

GUITAR EFFECTS PROCESSOR

Operation Manual

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Safety and Usage Precautions

USAGE AND 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-8.

Power requirements

- The GFX-8 is powered by the supplied AC adapter .
- To prevent malfunction and safety hazards, Do not use any other kind of AC adapter.
 - When using the GFX-8 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-8 in environments where it will be exposed to:

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

• Handling

Since the GFX-8 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



Never open the case of the GFX-8 or attempt to modify the product in any way since this can result in damage to the unit.

Connecting cables and input and output jacks



You should always turn off the power to the GFX-8 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-8.

Usage Precautions

• Electrical interference

For safety considerations, the GFX-8 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-8, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the GFX-8 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

• Cleaning

Use a soft, dry cloth to clean the GFX-8. 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.

Introduction

Thank you for selecting the **ZOOM GFX-8** (hereafter simply called the "**GFX-8**"). The GFX-8 is a sophisticated digital effect processor with the following features and functions:

Versatile array of effects

The Variable Architecture Modeling System (VAMS) adapts the internal configuration of the unit to achieve exactly the desired pattern. The GFX-8 provides 69 effects ranging from the sound of famous guitar amplifiers and other vintage devices to ultra-modern processing functions. Up to nine effects can be freely combined for simultaneous use. Modulation effects and delay/reverb effects allow up to two types of custom settings to be stored in memory. Any desired setting can be called up quickly and easily.

Sophisticated distortion technology

Using new technology developed by Zoom, the GFX-8 can faithfully duplicate the characteristics of famous guitar amplifiers and preamplifiers. The available choices range from conventional overdrive to exciting high-gain fuzz sound. In combination with the built-in amp simulator and cabinet simulator, this lets you create realistic distortion tailored to your music. Two types of custom distortion are also included, letting you build your own sound from scratch.

"Easy Edit" feature

During a stage performance, quick editing is possible using handy selectors and knobs on the top panel of the unit. You can switch effects, adjust the 4-band equalizer, control distortion gain, or fine-tune major parameters of the delay/reverb effects. Operation is quick and intuitive, just like using a compact effect device.

• MIDI capability

MIDI IN and OUT connectors are provided, allowing you to hook up a MIDI sequencer or keyboard for remote control, or to control a MIDI compatible guitar amplifier or other device from the GFX-8. Memory data can also be sent and received via the MIDI link.

• Supplied editing software

The GFX-8 is supplied with a CD-ROM containing software that lets you manage and edit patch libraries on a computer (Windows 95/98 or Macintosh). The software also provides access to a user custom area for detailed adjustments that are not possible on the main unit.

• Extensive patch library

A patch is a combination of effects and parameter settings stored in memory, with a name of up to 8 characters. The GFX-8 has room for 80 read/write patches (4 patches x 20 banks) that can be freely changed by the user, plus 160 preset patches (4 patches x 40 banks) that are read-only. In total, this gives access to as many as 240 patches.

Built-in sampler and jam play feature

The integrated phrase sampler has a recording time of up to 25 seconds. In addition, there is a jam play feature that lets you record a 12-second phrase and play it back in normal, reverse, or scratch mode. Changing the playback speed is possible without altering the pitch. This feature comes in handy when copying phrases. The AUX input lets you connect a stereo source such as a CD or MD player, to combine with your session or to directly record with the sampler.

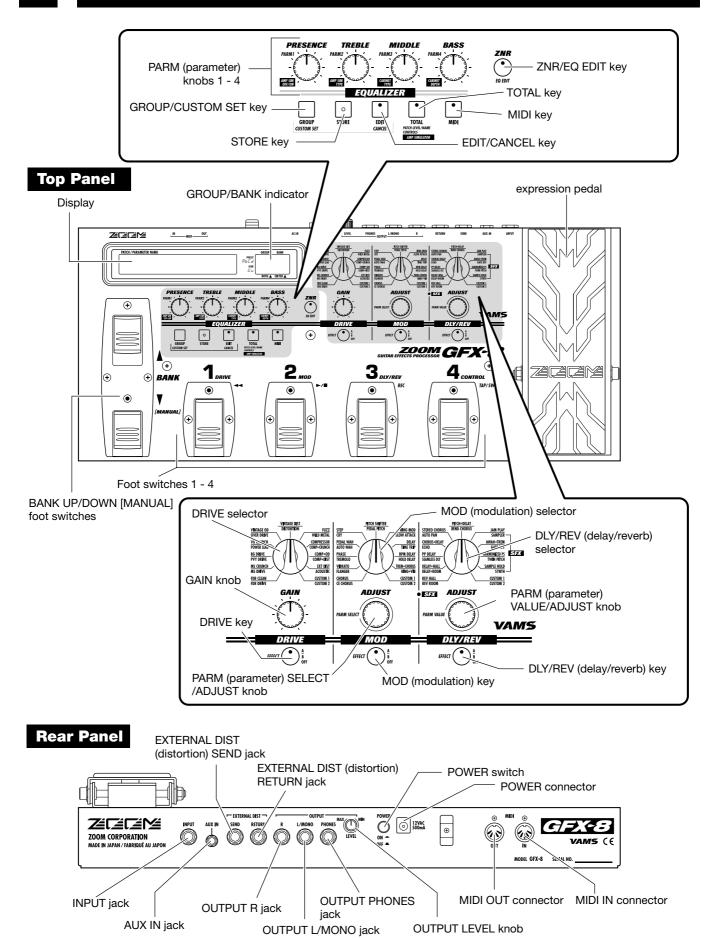
• Designed for use on stage

The tough metal chassis of the unit will withstand use in a demanding environment. The expression pedal and foot switches are designed to facilitate your work on stage. The easy-to-read 8-character display plus a 2-digit LED panel are great for checking patch names, numbers, and other settings at a glance. The output level can be set to +4 dB to match professional specifications.

Please take the time to read this manual carefully so as to get the most out of your GFX-8 and to ensure optimum performance and reliability. Retain this manual, the warranty card and all other documentation for future reference.

- * Windows 95 and Windows 98 are registered trademarks of Microsoft Corporation.
- * Macintosh is a registered trademark of Apple Computer Inc.

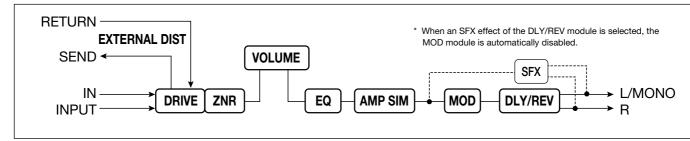
Naming of Parts



 * The MIDI OUT connector can also be switched internally to serve as MIDI THRU connector (see page 35). This section explains some important terms that are used throughout the GFX-8 documentation.

Effect module

An "effect module" in the GFX-8 works like a stand-alone compact effect device such as a distortion or delay. In the GFX-8, you can use the four effect modules DRIVE, EQUALIZER, MOD, and DLY/REV as well as the ZNR (Zoom Noise Reduction) + AMP SIM (Amp Simulator) simultaneously.



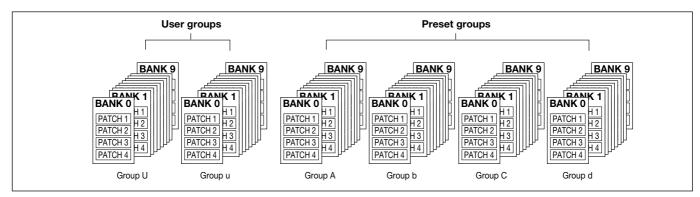
Signal flow in the GFX-8

Effects and parameters

An effect is a specific processing function in a module. The effect modules DRIVE, MOD, and DLY/REV each have 22 effects, from which one can be selected. The various settings of an effect that can be freely modified by the user are called parameters. The GFX-8 uses two kinds of parameters: effect parameters which are stored separately for each patch and global parameters which apply to all patches.

Patch/group/bank

Effect module combinations and effect parameter settings are stored in memory as "patches". The GFX-8 can store a total of 240 patches. These are divided into 80 read/write patches in the user groups (U and u) and 160 read-only patches in the preset groups (A, b, C, d). Each group has 10 banks numbered from 0 - 9, and each bank has 4 patches which can be selected with the foot switches 1 - 4 on the top panel of the unit.



Modes

The GFX-8 has five different operation modes, as listed below.

Play mode

In this mode, patches can be selected and played. This is the default mode of the GFX-8 that is always active when power is turned on.

Manual mode

In this mode, you play your instrument while manually switching modules on and off.

Edit mode

In this mode, the effect parameters of the currently selected patch can be edited (changed).

Jam play mode

In this mode, you can record a guitar phrase and play it back in normal, reverse, or scratch style.

Sampler mode

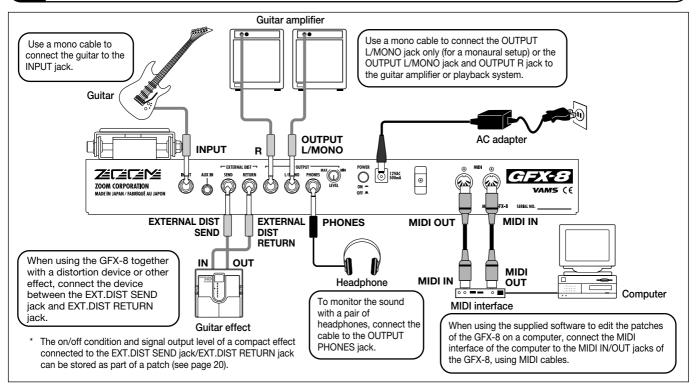
In this mode, you can use the sampler function to record and play back a phrase from guitar or a source such as a CD player.

RTM (real-time modulation)

This refers to changing effect parameters in real time. For example, you can use the expression pedal to change the mix ratio of the reverb sound, or adjust the delay time during a song using a MIDI sequencer.

The type and range of the parameter to be changed, as well as the controller type (expression pedal or MIDI control change information) can be stored separately for each patch.

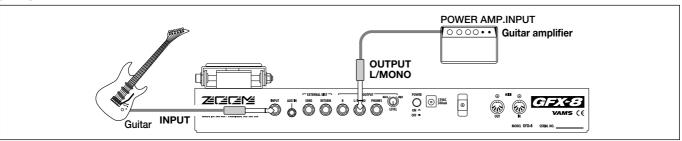
Connection Example (1) Instrument/amplifier connection



Connection Example (2) Connection to power amp input jack of guitar amplifier

If your guitar amplifier is equipped with a power amplifier input jack, you can directly connect the OUTPUT L/MONO jack of the GFX-8 to the power amp input jack, using the GFX-8 as a guitar preamplifier.

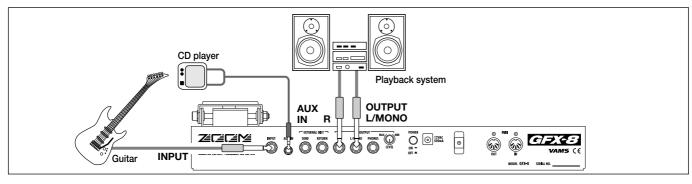
* When using the GFX-8 in this way, it is recommended to activate the built-in amp simulator (see page 7).



Connection Example (3) CD player/MD player connection

A component with stereo line level output such as a CD player or MD player can be connected to the AUX IN jack, using a stereo Y cable. The signal supplied to this jack is not processed by the effects of the GFX-8 and is sent directly to the OUTPUT jacks. This allows you for example to listen to a CD while practicing a guitar phrase.

- * Using the sampler function of the GFX-8, it is also possible to record the signal supplied to the AUX IN jack (see page 34).
- * When using hi-fi equipment (mixer, audio system or similar) instead of a guitar amplifier, activating the built-in amp simulator (see page 7) is recommended.



This section explains the steps you should take before playing sound through the GFX-8.

Power Up

1. Verify that the AC adapter, instrument, and amplifier/playback system are correctly connected to the GFX-8.

Before making any connections, be sure to turn power to all components off. Also, you should turn the volume on the amplifier or playback system to minimum, and set the

Setting up the Amp Simulator

The GFX-8 incorporates an amp simulator that can duplicate the electrical characteristics and cabinet sound of various guitar amplifiers. Before starting to use the GFX- 8, we recommend that you set up the amp simulator so that it matches the connection type of the playback system or guitar amplifier. This will assure that you get optimum results from the GFX-8.

1. Immediately after turning on the GFX-8, press the TOTAL key.

The GFX-8 switches to the edit mode which allows you to change various internal settings. The TOTAL key flashes red, and the display shows "PATCHLVL".



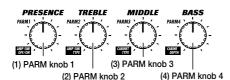
2. Press the TOTAL key twice, so that it flashes orange.

The display indication changes to "AMP SIM".



3. Use the PARM knobs 1 - 4 to select the amp simulator setting that matches the playback system.

While the TOTAL key is flashing orange, the PARM knobs 1 - 4 serve to set the amp simulator operation.



(1) PARM knob 1 AMP SIM

Switches amp simulator ON/OFF.

(2) PARM knob 2 AMP TYPE

Selects the amp simulator characteristics as follows (only if parameter 1 is set to "on".

Line connection

- •LC General combo type amplifier
- •Lb Bright combo type amplifier
- •LS Stack type amplifier

Power amplifier connection

- •AC Combo type amplifier
- •AS Stack type amplifier

(3) PARM knob 3 CABINET

o'clock position.

Selects the speaker cabinet simulator type.

•oF Cabinet simulator OFF

GFX-8 to a suitable position.

•C1 Combo amplifier cabinet with one 12" speaker

OUTPUT LEVEL knob on the rear panel of the GFX-8 to the 12

2. Turn the system on in the order GFX-8 \rightarrow amplifier.

control on the amplifier, the level control of the

instrument, and the OUTPUT LEVEL knob of the

3. While playing your instrument, adjust the volume

- •C2 Combo amplifier cabinet with two 12" speakers
- •ST Stack amplifier with four 10" speakers
- •WL Stack amplifier tower with four 10" speakers

(4) PARM knob 4 CABI DPT

Adjusts the depth of the cabinet simulator effect, in the range from 0 - 10.

Recommended settings for various connection methods and playback systems are as follows.

Connected to guitar amplifier input jack

PARM 1	PARM 2	PARM 3	PARM 4
oF			

Connected to power amplifier input jack of guitar amplifier

PARM 1	PARM 2	PARM 2 PARM 3	
	AC	_	
on	AS	oF	

Connected to hi-fi playback system such as mixer or audio system

PARM 1	PARM 2	PARM 3	PARM 4
	LC	C1	
on	Lb	C2	0 10
		ST	0 – 10
	LS	WT	

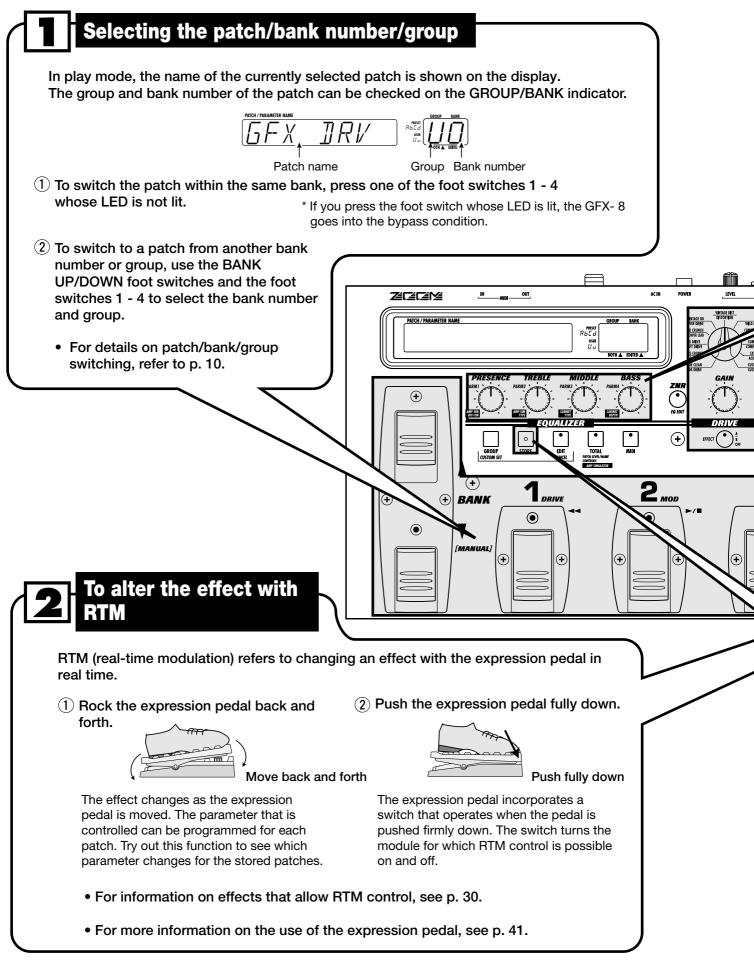
4. When the settings are complete, press the STORE key twice.

