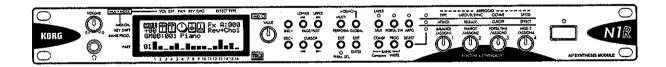
AI²SYNTHESIS MODULE







KORG

Owner's Manual

Precautions

Location

Using the unit under the following conditions can result in a malfunction.

- · In direct sunlight
- · In locations of extreme temperature or humidity
- In excessively dusty or dirty locations
- · In locations of excessive vibration

Power supply

Please connect the AC/AC power supply to an AC outlet of the correct voltage. Do not connect it to an AC outlet of voltage other than that for which your unit is intended.

Handling

To avoid breakage, do not use excessive force on the keys, switches or controls.

Care

If the exterior becomes dirty, wipe it with a clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, cleaning compounds or flammable polishes.

Interference with other electrical devices

This product contains a microcomputer. Radios and televisions placed nearby may cause reception interference. Operate this unit at a suitable distance from radios and televisions.

Keep foreign matter out of your equipment

- Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock.
- Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC/AC power supply from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

Keep this manual

After reading this manual, please keep it for future reference.

CE mark for European Harmonized Standards

CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).

Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

THE FCC REGULATION WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

Data handling

Improper usage can result in the loss of memory contents. Please be sure to save important data on an external data filer (storage device). Korg cannot accept any responsibility for any loss or damage which you may incur as a result of data loss.

LCD Display

Some pages of the manuals show LCD screens along with an explanation of functions and operations. All sound names, parameter names, and values are merely examples and may not always match the actual display you are working on.

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Introduction

Thank you for purchasing the Korg N1R AI² synthesis module. In order to enjoy long and trouble free use, please read this manual carefully and use the instrument correctly.

Features of the N1R

- The AI-squared synthesis system provides a generous 1,269 program sounds + 402 combination sounds in internal memory, covering your needs for music production and performance in any musical genre. The effect section has two independent fulldigital processors, with 48 types of effect ranging from reverb to resonance filters.
- The 144 × 40 pixel LCD features a graphic iconic interface for intuitive operation and sound editing.
- The four realtime controller knobs can be used to modify parameters. You can also create complex performance setups using the Single-channel Layer/Split function or Portamento function.
- An arpeggiator (with twenty arpeggio types) is built-in, and can be combined with the Single-channel Layer/Split function for even more powerful possibilities.
- An ample 64 notes of polyphony are provided. The PC interface allows direct connection to your computer. The N1R can be used as a 32 channel multitimbral tone generator, and is able to playback a variety of SMF (Standard MIDI Files) with GM or GS/XG compatible sound maps.

How to read this owners manual

- 1. First, read from "Front and rear panel" to "Setup." This will explain basic topics such as connections with your audio system.
- 2. Next, read "Quick start." This explains how to select sounds and play the N1R.
- 3. The structure of the N1R's modes, the function of each mode, and basic editing operations are explained in "Basic operation."
- 4. Further details on the functions of the parameters in each mode are given in the "Reference" section.
- 5. The "Appendices" at the end of the manual include the following material:
- "Control via MIDI" which explains how the N1R can be controlled by another MIDI device.
- · "Voice Name List" which provides lists of program sounds, combination sounds, drum kits, multisamples and drum samples.
- "Troubleshooting"

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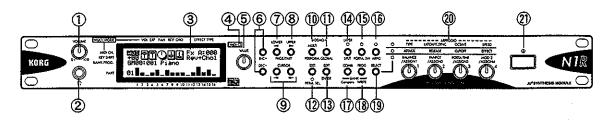
^{*} GS is a registered trademark of Roland Corporation.

* XG is a registered trademark of Yamaha Corporation.

* Other trademarks and corporate names are the registered trademarks and trademarks of their respective holders.

Front and rear panel

Front panel



(1) [VOLUME] knob

This adjusts the volume from the OUTPUT jacks and headphone jack. Rotating the knob clockwise will increase the volume.

② Headphone iack

A set of stereo headphones with a standard 1/4" plug can be connected here.

(3) LCD screen

This displays information such as the sound bank, sound name, the volume of each part, and other various parameters

(4) MIDI indicator

This will light when MIDI messages are received from either the MIDI IN or the TO HOST connector.

(5) [VALUE] knob

This is used to modify sounds and various settings. Rotating the knob clockwise will increase the value, and rotating it counterclockwise will decrease the value. This knob provides a convenient way to change a value rapidly.

6 [INC+] key, [DEC-] key

These are used to modify sounds and various settings. The value will increase by one each time the [INC+] key is pressed, and will decrease by one each time the [DEC-] key is pressed.

In Performance Play mode, you can simultaneously press the [INC+] key and [DEC-] key to access a sound list, and pressing these keys will move through the sounds in steps of ten. In Program Edit mode, you can simultaneously press the [INC+] key and [DEC-] key to cause the changes you made using the realtime controllers to be reflected in the program sound (refer to p.29).

⑦ PAGE/PART [◄] key

In Performance Play mode, this key selects the LOWER part if the Single-channel Layer/Split function is on. In Multi mode or Part Edit mode, this key returns to the previous part, and in Combination Edit mode it returns to the previous timbre.

In other Edit modes and in Global mode, this key returns to the previous page.

In Performance Play mode, this key selects the UPPER part if the Single-channel Layer/Split function is on. In Multi mode or Part Edit mode, this key advances to the next part, and in Combination Edit mode it advances to the next timbre.

In other Edit modes and in Global mode, this key advances to the next page.

⑤ CURSOR [◄] key, [►] key

These keys are used to select items in the LCD screen.

(1) [MULTI/PERFORM.] key

Each time this key is pressed, Performance Play mode and Multi mode will alternate.

(1) [GLOBAL] key

Press this to enter Global mode.

② [EXIT/PFRM.SEL.] key

Press this key when you wish to exit the current page, or to cancel an operation such as Save, etc.

In Performance Play mode, press this when you wish to change the performance (the LED will light).

