a classic British rock tone. The expression pedal controls the delay.
Mike Orlando		4	AngelFaze	This patch adds a tone that sound like an acoustic sound with a beautiful phase effect. The expression pedal controls the FilterDly Mix.
0		5	MrGovenor	This uses the Governor effect to produce an overdrive sound good for rock. Use the expression pedal to control the Delay Mix.
Ě		6	PitchedOut	This insane pitch transposition sound is great for tricky solos. The expression pedal controls the HPS Mix.
		7	Open Wah!	This cry effect is great for soloing and chord playing. The expression pedal controls the delay of DLY+Reverb.
		8	CrunchCore	Chorus adds width to this big rock sound. Use the expression pedal to control the StereoCho Mix.
		9	DreamScape	With this clean filter effect the notes seem to take off in a pitch-changing delay. This is great for special effects and unaccompanied moments.
		0	FD COMBO	This is the clean sound of the FD COMBO. Press the expression pedal down to turn PedalVx ON.
		1	DELUXE-R	This crunch sound uses the DELUXE-R effect. Turn the HotBox ON to boost it even more.
		2	FD VIBRO	This crunch sound uses the FD VIBRO model. Use the expression pedal to add Tremolo.
		3	US BLUES	This crunch sound uses the US BLUES model. Use the expression pedal to add TapeEcho.
	G	4	VX COMBO	This crunch sound uses the VX COMBO model. Use the expression pedal to add Ensemble.
	u	5	AX 1WI	This crunch sound uses VX JMI. Turn the Booster ON for solos.
		6	BG CRUNCH	This crunch sound uses the BG CRUNCH model. EarlyRef provides the secret ingredient.
5		7	MATCH 30	This clean sound uses the MATCH30 model and gets more width from the Air effect.
뺼		8	CAR DRIVE	This crunch sound uses CAR DRIVE and features resonance characteristic of a small amp.
Amp Modeling		9	TW ROCK	This crunch sound uses the TW ROCK model. Reverberations from the PhaseDly stand out.
2 0		0	TONE CITY	This crunch sound uses the TONE CITY model. Use the expression pedal to add Flanger.
A E		1	HW STACK	This clean sound uses the HW STACK model and gives the sound a 3D feeling with a combination of EarlyRef and Air effects.
	Н	2	TANGERINE	This crunch sound uses the TANGERINE effect. Try turning the Phaser ON.
		3	B-BREAKER	This crunch sound uses the B-Breaker model. The open tone is characteristic of an open-back amp.
		4	MS CRUNCH	This solo sound combines MS CRUNCH and T Scream and features ping-pong Delay.
		5	MS 1959	This is the MS 1959 crunch. The Vibe is ready to be activated at the head of the chain.
		6	MS DRIVE	This drive sound uses the MS DRIVE model. Turn Comp ON to get a clean sound.
		7	BGN DRIVE	This drive sound is based on the BGN DRIVE effect. Use the expression pedal to control the StereoDly Mix.
		8	BG DRIVE	This is the high-gain sound of the BG DRIVE model. Move the expression pedal to raise the pitch by 2 octaves!
		9	DZ DRIVE	This high-gain sound uses DZ DRIVE and features a crisp, tight tone.
		0	ALIEN	This high-gain sound uses the ALIEN effect. This monstrous tone features a fat low-end.
<u> </u>		1	REVO-1	This high-gain sound uses REVO-1. The NoiseGate shuts out noise.
		2	JB Crunch	This long reverb sound is ideal for emotional performances like when Jeff Beck plays "Amazing Grace."
		3	BrianDL	This patch was inspired by the sound used by Queen's Brian May in "Brighton Rock." The delay flying left and right every two beats is the key.
		5	Smooth	This smooth distortion sound is inspired by Eric Johnson's performance of "Cliffs of Dover."
ᇴ		6	Hendrix MetalKirk	Press down on the pedal to turn PedalVx ON in this Jimi Hendrix sound. Use the expression pedal to control wah and The Vibe. This moduled Mess Respire Dual Postifier sound is perfect for riffs with the right property of sair. Use the expression pedal to turn yeth ON.
Guitar Legend		7	U2	This modeled Mesa Boogie Dual Rectifier sound is perfect for riffs with the right amount of gain. Use the expression pedal to turn wah ON. This dotted-eighth-note delay that bounces left and right was popularized by U2's guitarist The Edge.
Leg		8	E.V.H	This captures the crisp riffing sound of Van Halen's "You Really Got Me."
ä		9	Beatle AC	This is the characteristic thick crunch sound used by The Beatles in their early days.
Ē		0	J.Page	This is the sound used by Jimmy Page live at Madison Square Garden. Turn the wah ON to get it!
	J	1	Layla	This tone can be heard in Eric Clapton's eternal hit Layla. Enjoy it with a Strat in a between pickup setting.
		2	Mr.Moore	This extreme Marshall sound is a tribute to Gary Moore.
		3	M.S-Wah	Everyone has tried Michael Schenker's half-cocked wah sound once, right?
		4	JazzFusion	John Scofield inspired this crunch with chorus sound. This patch is perfect for funky jazz fusion.
		5	Step Chord	Use the tap button to match the tempo of the song that you play and strum a power cord just once to create a new arrangement.
		6	FilterCLN	The M-Filter responds slowly to picking dynamics for a clean sound. This effect is good for cutting, arpeggios and other chord playing.
SFX		7	Theremin	This patch simulates the strange sound of a Theremin using the MonoSynth effect. Use your arm to change the pitch in large increments for a more convincing performance.
S		8	Atom	This hall sound is created by setting the pitch delay interval to two.
		9	DreamSeq	This special effect sound uses Z Dream and SeqFLTR effects. Use the expression pedal to control the StereoDly Mix.

G3/G3X Patch List - 1