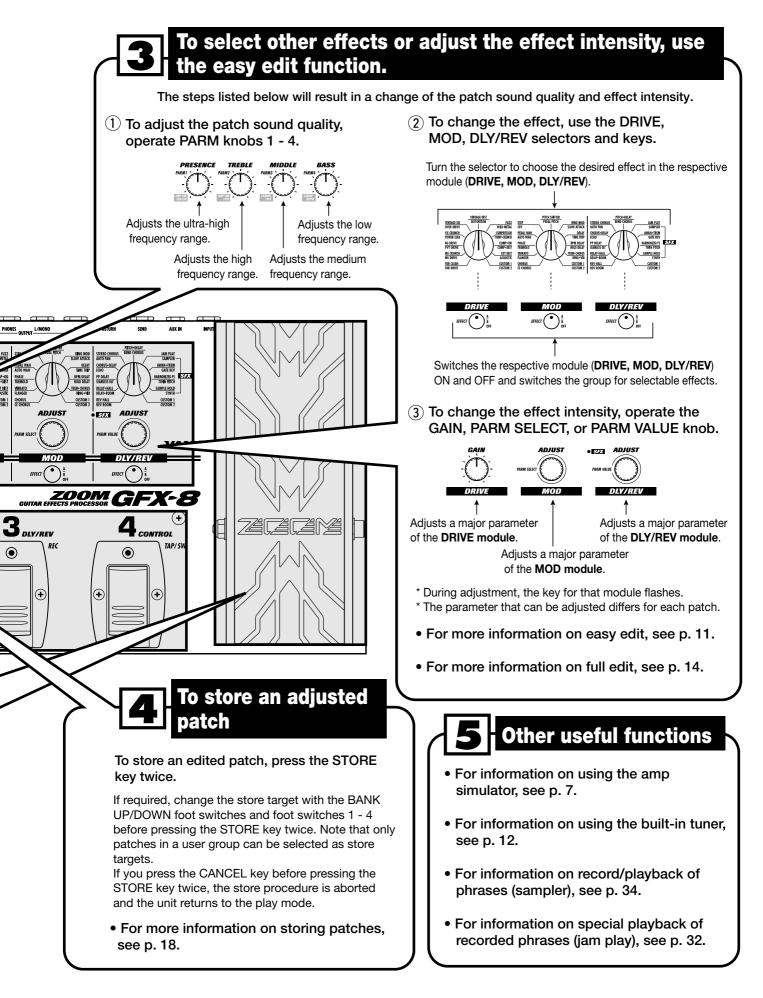


T`he new amp simulator setting is stored. This setting is retained also when power to the unit is turned off.

Quick Guide (Trying Out the Unit)

The Quick Guide explains the basic steps for using the GFX-8 in play mode. This lets you use the unit right away, to check out what it can do.



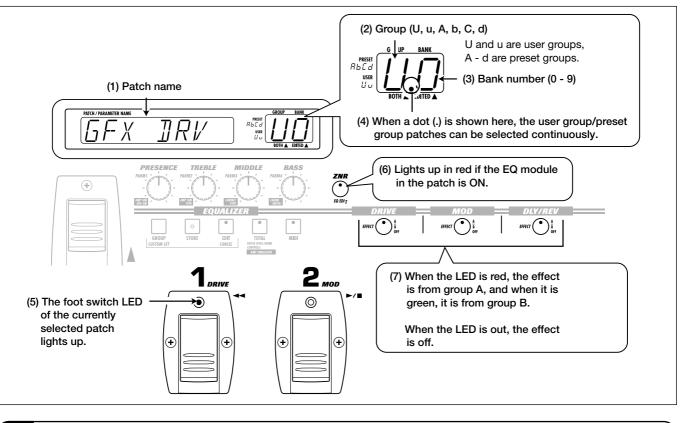


Listening to Patches (Play Mode Operation)

Selecting and playing patches stored in the memory of the GFX-8 is called "play mode". The GFX-8 is always in this mode immediately after being turned on. This section describes how to use the functions available in this mode.

Panel Indication in Play Mode

In play mode, the following information is shown on the panel.



Selecting a Patch

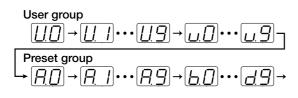
To switch patches in play mode, press a foot switch 1

 4 whose LED is not lit.

In play mode, foot switches 1 - 4 serve to select a patch from the same group/bank. The LED of the currently selected foot switch is lit.

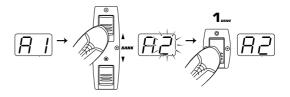
2 To select a patch from a different group/bank, press the BANK UP or DOWN foot switch to switch the group/patch, and then use the foot switches 1 - 4 to select the new patch.

For example, when the BANK UP foot switch is pressed repeatedly, the group/bank number changes as follows.



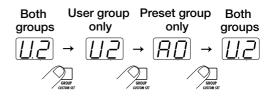
The patch is not switched as long as you only switch the bank/group (changed section of GROUP/BANK indicator

flashes). It is switched only after you press one of the foot switches 1 - 4 (the flashing of the GROUP/BANK indicator stops).





If desired, you can limit the action of the BANK UP/DOWN foot switches to select only user group banks, or only preset group banks. To do this, press the GROUP key. With each push of this key, the selectable groups are cycled as follows.

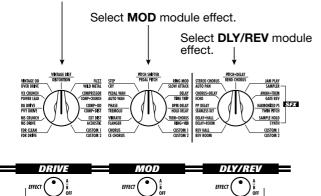


Using the Easy Edit Function

To edit patches of the GFX-8, the user normally will activate the edit mode, select the desired parameter, and change the setting. However, it is also possible to switch effects in modules and change major effect parameters in play mode. This is called the easy edit function.

1. To switch the effect used in the DRIVE, MOD, or DLY/REV module, operate the selector and key for the respective module.

Select **DRIVE** module effect.



Switches the respective module (DRIVE, MOD, DLY/REV) ON and OFF and switches the group for selectable effects. With each push of the key, the unit cycles through the following three states.

Key out or slowly flashing red Respective module is **OFF.**

Key lit/flashing red

Module is ON and effect from **group A** (upper labels) is selected.

Key lit/flashing green

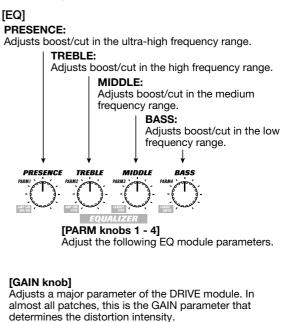
Module is ON and effect from **group B** (lower labels) is selected.

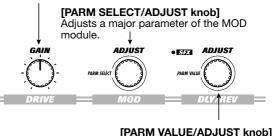
When the effect is switched, the name of the new effect is shown on the display for about 2 seconds. The EDITED mark (.) in the GROUP/BANK indicator lights up. This indicates that an effect parameter of this patch has been edited. The mark disappears when the setting is changed back to the original setting.





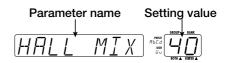
While only the effect group was switched, the previous effect is still active. The change does not occur until the selector for the respective module is operated. Therefore the selector position and the actual effect may differ during this interval. **2.** To adjust a major parameter of each module, operate the following knobs.





[PARM VALUE/ADJUST knob] Adjusts a major parameter of the DLY/REV module.

When one of the above knobs is moved, the display shows the parameter name and the GROUP/BANK indicator shows the parameter value for about 2 seconds.



Which parameter is assigned to the GAIN knob, PARM SELECT/ADJUST knob, and PARM VALUE/ADJUST knob depends on which effect is selected for that module (see page 19 - 29).



Trying to change effects or parameters which are set to OFF in the current module has no effect. In this case, the indication "OFF" is shown on the display.

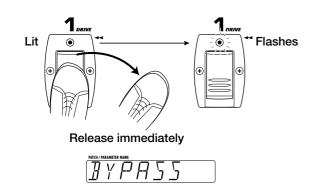
 All changes made with the easy edit function are temporary. Settings revert to the original condition when the patch is switched. When wishing to keep the changes, you must store the patch (see page 18).

Using the Bypass (Mute)/Tuner Function

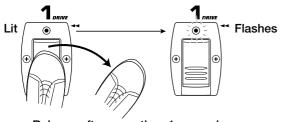
The GFX-8 incorporates an auto-chromatic tuner for guitars. To use the tuner function, the built-in effects must be bypassed (temporarily turned off) or muted (original sound and effect sound turned off).

 To set the GFX-8 to the bypass (mute) condition, press and immediately release the foot switch 1 - 4 that has selected the currently active patch (the foot switch whose LED is lit).

In play mode, when you quickly press the foot switch whose LED is lit, the GFX-8 switches to the bypass condition. The foot switch LED now flashes and the indication "BYPASS" is shown on the display.



If you press a foot switch with lit LED for longer than 1 second and then release it, the GFX-8 switches to the mute condition. The foot switch LED now flashes and the indication "MUTE" is shown on the display.



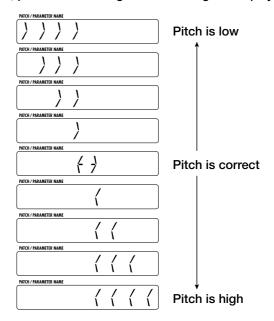
Release after more than 1 second

2. Play the open string you want to tune, and watch the GROUP/BANK indicator. The GFX-8 automatically detects the pitch and the GROUP/BANK indicator shows the note which is closest to the current pitch.

$$\begin{array}{cccc} \mathbf{A} = \begin{tabular}{c} \mathbf{A} = \begin{tabular}{c} \mathbf{C} = \begin{tabular}{c} \mathbf{D} =$$

NOTE

For tuning, always play a single note. If you play a chord, the pitch will not be detected correctly. **3.** When the GROUP/BANK indicator shows the desired note, perform fine tuning while watching the display.



- 4. Tune the other strings in the same way.
- **5.** When tuning is completed, press the foot switch whose LED is flashing once more.



The GFX-8 returns to the play mode.

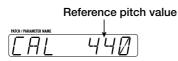


If desired, you can change the setting of the unit so that pressing the foot switch whose LED is lit will not activate the bypass/mute condition. For details, please refer to page 41.

Adjusting the Reference Pitch of the Tuner

After the GFX-8 is turned on, the tuner reference pitch is always "center A = 440 Hz". If desired, you can change the reference pitch. This is useful for example to match your instrument to another instrument or sound source whose pitch cannot be changed easily, such as an acoustic piano or a CD. To do this, first change the reference pitch of the GFX-8 and then use to to perform tuning of your guitar.

- In play mode, press the foot switch 1 4 whose LED is lit, to set the GFX-8 to the bypass/mute condition.
- **2.** Rotate the DLY/REV (PARM VALUE) knob to adjust the reference pitch. When this knob is operated, the current reference pitch is shown on the display. The initial setting is "440" (center A = 440 Hz).



The available setting range is "435" (center A = 435 Hz) - "445" (center A = 445 Hz) in 1-Hz steps.

3. When tuning is completed, once more press the foot switch whose LED is flashing.

The GFX-8 returns to the play mode.



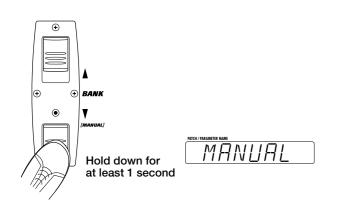
When the GFX-8 is turned off and on again, the reference pitch will be reset to "440".

Switching Modules On and Off During Play (Manual Mode)

The condition where foot switches 1 - 4 can be used to switch the modules in a patch ON and OFF individually and where specific parameters can be adjusted is called "manual mode". In manual mode, the modules in a patch can be used like independent compact effects.

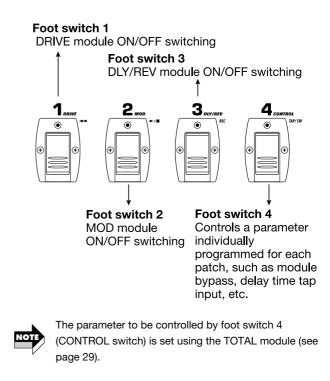
- 1. In play mode, select a patch.
- **2.** Press the BANK DOWN foot switch and hold it down for at least 1 second.

The GFX-8 switches to the manual mode. The display shows "MANUAL".



3. Operate foot switches 1 - 4.

In manual mode, foot switches 1 - 4 have the following functions.



4. To return to the play mode, press the BANK DOWN foot switch once more.

Changing the Sound of a Patch (Edit Mode)

The condition where you can change the parameters that make up a patch to create your own sound is called "edit mode". This section describes how to use edit mode.

Basic Edit Mode Steps

The basic steps that are normally taken in edit mode are explained here. Besides these, the edit mode also provides a short cut to quickly edit a specific parameter (see page 16).

1. In play mode, select the patch you want to edit.

The patch can be from a user group or preset group. However, because patches in the preset groups are read-only, after you have edited a patch, you can only select a user group patch as store target.

2. Press the EDIT key.

The EDIT key LED lights up, and the GFX-8 enters the edit mode.



In edit mode, the following information is shown on the panel.

Currently selected parameter value



Currently selected parameter name

The keys and foot switch LEDs of modules that are ON in the current patch are lit.

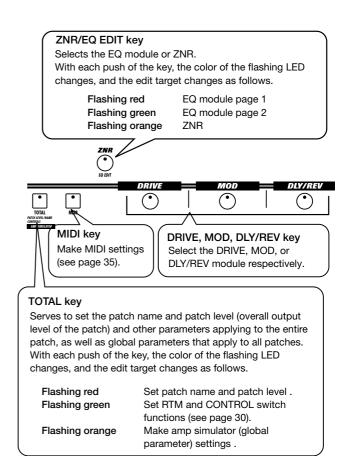
The key of the module selected for editing flashes.



When edit mode was activated immediately after switching patches, the TOTAL key flashes. When edit mode was activated after easy edit, the key of the edited module flashes.

3. Use the panel keys to select the module you want to edit.

In edit mode, the following keys serve to select the module for editing. The selected key flashes.





If a module is selected that is set to OFF in the current patch, editing is not possible (display shows "OFF"). However, ZNR settings can be made also when the EQ module is OFF.