(3) [EDIT/ENTER] key

Press this key to enter the corresponding Edit mode. For details on entering Edit modes, refer to p.20 "Organization and sounds of the N1R." This key is also pressed to execute operations such as Save, etc.

(4) [LAYER/SPLIT] key

This switches the Single-channel Layer/Split function in Performance Play/Edit mode. Each time you press this key, the function will cycle between Layer (LED lit)/Split (LED blinking)/Off (LED dark). In other modes, the indicator will neither light nor blink.

(§ [PORTA. SW] key

This key switches the portamento function on/off. The LED will light when portamento is on.

(6) [ARPG] key

This key turns the arpeggiator on/off. When the arpeggiator is on, the LED will blink in time to the specified arpeggio speed or to the MIDI Clock received from an external device.

(7) [COMBI/Compare] key

In Performance Play mode and Multi mode, the combination sound bank will change each time this key is pressed.

In Edit mode, pressing this key will alternate between the sound prior to editing and the currently edited sound, allowing you to compare them.

(18) [PROG/WRITE] key

In Performance Play mode and Multi mode, the program sound bank will change each time this key is pressed.

In Edit mode, pressing this key will write settings into memory (refer to p.35).

(9) [SELECT] key

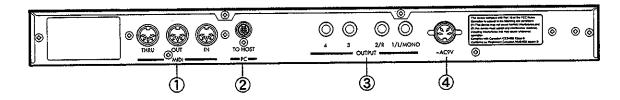
This selects one of three groups of functions for the realtime controllers.

During a performance etc., these four knobs can be used to control sounds or the arpeggiator, as specified by the [SELECT] key.

② [POWER] switch

This switch turns the power on/off.

Rear panel



1 MIDI IN, MIDI OUT, MIDI THRU

These ports allow external MIDI devices to be connected. MIDI IN receives MIDI messages. MIDI OUT transmits MIDI messages. Messages received at MIDI IN are re-transmitted without change to MIDI THRU.

② PC TO HOST

A computer can be connected to this jack. A serial cable (AG-001B/002B) allows direct connection to the comport of your personal computer to transmit and receive performance data, sound data, etc.

③ OUTPUT 1/L/MONO, 2/R, 3, 4

These connect these to your stereo amp, mixer, or multitrack recorder etc. When connecting a monaural amp, use the 1/L/MONO jack.

(4) ~AC9V (AC/AC power supply connector)
Connect the included AC/AC power supply to this port.

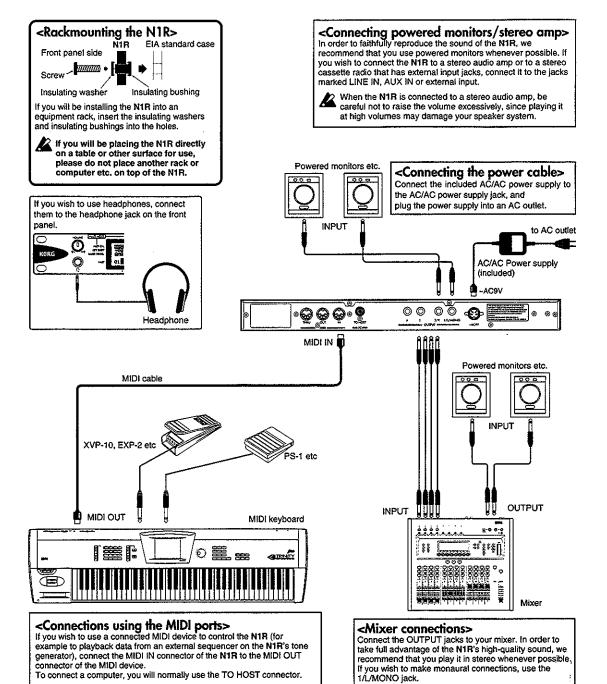
Setup

Connection to audio equipment etc.

To connect a computer, you will normally use the TO HOST connector.

By using the MIDI THRU connector, you can "daisy chain" several MIDI devices, but in order to prevent malfunctions we recommend

that you limit such connections to 2-3 devices. If you need to connect more MIDI devices than this, use a MIDI patch bay.



Connection to a MIDI keyboard

The N1R produces sound in response to MIDI messages transmitted from a MIDI device such as a MIDI

As explained in <Connections using the MIDI Connectors> on the previous page, connect the N1R's MIDI IN connector to the MIDI OUT connector of your MIDI keyboard. Then make the following MIDI transmission settings on your MIDI keyboard.

* For details on operating your MIDI keyboard, refer to the owner's manual for your MIDI keyboard.

MIDI transmit channel

♦ Set the MIDI transmit channel of your MIDI keyboard to match the MIDI channel of the N1R's Upper part.

With the factory settings, the Upper part is set to MIDI channel 1. If you wish to use Performance Play mode functions such as Single-channel Laver/Split, the realtime controllers and arpeggiator, and effect dynamic modulation, set your keyboard to match the Upper part. If you wish to play other parts, set your keyboard to match the MIDI channel of the part that you wish to play. (For details on Multi mode, refer to p.17)

♦ If the transmit channel of your MIDI keyboard is fixed or if you do not wish to change it, you can change the MIDI receive channel of the N1R.

-MIDI channel



MIDI transmit filter

Some MIDI keyboards allow you to select the types of MIDI messages they will transmit. Make these settings as necessary.

The N1R is able to receive the following types of MIDI message.

Note-on/off (note messages):

These are the most basic type of messages, used to convey keyboard performance data.

Program change:

These messages are used to select sounds.

Control change:

These messages convey controller movements such as volume and pan settings.

Pitch bend:

These messages convey pitch changes from the pitch bender (joystick, wheel, lever).

Aftertouch:

These messages add expression depending on the amount of pressure that applied to the keyboard.

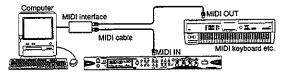
When the N1R is played, it will respond only to the MIDI messages which your MIDI keyboard transmits. For example if you are playing a MIDI keyboard (such as a digital piano) which is unable to transmit pitch bend messages, the pitch bend effect will not be available.

