



GUITAR EFFECTS PROCESSOR

Operation Manual

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Safety Precautions/Usage Precautions

Safety Precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the GFX-4.

Power requirements

- The GFX-4 is powered by the supplied AC adapter.
 To provent malfunction and safety baserds. Do paid
- To prevent malfunction and safety hazards, Do not use any other kind of AC adapter.
 When using the CEX 4 is an area with a different.
- When using the GFX-4 in an area with a different line voltage, please consult your local ZOOM distributor about acquiring a proper AC adapter.

Environment

Avoid using your GFX-4 in environments where it will be exposed to:

- Extreme temperature
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

Usage Precautions

Electrical interference

For safety considerations, the GFX-4 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the GFX-4, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the GFX-4 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

Handling

Since the GFX-4 is a precision electronic device, avoid applying excessive force to the switches and buttons. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.

Alterations

Caution Never open the case of the GFX-4 or attempt to modify the product in any way since this can result in damage to the unit.

Caution

Caution

Connecting cables and input and output jacks

You should always turn off the power to the GFX-4 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC adapter before moving the GFX-4.

• Cleaning

Use a soft, dry cloth to clean the GFX-4. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

Please keep this manual in a convenient place for future reference.

aution

Introduction

Thank you for selecting the *ZOOM GFX-4* (simply called the "*GFX-4*" in this manual). The GFX-4 is a sophisticated Guitar Effects Processor with the following features.

Versatile array of effects

The Variable Architecture Modeling System (VAMS) adapts the internal configuration of the unit to achieve exactly the desired sound. The GFX-4 includes vintage effects such as famous overdrive, distortion, compressor, and phaser sounds of the seventies and eighties, as well as ultramodern processing functions. Up to eight effects can be freely combined for simultaneous use.

Great choice of distortion sounds

In addition to traditional guitar amplifier characteristics, the GFX-4 uses modeling technology to duplicate the sound and operation feel of celebrated compact distortion effects. Well-proven combinations such as booster + distortion or compressor + overdrive can be established quickly and easily. By combining distortion effects with the built-in amp and cabinet simulator, you can get optimum sound also for line out recording.

Designed to get the best out of any guitar

The ACTIVE NORMAL switch provides quick and precise impedance and level matching for any guitar. Whether you have a passive pickup or use an active pickup or integrated preamp, your instrument will sound its best.

The OUTPUT MONO jack uses analog bypass with a mechanical switch, so that the output in bypass mode is not subject to any kind of digital signal processing.

Simple and intuitive operation

Thanks to three FX panels, the GFX-4 can be operated like a series of compact effects. Foot switches are convenient for turning effects on and off, and sound parameters can be adjusted quickly with rotary controls. The Easy Edit function is a snap to use also during a performance. With the GFX-4, playing your instrument and editing the sound is one seamless operation.

Extensive patch library

A combination of effects can be assigned a name of up to six characters and stored as a patch in the memory of the unit. There are 60 user patches (4 groups x 5 banks x 3 patches) which can be freely rewritten, plus 60 preset patches that make the unit ready to use right out of the box. The possibilities are almost endless.

Great for use on stage

The GFX-4 incorporates an expression pedal that can serve as real-time effect controller or volume pedal. The easy-to-read 6-character display and 2-character indicator make it easy to check patch names and settings at a glance, which is helpful during a live gig.

In order to get the most out of this sophisticated product, please read this manual carefully before use.

We recommend that you keep the manual at hand for future reference.

Terms Used in This Manual

This section explains some important terms that are used throughout the GFX-4 documentation.

Module

A "module" is a section that works like a stand-alone compact effect device for tailoring certain aspects of the sound. In the GFX-4, you can use the six modules COMP/OD/ENV, DRIVE, EQUALIZER, PEDAL, MODULATION, and DELAY/REVERB as well as the ZNR (Zoom Noise Reduction) + AMP SIM (Amp Simulator) simultaneously.



Effect types and parameters

Within each effect module, there are various effect types which are specific processing functions. The various settings of the currently selected effect type are called parameters. By selecting an effect type and varying the parameters, you can create a new effect.

Patch/group/bank

Effect module combinations and effect parameter settings are stored in memory as "patches". The GFX-4 can hold a total of 120 patches. These are divided into 60 user patches which are read/write, and 60 read-only preset patches. Both the user patches and preset patches are divided into four groups (A, b, C, d). Each group has 5 banks numbered from 0 - 4, and each bank has 3 patches. To use a patch in the GFX-4, you first call up the bank and then use the three foot switches 1 - 3 to select the patch.



Modes

Operation of the GFX-4 is divided into five main modes, as listed below.

Program mode

This is the basic operation mode of the GFX-4. The unit is always in this mode after power is turned on.

The mode is used for switching patches and for editing the currently selected patch.

Manual mode

This mode lets you switch modules on and off, operating the unit in the same way as a compact effect with the knobs and foot switches on the FX panels.

Store mode

This mode serves for storing patches edited in program mode or manual mode in the memory of the unit. It also allows changing the store positions of user patches.

Bypass/mute mode

When the GFX-4 is in the bypass condition, effect processing is temporarily turned off and only the original sound is heard. In the mute mode, all sound is turned off and the built-in chromatic tuner can be used.

Special mode

This mode serves for making amp simulator and ZNR settings, patch name and patch level settings, and for returning the GFX-4 to the factory default condition.

RTM (real-time modulation)

The RTM function allows use of the expression pedal to adjust DRIVE, MODULATION, or

DELAY/REVERB module parameters or the volume in real time. For example, you might use the pedal during a performance to vary the reverb mix balance or adjust wah intensity with your foot.

The module, effect type, and parameter, as well as the parameter change direction can be set separately for each patch.

Controls and Functions

Top Panel







Getting Connected

Guitar amp/instrument connection



About the Mono Output

The GFX-4 has two output jacks labeled OUTPUT STEREO and OUTPUT MONO. When the OUTPUT MONO jack is used, a mechanical relay switch operates in bypass mode, which results in true bypass (analog bypass where the signal is not subject to any kind of digital processing).

When using effects

The OUTPUT MONO jack supplies only the left-channel signal. This is suitable for example for connection to a guitar amp or another effect device.

When using Bypass

When the GFX-4 is in bypass mode, the analog input signal appears unchanged at this jack, due to the action of a switching relay. (This means that there is absolutely no sound quality change caused by digital processing.) Note that the expression/volume pedal and the MASTER LEVEL knob have no effect on the signal in this condition. INPUT Digital Processing OUTPUT MONO Volume Pedal Master Level Bypass mode Digital Processing OUTPUT INPUT MONO ጽ . Volume Pedal Master Level



When wishing to use the volume pedal and master level control also in bypass mode, use the OUTPUT STEREO jack.

Preparations

Power Up

- 1. Verify that the AC adapter, instrument, and amplifier are correctly connected to the GFX-4.
- **2.** Turn the system on in the order GFX-4 \rightarrow amplifier.