4. Use the PARM SELECT knob to select the parameter you want to edit.



When you turn the PARM SELECT knob, the effects of the module selected in step 3 and the effect parameters are shown in turn on the display. (Which parameter is shown depends on the currently selected module and effect). The currently selected parameter setting can be checked using the GROUP/BANK indicator.

5. Use the PARM VALUE/ADJUST knob to change the parameter setting (or the effect).

To change the parameter shown on the display, use the PARM VALUE/ADJUST knob. When a change is made to any effect selection or parameter, the EDITED mark (.) appears on the GROUP/BANK indicator.

• ETZ ADJUST



6. To change the effect module ON/OFF setting, use the following foot switches or keys.

In edit mode, the following keys or foot switches can be used to change the module ON/OFF setting. The key of a module that has been set to OFF goes out, and the module cannot be edited any more. (However, the ZNR settings can be changed also if the EQ module is OFF.)

DRIVE module

DRIVE key (*1), Foot switch 1

- MOD module MOD key (*1), Foot switch 2
- DLY/REV DLY/REV key (*1), Foot switch 3
- EQ module.

ZNR/EQ EDIT key (*2)

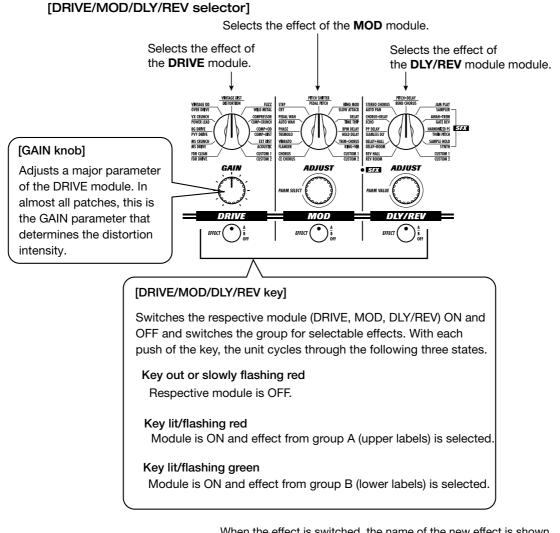
- (*1) Each push of the key: group A , group B, OFF
- (*2) Each push of the key: ZNR (orange) → EQ page 1 (red) → EQ page 2 (green). When EQ page 1 or 2 is selected, keeping the key depressed for 1 second switches EQ ON or OFF.

- **7.** When wishing to continue editing other parameters or modules, repeat steps 3 6.
- **8.** When editing is complete, press the EDIT/CANCEL key.

The GFX-8 returns to the play mode.



All changes made in edit mode are temporary. Settings revert to the original condition when the patch is switched. When wishing to keep the changes, you must store the patch (see page 18). In edit mode, the following knobs and keys can be used to directly edit the effect selection or parameter.



When the effect is switched, the name of the new effect is shown on the display for about 2 seconds.

Edit Mode Shortcut (2)

Using PARM knobs 1 - 4, the main parameters of each module can be quickly edited.

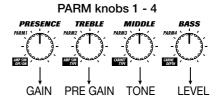
 Use the DRIVE, MOD, DLY/REV, ZNR/EQ EDIT, or TOTAL key to select the module you want to edit.

The selected key starts to flash.

2. Use the PARM knobs 1 - 4 to edit the parameter selected in step 1.

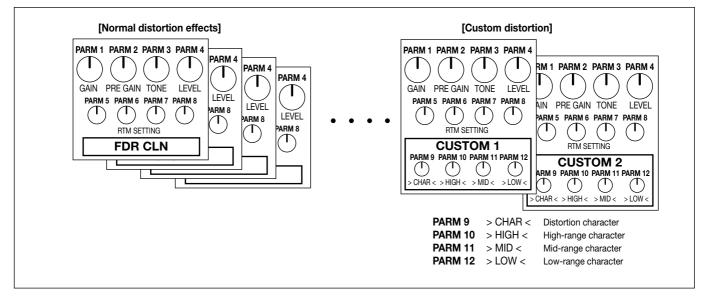
In edit mode, the main parameters (parameter 1 - 4) of the currently selected module are assigned to PARM knobs 1 - 4.

For example, when the effect OVER DRV of the DRIVE module is selected, the PARM knobs 1 - 4 control the following parameters.



Creating Custom Distortion

The effect numbers 11A and 11B of the DRIVE module are reserved for custom distortion effects created by the user. For custom distortion, in addition to the regular effect parameters (PARM1 - PARM8), there are four more parameters (PARM9 - PARM12) which allow control over the distortion character and other characteristics.



Once you have set these parameters and stored the result as a patch, you can use it as a new distortion effect in other patches.

- 1. Activate edit mode.
- 2. Select CUSTOM1 (11A) or CUSTOM2 (11B) of the DRIVE module.

Verify that the DRIVE module is ON.

3. Call up parameters 1 - 8 and make the desired settings.



To make optimum use of custom distortion parameters, we recommend to set parameters 1 - 4 as follows.

PARM1	GAIN	1 - 30 (as desired)
PARM2	PRE GAIN	7
PARM3	TONE	5
PARM4	LEVEL	25

4. Press the GROUP/CUSTOM SET key once.

This calls up parameter 9. The name of the parameter (">CHAR<") appears on the display, and the GROUP/BANK indicator shows the current value.

Parameter 9 can also be called up with the PARM SELECT knob. This is convenient to switch between any parameter from 1 - 12.

5. Use the PARM VALUE knob to adjust the value.

Parameters 9 - 12 are special parameters for custom distortion, allowing setting characteristics separately for each frequency band.

- **6.** Call up parameters 10 12 in the same way with the PARM SELECT knob, and use the PARM VALUE knob to adjust the value.
- **7.** When you have created a custom distortion effect, store the patch.



That parameters 9 - 12 are global parameters that affect all patches. For example, when parameters 9 - 12 of custom distortion 1 in a patch were adjusted, and the patch was stored, the changes will affect all patches using custom distortion 1 (effect type 11A).

Storing Custom Module Settings

The settings for the MOD module and DLY/REV module can be stored as custom settings. Stored custom settings can be called up at any time in edit mode, for use with new patches or existing patches.

The operation steps are different than for creating custom distortion in the DRIVE module.

- 1. Activate edit mode.
- 2. Press the MOD key or DLY/REV key to select the module for which you want to store custom settings.



Verify that the selected module is ON.

- **3.** Make the desired effect selection and parameter settings for the module selected in step 2.
- 4. Press the GROUP/CUSTOM SET key.



The effect name flashes on the display, and the indication "C1" flashes on the GROUP/BANK indicator.



When the respective module is OFF, custom module settings cannot be stored.

- **5.** Press the GROUP/CUSTOM SET key and select C1 (custom setting 1) or C2 (custom setting 2).
- **6.** To store the custom settings you have made, press the STORE key.



The stored custom settings can be selected at any time, simply by choosing 11A (custom setting 1) or 11B (custom setting 2) for the MOD module or DLY/REV module.

To cancel the store process, press the CANCEL key.

Storing and Copying Patches (Store Mode Operation)

Unless you store edited patches in memory, the settings will revert to the original condition when the patch is switched. Do not forget to store any edited patches that you wish to keep.

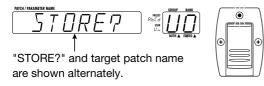
It is also possible to copy an existing patch and store it at another location. For example, copying all patches to be used in a specific song to one user group bank will make it easy to call up the patches with foot switches 1 - 4 during a performance.

1. In play mode or edit mode, press the STORE key.



The GFX-8 goes into store standby mode and the indication "STORE?" and the store target patch name are shown alternately on the display. The GROUP/BANK indicator shows the store target group/bank number. The LED of one of the foot switches 1 - 4 corresponding to the store target lights up.

If you wish to store the edited patch in another location than the currently shown store target, change the patch name before pressing the STORE key.



Use the BANK UP/DOWN foot switches and foot switches 1 - 4 to select the store (copy) target.

When the edited patch was from a user group, the original group/bank/foot switch will be selected as store target if no

Storing and Copyin

Changing the Sound of a Patch (Edit Mode)

other steps are taken. When the group/bank is changed, the changed part of the GROUP/BANK indicator flashes.

3. To execute the patch store (copy) process, press the STORE key once more.

The store (copy) process is carried out, and the unit automatically reverts to the play mode.

To cancel the operation, press the CANCEL key before pressing the STORE key the second time.

- The patches in the preset groups (A, b, C, d) are read-only and cannot be used as store targets. When the STORE key is pressed while a patch from a preset group is selected, the store target is automatically changed to "U0" and foot switch 1. If required, change the store target with the USER group/bank/foot switch.
- When the store (copy) process is executed, the previous contents of the store (copy) target are overwritten and cannot be restored. However, the factory default settings of any user group patch (or all patches) can be restored (see page 41).

Effects and Parameters

This section lists all the effects and parameters available in the modules of the GFX-8. Parameters which are common for several or all effects are explained only once.

DRIVE Module

This module comprises a wide variety of effects, including clean acoustic simulator, distortion, overdrive, and fuzz.

..... [GLOBAL] indicates [CONTROL SW] indicates an (i) Parameter 5 RTM MAX 0 - 99, 1.0 a global parameter item that can be operated with Using the maximum value of the parameter adjusted by RTM as that applies to all the CONTROL switch (see page reference (100%), this parameter adjusts the RTM maximum patches. 31). value in the range from 0% (0) - 100% (1.0). · Parameter 1 of the DRIVE module can be adjusted with the Parameter 6 RTM MIN 0 - 99, 1.0 GAIN knob also when another module is selected. Using the maximum value of the parameter adjusted by RTM as reference (100%), this parameter adjusts the RTM minimum value in the range from 0% (0) - 100% (1.0). * TYPE 1A - 7B have the same parameters. Parameter 7 RTM DES 1 - 4 TYPE 1A FDR CLN Selects the parameter to be adjusted by RTM. Parameter 1 - 4 can Clean sound of built-in type tube amp. be selected. TYPE 1B FDR DRV Parameter 8 RTM CTL oF, Pd, 1 - 5, 8 - 31 Drive sound of built-in type tube amp. Selects the controller to use for RTM. Available settings are "oF" (off), "Pd" (expression pedal), MIDI control change 1 - 5, 8 - 31. TYPE 2A MS CRU Crunch sound of British style tube stack amp. When the DRIVE module is ON, the switch functions as a boost switch that further raises the level of the DRIVE TYPE 2B MS DRV module. With each push of the CONTROL switch (foot Drive sound of British style tube stack amp. switch 4), the setting is toggled between normal (LED out) TYPE 3A BG DRV and boost (LED lit). Drive sound of tube stack amp with fat midrange. TYPE 8A COMP TYPE 3B PVY DRV This is a combination of compressor and clean sound. Drive sound of high-gain tube stack amp, ideal for heavy metal. GAIN knob COMP SNS] oF, - 10 TYPE 4A VX CRU Old-style crunch sound. 0 - 10 Parameter 1 TONE TYPE 4B PWR LEAD Parameter 2 COMP SNS oF. 1 - 10 Lead guitar sound with good power balance. Adjusts the compressor effect depth. When set to "oF", the effect TYPE 5A V-OD does not operate. Dry overdrive sound. 1 - 10 Parameter 3 ATTACK Adjusts the rise time of the effect. TYPE 5B OVER DRV Cabinet ringing style overdrive sound. Parameter 4 – Parameter 8 See TYPE 1A (FDR CLN). TYPE 6A V-DIST Distortion sound with dry character. See TYPE 1A (FDR CLN). TYPE 6B DIST Strong distortion sound. * TYPE 8B - 9B have the same parameters. TYPE 7A FUZZ TYPE 8B CMP+CRU Boomy fuzz tone. This is a combination of compressor and crunch. TYPE 7B WD METAL TYPE 9A CMP+OD High-gain aggressive sound. This is a combination of compressor overdrive. GAIN knob GAIN 1 - 30 TYPE 9B CMP+DIST This is a combination of compressor and distortion. Parameter 1 GAIN 1 - 30 Adjusts the final gain. GAIN knob GAIN 1 - 30 Parameter 2 PRE GAIN 1 - 10 1 - 30 Parameter 1 GAIN Adjusts the basic distortion amount. Adjusts the effect intensity. Parameter 3 TONE 0 - 10 oF, 1 - 10 Parameter 2 COMP SNS Adjusts the tone. Adjusts the compressor effect depth. When set to "oF", the effect does not operate. Parameter 4 LEVEL 1 - 30

Adjusts the level of the signal after passing the DRIVE module.

Parameter 3 ATTACK 1 - 10		Parameter 3	ATTACK]1 - 10
---------------------------	--	-------------	--------	---------

Adjusts the rise time of the effect.

Parameter 4 – Parameter 8 See TYPE 1A (FDR CLN).

See TYPE 1A (FDR CLN).

TYPE 10A EXT DIST

Instead of the internal DRIVE module, a distortion effect connected to the rear-panel EXT.DIST SEND/RETURN jacks is used.

GAIN knob SEND LVL 1 - 10

Parameter 1 SEND LVL 1 - 10

Adjusts the signal level supplied at the EXT.DIST SEND jack.

Parameter 2 COMP SNS OF, 1 - 10

Adjusts the compressor effect depth. When set to "oF", the effect does not operate.

Parameter 3 ATTACK 1 - 10

Adjusts the rise time of the effect.

Parameter 4 – Parameter 8

See TYPE 1A (FDR CLN).

See TYPE 1A (FDR CLN).

10B ACOUSTIC TYPE

Changes the sound of an electric guitar into an acoustic guitar sound.

GAIN knob TOP 1 - 10

Parameter 1 TOP 1 - 10

Adjusts the special string character of the acoustic guitar.

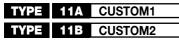
Parameter 2 BODY 1 - 10

Adjusts the body character of the guitar.

Parameter 3 TONE 0 - 10 Adjusts the overall sound quality.

Parameter 4 – Parameter 8 See TYPE 1A (FDR CLN).

See TYPE 1A (FDR CLN).



These effects let you design your very own distortion circuit to achieve any desired sound.

GAIN knob GAIN 1 - 30

Parameter 1 GAIN 1 - 30

Adjusts the overall gain.

Parameter 2 PRE GAIN 1 - 10 Adjusts the basic distortion.

Parameter 3	TONE	0 - 10
Adjusts the tone.		

Parameter 4 – Parameter 8 See TYPE 1A (FDR CLN).

Note that parameters 9 - 12 below are global parameters that apply to all patches. (For details, see page 17.) The custom distortion effects can be customized in further detail using the supplied software.

Parameter 9 > CHAR < Θ

Selects the distortion character in the high-frequency range.

- c1, c2: Clean type distortion
- o1, o2: Overdrive type distortion
- d1, d2: Regular distortion
- A1, A2: Amp distortion
- S1, S2: Sound set with editing software on computer

Parameter 10 > HIGH < 70

Selects the distortion character in the low- frequency range.

- L1 L4: Low-pass
- Ft: Flat
- P1 P4: Peaking
- S1, S2: Sound set with editing software on computer

Parameter 11 > MID < Θ

Selects the distortion character in the mid- frequency range.

- L1 L3: Low-range emphasis
- M1 M3: Mid-range emphasis
- H1 H3: High-range emphasis
- S1, S2: Sound set with editing software on computer

Parameter 12 > LOW < 70

Selects the distortion character in the low-frequency range.

H1 - H2: High-pass Ft: Flat P1 - P4: Peaking b1, b2: Boost S1, S2: Sound set with editing software on computer See TYPE 1A (FDR CLN).