Connection to a computer

You can play the N1R from your computer by using either MIDI or serial interface cables to connect it to your computer.

Connection via MIDI

- ♦ To connect the N1R to a computer equipped with a MIDI interface, use MIDI cables to connect the MIDI OUT connector of your computer (MIDI interface) to the MIDI IN connector of the N1R.
- * For details on connecting your computer and MIDI interface, and on making MIDI port settings, refer to the owner's manual for your MIDI interface.



Connection to a computer via (TO HOST)

The N1R can also be played and controlled from your computer by using the included Korg MIDI Driver and a serial interface cable.

The N1R can be connected to the following computers using a special cable.

IBM PC (compatible):

Connection kit AG-001B(connection cable, Korg MIDI Driver software) [sold separately]

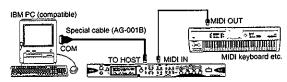
Apple Macintosh series:

Connection kit AG-002B(connection cable, Korg MIDI Driver software) [sold separately]

Connection to an IBM PC (compatible)

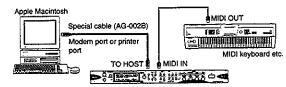
- 1) Use the special cable AG-001B[sold separately] to connect the serial port (COM port) of your IBM PC (compatible) to the TO HOST connector of the N1R.
- If the serial port of your computer uses a 25 pin connector, you will need to obtain a 9 pin-25 pin conversion adapter.
- (2) Set the Global mode <BPS Select> parameter to 38.4 kBPS (refer to "<BPS Select> setting").

③ If you are using Windows, install the Korg MIDI Driver. For the installation procedure, refer to "Korg MIDI Driver" (p.82).



Connection to an Apple Macintosh

- ① Use the serial interface cable AG-002B [sold separately] to connect the modem port or printer port of your Apple Macintosh to the TO HOST connector of the N1R.
- If the application (sequencer) which you are using has a clock setting, set it to 1 MHz.
- ② Set the Global mode <BPS Select> parameter to 31.25 kBPS (refer to "<BPS Select> setting").
- ③ If you wish to use the Korg MIDI Driver, refer to "Installing the Korg MIDI Driver for a Macintosh" (p.84).



<BPS Select> setting

This sets the rate at which data is transmitted between the computer and the N1R.

Note that the setting will depend on the type of computer that is connected.

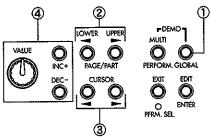
- 1) Press the [GLOBAL] key to enter Global mode.
- ② Use the PAGE/PART[◄][►] keys to select <HARD-WARE>.
- ③ Use the CURSOR[◄][▶] keys to select <BPS Select>.



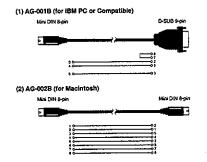
4 Use the [INC+][DEC-] keys or the [VALUE] knob to select the appropriate data transmission rate setting for the type of computer that is connected.

If an Apple Macintosh is connected, set this to 31.25 kBPS.

If an IBM PC (compatible) is connected, set this to 38.4 kBPS.

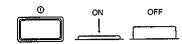


Wiring diagram of the serial interface cables



Turning the power on/off

① Press the [POWER] switch of the **N1R** to turn the power on.



② Turn on the power of your powered monitored speakers or stereo amp.

When the N1R's power is turned on, a start display will appear for several seconds, and then the Performance Play mode display will appear.

When you press the [POWER] switch once again, the N1R's power will be turned off. Before turning off the N1R, turn off the power of your powered monitor speakers or stereo amp.

Adjusting the volume

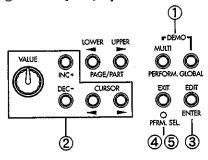
Raise the [VOLUME] knob to adjust the volume to an appropriate level. The headphone volume is also adjusted by the [VOLUME] knob.

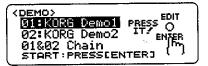


Listening to the demo songs

Let's listen to the built-in demo songs. This will also help to verify that your audio equipment is set up correctly. The N1R contains 2 demo songs. Listen to the demo songs to hear the rich variety of sounds and expressive potential offered by the N1R.

- ① Simultaneously press the [GLOBAL] key and [MULTI/PERFORM] key to enter demonstration mode.
- ② Use either the [VALUE] knob or the CURSOR [◄][►] keys, the [INC+][DEC-] keys to select a demo song.
- ③ Press the [EDIT/ENTER] key, and after a short wait the demo song will begin playback.
- ④ To halt playback, press the [EXIT] key.
- ⑤ Press the [EXIT] key to exit demonstration mode.





Demo songs @1998 KORG Inc. — all rights reserved.

Quick start



Performance Play mode

Playing from a MIDI keyboard

When you wish to play the N1R from a MIDI keyboard and take advantage of performance functions such as its realtime controllers or arpeggiator, you should use Performance Play mode. The following section explains how to use Performance Play mode.

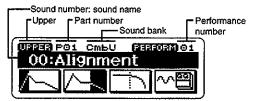
(When you wish to simultaneously playback multiple parts, such as when playing back a GM score on your computer/sequencer, you will normally use Multi mode.)

1. Listening to various sounds

① Press the [MULTI/PERFORM.] key to enter Performance Play mode.

You can switch between Performance Play mode and Multi mode by pressing the [MULTI/PER-FORM.] key.

An example of the screen display in Performance Play mode

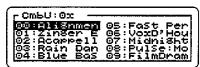


Select the sound number

- ② Use the CURSOR[◀][▶] keys to select Sound number: Sound name.
- ③ Use the [INC+][DEC-] keys or the [VALUE] knob to select a sound. At this time, the sound number: sound name will change in steps of ±1 (refer to "Voice Name List").

By simultaneously pressing the [INC+] and [DEC-] keys, you can view the sound list in units of ten sounds.