Using the Amp Simulator

3. While playing your instrument, adjust the volume control on the amplifier, the level control of the instrument, and the MASTER LEVEL knob of the GFX-4 to a suitable position.

When the GFX-4 is connected to a hi-fi system or multi-track recorder (MTR), set up the amp simulator to match your preferences.

1. Immediately after turning on the GFX-4, press the AMP SIM key.



The AMP SIM key LED lights up, showing that amp simulator setup is possible.

 Use the
 / ▶ keys to call up the indication "AMPTYP" on the display, and use the ▲ / ▼ keys to select the amp simulator type.



The following AMPTYP settings are available.

- oF: Amp simulator is turned off. (CABTYP and CABDPT parameters are also inactive.)
- Cb: Conventional combo amp simulation
- bC: Bright combo amp simulation
- St: Stack amp simulation

The current setting can be checked on the GROUP/BANK indicator.

Use the
✓ /
> keys to call up the indication
"CABI" on the display, and use the ▲ / ▼ keys to select the cabinet simulator type.



The following CABTYP settings are available.

- oF: Cabinet simulator is turned off. (CABDPT parameter is also inactive.)
- C1: Combo amp cabinet (12" speaker x 1)
- C2: Combo amp cabinet (12" speaker x 2)
- St: Stack amp cabinet (10" speaker x 4)
- WL: Simulates the sound of a stacked array of St type cabinets.

Use the / ▶ keys to call up the indication "CABDPT" on the display, and use the ▲ / ▼ keys to adjust the intensity of the cabinet simulator effect.

The setting range is 0 - 10. Higher values result in stronger cabinet sound.



5. When the setting is complete, press the STORE key two times.

The amp simulator setting is stored. This setting applies to all patches.

Operation Guide 1 Selecting Patches for Playing

In the factory default condition, the memory of the GFX-4 contains 60 rewritable user patches and 60 read-only preset patches. This section shows you how to select patches while playing your instrument. Try it out for yourself, to see what the GFX-4 can do.



For example, when group A is currently selected, the BANK \blacktriangle foot switch will move through the banks as follows: A0 \rightarrow A1 \rightarrow A2 \rightarrow A3 \rightarrow A4 \rightarrow A0 etc.

Operation Guide 2 Editing Patches

The GFX-4 allows you to edit patches both in program mode and manual mode.

In program mode, the display will revert to its original condition about 5 seconds after the last editing operation was performed. In manual mode, the display remains unchanged after the last editing operation.

In manual mode, the foot switches 1 - 3 can be used to switch effects on and off. To activate manual mode, press the MANUAL key in program mode.

Select module to edit

Use the module keys to select the module that you want to edit.

The LED of the selected module flashes in red. The display shows the following information.

When module is on

	 100		010	011
{	F	F		ТҮРЕ

When module is off

When a module is set to off, it cannot be edited. Turn the module on first.

Switch effect modules on and off

To toggle the selected module between on and off, press the FX panel key corresponding to that module.

In manual mode, module on/off switching can also be performed with foot switches 1 - 3. The modules are assigned to FX panels 1 - 3 as shown at right.

3)

NA9AL NI BOAM

BANK

0000

1

VAMS

Operation Guide 2 Editing Patches

Operation Guide 3 Storing/Swapping Patches

Unless you store an edited patch in the memory of the unit, the changes you have made will be lost when you select another patch. Don't forget to store the patch when you want to keep your changes.

Carry out the store/swap process

Press the STORE key once more.

The store/swap process is carried out and the unit reverts to the same condition as before the store mode was activated. When wishing to cancel the process, press the MANUAL/CANCEL key instead.

Operation Guide 4 Using the Tuner (Bypass/Mute) Function

The GFX-4 has a built-in auto-chromatic tuner for guitars. To use the tuner function, the built-in effects must be bypassed (temporarily turned off) or the unit must be muted (original sound and effect sound turned off).

When the GFX-4 is in program mode, press and release the foot switch of the currently selected patch (the switch whose LED is lit).

Pressing and immediately releasing the foot switch sets the unit to the bypass condition, and the indication "BP 440" is shown on the display.

When GFX-4 is in manual mode, press and immediately release BANK ▲ switch.

Pressing and holding the foot switch for more than 1 second sets the unit to the mute condition, and the indication "MT 440" is shown on the display.

When GFX-4 is in manual mode, press BANK ▲ switch for about 1 second.

While the GFX-4 is in bypass mode, the expression pedal cannot be used as a volume pedal for the guitar OUTPUT MONO jack.

2 Tune your guitar

Play the open string you want to tune, and watch the GROUP/BANK indicator.

The GFX-4 automatically detects the pitch and the indicator shows the note which is closest to the current pitch.

For tuning, always play a single note. If you play a chord, the pitch will not be detected correctly.

A = A D = C G = C $A^{\#} = \bigcap D^{\#} = \bigcap G^{\#} = \bigcap$ $\mathbf{B} = \mathbf{b} \mathbf{E} = \mathbf{E}$ $\mathbf{C} = \mathbf{F} \mathbf{F} = \mathbf{F}$ $\mathbf{C}^{\#} = \overline{\Gamma} \quad \mathbf{F}^{\#} = \overline{F}$

When the GROUP/BANK indicator shows the desired note, perform fine tuning while watching the display.

Editing Operations

This section describes the various editing operations that can be carried out with the unit.

The basic steps for patch editing are as follows.

1. While the GFX-4 is in program mode, select the patch you want to edit.

The module LEDs show the status of each module within that patch.

COMP/OD/ENV, DRIVE, EQUALIZER module LEDs

COMP/ OD/ENV	DRIVE	EQUALIZER
	$\Box_{\cap} \Box$	$ L_{\cap} $

	0	
Module LED status	Module on/off status	FX pedal 1 assignment
Lit red	On	Yes
Lit green	Off	Yes
Lit orange	On	No
Out	Off	No

COMP/OD/ENV, DRIVE, and EQUALIZER share the FX pedal 1 which can be assigned to any of these modules. However, when the assigned module is off (module LED lit in green), operating the FX pedal 1 only switches module on or off.

MODULATION, DELAY/REVERB module LEDs

MODULATION PEDAL-WAH PEDAL-PITCH	DEL REV	AY/ TERB		
Module LED status		ا /on	Module /off sta	tus
Lit red			On	
Out			Off	

- HINT
- The MODULATION and PEDAL modules share the FX pedal 2. Normally, the FX pedal 2 controls the MODULATION module, but when the PEDAL module is selected as operation target, the FX pedal 2 controls the PEDAL module. The PEDAL module LED is flashing.
 - The FX pedal 3 is permanently assigned to the DELAY/REVERB module. It always controls the DELAY/REVERB module.

2. Press one of the module keys (COMP/OD/ENV, DRIVE, EQUALIZER, PEDAL, MODULATION, DELAY/REVERB) to select the target module.

The LED of the selected module flashes, and the display shows the name of the effect type selected for that module (if the module is on), or "-OFF--" (if the module is off).