ZNR/EQ (Zoom Noise Reduction/Equalizer) Module

This module contains the ZNR (Zoom Noise Reduction) function that reduces noise during pauses, and an equalizer for adjusting the spectral balance of the sound.

E0

(CONTROL SW) indicates with the CONTROL switch	an item that can be operated (see page 31).		
 In edit mode, the color of the flashing ZNR/EQ EDIT LED changes with each push of the key, and the editing target is switched as follows. 			
Flashing orangeFlashing redFlashing green	ZNR EQ module page 1 EQ module page 2		

ZNR	(Zoom Noise	Reduction)	
This circuit achieve affecting the charac		on during play pauses without.	ut
Parameter	1 ZNR	oF, 1 - 15	
noise reducti	ion without caus	Select the setting that yield sing the sound to become un action is defeated.	

P1 (Equalizer Page 1)

This is page 1 of the four-band equalizer that serves to tailor the sound. There is only one equalizer effect, but because it has many parameters, the settings are divided into two pages (EQ P1/EQ P2) for operation

unnatural.

with the ZNR/EQ EDIT key. (If the PARM SELECT knob is used,
parameters 1 - 12 can be called up continuously.)

Parameter 1	PRESENCE	-12 - 12

Adjusts boost/cut in the ultra-high range (above 8 kHz).

Parameter 2 TREBLE -12 - 12

Adjusts boost/cut in the high range.

Parameter 3 MIDDLE -12 - 12 Adjusts boost/cut in the midrange.

Parameter 4 BASS -12 - 12 Adjusts boost/cut in the low range.

EQ P2 (Equalizer Page 2)

This is page 2 of the four-band equalizer.

Parameter 1 EQ LEVEL 1 - 30

Adjusts the level of the signal after passing the EQ module. A setting of 25 gives unity level (input level = output level).

Parameter 2 TRBL FRQ 63 - 6.3 (see table)

Adjusts the center frequency in the high range (630 Hz - 6.3 kHz).

Parameter 3 MID FRQ 16 - 1.6 (see table)

Adjusts the center frequency in the midrange (160 Hz - 1.6 kHz).

Parameter 4 BASS FRQ 06 - 63 (see table)

Adjusts the center frequency in the low range (60 Hz - 630 Hz).

MOD (Modulation) Module

EQ module setting values and frequencies

TREBLE FRQ	Display	MID FRQ	Display	BASS FRQ	Display
630Hz	63	160Hz	16	60Hz	06
800Hz	80	200Hz	20	80Hz	08
1.2kHz	1.2	315Hz	31	125Hz	12
1.6kHz	1.6	400Hz	40	160Hz	16
2.5kHz	2.5	630Hz	63	200Hz	20
3.2kHz	3.2	800Hz	80	315Hz	31
5.1kHz	5.1	1.2kHz	1.2	400Hz	40
6.3kHz	6.3	1.6kHz	1.6	630Hz	63

Parameter 5 RTM MAX 0 - 99, 1.0

Using the maximum value of the parameter adjusted by RTM as reference (100%), this parameter adjusts the RTM maximum value in the range from 0% (0) - 100% (1.0).

Parameter 6 RTM MIN 0 - 99, 1.0

Using the maximum value of the parameter adjusted by RTM as reference (100%), this parameter adjusts the RTM minimum value in the range from 0% (0) - 100% (1.0).

Parameter 7 RTM DES 1 - 8

Selects the parameter to be adjusted by RTM. Parameter 1 - 8 can be selected.

Parameter 8 RTM CTL 0F, Pd, 1 - 5, 8 - 31

Selects the controller to use for RTM. Available settings are "oF" (off), "Pd" (expression pedal), MIDI control change 1 - 5, 8 - 31.

When the effect is ON, the output is muted while the CONTROL switch is pressed (during muting, the LED lights up).

This module contains spatial effects such as chorus and flanger, unique sounding effects such as auto-wah, and modulation effects such as ring modulator.

lndicates a para	-	neter that can	Parameter 2	RATE	1 - 50		
that can be cont RTM (see page 3	rolled by be controlled wit 80). SELECT knob du (see page 11).	h the PARM	Parameter 3	PRE DLY	0 - 50	4	•
Indicates a para	meter for 👔 [CONTROL SW	indicates an	Parameter 4	CHO MIX	0 - 50	∠ (り
		operated with	Parameter 5	RTM MAX	0 - 99, 1.0		
with the CONTR (see page 31).	DL switch the CONTROL si page 31).	the CONTROL switch (see page 31).	reference (100%	num value of the b), this parameter ge from 0% (0) -	adjusts the RT		as
Commo	n Parameters of MOD Modu	lle	Parameter 6	-	0 - 99. 1.0		
DEPTH	Adjusts the effect depth.				, .	ustad by DTM	
RATE	Adjusts the modulation rate.			Using the maximum value of the parameter adjusted by RTM as reference (100%), this parameter adjusts the RTM minimum			as
PRE DLY	Adjusts the predelay time.			ge from 0% (0) -	5		
xx MIX	Adjusts the effect mix ratio.		Parameter 7	BTM DES	1 - 4		
BALANCE	Adjusts the balance between ef and original sound. Higher valu more pronounced effect sound.	es result in	-	meter to be adjus	ted by RTM. P	arameter 1 - 4	can
FEEDBACK	Adjusts the amount of feedback	κ.	Parameter 8	RTM CTL	oF, Pd, 1 - 5,	8 - 31	
SHIFT	Adjusts the effect operation dir means downward change, and change.			coller to use for F ression pedal), M			
SENS	Adjusts the picking detection so wah and the trigger sensitivity.	2		HO MIX parame CHO MIX param			that
POSITION	Selects the MOD module connu- bF: Before DRIVE module AF module	1	1	E CHO characterized by	warm sound.		
YPE 1A C	HORUS		Parameter 1	DEPTH	0 - 50	4	
is is a chorus effect	with clear sound.		Parameter 2	RATE	1 - 50	4	
Parameter 1	DEPTH 0 - 50	4	Parameter 3		0 - 50	4	
			Adjusts the sour	nd quality.	ZOOM	GFX-8	21

Parameter 4 CE MIX 0 - 50 🖌 🖌 🕐	Parameter 3 CLIP 0 - 10
Parameter 5 – Parameter 8	Adjusts the modulation signal waveform. Higher values result in
See TYPE 1A (CHORUS).	stronger clipping of waveform tops. Parameter 4 RISETIME oF, 1 - 50
LED lit: CE MIX parameter is at maximum.	Parameter 4 RISETIME oF, 1 - 50 Adjusts the delay between the input signal and the start of the
LED lit: CE MIX parameter is at maximum. LED out: CE MIX parameter is at the value stored for that	effect. When the setting is "oF", the effect is always operating.
patch.	Parameter 5 – Parameter 8
TYPE 2A VIBRATO	See TYPE 1A (CHORUS).
This is a vibrato effect that periodically varies the pitch.	LED lit: TRM RATE parameter is at maximum.
Parameter 1 DEPTH 0 - 50	LED out: TRM RATE parameter is at the value stored for
Parameter 2 VIB RATE 1 - 50 🖌 🖌 🗲 🕛	that patch.
Parameter 3 BALANCE 0 - 50	TYPE4APDL WAH(Pedal Wah)This effect allows use of the expression pedal to manually adjust wah.
Parameter 4 RISETIME oF, 1 - 50 Adjusts the delay between the input signal and the start of the	Parameter 1 PWA FREQ 1 - 50 Image: Comparison of the state
effect. When the setting is "oF", the effect is always operating.	
Parameter 5 – Parameter 8	Parameter 2 DRY LVL 0 - 50 Sets the level of the original sound.
See TYPE 1A (CHORUS).	
LED lit: VIB RATE parameter is at maximum.	Parameter 3 WET LVL 0 - 50 Sets the effect sound level.
LED out: VIB RATE parameter is at the value stored for	
that patch.	Parameter 4 POSITION bF, AF
TYPE 2B FLANGER	Parameter 5 – Parameter 8
This effect produces a peculiar, undulating sound.	See TYPE 1A (CHORUS).
Parameter 1 DEPTH 0 - 50	If the effect is ON and the CONTROL switch is operated, the wah effect will be bypassed while the switch is being
Parameter 2 FLG RATE 1 - 50 🖌 🖌 🕚	pushed.
Parameter 3 PRE DLY 0 - 50	TYPE 4B AUTO WAH
Parameter 4 FEEDBACK -15 - 0 - 15	Operation of this effect varies according to the picking intensity.
Adjusts the effect intensity.	Parameter 1 RESO 1 - 50
Parameter 5 – Parameter 8	Adjusts the resonance.
See TYPE 1A (CHORUS).	Parameter 2 SHIFT dn, UP
LED lit: FLG RATE parameter is at maximum.	Sets the wah effect direction.
LED out. FLO KATE parameter is at the value stored for	Parameter 3 AWA SENS 1 - 50 🖌 🖌 🕐
that patch.	Sets the effect sensitivity
TYPE3APHASEThis effect produces a swooshing sound.	Parameter 4 POSITION bF, AF
Parameter 1 RESO 1 - 50 Adjusts the resonance.	Parameter 5 Parameter 8 See TYPE 1A (CHORUS).
Parameter 2 PHA RATE 1 - 50 🖌 🖌 🕚	
	If the effect is ON and the CONTROL switch is operated, the wah effect will be bypassed while the switch is pushed.
Parameter 3 CHAR 1 - 4	
Selects the characteristics of the phase sound.	TYPE 5A STEP
Parameter 4 POSITION bF, AF	This is a special effect with step-like filter characteristics.
Parameter 5 – Parameter 8	Parameter 1 DEPTH 0 - 50
See TYPE 1A (CHORUS).	Parameter 2 STP RATE 1 - 50 🖌 🗲 🕚
LED lit: PHA RATE parameter is at maximum. LED out: PHA RATE parameter is at the value stored for	Parameter 3 FEEDBACK 0 - 50
that patch.	Parameter 5 – Parameter 8
TYPE 3B TREMOLO	See TYPE 1A (CHORUS).
This effect periodically varies the level of the sound.	
Parameter 1 DEPTH 0 - 50	LED lit: STP RATE parameter is at maximum. LED out: STP RATE parameter is at the value stored for
	that patch.
Parameter 2 TRM RATE 1 - 50 🖌 🖌 🗍	

TYPE 5B CRY

This effect varies the sound like a talking modulator.

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Parameter 5 – Parameter 8 See TYPE 1A (CHORUS).

If the effect is ON and the CONTROL switch is operated, the cry effect will be bypassed while the switch is pushed.

TYPE 6A PITCH

This is a pitch shifter with a range of 1 octave down and 2 octaves up.

Parameter 1	PITCH] -12 - 0 - 12, 24	≤ ()
Adjusts the pitch	shift amount in se	emitones.	
Parameter 2	FINE] -10 - 10	
Performs fine ad	justment of pitch s	hift amount.	
Parameter 3	TONE	0 - 50	
Adjusts the tone	of the effect.		
Parameter 4	BALANCE	0 - 50	4
Adjusts the balance between effect sound and original sound.			
		_	

Parameter 5 – Parameter 8 See TYPE 1A (CHORUS).

If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE 6B PDL PIT (Pedal Pitch)

Parameter 1 TYPE

This effect allows manually changing the pitch, using the expression pedal.

1 - 16

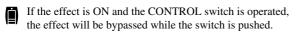
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Selects the pedal pitch type (see table below). Depending on the type, the pitch action is different when the pedal is raised and lowered.

	E	Pedal minimum value	Pedal maximum value 🚞
P-PIT	1	-100 cent	Original sound only
TYPE	2	Original sound only	-100 cent
	3	DOUBLING	Detune + DRY
	4	Detune + DRY	DOUBLING
	5	0 cent	+1 octave
	6	+1 octave	0 cent
	7	0 cent	-2 octaves
	8	 2 octaves 	0 cent
	9	-1 octave + DRY	+1 octave + DRY
	10	+1 octave + DRY	-1 octave + DRY
	11	-700 cent + DRY	500 cent + DRY
	12	500 cent + DRY	-700 cent + DRY
	13	-∞ (0 Hz) + DRY	+1 octave
	14	+1 octave	$-\infty$ (0 Hz) + DRY
	15	-∞ (0 Hz) + DRY	+1 octave + DRY
	16	+1 octave + DRY	-∞ (0 Hz) + DRY

Parameter 5 – Parameter 8

See TYPE 1A (CHORUS).



TYPE 7A RING MOD (Ring Modulator)
This effect produces a metallic sound.
Parameter 1 DEPTH 0 - 50
Parameter 2 RNG FREQ 1 - 50 🖌 🕑
Adjusts the frequency of the ring modulator effect.
Parameter 3 BALANCE 0 - 50
Parameter 4 POSITION bF, AF
Parameter 5 Parameter 8 See TYPE 1A (CHORUS).
If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.
TYPE 7B SLOW ATK (Slow Attack)
This effect automatically produces a "violin type sound" where each note is individually enhanced.
Parameter 1 SLW TIME 1 - 50 Image: Comparison of the effect. Adjusts the rise time of the effect. Image: Comparison of the effect. Image: Comparison of the effect.
Parameter 2 CURVE 1-4
Adjusts the rise curve.
Parameter 3 POSITION bF, AF
Parameter 5 — Parameter 8 See TYPE 1A (CHORUS).
If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.
TYPE 8A DELAY
This is a delay effect with a delay time of 1 millisecond to 6 seconds.
Parameter 1 TIMEx100 0 - 60
Sets delay time in 100-ms units.

Parameter 2 TIMEx1

Sets delay time in 1-ms units.

Parameter 3 FEEDBACK

Parameter 5 – Parameter 8

CONTROL switch is operated.

Parameter 4 DLY MIX

See TYPE 1A (CHORUS).

TYPE 8B TIMETRIP

Parameter 1 SENS

Parameter 2 SHIFT

Parameter 3 FEEDBACK

Parameter 4 TRIP BAL

Parameter 5 – Parameter 8

on picking intensity.

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4 4

4

0 ک

0 - 99

0 - 50

0 - 50

1 - 50

dn, UP

-10 - 10

0 - 50

Sets the delay time according to the interval in which the

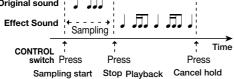
This is an innovative delay effect which varies the delay time depending

See TYPE 1A (CHORUS). If the effect is ON and the CONTROL switch is operated,

the effect will be bypassed while the switch is pushed.

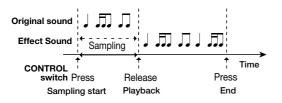
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TYPE 9A BPM DLY
This delay effect allows setting the delay time in BPM units.
Parameter 1 BPM 40 - 250
Adjusts the BPM value (number of quarter note beats per minute, a unit for tempo). When the PARM 1 knob is moved, the value changes in steps of 5. For fine adjustment, use the PARM VALUE knob.
Parameter 2 INTERVAL t1 - t9
Adjusts the note that determines the delay sound timing, using the BPM tempo setting as reference.
t1 = Two full notes $t2 =$ dotted quarter note $t3 =$ quarter note $t4 =$ dotted eighth note $t5 =$ half triplet note $t6 =$ eighth note $t7 =$ dotted sixteenth note $t8 =$ quarter triplet note $t9 =$ sixteenth note
Parameter 3 FEEDBACK 0 - 50
Parameter 4 BPM MIX 0 - 50
Parameter 5 – Parameter 8
See TYPE 1A (CHORUS).
 Sets the delay time according to the interval in which the CONTROL switch is operated. TYPE 9B HOLD DLY This is a hold delay effect which can sample and playback a phrase of the tagenda in length.
ip to 6 seconds in length. Parameter 1 TIMEx100 0 - 60
Parameter 1 TIMEx100 0 - 60 Sets delay time in 100-ms units .
-
Parameter 2 TIMEx1 0 - 99
Sets delay time in 1-ms units.
Parameter 3 MODE tr, Gt, So
Selects the hold mode.
• tr (TRIGGER) Sampling starts when the CONTROL switch is pressed. When the CONTROL switch is pressed once more, sampling stops and playback starts. If the CONTROL switch is not pressed twice, sampling automatically stops after the delay time has elapsed. Pressing the CONTROL switch once more stops playback.
Original sound



• Gt (GATE)

Sampling is carried out while the CONTROL switch is being pressed. If the CONTROL switch is not released, sampling automatically stops after the delay time set with parameter 1 + 2 has elapsed, and playback starts. Pressing the CONTROL switch once more stops playback.