In this case, the [INC+][DEC-] keys will change the sound number: sound name in steps of ± 10 , and rotating the [VALUE] knob will change it in steps of

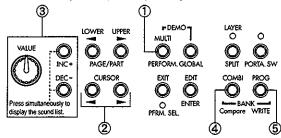


Simultaneously press the [INC+][DEC-] keys once again to return to the normal display.

Select the sound bank

(4) Each time you press the BANK [COMBI] key, the combination sound bank will alternate in the following order: CmbU→CmbA→CmbB→CmbC.

(5) Each time you press the BANK [PROG] key, the program sound bank will alternate in the fllowing order: PrgU→PrgA→PrgB→PrgC.



♦ You can also use the CURSOR[◄][►] keys to select the sound bank, and use the [INC+][DEC-] keys or the [VALUE] knob to select other banks. However, these sound banks are intended mainly for playback of GM scores etc. (refer to p.20).

2. Selecting a performance

A performance refers to a set of settings that specify a sound for each part 1–16 including the Upper and Lower parts, and the settings of the [LAYER/SPLIT] key, the [PORTA.SW] key, the realtime controller knobs, and effect and arpeggiator settings (refer to p.21). Internal memory contains 32 sets of this data.

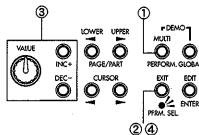
① Press the [MULTI/PERFORM.] key to select Performance Play mode.

You will alternate between Performance Play mode and Multi mode each time you press the [MULTI/ PERFORM.] key.

- ② Press the [PFRM.SEL.] key to make the LED light. Now you can select a performance number.
- ③ Use either the [INC+][DEC-] keys or the [VALUE] knob to select a performance (1-32) (refer to "Voice Name List").

For example if you select performance #3 and play the C2 note of the Lower part (i.e., when the N1R receives this note number), an arpeggiated drum pattern and bass pattern will begin to play. You can play along with this in the Upper part using an

4 Press the [PRFM.SEL.] key once again to make the LED go dark, and you will again be able to select sound numbers.



* These settings can be stored in a performance (refer

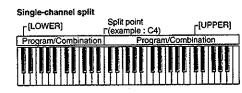
3. Using Single-channel Layer/Split and Portamento

Using the [LAYER/SPLIT] key

In Performance Play mode, you can use single-channel layers in which playing a single note (receiving a single note number) will simultaneously sound the [UPPER] and [LOWER] program/combination sounds, or single-channel splits in which the [UPPER] and [LOWER] program/combination sounds will be sounded in different halves of the keyboard divided at the key (note number) that you specify.

These can be selected by pressing the [LAYER/SPLIT] key.

Single-channel layer



- As explained later in this manual, it is also possible to create layers and splits as Combination sounds, and this allows you to use a greater number of sounds etc. (refer to p.25).
- 1) Press the [MULTI/PERFORM.] key to enter Performance Play mode.

You will alternate between Performance Play mode and Multi mode each time you press the [MULTI/ PERFORM.] key.

(2) Press the [LAYER/SPLIT] key to select either singlechannel layer or split.

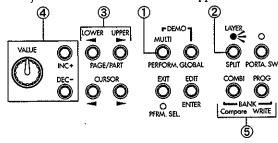
Each time you press this key, you will cycle from laver (LED lit) → split (LED blinking) → off (LED

An example of the screen display for single-channel layer/split



- Selecting the sound number/bank
- ③ Use the LOWER[◀] and UPPER[▶] keys to select the sound that you wish to change.
- (4) Use either the [INC+][DEC-] keys or the [VALUE] knob to change the sound.
- (5) You can change the bank by pressing the BANK [PROG] or [COMB] key. The bank will change each time the button is pressed.
- · You can press the [SELECT] key to make the third LED light, and use the realtime controller [BAL-

ANCE/ASSIGN1] (1) knob to adjust the volume balance between the Upper part and the Lower part. On the factory set performances, you can use the realtime controller [BALANCE/ASSIGN1] (1) knob to adjust the volume balance between Upper and Lower.



- Single-channel Layer/Split is valid in Performance Play/Edit modes when the Global mode <Singlechannel Layer/Split> setting is turned ON.
- Changing the split point

The location at which the sounds of the Upper part and the Lower part are divided on the keyboard is called the "split point," and this can be changed in Performance Edit mode <Split point> (refer to p.22,

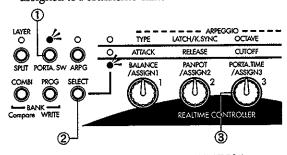
Applying a damper pedal effect to the Upper part or Lower part

In Performance Edit mode < Damper Assign> (refer to p.39), you can apply a damper effect to the Upper part and Lower part independently.

Using the [PORTAMENTO] key

You can apply a portamento effect to make the pitch change smoothly from one note to the next.

- (1) To turn on the portamento effect, press the [PORTA.SW] key to make the LED light. The effect will alternate on/off each time the switch is pressed.
- · If you press the [SELECT] key to make the third LED light, you can use the realtime controller [PORTA.TIME/ASSIGN3] (3) knob to modify the portamento time (the time over which the pitch changes to the next note) as you play. With the factory performance settings, the realtime controller [PORTA.TIME/ASSIGN3] (3) knob is assigned to Portamento Time.



- * The [LAYER/SPLIT] and [PORTAMENTO] functions can be stored as part of a performance (refer to
- When the [LAYER/SPLIT] key is on, the realtime controllers and [PORTA.SW] etc. will apply to either the Upper or the Lower part, whichever sound name is selected. ((c) BALANCE is an exception.)

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4. Using the Realtime Controllers to modify the sound

The N1R provides four knobs which let you control the pitch, tone, and volume in realtime.

① Press the [SELECT] key (the LED will light) to select the functions which the knobs will control.

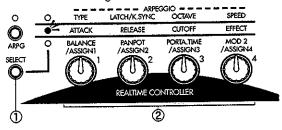
The functions of the four knobs will change each time you press the [SELECT] key. The row of functions indicated by the LED will be active.