3. To toggle the selected module between on and off, press the module key of the corresponding FX panel again.

You can also switch between on and off by pressing the module key of the module whose LED is flashing.

The PEDAL module serves for making expression pedal settings. It is not a regular effect and can therefore not be turned off.

4. To switch the effect type of the selected module, use the TYPE DOWN/UP keys on the corresponding FX panel.

For example, when switching a module from on to off, the module LED changes from flashing red to flashing green.

The assignment of FX panels 1 - 3 to the modules is as follows.

- FX panel 1: COMP/OD/ENV, DRIVE, EQUALIZER module
- FX panel 2: PEDAL, MODULATION module
- FX panel 3: DELAY/REVERB module

The name of the currently selected effect type is shown on the display.

Approximate setting of parameters 1 - 3 (Out when there is no parameter)

- Unlike other modules, the EQUALIZER module has only one effect type. Therefore pressing the TYPE DOWN/UP keys has no effect. (The display shows only EQUALIZER "HIGH".)
- When a module that is currently set to off is selected, the effect type and parameter cannot be changed.

For the effect types PDLWAH (pedal wah) and PDLPIT (pedal pitch) in the MODULATION module only, it is possible to directly call up the editing display by pressing the PEDAL WAH/PEDAL PITCH key. For details, see page 26.

5. To set the effect parameters of the selected module, operate parameter knobs 1 - 3 of the corresponding FX panel.

The display shows the most recently edited parameter name, and the GROUP/BANK indicator shows the value of the parameter.

You can also use the $\triangleleft/\triangleright$ keys and $\triangle/\blacktriangledown$ keys to select the effect type and alter the parameter value. The $\triangleleft/\triangleright$ keys serve to bring up the effect type or parameter 1 - 3, and the $\triangle/\blacktriangledown$ keys serve to adjust the value.

- **6.** Use the module keys to select another module and adjust the effect type/parameter value and on/off setting in the same way.
- **7.** When editing is completed, store the patch as required.

If you call up another patch in program mode without storing the current patch, any editing changes will be lost.

Operation Differences of Manual Mode and Program Mode

When the MANUAL key is pressed while the GFX-4 is in program mode, the unit switches to manual mode. (Pressing the key again switches back to program mode.)

In manual mode, the foot switches 1 - 3 on the FX panels serve to turn modules on and off. This lets you change the sound of the currently selected patch in a way similar to using a compact effect. Operation differences in manual mode and program mode are listed below.

	Manual mode	Program mode
Module LED Display GROUP/BANK indicator	Module LED of last edited module flashes and display shows parameter name/effect type name. GROUP/BANK indicator shows parameter value.	Module LED indication of last edited module, display and GROUP/BANK indicator function are the same as in program mode, but display reverts to program mode initial display after about 5 seconds.
Foot switches 1 - 3	Switch respective module on and off	Switch patches
To activate bypass (mute) mode	Press BANK ▲ switch	Press foot switch of currently selected patch number (LED lit)

Setting the Patch Level and Patch Name

When a patch has been completed, you can give it a name of up to six characters, and adjust the patch level (the final output level for each patch).

1. In manual mode or program mode, press the LEVEL/NAME key.

Use the keys to bring up the indication "PATLVL" on the display.

This display allows setting the final patch level in the range from 1 - 50. (A patch level setting of 40 means that the input level and output level are equal.) The current setting is shown on the GROUP/BANK indicator.

3. Use the $\blacktriangle/\blacksquare$ keys to adjust the patch level.

Use the keys to bring up the patch name on the display.

This display allows changing the patch name. The flashing character is the one that is currently selected for editing.

Use the </ >
 keys to select the character to be edited, and change the character with the ▲/▼ keys. The following alphanumeric characters and symbols are available.

6. When the patch level and patch name have been set, press the LEVEL/NAME key.

The GFX-4 returns to the previous mode. If required, store the patch (\rightarrow p. 12 - 13).

If you call up another patch in program mode without storing the current patch, any editing changes will be lost.

Setting the ZNR Threshold

The GFX-4 incorporates the ZNR (ZOOM Noise Reduction) circuit which is highly effective in minimizing noise in playing pauses. You can set the ZNR threshold individually for each patch.

1. In manual mode or program mode, press the ZNR key.

The indication "ZNR" appears on the display, and the current setting (oF, 1 - 10) is shown on the GROUP/BANK indicator.

Use the ▲/▼ keys to adjust the ZNR threshold (sensitivity).

Choose the value which yields the best noise reduction without causing the sound to be cut off abruptly. The setting "oF" means that ZNR is turned off.

3. When the threshold has been set, press the ZNR key once more.

The GFX-4 returns to the previous mode. If required, store the patch.

If you call up another patch in program mode without storing the current patch, any setting changes will be lost.

Using the Expression Pedal (RTM function)

The GFX-4 has an integrated expression pedal that can be used to adjust the volume or effect parameters in real time. This function is called RTM (Real Time Modulation). This section explains how to make RTM settings and use the function.

Select the patch for which you want to make RTM settings, and press the PEDAL module key in manual mode or program mode.

The PEDAL module display is shown. This module serves for making expression pedal settings.

The RTM setting can be made in manual mode or program mode. However, if the PEDAL module key is pressed in program mode, the unit reverts to the original condition if no control is operated for 5 seconds.

2. Use the pedal module key to bring up the indication "EXPVOL" on the display.

This display lets you make settings for using the expression pedal as a volume pedal and for selecting the function of the assignable switch built into the expression pedal.

3. Use knobs 1 - 3 of FX panel 2 to set the following parameters.

- Parameter Knob 1 ···· EXPVOL Determines whether the expression pedal is used as a volume pedal in this patch. You can select "oF" (off) or "on".
- Parameter Knob 2 ···· MINVOL

When the "on" setting is selected with knob 1, you can set the minimum volume (the volume when the pedal is fully raised) with this knob. The setting range is 0 - 9.

Parameter Knob 3 ---- EXP-SW

The expression pedal incorporates an assignable switch (electronic switch that is toggled between on and off when the pedal is fully depressed). This knob lets you select the function of the switch from the following two options.

- 0: Toggle RTM controlled module on/off status
- 1: Switch between program mode and manual mode

Depending on which knob is operated, the parameter name appears on the display and the current setting is shown on the GROUP/BANK indicator.

To use the expression pedal as volume pedal in bypass mode, the stereo output of the GFX-4 must be used. If the mono output is used (playback system connected only to the OUTPUT MONO jack), the expression pedal does not function as a volume pedal, regardless of the EXPVOL parameter setting.

4. Use the pedal module key to bring up the indication "EP-DRV" on the display.

[22	<u>IR</u> /	/ PARM
	()	

This display allows you to select the effect module to be adjusted in real time with the pedal. RTM control is possible for the DRIVE, MODULATION, and DELAY/REVERB modules. (Several modules can be selected.)