So (SOUND ON SOUND)

In this mode, the sampled sound is played back over the current sound. While the CONTROL switch is kept depressed, guitar play sound is added to the playback sound. The delay time set with parameter 1 + 2 determines the duration of the repeat interval.

* The sampled data are retained until the module is set to OFF or the unit is set to the bypass condition.

Parameter 4 HOLD MIX 0 - 50	🚄 🛈
Parameter 5 – Parameter 8	
See TYPE 1A (CHORUS).	



TY This Serves to start and stop the sampling process and to start playback.

TYPE	10A	TRM+CHC)
This is a c	ombinatio	on of tremolo	and chorus

is a combination of tremolo and chorus.	
Parameter 1 TRM DPT 0 - 50 Adjusts the tremolo effect depth.	4
Parameter 2 TRM RATE 1 - 50	
Adjusts the tremolo effect modulation rate.	
Parameter 3 CHO RATE 1 - 50	
Adjusts the chorus effect modulation rate.	
Parameter 4 CHO MIX 0 - 50	0 놀
Adjusts the chorus sound mix ratio.	
Parameter 5 – Parameter 8 See TYPE 1A (CHORUS).	
Switches the tremolo on and off.	
(PE 10B RING+VIB	
is a combination of ring modulator and vibrato.	
Parameter 1 VIB DPT 0 - 50	4
Adjusts the vibrato depth.	
Parameter 2 VIB RATE 1 - 50	
Adjusts the vibrato rate.	
Parameter 3 RING SPD 1 - 50	4
Adjusts the modulation frequency of the ring modu	lator effect.
Parameter 4 RING BAL 0 - 50	🚄 🛈

 Parameter 4
 RING BAL
 0 - 50

 Adjusts the ring modulator balance.

 Parameter 5
 – Parameter 8



See TYPE 1A (CHORUS).

Switches the vibrato on and off.

TYPE 11A CUSTOM1

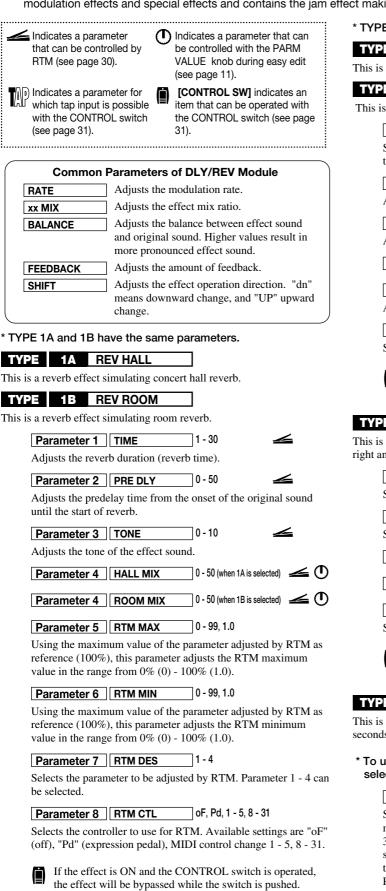
TYPE 11B CUSTOM2

Call up the previously stored custom settings 1/2 for the MOD module. (For information on creating and storing custom settings, see page 18.)

The currently stored parameters can be edited. To retain any changes, store the patch.

DLY/REV (Delay/Reverb) module

This module contains mainly single reverb type effects such as delay and reverb, but it also covers combinations with modulation effects and special effects and contains the jam effect making use of sampling technology.



TYPE 2A and 2B have the	same parameters.
-------------------------	------------------

	•		
YPE 2A DLY	+HALL		
s is a combination of d	elay and hall rev	verb.	
YPE 2B DLY	+ROOM		
is is a combination of d	lelay and room	reverb.	
Parameter 1 D	LY TIME	1 - 99, 1.0	₽ 🚄
Sets the delay time time).	in 10-ms units (10 ms x setting va	alue = delay
Parameter 2 D	LY FB	0 - 50	6
Adjusts the amount	of delay feedba	ck.	
Parameter 3 D	LY MIX	0 - 50	<u>/</u>
Adjusts the delay so	ound mix ratio.		
Parameter 4 H	ALL MIX	0 - 50 (when 2A is select	ied) 🚄 🛈
Parameter 4		0 - 50 (when 2B is select	(her
Adjusts the reverb s		• • • (, — •
Parameter 5 –	Parameter 8	7	
See TYPE 1A (RE)			
, ,	time according t vitch is operated	to the interval in v	which the
YPE 3A PP D	DLY		
s is a ping-pong type dent and left. The delay time			
Parameter 1 T	IMEx100	0 - 60	₩ 🚄
Sets delay time in 1	00-ms units.		
Parameter 2	IMEx1	0 - 99	₽ 🚄
Sets delay time in 1	-ms units.		
Parameter 3 F	EEDBACK	0 - 50	4
Parameter 4 P	PD MIX	0 - 50	≤0
Parameter 5 – See TYPE 1A (RE)			

Sets the delay time according to the interval in which the CONTROL switch is operated.

TYPE 3B SEAMLESS

This is an effect where the delay sound continues to be heard for up to 3 seconds after the patch is switched.

* To use the seamless effect, the seamless delay must be selected at the newly called up patch.

Parameter 1 TIME 1 - 99, 1.0 - 3.0	
Sets the delay time. In the range from 1 - 99, the formula is 10	
ms x setting value = delay time. In the range from $1.0 - 6.0$ (for	
3B SEAMLESS, the maximum is 3.0), the formula is 1000 ms y	ĸ
setting value = delay time. When the PARM 1 knob is moved,	
the value changes in steps of 5. For fine adjustment, use the	
PARM VALUE knob.	

Parameter 2 SEAMTIME 1 - 99, 1.0, Hd

Adjusts the duration for which the delay sound is heard after the patch was switched (100 ms x setting value = remain duration). The setting "Hd" means that the delay sound remains for the time set for that patch.

•0D

Parameter 3 FEEDBACK 0 - 50	TYPE 5B AUTO PAN
Parameter 4 SEAM MIX 0 - 50 🛛 🖌 🕐	This effect periodically varies the panpot setting (stereo right/left position) of the sound.
Parameter 5 – Parameter 8	Parameter 1 PAN DPT 0-50
See TYPE 1A (REV HALL).	Adjusts the effect width.
	Parameter 2 PAN RATE 1 - 50
Sets the delay time according to the interval in which the CONTROL switch is operated.	
·	Parameter 3 PAN CLIP 0 - 10
YPE 4A CHO+DLY	Adjusts the modulation waveform. Higher values result in stronger clipping of waveform tops.
s is a combination effect of chorus and delay.	Parameter 4TRM DPT $0-50$
Parameter 1 TIME 1 - 99, 1.0 - 6.0 ₩ →	Adjusts the level change depth associated with the panpot set
Sets the delay time. In the range from 1 - 99, the formula is 10 ms x setting value = delay time. In the range from $1.0 - 6.0$ (for	Parameter 5 – Parameter 8
3B SEAMLESS, the maximum is 3.0), the formula is 1000 ms x	See TYPE 1A (REV HALL).
setting value = delay time. When the PARM 1 knob is moved, the value changes in steps of 5. For fine adjustment, use the	LED lit: PAN RATE parameter is at maximum.
PARM VALUE knob (*1).	LED out: PAN RATE parameter is at the value stored for
Parameter 2 DLY MIX 0 - 50 🖌 🖌 🕐	that patch.
Adjusts the delay sound mix ratio.	TYPE 6A PIT+DLY
Parameter 3 CHO RATE 1 - 50	This is a combination effect where a pitch shifter is applied to the de
Adjusts the chorus modulation rate.	sound.
Parameter 4 CHO MIX 0 - 50	Parameter 1 TIME 1 - 99, 1.0 - 6.0
Adjusts the chorus sound mix ratio.	See → (*1).
Parameter 5 – Parameter 8	Parameter 2 PITCH -121, dt, 1 - 12, 24
See TYPE 1A (REV HALL).	When set to "dt", the effect is a slight detune from the pitch of
Sets the delay time according to the interval in which the	original sound. Other settings shift the pitch by the number or semitones corresponding to the setting.
Sets the delay time according to the interval in which the CONTROL switch is operated.	Parameter 3 FEEDBACK 0-50
YPE 4B ECHO	Parameter 4 DLY MIX 0 - 50
s effect creates a soft echo in the style of a tape echo.	Parameter 5 – Parameter 8
Parameter 1 TIME 1 - 99, 1.0 - 6.0 P	See TYPE 1A (REV HALL).
See → (*1).	Sets the delay time according to the interval in which the
Parameter 2 TONE 0 - 50 Adjusts the effect tone.	CONTROL switch is operated.
•	
Parameter 3 FEEDBACK 0 - 50	TYPE 6B BEND CHO This effect provides pitch bending that follows the picking of every
Parameter 4 ECHO MIX 0 - 50 🛛 🖌 🖉	note.
Parameter 5 – Parameter 8	Parameter 1 DEPTH 0 - 50
See TYPE 1A (REV HALL).	Adjusts the rate of pitch bend.
Sets the delay time according to the interval in which the	Parameter 2 SHIFT dn, UP
Sets the delay time according to the interval in which the CONTROL switch is operated.	
	Parameter 3 TIME 1 - 50 Adjusts the predelay time.
YPE 5A ST CHO	· · · · · · · · · · · · · · · · · · ·
is is a stereo chorus with clear sound and a wide spread.	
Parameter 1 DEPTH 0 - 50	Parameter 5 – Parameter 8
Parameter 2 RATE 1 - 50	See TYPE 1A (REV HALL).
	If the effect is ON and the CONTROL switch is operated the effect will be burgesed while the switch is pushed
Parameter 3 TONE 0 - 50 Adjusts the sound quality.	the effect will be bypassed while the switch is pushed.
	TYPE 7A JAM PLAY
	THE TABLE AND LAY This function lets you record a guitar phrase during a performance a
Parameter 5 – Parameter 8	play it back in various ways. For details, see the section "Using Jam
See TYPE 1A (REV HALL).	Play" on page 32.
LED lit: STCH MIX parameter is at maximum.	Parameter 1 STYLE nM, rS, SC
LED out: STCH MIX parameter is at the value stored for	Selects the playback method of the recorded phrase.

that patch.

• nM (Normal)

- Playback in normal direction.
- rS (Reverse)

Performs playback in the reverse direction.

SC (Scratch)

The playback direction changes according to the movement of the expression pedal. Pushing the expression pedal from about the center position down causes normal playback, and moving the pedal in the opposite direction causes reverse playback.

Parameter 2 TRG/GATE tS, tL, GS, GL, rS

Selects the playback mode for foot switch 2.

• tS (Trigger one-shot)

Pressing foot switch 2 causes one-time playback from the beginning, according to the setting of parameter 1. Pressing foot switch 2 during playback stops play.

tL (Trigger loop)

Pressing foot switch 2 causes loop playback from the beginning, according to the setting of parameter 1. Pressing foot switch 2 during playback stops play.

• GS (Gate one-shot)

While foot switch 2 is depressed, the unit performs one-time playback from the beginning, according to the setting of parameter 1. Releasing foot switch 2 during playback stops play.

GL (Gate loop)

While foot switch 2 is depressed, the unit performs loop playback from the beginning, according to the setting of parameter 1. Releasing foot switch 2 during playback stops play.

rS (Retrigger one-shot)

Pressing foot switch 2 causes one-time playback from the beginning, according to the setting of parameter 1. Pressing foot switch 2 during playback restarts play.



NOTE:

The JAM PLAY effect does not have an RTM parameter.

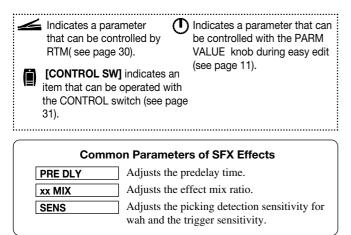
Switches the jam play function on and off.

SFX Effects

If one of the SFX effects below is set to ON in the DLY/REV module, the MOD module becomes inactive.

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1.0, 94, 89, 84, 79, 75, 71, 67, 50, 25



TYPE 7B SAMPLER

This is a sampler effect with up to 25 seconds of record/play time. For details on operation, see the section "Using the Sampler" (see page 34).

Parameter 1 SOURCE PL, AU

Selects the recording source as follows.

PL: Guitar signal from INPUT jack

AU: Stereo line signal from AUX IN jack

HINT:

When PL is selected, the signal is recorded after passing the EQ module. When AU is selected, the signal is recorded without passing any effect modules.

Parameter 2 PITCH oF, on

This parameter determines whether pitch compensation is performed when playback speed is changed. Available settings are "on" (compensation on) and "oF" (compensation off).

Parameter 3 SPEED

Selects the playback speed.

When pitch compensation was not selected with the PITCH parameter, the pitch of the playback sound changes as follows according to the SPEED parameter.

SPEED Parameter value	Playback pitch
1.0	Original pitch
94	
89	
84	1 semitone down -
79	7 semitones down
75	/ Semitories down
71	
67	
50	1 octave down
25	2 octaves down

Parameter 4 TONE 10 - 0 - 10

Adjusts the playback tone. Settings from -10 to -1 mean a low-range cut and settings from 1 to 10 a high- range cut.

NOTE:

While the sampler function is used, the expression pedal always operates as volume pedal for the input/playback signal. Therefore the SAMPLER effect does not have an RTM parameter.



Switches the sampler function on and off.

TYPE 8A AWA+TRM

Parameter 1 AWA SNS

This is a combination effect of auto-wah and tremolo.

-10 - -1, oF, 1 - 10 🖌

Adjusts the auto-wah sensitivity. When set to a negative value, the wah effect operates in the downward direction.



Adjusts the time lag between the input signal and the start of the tremolo effect. When the setting is "oF", the effect is always operating.

Parameter 3 TRM DPT	0 - 50	🗲 🛈
Adjusts the tremolo effect depth.		
	1 50	/

 Parameter 4
 TRM RATE
 1 - 50

 Adjusts the tremolo modulation rate.

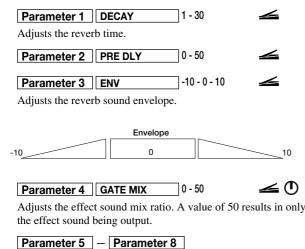
Parameter 5 – Parameter 8 See TYPE 1A (REV HALL).

		۱.	
Ē	1		

LED lit: TRM RATE parameter is at maximum. LED out: TRM RATE parameter is at the value stored for that patch.

TYPE 8B GATE REV

This is a reverb effect for which the envelope (sound change curve) can be adjusted.



See TYPE 1A (REV HALL).

If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE 9A HPS

This is a pitch shifter that allows changing the pitch according to the key of the song.