(a)	TYPE	LATCHKSYNC	OCTAVE	SPEED
(b)	ATTACK	RELEASE	CUTOFF	EFFECT
(c)	BALANCE/ ASSIGN 1	PANPOT/ ASSIGN 2	PORTA.TIME ASSIGN 3	MOD.2 ASSIGN 4

Here, we will explain functions (b) and (c). For details on functions (a), refer to the next section "5. Turning the arpeggiator on/off."

② Rotate each knob to adjust the corresponding function.

Rotating the knob to left or right will decrease or increase the setting.



(b) ATTACK

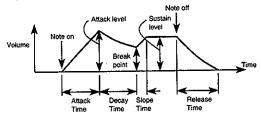
This affects the brightness (VDF) and volume (VDA) of the beginning of the sound.

Rotating the [ATTACK] knob will change the time over which the VDF/VDA changes from key-on (when a note is pressed) until the attack level is reached. Normally, rotating the knob toward the right will slow the attack, and rotating it toward the left will sharpen the attack (refer to p.72).

(b) RELEASE

This affects the brightness (VDF) and volume (VDA) of the sound when it decays after the note is released.

Rotating the [RELEASE] knob will change the time over which the sound decays after the note is released (the release time). Normally, rotating the knob toward the right will length the release time, and rotating it toward the left will shorten the release time (refer to p.72).



(b) CUTOFF

This adjusts the VDF cutoff frequency (VDF Filter Cutoff) to control the brightness of the sound.

Rotating the [CUTOFF] knob will increase or decrease the VCF cutoff frequency value (refer to <Cutoff Frequency> p.75), changing the brightness of the sound. Normally, rotating the knob toward the right will brighten the tone, and rotating it toward the left will darken the tone.

(b) EFFECT

This controls Effect Dynamic Modulation. The result will depend on the effect that is selected for each sound.

(c) BALANCE

This adjusts the volume balance for the sounds of the Upper part and Lower part.

If this is set to Lower when the Single-channel Layer/Split function is not on, you will hear no sound.

(c) PANPOT

Adjusts the stereo location for the sound of the Upper or Lower part (refer to <Panpot> p.71).

(c) PORTA. TIME

Adjusts the portamento time (refer to <Portamento Time> p.76).

(c) MOD 2

The effect specified by the Part Edit mode item Mod parameter MOD.2. See <Part Pitch Bend Range> p.73 - <Part VDA LFO Depth> p.74.

(c) ASSIGN 1-4

For details on the parameters which can be assigned to each knob and their functions, refer to p.40. With the factory settings, the above parameters will be assigned.

- * When you are playing in Performance Play mode or Multi mode, and wish to control a different part, use the PAGE/PART[◄][►] keys to change parts.
- * The settings of these controllers is memorized for each performance (refer to p.23).
- When the [LAYER/SPLIT] key is on, the effect (with the exception of (c) BALANCE) will apply to the Upper or Lower part selected by the cursor.
- ⚠ Operating the realtime controllers will edit the Part parameters. The program/combination sound itself will not be edited.
- If after moving the four knobs in Performance Play mode, you want your changes to be reflected in the program sound, enter Program Edit mode and immediately press both the [INC+] and [DEC-] keys simultaneously.

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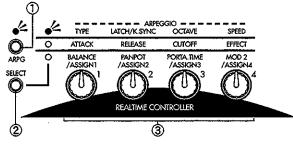
5. Turning the arpeggiator on/off

The arpeggiator of the $\bf N1R$ contains 20 preset arpeggio patterns.

You can specify the octave, velocity, and groove etc. for the arpeggio notes, to produce a wide range of variations. You can also make the arpeggio play in only the Upper or Lower part when the [LAYER/SPLIT] key is on.

① Press the [ARPG] key to turn on the arpeggiator (the LED will blink). Now play a connected external keyboard (i.e., transmit note-on messages), and an arpeggio will begin playing automatically.

Press the [ARPG] key once again to make the LED go dark and turn off the arpeggiator.



- ② To modify various settings of the arpeggiator, press the [SELECT] key to make the (a) row LED light.
- 3 Rotate the knobs to modify the following functions.

(a) TYPE

Selects the type of arpeggio. Twenty different arpeggio patterns are available.

(a) LATCH/K.SYNC

Selects how the arpeggiator will operate. As you rotate the knob from left to right, the selection will change from OFF->LATCH->K.SYNC->L+K.S. With a setting of LATCH or L+K.S, the arpeggio will continue playing even after you release the note. With a setting of K.SYNC or L+K.S, the KEY-SYNC function will operate, causing the arpeggio to be re-started each time the external keyboard is played.

(a) OCTAVE

Specifies the octave range over which the arpeggio will be played.

The arpeggio can be played over a range of 1-4 octaves.

(a) SPEED

Adjusts the tempo of the arpeggio as desired.

- * The arpeggio can also be synchronized to an external MIDI clock (refer to p.76).
- Making the arpeggio play notes in the order in which keys (note-on messages) were pressed The Performance Edit mode parameter <Arpeggio Sort> (refer to p.42) lets you make the notes of the arpeggio sound in the order in which they were played, or in ascending order of pitch.

Varying the arpeggio pattern

The Performance Edit mode <Arpeggio Step Base>, <Arpeggio Velocity>, <Arpeggio Gate> and <Arpeggio Swing> parameters allow you to modify the interval of the steps, the velocity and duration of the arpeggio notes, and the feeling of "groove." This allows you to produce a wide variety of arpeggios (refer to p.41).

Using the arpeggiator with the Upper part or Lower part when the [LAYER/SPLIT] key is on By editing the Performance Edit mode <Arpeggio Zone> parameter, you can specify whether the arpeggio will be played only in the Upper or Lower part, or in both parts (refer to p.42).

Quick sta

6. Performance-related settings

The process of modifying settings in the various Edit modes is referred to as editing. For editing procedure, refer to the following section "Basic operation."