5. Use knobs 1 - 2 on the FX panel 2 to set the following parameters.

- Parameter Knob 1 •••• EP-DRV Determines whether to control the DRIVE module with the expression pedal in real time. You can select "oF" (off) or "on".
- Parameter Knob 2 ···· EP-MOD

Determines whether to control the MODULATION module with the expression pedal in real time. You can select "oF" (off), "UP", "dn" (down), "Hi" (high), or "Lo" (low).

When a setting other than "oF" is selected, operation is as follows.

When the effect type of the MODULATION module is PDLPIT (pedal pitch) or PDLWAH (pedal wah), the "Hi" setting has the same effect as "UP" and "Lo" has the same effect as "dn".

• Parameter Knob 3---- EP-D/R

Determines whether to control the DELAY/REVERB module with the expression pedal in real time. You can select "oF" (off), "UP", "dn" (down), "Hi" (high), or "Lo" (low).

When a setting other than "oF" is selected, operation is the same as for EP-MOD.

6. Make sure that modules selected in step 5 are set to on. If required, switch the effect type used in the module.

The parameter controlled by RTM depends on which effect type is currently selected for the module. For details, see the section "Effect Types and Parameters".

7. If required, store the patch, and return to program mode.

When you now operate the expression pedal, the respective parameter in the modules selected for RTM will change.

When you push the expression pedal fully down, the assignable switch performs the selected function (switching between program mode and manual mode or toggling the module on/off status).

Press down

For example, you may select the DRIVE and MODULATION modules for RTM control and store the patch with one module set to on and the other set to off. If you then select the module on/off function for the assignable switch, the module controlled by RTM is switched every time you push the expression pedal fully down.

PEDAL WAH/PEDAL PITCH Key

Among the effect types that can be controlled by RTM, the two effect types PDLWAH (pedal wah) and PDLPIT (pedal pitch) in the MODULATION module have a special key.

1. In manual mode or program mode, press the PEDAL WAH/PEDAL PITCH keys.

The PEDALWAH/PEDAL PITCH key are shortcut keys for quickly adjusting pedal wah or pedal pitch. With each push of the key, the edit display for "PDLWAH" and "PDLPIT" is displayed alternately.

Lit when type has changed

2. To use the pedal wah effect, select the "PDLWAH" display. To use the pedal pitch effect, select the "PDLPIT" display.

When one of these is selected, the patch setting automatically becomes as follows.

- MODULATION module = ON
- MODULATION module effect type = PDLWAH or PDLPIT
- UP if RTMSET display EP-MOD parameter = oF

3. If required, use the parameter knobs on FX panel 2 to set the effect parameter.

The effect parameter setting procedure is the same as for regular editing. (For information on effect parameters, see page 21.)

4. If required, store the patch, and then return to program mode.

When you now operate the expression pedal, the pedal wah or pedal pitch effect is applied.

Effect Types and Parameters

In this section, the effect types and parameters in all modules are listed and explained.

This mark indicates that the parameter can be controlled with the RTM function.

About Modules and Effect Types

The illustration below shows the modules in the patches of the GFX-4, and the effect types that can be selected within each module.

Overdrive sound that works great also as booster.

GAIN

Adjusts the gain.

TYPE 4 A-WAH (Auto	Wah)						
This is an auto wah effect which varies the effect depth according to the picking intensity.							
SENS -101, 1 - 10	2 RESO 1 – 10	OPOSI bF, AF					
Adjusts the sensitivity. Positive values shift the peak upwards and negative values shift it downwards.	Adjusts the prominence of the wah effect.	Selects the COMP/OD/ENV module and DRIVE module connection sequence. The following two setting are available. bF: COMP/OD/ENV→ DRIVE AF: DRIVE→ COMP/OD/ENV					
TYPE 5 SLOW-A (Slow	attack)						
This effect adds a soft attack to each r	note, depending on the picking intensity.						
1 TIME 1 – 10	2 CURVE 1-4	O POSI bF, AF					
Adjusts the transient rate of the sound.	Adjusts the transient curve of the sound.	Selects the COMP/OD/ENV module and DRIVE module connection sequence. The following two setting are available. bF: COMP/OD/ENV→ DRIVE AF: DRIVE→ COMP/OD/ENV					

О

DRIVE module

This module contains mainly distortion type effects such as Fuzz and Overdrive simulating conventional compact effects. In addition, the module also features preamp effects and an acoustic guitar simulator.

TYPE 1 ACOSIM	(Αςοι	stic Simulator)			
Changes the sound of an elec	ctric guita	r to resemble that of	an acoustic guitar.		
🛈 ТОР 🚄	1 – 10	BODY	1 – 10		1 – 10
Higher values for this parameter in a stronger acoustic guitar char	result acter.	Higher values for the in stronger instrume	is parameter result nt body sound.	Adjusts the output leve	l of the module.
TYPE 2 SCREAM	(Scre	am)			
Simulates a vintage overdrive	that was	extremely popular in	n America as a boos	ter.	
TYPE 3 OD	(Over	drive)			
Simulates the "classic" overd	rive tone.				
TYPE 4 DIST +	(Disto	ortion +)			
Simulates a vintage distortion	unit that	pioneered distortion	sound.		
TYPE 5 DIST	(Disto	ortion)			
Hard distortion British "Stack	Style".				
TYPE 6 FUZZ P	(Fuzz	π)			
Vintage "60's" fuzz simulatior	n, rough d	istortion and superb	tone.		
TYPE 7 LEAD	(Lead)			
Parallells the "ZOOM" lead gu	uitar soun	d, modern with outs	tanding drive.		
TYPE 8 METALZ	(Meta	nl Z)			
Simulates intense Heavy Meta	al dual ga	in distortion.			
TYPE 9 ZMD-1	(Z00I	M Metal Driver ⁻	1)		
Ultra high gain, metal super d	listortion,	over the edge.			
TYPE 10 USBLUE	(US B	lues)			
Full range vintage amp distor	tion, pick	ng intensity varies th	ne overdrive.		
TYPE 11 BRDRV	(Britis	h Drive)			
The "British Invasion" vintage	tube sou	nd that started it all.			

TYPE 12 DRFMTL (DF	F Metal)						
Simulates an amp tailor-made for thrashers. The strong distortion goes great together with humbucker pickups.							
TYPE 13 EVHDRV (EVH Driver)							
Simulates a signature amp that has	Simulates a signature amp that has received praise from guitars the world over.						
∂ GAIN ≤ 1-30 ∂ TONE 0-10 ∂ LEVEL 1-10							
Adjusts the distortion intensity. Adjusts the sound character. Adjusts the output level of the module.							

EQUALIZER module

This module is a 3-band equalizer for adjusting the tonal character of the sound.

TYPE 1 3BAND EQ (3-band equalizer)							
🛈 HIGH	-12 – 12	O MID	-12 – 12	O LOW	-12 – 12		
Adjusts boost/cr range.	ut in the high frequency	Adjusts boost/c frequency range	ut in the medium e.	Adjusts boost/c range.	cut in the low frequency		

PEDAL module

This module contains the settings for the expression pedal on the unit.