Parameter 1 KEY	C, C#, A#, b
Selects the keynote of the scale.	
Parameter 2 SCALE	M3, m3, 4t, 5t, 6t

Sets the harmonic inter	val from the keynote.
M3 = major third	m3 = minor third
4t = complete fourth	5t = complete fifth
6t = major sixth	

Parameter 3 SHIFT dn, UP

Adjusts the pitch shift direction. "dn" means downward shift, and "UP" upward shift.

Parameter 4 HPS MIX 0 - 50

Parameter 5 – Parameter 8 See TYPE 1A (REV HALL).

If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE	9B	TWIN PIT		
This effect	t uses two	pitch shifters.		
Pa	rameter 1	PITCH 1] -121, oF, 1 - 12, 24	4
Sets	the pitch	of pitch shift 1 in ser	nitones.	
			_	

 Parameter 2
 PITCH 2
 -12 - -1, oF, 1 - 12, 24

 Sets the pitch of pitch shift 2 in semitones.

Mn/St

Parameter 3 MODE

Selects monaural (Mn) or stereo (St) operation.

Parameter 4 BALANCE 0 - 50



Adjusts the effect sound level.

Parameter 5 – Parameter 8 See TYPE 1A (REV HALL).

If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE 10A SMPLHOLD

This is a sample & hold effect with automatic picking synchronization.

Parameter 1 PATTERN 1 - 10	
Selects the effect pattern.	
Parameter 2 SENS 1 - 20	🗲 🛈
Select a suitable setting to match the guitar.	
Parameter 3 DRY LVL 0 - 50	4
Adjusts the level of the original sound.	
Parameter 4 WET LVL 0 - 50	
Adjusts the effect sound level.	
Parameter 5 – Parameter 8	
See TYPE 1A (REV HALL).	



If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE 10B SYNTH

This is an effect that creates a synthesizer type sound.

Parameter 1 COLOR 1-5	Ū
Selects the synthesizer sound character.	
Parameter 2 SENS 1 - 20	
Parameter 3 DRY LVL 0 - 50	4
Adjusts the level of the original sound.	
Parameter 4 WET LVL 0 - 50	4
Adjusts the level of the synthesizer sound.	
Parameter 5 – Parameter 8	

See TYPE 1A (REV HALL).



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If the effect is ON and the CONTROL switch is operated, the effect will be bypassed while the switch is pushed.

TYPE	11A	CUSTOM1
TYPE	11B	CUSTOM2

Call up the previously stored custom settings 1/2 for the MOD module. (For information on creating and storing custom settings, see page 18.)

The currently stored parameters can be edited. To retain any changes, store the patch.

TOTAL Module

The TOTAL module is not a separate effect module but rather the section of the unit where patch level and patch name information as well as global parameters common to all patches are stored.

Because the TOTAL module has a high number of parameters, the settings are divided into 3 pages.



- In edit mode, each push of the TOTAL key changes the color of the flashing TOTAL key LED and the editing target, as follows
 - Flashing red TOTAL module page 1 (patch level, patch name)
 - TOTAL module page 2 (RTM and · Flashing green CONTROL switch settings)
 - Flashing orange TOTAL module page 3 (amp simulator)

TOTAL P1 (Page 1)

Parameter 1 PATCHLVL 1 - 50

Adjusts the overall patch output level. A setting of 40 results in the unity condition (input level = output level).

Parameter 2 Specifies input position.

Parameter 3 Specifies the character.

PARM knobs 2 and 3 are used to input or change patch names. Use the PARM knob 2 or PARM SELECT knob to specify the character input position (flashing point on display), and use the PARM knob 3 or PARM VALUE knob to select the character or numeral. The following alphanumeric characters can be used.

(Space)	/	(>	¥	t		/	Ø	1	2	3	Ч
(Space)	1	()	*	+	-	/	0	1	2	3	4
5	6	٦	8	9	Z	=	7	7	J	Я	B	С
5	6	7	8	9	<	=	>	?	@	Α	В	С
ľ	Ε	F	6	н	I	J	К	L	М	N	0	Р
D	Е	F	G	Н	Ι	J	K	L	М	Ν	0	Ρ
Q	R	2	T	U	V	Ш	Х	Y	Z	1		
Q	R	S	Т	U	V	W	Х	Y	Ζ	١		

TOTAL P2 (Page 2)

Parameter 1 VOL_RTM oF, on

Determines whether the expression pedal controls the volume. When set to "on", the pedal operates as a volume pedal if RTM is activated

Parameter 2 CT SW oF, dS, Eq, Md, rv

Selects the module to be controlled by the CONTROL switch.

oF = Not assigned dS = DRIVE moduleEq = EQ moduleMd = MOD module rv = DLY/REV module

Parameter 3 CT1->XX xx:OF, 1 - 5, 7 - 31, 64 - 95

Sets the number of the control change (CT1) that is output from the MIDI OUT connector when the patch is switched at the GFX-8.

Select the control change number with the PARM 3 knob and use the PARM VALUE knob to select a value from set 0 - 127 (0 -99, 0.0...2.7).

xx:OF, 1 - 5, 7 - 31, 64 - 95 Parameter 4 CT2->XX

Sets the number of the control change (CT2) that is output from the MIDI OUT connector when the patch is switched at the GFX-8.

Select the control change number with the PARM 4 knob and use the PARM VALUE knob to select a value from set 0 - 127 (0 -99, 0.0...2.7).

TOTAL P3 (Page 3)

Parameter 1	AMP SIM	oF, on	G
		·	-

Sets the amp simulator to ON (on) or off (oF).

Parameter 2 AMP TYPE LC, Lb, LS, AC, AS Θ

Selects the amp simulator characteristics to match the connection type.

Line connection

- LC General combo type amplifier
- Lb Bright combo type amplifier
- LS Stack type amplifier

Power amplifier connection

- AC Combo type amplifier • AS
- Stack type amplifier

Parameter 3 CABINET oF, C1, C2, ST, WL

Selects the speaker cabinet simulator type.

- oF Cabinet simulator OFF
- C1 Combo amplifier cabinet with one 12" speaker
- C2 Combo amplifier cabinet with two 12" speakers
- ST Stack amplifier with four 10" speakers
- WL Stack amplifier tower with four 10" speakers

Parameter 4 CABI DPT 0 - 10

Adjusts the depth of the cabinet simulator effect.

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Using RTM

The RTM (real-time modulation) function can be operated either with the expression pedal on the top panel or by MIDI control change messages input via a MIDI link. This can be used for example to change the reverb sound mix ratio during a performance, using the expression pedal, or to control effect parameters during play, using a MIDI sequencer.

The parameter to be controlled by RTM as well as the control range can be freely set in edit mode. The steps for setting up and using RTM are as follows.

- **1.** In play mode, select a patch for which RTM is set.
- **2.** Switch to edit mode, and use the DRIVE, ZNR/EQ EDIT, MOD, DLY/REV keys to select the module to be controlled by RTM.
- **3.** Turn the PARM SELECT knob until the display shows "RTM CTL".



RTM CTL is the parameter that selects the controller for the RTM action. The following settings are possible.

- oF
 - RTM is not used in the module.
- Pd

RTM is controlled with the expression pedal on the unit.

• 1 - 5, 8 - 31

RTM is controlled with the MIDI control change of the respective control number.

4. Turn the PARM VALUE knob to select "Pd".

The respective module can now be controlled with the expression pedal.

5. Turn the PARM SELECT knob until the display shows "RTM DES".



RTM DES selects which effect parameter in that module is controlled by RTM.

- **6.** Turn the PARM VALUE knob to select the number of the parameter (1 4) to be controlled by RTM.
- 7. Turn the PARM SELECT knob until the display shows "RTM MAX", and use the PARM VALUE knob to set the maximum value of the parameter.



For the effect parameter selected in step 6, RTM MAX determines the maximum value that is established when the expression pedal is pushed fully down (or when the value of the received MIDI control change is 127).

Taking the maximum value of the controlled parameter as 100 (%), the setting can be made from 0% - 100% (setting value = 0 - 99, 1.0).

8. Turn the PARM SELECT knob until the display shows "RTM MIN", and use the PARM VALUE knob to set the minimum value of the parameter.



For the effect parameter selected in step 6, RTM MIN determines the minimum value that is established when the expression pedal is fully raised (or when the value of the received MIDI control change is 0).

Taking the maximum value of the controlled parameter as 100 (%), the setting can be made from 0% - 100% (setting value = 0 - 99, 1.0).



It is also possible to set RTM MIN to a higher value than RTM MAX. For example, if the setting is RTM MAX = 0, RTM MIN = 1.0, the parameter for that module becomes smaller as the pedal is pushed and maximum when the pedal is raised.

9. Repeat steps 2 - 8 to make the RTM setting for other modules in the same way.

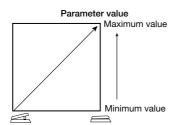
The RTM parameters described above are available separately for the DRIVE, EQ, MOD, DLY/REV modules. This makes it possible to control several parameters in different modules simultaneously.

It is also possible to assign the volume control to the expression pedal. This setting is made with the VOL_RTM parameter (see page 29) in the TOTAL module.

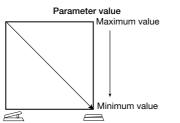
10. Store the patch and return to play mode.

When the expression pedal is operated in this condition, the assigned parameter changes within the preprogrammed range.

When the parameter was set to MAX=1.0 (100%), MIN=0 (0%), the expression pedal changes the parameter as follows.



When the parameter was set to MAX=0 (0%), MIN=1.0 (100%), the expression pedal changes the parameter as follows.



11. To switch the effect module being controlled by RTM on and off, push the expression pedal fully down.

The expression pedal of the GFX-8 incorporates a push- down switch that is activated when the pedal is pushed fully down in play mode. The switch serves to turn the RTM controlled module on and off.

For example, use the edit mode to set the DRIVE and MOD modules to RTM control, so that one module is on and the other module is off, and store the patch. When you call up this patch in play mode, you can switch between RTM control of the two modules each time you fully depress the expression pedal.

Using the CONTROL Switch

When the GFX-8 is in manual mode or edit mode, the CONTROL switch (foot switch 4) can be used for real-time control. If you program the module to be controlled beforehand, you can for example use the CONTROL switch during a performance to boost the DRIVE module or to input the delay time with tap input.

HINT

- **1.** Select the patch for which you want to use the CONTROL switch.
- **2.** Press the TOTAL key twice, so that the LED is flashing green.
- **3.** Use the PARM knob 2 to assign a module to the CONTROL switch.

While the TOTAL key is flashing green, turning the PARM knob 2 sets the CT SW parameter which selects the module to assign to the CONTROL switch.



The following settings are available.

- oF CONTROL switch is not active for this patch.
- **dS** CONTROL switch controls DRIVE module.
- Eq CONTROL switch controls EQ module.
- Md CONTROL switch controls MOD module.
- rv CONTROL switch controls DLY/REV module.

NOTE

The actual function performed when pressing the CONTROL switch depends on the module and effect (see page 19 - 29).

- **4.** Store the patch and return to play mode.
- **5.** Hold the BANK DOWN key down for at least 1 second to activate the manual mode.

The function assigned to the CONTROL switch is active in manual mode (and edit mode).

6. Push the CONTROL switch.



The function assigned to the CONTROL switch in that patch can be carried out. (For each effect, one of the following functions is assigned. This assignment is fixed and cannot be changed.)

Boost on/off

The switch serves to further boost the DRIVE module. This function can be used for all effects in the DRIVE module.

Module bypass/Mute

While the CONTROL switch is being pressed, the module effect is bypassed. Can be used for the EQ module and some effects of the MOD and DLY/REV modules.

Tap input

The delay time setting can be made (edited) by pressing the CONTROL switch in the desired interval. Can be used for delay effects in the MOD and DLY/REV modules.

Parameter value increase/decrease

While the CONTROL switch is being pressed, the rate parameter of the flanger effect etc. becomes maximum.

7. To return to the play mode, press the BANK DOWN key once more for at least 1 second.

Using the Jam Play Feature

The GFX-8 incorporates a jam play function which allows you to record and play a guitar phrase of up to 12 seconds in length. Besides straight playback, there are also innovative features such as reverse play and scratch play where you can use the expression pedal to control the direction and speed of playback.

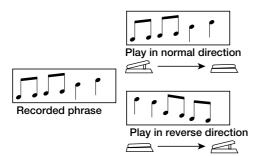
To use the jam play function, prepare a patch which uses the JAM PLAY effect from the DLY/REV module, and make the desired settings for playback method and foot switch operation.

- 1. Select a patch in which you wish to use jam play.
- **2.** Switch to edit mode and select JAM PLAY (effect 7A) in the DLY/REV module (see page 26). Make sure that the DLY/REV module is ON.
- **3.** Use the PARM knob 1 to select the desired STYLE parameter (playback method for the recorded phrase).
 - **nM (Normal)** Playback in normal direction.
 - **rS (Reverse)** Playback in reverse direction.
 - SC (Scratch) Playba

Playback direction changes according to the movement direction and speed of the expression pedal, resulting in a scratch type effect.

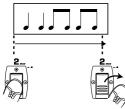
When switching to scratch playback from another playback method, or when switching to another playback method from scratch playback, previous recording data are erased. When scratch playback is selected, the maximum recording time is 2 seconds.

Scratch play

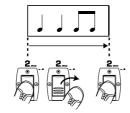


4. When the STYLE parameter was set to "nM" (Normal) or "rS" (Reverse), use the PARM knob 2 to select the TRIG/GT parameter (trigger/gate mode).

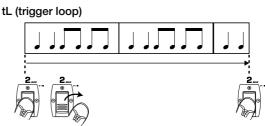
tS (trigger one-shot)



Pressing the ►/■ foot switch (foot switch 2) causes one- time playback from the beginning.



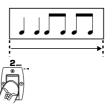
Pressing the ►/∎foot switch during playback stops play.

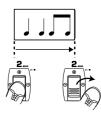


Pressing the ►/■ foot switch causes loop playback from the beginning.

Pressing the ►/■ foot switch during playback stops play.

GS (Gate one-shot)





While the ►/■ foot switch is pressed, one-time playback from the beginning is carried out.

Releasing the ►/■foot switch during playback stops play.

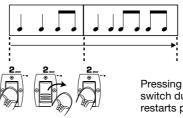
GL (Gate loop)



While the ►/■ foot switch is pressed, loop playback from the beginning is carried out.

Releasing the ►/■ foot switch during playback stops play.

rS (retrigger one-shot)



Pressing the ►/■ foot switch during playback restarts play.

Pressing the►/■ foot switch causes one-time playback from the beginning.

When the STYLE parameter is set to "SC", this parameter has no effect.



When the JAM PLAY effect is selected for the DLY/REV module, the expression pedal and CONTROL switch are automatically assigned to the jam play feature.

5. Store the patch and return to play mode.

In play mode, when a patch is selected where jam play can be used, the DLY/REV key flashes.

6. To activate jam play, push the expression pedal fully down in play mode, or press the CONTROL switch in manual mode.

The GFX-8 enters the jam play mode and goes into the recording standby condition. The display shows "STOP", and "JP" flashes on the GROUP/BANK indicator.



7. While playing your instrument, press the REC foot switch (foot switch 3).

The indication "RECORDING" scrolls on the display and recording starts.

For jam play, the recording source signal is always the processed effect signal. When "nM" or "rS" is selected as STYLE parameter, the expression pedal can be used to adjust the input signal level.

 To stop recording halfway, press the ►/■ foot switch (foot switch 2).

Recording stops, and playback starts according to the selected settings.