Tuning to another instrument Transposing

If you wish to play the **N1R** together with another instrument, or to play along with music from a CD or tape, you may need to adjust the pitch of the **N1R** to match the other instruments or music. This is referred to as **tuning**, and is done by adjusting the Global mode <Master Tune> parameter (refer to p.76). The pitch can be adjusted over a range of -100 cents (semitone downward) to +100 cents (semitone upward).

The pitch can also be adjusted in semitone steps, and this is referred to as transposing. If you wish to transpose the entire N1R, adjust the Global mode <Master Key Shift> parameter (refer to p.76). If you wish to transpose an individual part, adjust the Multi mode <Key Shift> parameter (refer to p.71). In either case, you can transpose over a range of -24 (two octaves downward) to +24 (two octaves upward). The Upper and Lower parts can be transposed in one-octave steps over a range of two octaves upward or downward, by adjusting the Performance Edit mode <Performance Octave> parameter.

- ① Press the [GLOBAL] key to enter Global mode.
- ② Use the PAGE/PART[◀][▶] keys to select the <GLOBAL-MASTER> page.
- ③ Use the CURSOR[◄][►] keys to move the cursor (highlighted area), and select <Master Tune> if you wish to adjust the tuning, or <Master Key Shift> if you wish to transpose the entire N1R.
- ④ Use the [VALUE] knob or the [INC+][DEC-] keys to adjust the pitch.

Transposing individual parts

- (1) Press the [MULTI/PERFORM.] key to enter Multi mode.
- Performance Play mode and Multi mode will alternate each time you press the [MULTI/PERFORM.] key.
- ② Use the PAGE/PART[◄][►] keys to select the part that you wish to transpose.
- ③ Use the CURSOR[◄][►] keys to move the cursor to select <Key Shift>.
- 4 Use the [VALUE] knob or the [INC+][DEC-] keys to modify the pitch.

Bypassing the effects

In Performance Play mode (or in Multi mode), you can temporarily apply or bypass the effects.

- In Performance Play mode, press the [EDIT] key to access the <Edit Menu>, and then use the CUR-SOR[◄][►] keys to select Perform. Then press the [EDIT] key to enter Performance Edit mode.
- ② Use the PAGE/PART[◀][▶] keys to select the <PERFORM-COMMON1> page.
- ③ Use the CURSOR[◄][►] keys to move the cursor to <Effect Thru Switch>.
- ④ Use the [VALUE] knob or the [INC+] key to select Thru, or press the [DEC-] key to apply the effect.

Specifying the pitch bend range

You can specify the pitch bend range of each part. This allows you to simulate techniques such as "bending" strings on an electric guitar. For example when the Single-channel Layer/Split function is on, and you are playing a piano sound in the Upper part and a bass sound in the Lower part, you can make settings so that pitch bending affects only the lower part.

If you wish to change the range of pitch bend, modify the settings of the Part Edit mode <Part Pitch Bend Range> parameter (refer to p.73) or the Program Edit mode PITCH LFO <Pitch Bend Range> parameter (refer to p.48). For a combination sound, you can set <Receive Pitch Bend> (refer to p.44) to disable reception of pitch bend messages.

Changing the velocity curve

You can select one of eight types of curve to specify how key velocity will affect the dynamics (refer to p.77).

Changing the aftertouch curve

You can select one of eight types of curve to specify how aftertouch will be applied (refer to p.78).

Creating an original scale

You can create your own original scale and play using that scale. Part Edit mode <Scale Tuning> (refer to p.73).

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Multi mode

Playing the N1R from a computer/ sequencer

When you wish to simultaneously playback multiple parts, such as when playing a GM score etc. from your computer/sequencer, you will normally use Multi mode. This section provides a simple explanation of Multi mode operation.

* For details on control via MIDI, refer to "Control using MIDI" and "MIDI messages."

The N1R can be used as a multi-timbral tone generator with a total of 32 channels (16 channels each for A and B). It provides 32 parts, and a different program sound or combination sound can be assigned to each part. On the N1R, a part is analogous to a musician in a band. The N1R has 32 parts, meaning that you can simulate an ensemble of up to 32 musicians. For example, part 1 might be assigned to play a piano, part 2 a bass, part 3 a trumpet and so on.

The volume and pan etc. can be adjusted independently for each part. In addition, you can adjust the sound in Part Edit mode by modifying the EG or modulation settings (refer to p.34, p.72).

1. Playing in Multi mode

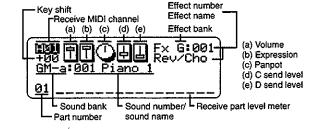
① Press the [MULTI/PERFORM.] key to enter Multimode

Performance Play mode and Multi mode will alternate each time the [MULTI/PERFORM.] key is pressed.

For parts 1–16, the settings of the currently selected performance will be in effect. For the parameters which are affected, refer to p.21.

* When a SysEx message such as GM System On, XG System On, or GS Reset is received, the N1R will automatically switch to Multi mode.

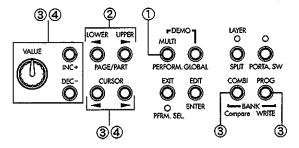
An example of the Multi mode display screen



In Multi mode, the playing status of each of the 32 parts is shown in the LCD. When the N1R is producing sound in response to musical data received from an external device, the indicator for the corresponding part will move like a level meter.

If you press the [EXIT/PFRM.SEL.] key, the display will indicate DISP, and you can view the volume and panpot settings etc. for each part.

- ② Use the PAGE/PART[◀][▶] keys to select a part.
- ③ Use the CURSOR[◄][►] keys to select the sound number or sound bank, and use the [INC+][DEC-] keys or [VALUE] dial to select the sound. The bank can also be switched by pressing the BANK [COMBI] or [PROG] keys.
- ④ Use the CURSOR[◄][►] keys to select the Receive MIDI channel, Key Shift (transposition), Volume, Panpot, or Effect, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the values.