Because the PEDAL module is not an effect, it cannot be set to off.

PAGE 1 VOL-SW (Volume/Assignable Switch Settings)

Determines whether the expression pedal is used as a volume pedal, and determines which function is assigned to the assignable switch.

	oF, on		0 – 9	G EXP-SW	0, 1
Determines for each patch wh expression pedal is assigned to control.	ether the o volume	Determines the minimum when the expression peda volume control. (This is t when the pedal is fully ra	n volume setting al is assigned to the volume lised.)	Determines for each patch the that is assigned to the assignab The following two settings are 0: On/off switching of module RTM is assigned 1: PRESET group program mo mode switching	function le switch. available. to which ode/manual

PAGE 2 RTMSET (RTM Settings)

Using the RTM function, the DRIVE, MODULATION, or DELAY/REVERB module can be controlled with the expression pedal.

DEP-DRV oF, on	Ø EP-MOD	oF, UP, dn, Hi, Lo	O EP-D/R	oF, UP, dn, Hi, Lo
Determines whether to control a DRIVE module parameter in real time with the expression pedal. When the effect type ACOSIM is selected, the TOP parameter is adjusted. When another effect type is selected, the GAIN parameter is adjusted.	Determines whe MODULATION real time with th details on operat settings are select which ontroll preset f • When F or PDL selected MODU operation	ther to control a N module parameter in the expression pedal. For tion when various cted, see page 19. parameter can be led with the pedal is for each effect type. PDLWAH (pedal wah) PIT (pedal pitch) is d as effect type for the ULATION module, on of HI is equal to UP is equal to dn	Determines whe DELAY/REVER real time with th details on operat are selected, see	ther to control a RB module parameter in e expression pedal. For ion when various settings page19.

MODULATION module

This module contains modulation effects such as chorus, flanger, pitch shifter, etc.

TYPE 1 CHORL	JS (Chor	us)			
Chorus effect with clear se	ound.				
O DEPTH	0 – 50	Ø RATE	1 – 50	🕙 MIX 🕳 0 -	- 50
Adjusts the effect depth.		Adjusts the modulation rate.		Adjusts the effect sound mixing ratio).
[Chorus operation]	PITCH		PITCH	<u> </u>	
	+	Original sound	+	Effect sound	
	0	 → TIME	+ •		ME
	-		-	\bigvee	
TYPE 2 CE-CH	0 (CE C	horus)			
Simulates a vintage analo	g chorus cha	racterized by warm, full-bodi	ed sound.		
1 DEPTH	0 – 50		0 – 10	😧 MIX 🚄 0	- 50
Adjusts the effect depth.		Adjusts the effect sound chara	acter.	Adjusts the effect sound mixing ratio	э.
TYPE 3 FLANG	E (Flan	ger)			
This effect produces a uni	que, undulat	ing sound.		_	
O DEPTH	0 – 50	@rate 🚄	1 – 50	• RESO -15	- 15
Adjusts the effect depth.		Adjusts the modulation rate.		Adjusts the character intensity. Nega values result in effect sound with rev phase.	ative versed
TYPE 4 VIBRAT	(Vibra	to)			
This is a vibrato effect tha	t periodically	varies the pitch.			
O DEPTH	0 – 50	🛛 RATE 🚄	1 – 50		- 50
Adjusts the effect depth.		Adjusts the modulation rate.		Adjusts the mixing balance between effect sound and original sound. Hig values result in stronger effect sound	her I.
TYPE 5 STEP	(Step)				
This is a special effect wit resulting in a sample-and-	h step-like fil hold type ef	ter characteristics. The cutofifect.	f is varied in	discrete steps at a constant rate,	
1 DEPTH	0 – 50	🙆 RATE 🚄	1 – 50	6 FB 0	- 50
Adjusts the effect depth.		Adjusts the modulation rate.		Adjusts the feedback amount.	
TYPE 6 TREMO)L (Tren	nolo)			
This effect periodically van	ries the level	of the sound.		1	
	0 – 50	🛛 RATE 🚄	1 – 50		- 10
Adjusts the effect depth.		Adjusts the modulation rate.		Higher values result in clipped modulation signal waveform, which emphasizes the modulation.	
[Tremolo operation]	LEVEL	Original sound	LEVEL	Signal after tremolo effect	t
	+ 0 _		+ → 0		→ 1E

TYPE 7 DELAY (Dela	ay)	
This is a delay effect with a maximum	delay time of 500 milliseconds.	
O TIME 1 – 50	2 FB 0 - 50	😧 MIX 🚄 0 – 10
Adjusts the delay time in 10-ms steps.	Adjusts the feedback amount. Higher values result in an increased number of delayed sound components.	Adjusts the effect sound mixing ratio.
TYPE 8 PHASE (Phas	ser)	
Simulates a phaser with silky smooth	sound not attained by other models.	
1 POSI bF, AF	@RATE 1 – 50	COLOR 1-4
Selects the connection position of the MODULATION module. The following two settings are available. bF: Before the DRIVE module AF: After the EQUALIZER module	Adjusts the modulation rate.	Selects the character of the phase sound.
TYPE 9 RINGMD (Ring	Modulation)	
This effect applies amplitude modulation	ion to the input signal, resulting in a meta	Illic sound character.
OPOSI bF, AF	@ FREQ 1 – 50	③ BAL 0 – 50
Selects the connection position of the MODULATION module. The following two settings are available. bF: Before the DRIVE module AF: After the EQUALIZER module	Determines the frequency of the modulation signal.	Adjusts the mixing balance between effect sound and original sound. Higher values result in stronger effect sound.
TYPE 10 PITCH (Pitc	h Shifter)	
This effect varies the pitch in the range	e from 1 octave down to 2 octaves up.	
OPIT -12, -111, 1, 2 12, 24	2 TONE 0 - 10	S BAL <u>6</u> 0-50
Adjusts the pitch shift amount in semitone steps.	Adjusts the effect sound character.	Adjusts the mixing balance between effect sound and original sound. Higher values result in stronger effect sound.
TYPE 11 DETUNE (Detu	une)	
This effect mixes a slightly pitch-shifte modulation.	ed component to the original sound, resu	Iting in a chorus effect with only slight
ODEPTH -101, 110	2 TONE 0 - 10	🕄 MIX 🚄 0 – 50
Adjusts the effect sound detuning extent.	Adjusts the effect sound character.	Adjusts the effect sound mixing ratio.
TYPE 12 PDLWAH (Ped	al Wah)	
Simulates a typical pedal wah with ch	anging effect and feeling according to the	e pedal angle.
OPOSI bF, AF	@FREQ 4 - 50	3 LEVEL 1 – 50
Selects the connection position of the MODULATION module. The following two settings are available. bF: Before the DRIVE module AF: After the EQUALIZER module	Adjusts the wah center frequency.	Adjusts the volume level.