When the \checkmark foot switch was not operated, recording stops automatically after 12 seconds have elapsed, and playback starts according to the selected settings.

Use the ►/■ foot switch (foot switch 2) and expression pedal to control playback/stop of the recorded phrase.

When "SC" was selected as STYLE parameter, the expression pedal can be used for scratch playback. If "nM" or "rS" was selected as STYLE parameter, the expression pedal can be used to control the jam play volume.

To record a new phrase, repeat steps 7 - 9.

10. To terminate jam play, press the expression pedal once more fully down, press the EDIT key, or press the CONTROL switch.

Using the Sampler

The GFX-8 incorporates a sampler with a maximum recording duration of 25 seconds. It can be used not only to record the guitar input but also the signal from an external component such as a CD player or similar. The recorded sample is stored in memory and can be easily played back using the foot switches.

 Refer to the diagram on page 6 and connect the recording source to the INPUT jack or AUX IN jack of the GFX-8.



Before changing any connections, be sure to turn the OUTPUT knob fully to zero. If plugs are inserted or removed with the OUTPUT turned up, transient noise can occur which can damage the speakers of the playback system.

- 2. Select the patch in which you wish to use the sampler.
- **3.** Switch to edit mode and select SAMPLER (effect 7B) in the DLY/REV module (see page 27). Make sure that the DLY/REV module is ON.



When SAMPLER is selected for the DLY/REV module, the MOD module is automatically set to OFF.

 Use PARM knobs 1 - 4 to select the sampler parameters, as follows.

■PARM knob 1

SOURCE parameter (recording source selection)

The following settings are available.

- PL = Guitar signal from INPUT jack (after passing EQ module/amp simulator)
- AU = Signal from AUX IN jack (signal does not pass any effect module)

PARM knob 2

PITCH parameter (pitch compensation)

Sets pitch compensation to ON (on) or OFF (oF). When the PITCH parameter is ON, the pitch will be kept constant also when changing the playback speed with the SPEED parameter (PARM knob 3).

■PARM knob 3

SPEED (playback speed)

Sets the sampler playback speed. When pitch compensation is not carried out with the PITCH parameter, the pitch changes as follows, according to the SPEED parameter.

- 1.0 original pitch
- 94, 89, 84, 79, 75, 71, 67

(1 semitone down - 7 semitones down)

- 50 (1 octave down)
- 25 (2 octaves down)

PARM knob 4

TONE

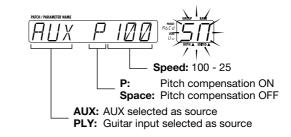
Adjusts the playback tone. Settings from -10 to -1 mean a low-range cut and settings from 1 to 10 a high- range cut.

5. Store the patch and return to play mode.

For patches where SAMPLER is selected as effect for the DLY/REV module, the DLY/REV key LED flashes green.

6. To activate the sampler, push the expression pedal fully down in play mode, or press the CONTROL switch in manual mode.

The following information appears on the display and the indication "SM" flashes on the GROUP/BANK indicator.



7. Press the REC foot switch (foot switch 3) and play the phrase you want to record (or start playback at the CD player or other external device).

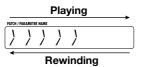
The indication "RECORDING" scrolls on the display and recording starts.

8. To stop recording halfway, press the ►/■ foot switch (foot switch 2).

When the $\blacktriangleright / \blacksquare$ foot switch is pressed, playback starts immediately from the beginning of the recorded phrase.

When the $\blacktriangleright /\blacksquare$ foot switch was not operated, recording stops automatically after 25 seconds have elapsed, and playback starts.

During playback, the display shows the following information.



When recording is complete, the foot switches 1 - 4 can be used to perform the following operations.

- foot switch (foot switch 1) Rewind
- ►/■ foot switch (foot switch 2) Playback start/stop
- REC foot switch (foot switch 3)

Clear recorded phrase and start new recording CONTROL switch (foot switch 4)

- Terminate sampler mode
- **9.** To terminate the sampler function, press the expression pedal once more fully down, press the EDIT key, or press the CONTROL switch.



The recorded contents are cleared when the sampler function is terminated.

MIDI Usage Examples

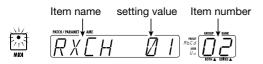
This section describes various application examples of the GFX-8 using MIDI.

Basic MIDI Send/Receive Settings

Before using the various possibilities, basic settings for sending and receiving MIDI messages (Omni mode on/off, send/receive channel, etc.) must be made, as described below. MIDI settings are global parameters that apply to all patches. The settings are memorized also when the unit is turned off.

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode. The GROUP/BANK indicator shows the setting item number, and the display shows the setting value.



2. Use the PARM SELECT knobs 1 - 4 to select the item, and use the PARM VALUE knob to change the value.

Item numbers, setting contents, and setting values are listed below.

■ 01 RXCH (MIDI receive channel)

Setting value: 01 - 16

Sets the MIDI channel in which the GFX-8 receives MIDI messages.

■ 02 TXCH (MIDI send channel) Setting value: 01 - 16

Sets the MIDI channel in which the GFX-8 sends MIDI messages.

■ 03 MIDI OUT/THR (MIDI OUT connector function) Setting value: OUT, THR

Sets the function of the MIDI OUT connector to "OUT" (MIDI OUT connector) or "THR" (MIDI THRU connector). When wishing to transmit GFX-8 operation information to an external device, select "OUT".



When MIDI THRU is selected, the GFX-8 will not send out any MIDI messages, and all functions related to MIDI message output are disabled.

3. When the settings are complete, press the EDIT key. The settings are stored, and the unit returns to the play mode.

Switching GFX-8 Patches From an External Unit

You can send MIDI messages from an external MIDI device to the GFX-8 and switch patches at the GFX-8 in this way. To do this, connect the MIDI OUT connector of the external MIDI device to the MIDI IN jack of the GFX-8, using a MIDI cable. Set the MIDI send channel at the external MIDI device and the MIDI receive channel (RXCH) at the GFX-8 to the same settings.

To switch patches, you can either use bank select + program change information to switch the patch directly, or you can use the program change map built into the GFX-8 to call up patches indirectly.

Specifying Patches Directly

You can use bank select + program change messages to directly specify any group, bank number, and patch number of the GFX-8. Proceed as follows.

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode.

2. Turn the PARM SELECT knob so that the GROUP/BANK indicator shows "14".

The display shows "PC FIX" or "PC MAP".

- **3.** If necessary, use the PARM VALUE knob so that the display shows "PC FIX", and then press the EDIT key . The GFX-8 returns to the play mode.
- **4.** To switch GFX-8 patches under external control, send messages in the following order.
 - Bank select MSB (control change number: 0/value: 0)
 - Bank select LSB (control change number: 32/value: 0 2)
 - Program number (0 79)

The relationship between GFX-8 patches and bank select MSB/bank select LSB/program number is as shown below.

Bank select MSB

— Bank select LSB — Program number

0 0 1																									
	PATCH NO.						PATCH NO.																		
GROUP/BANK		1			2			3			4		GROUP/BANK		1			2			3			4	
UO	0	0	0	0	0	1	0	0	2	0	0	3	u0	0	0	40	0	0	41	0	0	42	0	0	43
U1	0	0	4	0	0	5	0	0	6	0	0	7	u1	0	0	44	0	0	45	0	0	46	0	0	47
U2	0	0	8	0	0	9	0	0	10	0	0	11	u2	0	0	48	0	0	49	0	0	50	0	0	51
U3	0	0	12	0	0	13	0	0	14	0	0	15	u3	0	0	52	0	0	53	0	0	54	0	0	55
U4	0	0	16	0	0	17	0	0	18	0	0	19	u4	0	0	56	0	0	57	0	0	58	0	0	59
U5	0	0	20	0	0	21	0	0	22	0	0	23	u5	0	0	60	0	0	61	0	0	62	0	0	63
U6	0	0	24	0	0	25	0	0	26	0	0	27	u6	0	0	64	0	0	65	0	0	66	0	0	67
U7	0	0	28	0	0	29	0	0	30	0	0	31	u7	0	0	68	0	0	69	0	0	70	0	0	71
U8	0	0	32	0	0	33	0	0	34	0	0	35	u8	0	0	72	0	0	73	0	0	74	0	0	75
U9	0	0	36	0	0	37	0	0	38	0	0	39	u9	0	0	76	0	0	77	0	0	78	0	0	79
	PATCH NO.							PATCH NO.																	
GROUP/BANK		1			2			3			4		GROUP/BANK		1			2			3			4	
A0	0	1	0	0	1	1	0	1	2	0	1	3	b0	0	1	40	0	1	41	0	1	42	0	1	43
A1	0	1	4	0	1	5	0	1	6	0	1	7	b1	0	1	44	0	1	45	0	1	46	0	1	47
A2	0	1	8	0	1	9	0	1	10	0	1	11	b2	0	1	48	0	1	49	0	1	50	0	1	51
A3	0	1	12	0	1	13	0	1	14	0	1	15	b3	0	1	52	0	1	53	0	1	54	0	1	55
A4	0	1	16	0	1	17	0	1	18	0	1	19	b4	0	1	56	0	1	57	0	1	58	0	1	59
A5	0	1	20	0	1	21	0	1	22	0	1	23	b5	0	1	60	0	1	61	0	1	62	0	1	63
A6	0	1	24	0	1	25	0	1	26	0	1	27	b6	0	1	64	0	1	65	0	1	66	0	1	67
A7	0	1	28	0	1	29	0	1	30	0	1	31	b7	0	1	68	0	1	69	0	1	70	0	1	71
A8	0	1	32	0	1	33	0	1	34	0	1	35	b8	0	1	72	0	1	73	0	1	74	0	1	75
A9	0	1	36	0	1	37	0	1	38	0	1	39	b9	0	1	76	0	1	77	0	1	78	0	1	79
					Р	ATC	ΗN	0.						PATCH NO.											
GROUP/BANK		1			2			3			4		GROUP/BANK		1			2			3			4	
C0	0	2	0	0	2	1	0	2	2	0	2	3	d0	0	2	40	0	2	41	0	2	42	0	2	43
C1	0	2	4	0	2	5	0	2	6	0	2	7	d1	0	2	44	0	2	45	0	2	46	0	2	47
C2	0	2	8	0	2	9	0	2	10	0	2	11	d2	0	2	48	0	2	49	0	2	50	0	2	51
C3	0	2	12	0	2	13	0	2	14	0	2	15	d3	0	2	52	0	2	53	0	2	54	0	2	55
C4	0	2	16	0	2	17	0	2	18	0	2	19	d4	0	2	56	0	2	57	0	2	58	0	2	59
C5	0	2	20	0	2	21	0	2	22	0	2	23	d5	0	2	60	0	2	61	0	2	62	0	2	63
C6	0	2	24	0	2	25	0	2	26	0	2	27	d6	0	2	64	0	2	65	0	2	66	0	2	67
C7	0	2	28	0	2	29	0	2	30	0	2	31	d7	0	2	68	0	2	69	0	2	70	0	2	71
C8	0	2	32	0	2	33	0	2	34	0	2	35	d8	0	2	72	0	2	73	0	2	74	0	2	75
C9	0	2	36	0	2	37	0	2	38	0	2	39	d9	0	2	76	0	2	77	0	2	78	0	2	79

- Always use the sequence: bank select MSB, bank select LSB, program number. If the order is changed or if another message is inserted, the GFX-8 may disregard the command.
- When bank select information is omitted and the GFX-8 receives only a program number, it will use the last received bank select (default settings: MSB = 0, LSB = 0).

Specifying Patches Via PC Map

The GFX-8 incorporates a so-called program change map that maps MIDI program numbers to GFX-8 patches. Using the program change map, you can make program change numbers 0 - 127 call up any desired patch.

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode.

2. Turn the PARM SELECT knob so that the GROUP/BANK indicator shows "14".

The display shows "PC FIX" or "PC MAP".

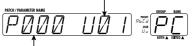
3. Turn the PARM VALUE knob until the display shows "PC MAP".

The program change map is now active.

4. Next, turn the PARM SELECT knob until the GROUP/BANK indicator shows "PC".

The program change map is selected as setting item. The display shows the MIDI program number (P000 - P127) and the group (U, u, A, b, C, d), bank number (0 - 9), and patch number (1 - 4) assigned to that number.

Group/Bank number/Patch number

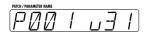


MIDI program number

5. Turn the PARM SELECT knob to select the program number to assign to the patch.

When the above display has appeared, you can turn the PARM SELECT knob to change the program number.

6. Turn the PARM VALUE knob to select the group, bank number, and patch number to assign to the currently shown program number.



You can use the BANK UP/DOWN foot switch and foot switches 1 - 4 to specify the respective group, bank number, and patch number.

7. Repeat steps 5 and 6 until all desired program numbers have been mapped to their respective patches.

If desired, you can also assign several program numbers to the same patch.

8. When the entire assignment process is completed, press the EDIT key.

The program change map is stored, and the unit returns to the play mode.

9. Send a program change message from the external MIDI device.

The patch assigned to the program number will be called up.



- When using the program change map, there is no need to send bank select information from the external MIDI device.
- The program change map is active only for receiving MIDI messages. The program number information sent by the GFX-8 when patches are switched is fixed (see page 36).

Controlling External Devices in Conjunction With GFX-8 Patch Switching

When you switch a patch with the controls on the top panel of the GFX-8, the unit can send program change information and control change information to an external MIDI device. To do this, connect the MIDI OUT connector of the GFX-8 to the MIDI IN jack of the external MIDI device, using a MIDI cable. Set the MIDI send channel at the GFX-8 and the MIDI receive channel (RXCH) at the external MIDI device to the same settings.

This function of the GFX-8 can be set up in two ways, as follows:

GFX-8 sends only bank select information + program change information when the patch is switched GFX-8 sends bank select information + program change information followed by two types of control change information (CT1 + CT2).

To Send Only Bank Select + Program Change Information

To set up the GFX-8 so that it sends bank select information + program change information corresponding to a patch, proceed as follows. This is useful for example to switch programs at a MIDI compatible amplifier or effect device when a patch is switched at the GFX-8.

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode.

2. Turn the PARM SELECT knob so that the GROUP/BANK indicator shows "04".

The display shows "PCOUT ON" or "PCOUT OF".

3. If required, turn the PARM VALUE knob so that the display shows "PCOUT ON", then press the EDIT key.

The program change output is now enabled, and the GFX-8 returns to the play mode.

4. Switch a patch at the GFX-8. The bank select MSB, bank select LSB, and program change corresponding to that bank is output.

For information on the relationship between GFX-8 patches and bank select MSB/bank select LSB/program number, see the table on page 36.

To Send Control Change Information

Besides pedal and foot switch operation, the GFX-8 can be set up so that it sends two types of control change information (called CT1 and CT2) immediately after sending bank select + program change information when a patch is changed. The control number and value of CT1 and CT2 can be defined freely and stored separately for each patch. For example, this is useful to control the volume setting at a MIDI compatible amplifier or synthesizer.

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode.

2. Turn the PARM SELECT knob so that the GROUP/BANK indicator shows "05".

The display shows "CTOUT ON" or "CTOUT OF".

3. If required, turn the PARM VALUE knob so that the display shows "CTOUT ON", then press the EDIT key .

The control change output is now enabled, and the GFX-8 returns to the play mode.

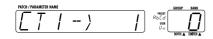


This setting affects all control change output operations of the GFX-8.

4. Press the TOTAL key twice, so that the LED flashes green.

Page 2 of the TOTAL module can now be edited.

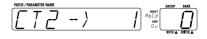
5. Turn PARM knob 3 and select the control number for CT1 (control change sent immediately after program change).