2. Controlling parts from your computer/sequencer

MIDI transmit/receive channel

Set the MIDI transmit channel of your computer/
sequencer to match the <Receive MIDI channel> of the
N1R part that you wish to play. For the first 16 parts in
the N1R, the MIDI channel and part number correspond with each other (for example, part 2 is MIDI
channel 2, part 10 is MIDI channel 10). In Multi mode,
it is not possible to use the Single-channel Layer/Split
function. MIDI messages such as control changes will
affect only the parts that are receiving the channel on
which these messages are transmitted. However, effect
dynamic modulation will be received on the channel
specified by the Global mode setting <Exclusive Channel>. Also, the arpeggiator will operate when it
receives note-on messages on the MIDI channel for the
part specified by the <Arpeggio Zone> setting (p.42).

When you operate the control knobs of the realtime controller, messages will be transmitted on the MIDI channel of the currently selected part. Output from the arpeggiator will be transmitted on the MIDI channel of the part that is being played.

System exclusive messages are transmitted and received on the <Exclusive Channel>.

Selecting the sound number of a part

To select the sound number of a part from your computer/sequencer, transmit a program change message on the MIDI channel for the corresponding part.

To change the bank, you will have to transmit control change #0 and 32 bank select messages. The N1R will not change the program/combination sound immediately when a bank select message is received. The program/combination sound of the specified bank will be selected when the program change message is received following the bank select message.

Transmit bank select [Bn, 00, mm] (control change #00) and [Bn, 20, bb] (control change #32) (mm: upper byte of the bank number, bb: lower byte of the bank number) and program change [Cn, pp] (pp: program/combination number).

Bank	MIDI bank select and value	
	#0:#32	#0:#32
CmbU	88:00	(58h:00h)
CmbA	89:00	(59h:00h)
CmbB	90:00	(5Ah:00h)
CmbC	91:00	(5Bh:00h)
PrgU	80:00	(50h:00h)
PrgA	81:00	(51h:00h)
PrgB	82:00	(52h:00h)
PrgC	83:00	(53h:00h)
GM-b	56:00	(38h:00h)
ySFX	64:00	(40h:00h)
kDrm	62:00	(3Eh:00h)
GM-a / PrgU	00:00	(00h:00h)*
rDrm or yDrm / KDrm	120:00	(78h:00h)*

* This will depend on whether the Global mode <Bank Map Type> is set to Default or to 05R/W (refer to p.77).

These are program numbers used to select drum programs within the drum program bank. Here we will discuss **KDrm**.

Drum program	Program number	
GM Kit	1-16, 57-64,	75-128
	(00h-0Fh, 38	h-3Fh, 4Ah-7Fh)
Power Kit	17-24	(10h–17h) ´
Dance Kit	25, 27-32	(18h, 1Ah-1Fh)
Analog Kit	26	(19h) ´
Jazz Kit	33-40	(20h-27h)
Brush Kit	4148	(28h-2Fh)
Orch Kit	49-56	(30h-37h)
Perc Kit	65-72	(40h-47h)
User Kit 1	73	(48h)
User Kit 2	74	(49h)

* The functionality for transmitting and specifying bank select and program numbers will differ depending on your sequencer or sequencer software. Refer to the owner's manual for your sequencer or sequencer software for details on operation

Selecting a performance

To select a different performance (01–32) from your computer/sequencer, transmit bank select and program change messages in the same way as when selecting a program/combination sound. However, the LSB will be ignored. These messages must be transmitted on the MIDI channel specified by the <Exclusive Channel> parameter.

Transmit bank select [Bn, 00, 5F] (control change #00) and program change [Cn, pp] (pp:00–1F, performance 01–32).

Program change

Various playing settings

By transmitting control change, RPN, and NRPN messages from your computer/sequencer, you can adjust playing settings such as the volume and pan of each part. Also, Part Edit mode allows you to adjust EG or modulation to modify the sound, and these settings can also be changed via exclusive messages. For details refer to p.86 "Control using MIDI," p.91 "MIDI messages," and p.119 "MIDI implementation chart."

Control from your computer/sequencer in Performance Play mode

As with Multi mode, Performance Play mode lets you use 32 part playback. As with Multi mode, you can use MIDI to control the sound. In addition, any two parts (1–16) can be selected in Performance Play mode as the <Lower Part Number> and the <Upper Part Number>, and played from your keyboard.

This allows you to playback 30 parts from your computer/sequencer as accompaniment, and play two parts with Single-channel Layer/Split from your keyboard.

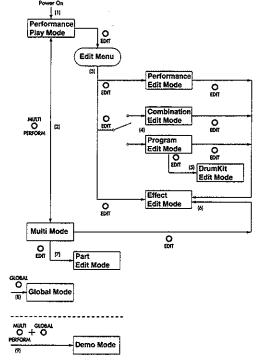
Basic operation

Basic operatia

Organization and sounds of the N1R

Organization of the N1R

On the N1R, a group of related functions is collectively referred to as a "mode." The functions of the N1R are organized into ten modes as shown in the following diagram.



You can move between modes as follows.

- When the power is turned on, you will be in Performance Play mode.
- ② In Performance Play mode, pressing the [MULTI/ PERFORM.] key will select Multi mode. Each time you press the [MULTI/PERFORM.] key, you will alternate between Performance Play mode and Multi mode.
- ③ In Performance Play mode, pressing the [EDIT/ENTER] key will display the Edit menu. Use the CURSOR[◄][►] keys to select the desired Edit mode (Performance Edit mode, Combination Edit mode/Program Edit mode, Effect Edit mode), and press the [EDIT/ENTER] key to access the selected mode.
- (4) To access Combination Edit mode, select a combination sound in Performance Play mode, select the Combi icon in the Edit menu of paragraph (3), and press the [EDIT/ENTER] key. Similarly, you can access Program Edit mode by selecting a program sound in Performance Play mode, selecting the Program icon in the Edit menu of paragraph (3), and pressing the [EDIT/ENTER] key.