TYPE 13 PDLP	l T (Peda	l Pitch)			
This is a pitch shifter cor	ntrolled by the	pedal.			
O POSI	bF, AF	ОТУРЕ	1 – 10	• TONE	0 – 10
Selects the connection posi MODULATION module. T following two settings are a bF: Before the DRIVE mod AF: After the EQUALIZED	tion of the The available. dule & module	Selects the pedal pitch type.		Adjusts the effect s	ound character.
[Pedal pitch type]				/PEDAL PITCH k	(ev

TYPE		
1	± 0 cent	-100 cent
2	±0 cent	+1 octave
3	± 0 cent	+2 octave
4	± 0 cent	-1 octave
5	± 0 cent	-2 octave
6	Doubling	Detuned sound + original sound
7	-1 octave + original sound	+1 octave + original sound
8	-700 cent + original sound	+500 cent + original sound
9	-∞ (0 Hz) + original sound	+1 octave
10	-∞ (0 Hz) + original sound	+1 octave + original sound

For the effect types PDLWAH (pedal wah) and PDLPIT (pedal pitch) of the MOD module only, there is a special key to call up the edit screen.

Pressing the PEDAL WAH/PEDAL PITCH key in manual mode or program mode toggles the unit between the PDLWAH and PDLPIT edit screens. When PDLWAH or PDLPIT is selected, you can adjust the effect parameters with the knobs of FX panel 2. In this case, the following settings are established automatically.

- MODULATION module = ON
- MODULATION module effect type = PDLWAH or PDLPIT
- UP if RTMSET display EP-MOD parameter = oF

DELAY/REVERB module

This module contains various echo effects such as delay and reverb.

IYPE 1 HALL	(Hall)				
This is a reverb effect w	hich simulates	a medium-size con	cert hall.		
TYPE 2 AREN	A (Aren	a)			
This is a reverb effect w	hich simulates	a large arena.			
TYPE 3 ROOM	(Rooi	n)			
This is a reverb effect w	hich simulates	a small room.			
TYPE 4 GARA	GE (Gara	ge)			
This is a reverb effect w	hich simulates	a garage with a hig	h amount of early ref	lections.	
	1 – 30	O TONE	0 – 10		0 - 50
Adjusts the reverb time.		Adjusts the effect s	ound character.	Adjusts the effect so	und mixing ratio.
TYPE 5 DLYH	AL (Dela	y Hall)		'	
This is a combined dela	y + hall reverb	effect.			
TYPE 6 DLYR	OM (Dela	y Room)			
This is a combined dela	y + room rever	b effect.			
	1 – 50		∠ 0 − 50		0 – 50
Adjusts the delay time in 1	0-ms steps.	Adjusts the delay s	ound mixing ratio.	Adjusts the reverb so	ound mixing ratio.

TYPE 7 PP DLY (Pin	ngpong Delay)	
This is a pingpong delay effect with	a long delay time (maximum 2 seconds).	
TYPE 8 ECHO (Ec	ho)	
This is a warm sounding delay effect	t with a long delay time (maximum 2 seco	nds).
1 DLYTIM 1- 99,1.0 - 2.	0 9 FB/HLD 0 - 50, Hd, HS	O – 50
Adjusts the delay time in 10-ms steps up to 1 second. Above that, adjustment is in 100-ms steps.	 0 - 50: Adjusts the delay feedback amount. Hd: Causes the effect to operate as hold delay. HS: Causes the effect to operate as hold delay with seamless function. 	Adjusts the delay sound mixing ratio.
Hold Delay	[Hold Delay]	
By selecting PP-DLY or ECHO as the the DELAY/REVERB module and se to "Hd" or "Hs", a patch can use the h function where the foot switches serve recording and playback of a phrase.	e effect type in tting parameter 2 old delay e to control Enter Switch 3	
• Select the above type of patch in ma	nual mode and Press	Belease Press
 Press foot switch 3 to start recording When foot switch 3 is released or the as parameter 1 has elapsed, recordin repeat playback of the recorded phra automatically. Pressing foot switch 3 during repeat playback. 	e delay time set g terminates, and se starts Effect sound playback stops Foot switch 3 Press	Time Repeat playback
The seamless delay function of the GI (before and after switching) fulfill all	ard still after switching patches. FX-4 can be used when both the patches of the following conditions: LEV	amless Delay] /EL Patch A Patch B
 (1) REV/DLY module = ON (2) REV/DLY module effect type (3) Delay time = Max. 1 second 	e = PP-DLY or ECHO	Original sound Delay sound
When both the patches (before and aff module ON and the FB/HLD paramet can be used as seamless delay. In this be repeated also after the GFX-4 is re switched during repeat playback. To f after a patch change, set the unit to the	er switching) have the REV/DLY er set to "HS", the hold delay function case, the recorded phrase continues to urned to program mode and the patch is orce an end to the hold delay function e bypass condition.	Patch change
TYPE 9 REVERS (Re	verse)	
This is a special delay effect where	the effect sound seems to be rotating in re	verse.
O DLYTIM 50 – 99, 1.0 – 2.	0 2 FB 0 - 50	O – 50
Adjusts the delay time in 10-ms steps up to 1 second. Above that, adjustment is in 100-ms steps.	Adjusts the delay feedback amount.	Adjusts the delay sound mixing ratio.
TYPE 10 ST CHO (Ste	reo Chorus)	
This is a stereo chorus effect with c	ear sound and a wide spread.	1
1 DEPTH 0 – 5	0 2 RATE 1 - 50	€ CHOMIX ▲ 0 – 50
Adjusts the effect depth.	Adjusts the modulation rate.	Adjusts the chorus sound mixing ratio.

Other Functions

This section contains information about special functions such as how to return the GFX-4 to the factory default condition and how to readjust the expression pedal.

All Initialize

The All Initialize function is a special function that lets you reset the GFX-4 to the condition in which it was originally shipped. When All Initialize is performed, all settings of the unit including all user group patches are returned to the default condition.

Turn power to the GFX-4 on while keeping the STORE key depressed.

The display shows "INIT".

GROUP BANK	

2. Press the STORE key once more.

All Initialize is carried out. If All Initialize was carried out, the unit automatically returns to the program mode.

Note that when All Initialize is executed, the contents of all patches stored by the user will be overwritten (erased). When wishing to cancel All Initialize, press the MANUAL/CANCEL key before step 2.

Adjusting the Expression Pedal

The expression pedal of the GFX-4 uses a highly reliable optical sensor mechanism. The pedal is adjusted for optimum operation at the factory, but it can be readjusted as follows if required.

1. Hold down the PEDAL module key while turning on power to the unit.

The indication "MIN" appears on the display.

2. With the expression pedal fully raised, press the STORE key.

The display indication changes to "MAX".

3. Push the expression pedal fully down and then lift your foot off the pedal (the pedal goes back a little). Press the STORE key at this point.

Push strongly, so that pedal touches here

pedal returns slightly

Press STORE key

The adjustment is completed, and the unit returns to the program mode.