The display shows "CT1->XX" (XX is the control number), and the GROUP/BANK indicator shows the value. Use PARM knob 3 to set the control number for CT1. Available settings are oF (OF), 1 - 5, 7 - 31, 64 - 95.

6. Turn the PARM VALUE knob to set the value for CT1 to 0 - 127 (0 - 99, 0.0...2.7).

7. Turn PARM knob 4 to select the control number for CT2 (second control change sent after program change).



- **8.** Turn the PARM VALUE knob to set the value for CT1 to 0 127 (0 99, 0.0...2.7).
- 9. Store the patch and return to play mode.

10.Call up the respective patch.

The following MIDI message sequence is output from the MIDI OUT connector: bank select MSB \rightarrow bank select LSB \rightarrow program change \rightarrow CT1 \rightarrow CT2.

Remote Control Using GFX-8

It is possible to send out MIDI control change information whenever a control on the GFX-8 is operated, or conversely, to operate the GFX-8 via externally supplied control change information. This lets you for example record a GFX-8 operation sequence on a MIDI sequencer and play it back at any time. Remote control of the GFX-8 from other external equipment is also possible.

To control external equipment from the GFX-8, connect the MIDI OUT connector of the GFX-8 to the MIDI IN connector of the external device. To control the GFX-8 from external equipment, connect the MIDI OUT connector of the external device to the MIDI IN connector of the GFX-8. (For information on enabling or disabling control change information output, please refer to "To Send Control Change Information" on page 37.)

1. In play mode or edit mode, press the MIDI key.

The MIDI key lights up, and the unit enters the MIDI utility mode.

2. Use the PARM SELECT knob to select items 6 - 13, and use the PARM VALUE knob to change the setting value.

The item numbers, setting contents, and setting values are shown below.

06

EXPP (expression pedal send control number) setting value: OF, 1 - 5, 7 - 31

Sets the control number for the control change information sent when the expression pedal is operated.



This is a send-only parameter. The internal parameter setting of the GFX-8 is not affected also when the GFX-8 receives this control number.

07

DRIVE (DRIVE module on/off receive control number) Setting values: OF, 64 - 95

08

MOD (MOD module on/off receive control number) Setting values: OF, 64 - 95

09

D/R (DLY/REV module on/off receive control number) Setting values: OF, 64 - 95

10

EQ (EQ module on/off receive control number) Setting values: OF, 64 - 95

Sets the control number that is sent when a module is switched on and off at the GFX-8. The respective module is also switched when the GFX-8 receives that control change information from an external device.

11

BYPAS (bypass operation receive control number) Setting values: OF, 64 - 95

12

MUTE (mute operation receive control number) Setting values: OF, 64 - 95

Set the control number that is sent when bypass/mute is switched on and off at the GFX-8. Bypass/mute is also switched when the GFX-8 receives that control change information from an external device.

13

CTSW (CONTROL switch operation receive control number)

Setting values: OF, 64 - 95

Sets the control number that is sent when the CONTROL

MIDI Usaç

3. When the setting is complete, press the EDIT key to return to play mode.

When panel keys or switches are operated in this condition, the respective control change is output from the MIDI OUT connector. When a control change message is received from external equipment, the respective item changes. The values that can be received for the various items are listed below.

Example:

Control number 70 is assigned to DRIVE module on/off

When the DRIVE module is switched on or off at the GFX-8 itself, the MIDI OUT connector supplies the following control change information: control number = 70, value = 127/0.

When the control change information "control number = 70, value = 127/0" is supplied to the GFX-8 MIDI IN connector, the DRIVE module is switched OFF. When the control change information "control number = 70, value = 64 - 127" is supplied, the DRIVE module is switched ON.



While the jam play function or sampler function is activated, external MIDI control is not possible.

	Allowable values	Allowable values				
EXPP	0 - 127 Continuously variable					
DRIVE/MOD DLY/REV/EQ	0=OFF/127=ON	0 - 63=OFF/64 - 127=ON				
BYPAS/MUTE	0=OFF/127=ON	0 - 63=OFF/64 - 127=ON				
CTSW (For tap input)	When pushed: 127 = ON value output Immediately after: 0 = OFF value output					
CTSW (when using push = ON function)	When pushed: 127 = ON value output When released: 0 = OFF value output					
CTSW (when using push = ON/OFF toggle function)	When pushed and LED lights: 127 = ON value output When pushed and LED goes out: O = OFF value output					

Bulk Dump

Patch information and program change map information stored in the GFX-8 can be output in bulk via the MIDI link. This function is called "bulk dump". You can use this function for example to store GFX-8 information on a MIDI sequencer or to exchange settings between two GFX-8 units.

- Connect the MIDI OUT connector of the GFX-8 to the MIDI IN connector of the external MIDI device (other GFX- 8, MIDI sequencer, etc.).
- 2. Set the GFX-8 to play mode and turn the PARM SELECT knob until the GROUP/BANK indicator shows "15".
- **3.** Use the PARM VALUE knob to select the data type to use for the bulk dump operation.
 - ALL All settings of GFX-8
 - **PAT** All patch data
 - SYS All settings of GFX-8 except patch data
 - **BUF** Currently selected patch
 - **DST** DRIVE module user custom settings
- **4.** After setting the external MIDI device to the recording mode, press the STORE key.

For example, when "ALL" was selected in step 3, the display shows "ALL OK?".

5. To execute the bulk dump operation, press the STORE key once more.

The display shows "DUMPING" and the GFX-8 starts to send the bulk dump data. To cancel the bulk dump operation, press the EDIT/CANCEL key before pressing the STORE key the second time. The unit returns to the play mode without carrying out the operation.

6. When the GFX-8 has returned to play mode, stop recording at the external MIDI device.

Perform any necessary steps to store the recorded information on the external MIDI device.

Bulk Load

GFX-8 patch information or program change map information stored on external equipment can be reloaded into the GFX-8. This is called "bulk load".

Connect the MIDI OUT connector of the external MIDI device (other GFX-8, MIDI sequencer, etc.) to the MIDI IN connector of the GFX-8.



To perform bulk load, the GFX-8 must be set to the same MIDI channel as used when performing bulk dump. If the MIDI channel is different, playback at the external MIDI device will have no effect and will be disregarded by the GFX-8. When the GFX-8 is in store mode, received bulk data will be disregarded. Verify that the unit is not in store mode before proceeding.

2. Perform playback at the external MIDI device.

The settings of the GFX-8 are overwritten, depending on the type of received data.



 When saving data on an external device and when reloading the data to the GFX-8, the GFX-8 must be set to the same MIDI channel. If the MIDI channel is different, playback at the external MIDI device will have no effect and will be disregarded by the GFX-8.

- Playback at the external MIDI device must be performed at the same tempo as recording. If the tempo is faster, the GFX-8 may not receive the data properly.
- **3.** When bulk load is completed, stop playback at the external MIDI device.



When performing bulk dump or load with two GFX-8 units, hooking up both the MIDI IN and MIDI OUT connectors will result in faster data transfer.

Supplied Software

The GFX-8 comes with a CD-ROM that contains software for editing patches on a personal computer. (The disc contains versions for Windows 95/98 and Macintosh.) The software comprises the following functions.

(1) Patch librarian

Serves to manage patch information of the GFX-8 on the computer. Information about all patches of the GFX-8 is sent to the computer via a MIDI link and can be stored on the hard disk as a project file. Within a project, the order of patches can be changed, and information stored as project files can be loaded back into the GFX-8. In effect, this increases the memory capacity of the GFX-8 to an unlimited size.

(2) Visual editor

Using knobs, switches and other graphical elements appearing on the computer screen, patches contained in project files can be edited. Because the edited contents are sent immediately to the GFX-8 via the MIDI link, the effect of any editing operation can be checked immediately by listening to the sound. Edited patches can be stored on the computer and can also be sent to the GFX-8 via the MIDI link.

(3) DRIVE module custom setting editor

Using this software, you can edit additional parameters for the DRIVE module custom settings, to achieve even more detailed adjustments than are possible with the controls on the unit itself. There are virtually no limits to your creativity, as you can set numerous items such as balance for each frequency band, distortion circuit characteristics, etc. The editing results can be written back to the GFX-8.

- For information on software installation, please refer to the separate sheet. For information on how to use the software, please refer to the documentation included on the CD-ROM.
- The latest version of the software can be downloaded from the Zoom web site.

URL: http://www.zoom.co.jp

Other Functions

This section contains information about special functions such as how to return the GFX-8 to the factory default condition and how to readjust the expression pedal.

All Initialize/Factory Recall

The All Initialize/Factory Recall function is a special function that lets you reset the GFX-8 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. Factory Recall can be used to reset only specific user group patches group to the default settings.

1. Turn power to the GFX-8 on while keeping the STORE key depressed.

The display shows "ALL-INIT".

- To perform All Initialize
- \longrightarrow Continue with the next step.
- To perform Factory Recall
- → Use the BANK UP/DOWN foot switch and foot switches 1 - 4 to select the patch (from a user group) that you want to return to the factory default condition.

2. Press the STORE key once more

All Initialize or Factory Recall is carried out. If All Initialize was carried out, the unit automatically returns to the play 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/Factory Recall, press the EDIT/CANCEL key before step 2.

Trying Out the Factory Default Patches (Self Introduction Function)

The GFX-8 also incorporates a so-called self introduction function that automatically switches patches to demonstrate the capabilities of the unit.

1. To activate the function, hold down the TOTAL key while turning on power to the unit.

The GFX-8 starts to automatically cycle through the factorydefault patches. The indication "SELF INTRODUCTION" and the currently selected patch name are scrolled on the display. You can play your guitar while checking out the various patches.

2. To stop the self introduction function, press the EDIT/CANCEL key.

Adjusting the Expression Pedal

The expression pedal of the GFX-8 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 GROUP 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 down until it touches the stopper and then release the pedal. Press the STORE key at this point.

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

Disabling the Bypass/Mute Function

If desired, the setup of the unit can be changed so that the bypass/mute condition will not be activated also when the foot switch with the lit LED is pushed. This can help to prevent inadvertently switching to bypass/mute. To make the setting, proceed as follows.

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

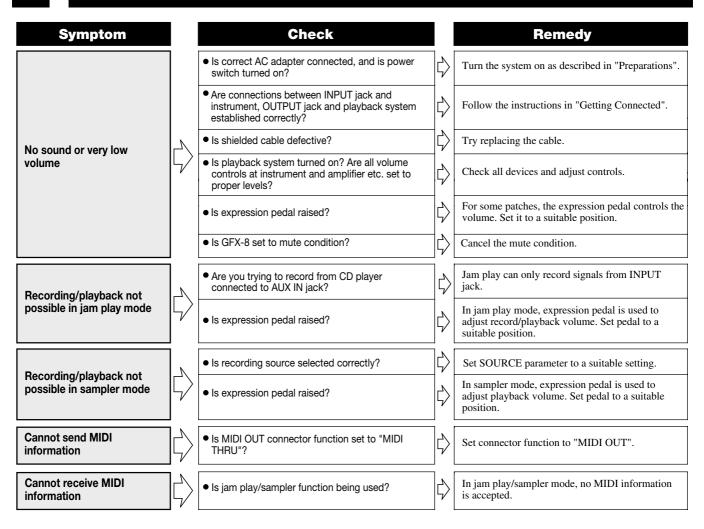
The display shows "BYP ENTR", and depending on the current setting, the indication "En" (bypass/mute function enabled) or "dS" (bypass/mute function disabled) is shown on the GROUP/BANK indicator.

2. Use the PARM VALUE knob to select the desired setting.

3. Press the STORE key.

The setting is stored and the GFX-8 switches to the play mode. If you press the CANCEL key instead of the STORE key, no change is made and the GFX-8 switches to the play mode.

Troubleshooting



GFX-8 Specifications

rams	AUX IN	Mini phone jack (stereo) (Input
		impedance: 10 kilohms)
ules		Reference input level: -10 dBm to +4 dBm
1	Outputs	Line output
Maximum recording time 25 seconds Variable playback speed		Standard monaural phone jack $x 2 =$
ty		stereo (Rated output level: +4 dBm, output load impedance: 10 kilohms or
USER: 20 banks $x 4 = 80$ (read/write)		more)
PRESET: 40 banks x 4 = 160		Headphone output
Total 240 patches		Standard stereo phone jack
40 kHz		External send
20 bit, 64 times oversampling		(Rated output level: -10 dBm, output
20 bit, 128 times oversampling		load impedance: 10 kilohms or more)
Guitar input	Control connectors	MIDI OUT , MIDI IN
Standard monaural phone jack (Rated input level: -10 dBm, input impedance:	Display	8-digit alphanumeric LED display 2-digit 7-segment LED display
470 kilohms)	Power requirements	12 V AC (from supplied AC adapter
External return		AD-0008)
Standard monaural phone jack (Rated	Dimensions	455 (W) x 203 (H) x 80 (D) mm
input level: -10 dBm, input impedance: 470 kilohms)	Weight	3.6 kg
	* 0 dBm = 0.775 Vrms	
	 ty USER: 20 banks x 4 = 80 (read/write) PRESET: 40 banks x 4 = 160 Total 240 patches 40 kHz 20 bit, 64 times oversampling 20 bit, 128 times oversampling Guitar input Standard monaural phone jack (Rated input level: -10 dBm, input impedance: 470 kilohms) External return Standard monaural phone jack (Rated input level: -10 dBm, input impedance: -10 dBm, input impedance: 	69 (67 effects + amp simulator + ZNR)ules4 + amp simulator + ZNRMaximum recording time 25 seconds Variable playback speedUSER: 20 banks x 4 = 80 (read/write)PRESET: 40 banks x 4 = 160Total 240 patches40 kHz20 bit, 64 times oversampling 20 bit, 128 times oversampling20 bit, 128 times oversampling 20 bit, 128 times oversamplingGuitar inputStandard monaural phone jack (Rated input level: -10 dBm, input impedance: 470 kilohms)External returnStandard monaural phone jack (Rated input level: -10 dBm, input impedance: 470 kilohms)Dimensions Weight

* Design and specifications subject to change without notice.

MIDI Implimentation Chart

[GUITAR EFFECT PROC Model GFX-8		ntation Chart	Date : 28.SEP.1999 Version :1.00					
Function	Transmitted	Recognized	Remarks					
Basic Default Channel Changed	1-16 1-16	1-16 1-16	Memorized					
Default Mode Messages Altered	3 x *****	3 x						
Note Number True voice	X *****	x						
Velocity Note ON Note OFF	x x	x x						
After Key's Touch Ch's	x x	x x						
Pitch Bend	x	x						
Control Change	O 0,32 1-5,7-31 (*1) 64-95 (*1) 64-95 64-95 1-5,7-31 64-95	0 0,32 7 1-5,8-31 64-95 64-95 64-95 64-95	Bank select Volume RTM control Effect module on/off Signal mute All bypass Pedal control CONTROL switch					
Prog Change True #	o (0-79) *****	o (0-127) U0.1-u9.4,A0.1-d9.4	Internally mappable Total 240 programs					
System Exclusive	0	0						
System Song Pos Song Sel Common Tune	x x x	x x x						
System Clock Real Time Commands	x x	x x						
Aux Local ON/OFF All Notes OFF Mes- Active Sense sages Reset		x x x x x						
Notes (*1) Transmits the patch default value when program changes.								
Mode 1 : OMNI ON, POI Mode 3 : OMNI OFF, POI		OMNI ON, MONO OMNI OFF, MONO	o : Yes x : No					

* The MIDI implementation is included on the supplied CD-ROM.



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