Troubleshooting

Symptom		Check		Remedy
		Is suitable AC adapter connected, and power switch set to ON?		Make connections as described in "Getting Connected" and turn power on.
		 Is instrument connected correctly to INPUT jack and playback equipment to OUTPUT jack? 		Make connections as described in "Getting Connected".
		Is shielded cable defective?	$ \downarrow\rangle$	Try using another cable.
No sound or very low		 Is amplifier turned on? Are level controls for instrument and amplifier set to proper values? 		Turn amplifier on and adjust volume to proper level.
		 Is GFX-4 set to mute condition? 	$ \downarrow\rangle$	Cancel the mute condition.
		• Is MASTER LEVEL knob turned down?		Set MASTER LEVEL knob to proper position.
		Is expression pedal raised?		For some patches, the expression pedal controls the volume. Set it to a suitable position.
Bypass (mute) mode cannot be activated	\Diamond	Has unit been switched between program mode and manual mode?		Switch function is different in program mode and manual mode. Select correct mode.
Volume does not change when	7	Has expression pedal been set to function as volume pedal?		Assign volume control function to expression pedal as described on page 19 and set minimum volume.
expression pedal is operated in bypass mode	4	 Is mono output used (playback system connected only to OUTPUT MONO jack)? 	\Diamond	With a mono connection, the expression pedal cannot be used to control the volume. Connect the playback system to OUTPUT STEREO jack.
Expression pedal on/off switching is not performed properly	\Box	 Readjusting the pedal may correct the problem. 		Readjust pedal, as described on page 28.
Oscillation occurs	ert	 Is high-gain distortion effect used together with compressor/booster effect or EQUALIZER? 		Reduce parameter values of high-gain module (gain, tone, level).

Specifications

Effect programs	44 (42 effects + ZNR + Amp Simulator)	Outputs	Mono output Standard phone jack (mono) x 1
Effect modules	6 + ZNR + Amp Simulator		(nominal output level -10 dBm, output impedance 10 k Ω or higher)
Patch memory	USER		Combined line/headphone output
	3 patches x 5 banks x 4 groups = 60		Standard phone jack (stereo) x 1
	(read/write/store)		(maximum output level +4 dBm, output
	PRESEI 3 patches x 5 banks x 4 groups = 60 (read		load impedance 10 kg2 of higher)
	only)	Display	Original LCD (with backlight)
	Total 120 patches		2-digit, 7-segment LED
Sampling frequency	40 kHz	Power requirements	12 V AC, 500 mA
			(from supplied AC adapter AD-0008)
A/D conversion	20-bit 64-times oversampling converter	Dimonoiono	207 mm (W) v 182 mm (D) v 60 mm (U)
D/A COnversion	20-bit 128-times oversampning converter	Dimensions	597 mm (w) x 185 mm (D) x 60 mm (H)
Input	Guitar input	Weight	1.4kg
•	Standard phone jack (mono) x 1	0	6
	(nominal input level -10 dBm)	* 0 dBm = 0.775 Vri	ns
B . 1		* Design and specif	ications subject to change without
Pickup select	Normal	notice.	
	Input impedance 510kΩ		
	(pickup type = passive)		
	Input impedance 20 k Ω (pickup type =		
	active)		

Patch List

GROUP	BANK	PATCH	NAME	DEMO
		1	GFXDRV	Powerful distortion sound.
	0	2	ODROCK	Boost sound with over drive effect.
	-	3	STDCHO	Useful chorus sound.
		1	HEAVY	Heavy base distortion sound.
	1	2	FUSION	Vintage comp and phase effect combined sound.
		3	PDLPIT [PEDAL-PITCH]	Hard distortion with pedal-pitch effect.
_		1	MTLDLY	Metal sound with delay effect.
A	2	2	COOLWA IPEDAL-WAHI	Vintage pedal-wah clean sound.
		3	TEXAS	Over drive sound for "blues-man".
		1	WAHDST [PEDAL-WAH]	Distortion sound with pedal-wah effect.
	3	2	BLUES	Good for blues playing.
		3	FUNKY	Funky auto-wah sound.
		1	LABACK	Good for riff playing.
	4	2	STRUM	Acoustic guitar simulated for strum play.
		3	RNGDRV	Lead sound with ring modulation effect.
GROUP	BANK	PATCH	NAME	MODELING
	2411			
	•	1	BOITOM	Heavy fuzz sound with chorus effect.
	U	<u>2</u>	NIKVRN	High gain grungy sound.
		3	SMOOTH	Smooth chorus clean sound.
	-			Like Larry S room .
	1	2		Clean sound with active offect
		3		Every drive cound with model web and reverse affect
b	2	···· 2	FUZRVS [PEDAL-WAR]	Fuzz arive sound, with pedal-wan and reverse effect.
~	-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		For clean outting sound
		1	BANAMA	Eddia's famous driven sound
	3	····;		Boost sound with high gain distortion effect
	Ŭ		NUANCE	Peal amplifier sound
		1	BBNWTB	Modern Fuzz tone
	4	2	SNAKE	Hard rock sound
		3	BOCKEB	Distortion sound for standard rock style
	DANK	DATCH	NAME	
GROUP	DANA	PAICH		
GROUP	DANK		BZ-TAK	Tak's wah tone.
GROUP	DANK 0	1 2	BZ-TAK VAIDRV	Tak's wah tone. Vai's driven sound.
GROUP	DANK 0	1 2 3	BZ-TAK VAIDRV CHODRV	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect.
GROUP	DANK 0	1 2 3 1	BZ-TAK VAIDRV CHODRV VAI-LD	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound.
GROUP	0 1	1 2 3 1 2 2	BZ-TAK VAIDRV CHODRV VAI-LD GARY	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's out outh courd
GROUP	0 1	1741 CH 1 2 3 1 2 3	BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOMEN	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Load cound for loggifusion stulo.
GROUP	0 1 2	1 2 3 1 2 3 1 2 3 1 2	BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN BATONE	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for inter play
C	0 1 2	1 2 3 1 2 3 1 2 3	BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for iazz play.
GROUP C	0 1 2	1 2 3 1 2 3 1 2 3 3 1 2 3 3 1	VALUE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound sound sound Luke's all-round sound
GROUP C	0 1 2 3	1 2 3 1 2 3 1 2 3 3 1 2 3 3	VAULE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for Jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound"
GROUP C	0 1 2 3	1 2 3 1 2 3 1 2 3 3 1 2 3 3 1 2 3 3	VAULE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN".
GROUP C	0 1 2 3	1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 1	BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation.
C	0 1 2 3 4	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	VAURE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound.
GROUP C	0 1 2 3 4	1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3	VAULE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Över drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound.
GROUP C	0 1 2 3 4 BANK	PATCH	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. VABLATION
GROUP	DANK 0 1 2 3 4 BANK	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound.
GROUP C GROUP	0 1 2 3 4 BANK	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAULE BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH]	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect.
GROUP	0 1 2 3 4 BANK 0	PATCH 1 2 3 3 1 2 3 3 3 1 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound simulation .
GROUP	0 1 2 3 4 BANK 0	PATCH 1 2 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound.
GROUP	DANK 0 1 2 3 4 BANK 0	PATCH 1 2 3 3 1 2 3 3 1 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound.
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 PATCH 1 2 3 PATCH 1 2 3 3 1 2 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 1 2 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Chorus driven sound. Rockabilly sound.
GROUP	DANK 0 1 2 3 4 BANK 0 1	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 PATCH 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM PICH	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Chorus driven sound. Rockabilly sound. Chorus driven sound. Distortion sound with tremolo effect. Pish diretarian cound
GROUP	DANK 0 1 2 3 4 BANK 0 1	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound.
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 2	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Chorus driven sound. Storuch for Country blues style. Storuch sound for Country blues style. Storuch sound for Country blues style.
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 2	PATCH 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 2 1 3 1 2 1 2 3 1 2 1 3 1 2 1 2 1 3 1 2 1 2 1 3 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 2 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 1 2 2 3 2 2 3 2 3 1 2 3 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 2 1 2 3 1 2 2 1 2 3 1 2 2 1 2 2 2 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Gary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Över drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Crunch sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound.
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 1 2 3	PATCH 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL WORMMY	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Cary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Över drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Crunch sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound. Box stude cabinet clean sound
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 1 2 3	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 PATCH 1 2 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL WORMMY	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chorus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Clean sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound. Box style cabinet clean sound Detune chorus clean sound
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 2 3	PATCH 1 2 3 3 1 2 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 2 3 3 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL WORMMY MELOW DRVIBE	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound. Chean sound with tremolo effect. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Clean sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound. Box style cabinet clean sound. Detune chorus clean sound. Detune chorus clean sound. Detune chorus clean sound. Detune chorus clean sound. Dot we sound with vibrato effect
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 2 3 3 4	PATCH 1 2 3 1 2 3 1 2 3 1 2 3 PATCH 1 2 3 3 1 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 3 1 2 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 3 1 2 2 3 3 3 2 2 3 3 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 1 2 3 3 3 3 1 2 2 3 3 3 1 2 2 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL WORMMY MELOW DRVIBE JET	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Cary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound simulation . Old UK-style sound. Cherus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Crunch sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound. Box style cabinet clean sound . Detune chorus clean sound . Drive sound with vibrato effect. Standard iet sound.
GROUP C GROUP	DANK 0 1 2 3 4 BANK 0 1 2 3 3 4	PATCH 1 2 3 3 1 2 3 1 2 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	NAME BZ-TAK VAIDRV CHODRV VAI-LD GARY ZAK SCOHEN PATONE JAZZOD LUKIE SUMMER SATCH LA-STD BMSTEP EVH2 NAME HMSOLO [PEDAL-PITCH] MARK2 UKTONE VISUAL ROCKAB ALPTRM RICH CONTRY CATHED TRIBAL WORMMY MELOW DRVIBE JET ROBOT	Tak's wah tone. Vai's driven sound. Distortion sound with chorus effect. Vai's lead sound. Cary's lead sound. Zak's auto-wah sound. Lead sound for Jazz/fusion style. Clean tone for jazz play. Over drive sound for jazz play. Luke's all-round sound. Message in a "sound". Like Satch's "ALIEN". LA studio sound simulation. Zoom original step effect sound. Eddie's famous hard driven sound. VARIATION Distortion sound with pedal-pitch effect. Combo AMP style sound simulation . Old UK-style sound. Cherus driven sound. Rockabilly sound. Clean sound with tremolo effect. Rich distortion sound. Crunch sound for Country blues style. Slow attack sound for lead play. Classic chorus with distortion sound. Box style cabinet clean sound . Detune chorus clean sound . Drive sound with vibrato effect. Standard jet sound. Robot voice sound with pick-noise play.

* ZNR(Zoom Noise Reduction) parameter in each patch should be adjusted for optimum matching the with your guitar.
 * In the factory default condition, the contents of the user patches and preset patches are the same.
 * RTM (Real Time Modulation) assigned for all-patches.

Creating Your Own Sound

This section gives some pointers on how to get optimum performance from the unit. Use these hints as starting points to explore the GFX-4 capabilities to the max.

Compact distortion 2-stage sound

This is a frequently used setting for playing a solo with the same sound character as the backing, but with more distinct, solid sound.

Normally, the first stage will provide OD distortion with moderate gain and high level, and the second stage will be used to create the main distortion.

Take care not to apply excessive distortion, because this setting places a considerable load on the circuits and can lead to oscillation.

[Sample Patches]

A02: ODROCK

Example for booster + overdrive combination

A11: HEAVY

Example for booster + high-gain distortion combination

Technique for obtaining detailed distortion using a compact effect and tube amp

This kind of setup is frequently used by professional guitarists to further increase the distortion from the guitar amplifier.

The GFX-4 makes it easy to duplicate this setup, because the unit also features famous guitar amplifier sounds. The technique can be applied also when not playing at loud levels, such as during MTR recording. The amp simulator will be useful in such cases.

[Sample Patches]

A01: GFXDRV

This uses light compression to extend sustain. Enhances playing through a stack amp.

A23: TEXAS

Setting example for the sound of a famous late blues guitarist from Texas. Adds punch to a combo amplifier.

How to make optimum use of effect connection sequence

The sonic impression created by an equalizer type

effect such as wah differs greatly, depending on whether it is inserted before or after the distortion in the signal path. When inserted before the distortion, it emphasizes the point on which distortion is applied. When inserted after the distortion, equalization acts upon the entire sound.

The GFX-4 provides 2 effects in the COMP/OD/ENV module and 4 effects in the MODULATION module for which the connection point can be switched.

[Sample Patches]

C01: BZ-TAK

Setting example for inserting wah as equalizer before distortion

C33: SATCH

Setting example for inserting phaser as equalizer before distortion

Using vintage effect sounds

The sound of many vintage effect devices still is very attractive also in the digital age. Mastering the use of such sounds will help you find your individual style. For best results, avoid excessive distortion and let the sound character of the selected device speak for itself.

[Sample Patches]

A12: FUSION

This is a vintage compressor and phaser sound.

A22: COOLWA

Setting example for a vintage pedal wah sound b02: NIRVRN

Setting example for obtaining modern sound with a vintage distortion effect

b21: FUZRVS

Setting example for a combination of vintage fuzz + vintage wah + reverse-rotation delay

Expression pedal secrets

The expression pedal of the GFX-4 incorporates a nifty feature called assignable switch (see page 19). The switch can be used to toggle between program mode and manual mode. This enhances your flexibility during a performance, because in manual mode, it is possible to turn separate compact effects on and off with the foot switches. For example, you can use the feature to turn a modulation effect on and off or control other the sound in other ways offered by manual mode.

[Sample Patch]

C23: JAZZOD

May be used also in manual mode only.

ZOOM GFX-4 31

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