- (5) To select **Drumkit Edit mode**, set the Oscillator Mode to **DRUMS** in Program Edit mode, and press the [EDIT/ENTER] key.
- ⑥ In addition to using the procedure described in paragraph (3), Effect Edit mode can also be accessed by pressing the [EDIT/ENTER] key at the <Effect Bank/Number> of Performance Edit mode, Combination Edit mode, Program Edit mode or Multi mode.
- ② In Multi mode, press the [EDIT/ENTER] key to select Part Edit mode.
- ® Press the [GLOBAL] key to select Global mode.
- ③ Simultaneously press the [MULTI/PERFORM.] key and the [GLOBAL] key to select Demo mode.

The modes and sounds of the N1R

Performance Play mode and Multi mode are the modes which you will use when connecting a MIDI keyboard or computer/sequencer to play the N1R. In these two modes, you can play Program sounds or Combination sounds. These sounds are stored in several banks. These sounds can be edited in Combination Edit mode or Program Edit mode respectively, to create the sounds you want. Program sounds can be further classified into conventional sounds such as piano, organ, or brass, and drum programs. The drumkits, which are the basis of drum programs, can be edited in Drumkit Edit mode.

Performance Edit mode lets you edit the function assignments of realtime controllers and performance functions such as the arpeggiator. Effect Edit mode allows you to edit the effects which are used by program/combination sounds and in a performance. Part Edit mode allows you to temporarily modify the sounds that will be used to playback song data of various formats in Multi mode, without rewriting the actual program/combination sounds themselves. Some of these settings can be saved as part of a performance. Global mode allows you to save N1R data on an external device, or to adjust the tuning etc.

Bank names and their contents

The N1R contains the program, combination and drumkit banks shown below. The program names etc. in each bank are listed in "Voice name list."

Bank	Remark
CmbU	Combination sounds: user bank (rewritable)
CmbA	Combination sounds: bank A
CmbB	Combination sounds: bank B
CmbC	Combination sounds: bank C
PrgU	Program sounds; user bank (rewritable)
PrgA	Program sounds; bank A
PrgB	Program sounds: bank B
PrgC	Program sounds: bank C
GM-a	GS sounds and basic GM sounds for XG
r:01r:40	GM variation sounds for GS
r:CM	CM-64 (Roland) sounds
y:01y:101	GM variation sounds for XG
ySFX	SFX sounds for XG
GM-b	05R/W sounds, basic GM sounds for X5 series
yDr1	SFX drum bank for XG
yDr2	Normal drum bank for XG
rDrm	Drum bank for GS
kDrm	05R/W, X5 series drum bank
****	silent sounds

Of these banks; only PrgU and CmbU are rewritable. Other banks are in ROM (Read Only Memory), and any modified ROM sounds can only be saved in either the PrgU or CmbU banks.

1. Performance Play mode

This mode is used mainly for playing program sounds or combination sounds while taking advantage of performance functions such as the realtime controllers, single-channel layer/split, portamento, and the arpeggiator.

As with Multi mode, backing parts can be pressed simultaneously from your computer.

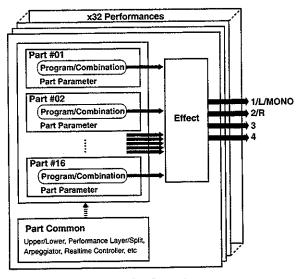
How a performance is organized

A performance consists of a set of 16 parts (the first half of the 32 parts of Multi mode), and contains Part Parameter data which specifies the sound bank/number, volume and panpot etc. for each part, and Part Common data which applies to all parts (assignments for the four realtime controller knobs, single-channel layer/split, the arpeggiator, and effects).

The N1R's internal memory contains 32 of these performances.

Edited data	Editing location
Part parameters for 16 parts	Part edit (refer to Multi mode, Part edit mode, and "Part parameter change" in the appendix)
Effect parameters (1 effect)	Effect edit in Multi, Effect Edit in Performance (Internally, the same effect data is used for Multi and for Performance)
Master volume, Master key shift	Performance edit (Performance Edit mode)
Single Ch. Layer/Split condition	Panel switches
Part number for upper/ lower parts	Performance play (Performance Play mode)
Upper and lower level bal- ance	Control knobs
Split point for when single Ch. split is used	Performance edit (Performance Edit mode)
Control knob/pedal assignments	Performance edit (Performance Edit mode)
Select key status	Panel switches
All arpeggiator parame- ters	Panel switches + Performance edit (Performance Edit mode)
Portamento on/off status	Panel switches

- Each performance that you save consists of the above data. 32 performances can be saved in internal memory.
- Part parameters for parts 17–32 and Modify Drum parameters are not remebered (refer to <Part Mode> p.75).



Part Parameter Bank No., Prog No., Volume, Panpot, etc.

Basic operation in Performance Play

This mode will be selected when the power is turned on.

- ① From any mode other than Performance Play mode, you can press the [MULTI/PERFORM.] key to enter Performance Play mode.
- Each time you press this key, you will alternate between Performance Play mode and Multi mode.
- ② Use the CURSOR[◀][▶] keys to select the desired parameter.
- ③ Use the [VALUE] knob or the [INC+][DEC-] keys to modify the value.
- ④ For other operations, refer to "Quick start."

 In the case of single-channel layer/





If you want the results of moving the four knobs in Performance Play mode to be applied to the program sound that you edit, enter Program Edit mode and immediately press both the [INC+] and [DEC-] keys (p.29).

asic operatio

2. Performance Edit mode

Here, you can assign functions to the four realtime controller knobs for use in Performance Play mode, and make settings for single-channel layer/split and the arpeggiator.

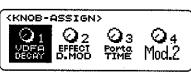
Basic operation in Performance Edit mode

- ① Press the [MULTI/PERFORM.] key to select Performance Play mode. Each time you press the [MULTI/PERFORM.] key, you will alternate between Performance Play mode and Multi mode.
- ② Press the [PFRM.SEL.] key to make the LED light, and use the [VALUE] knob or the [INC+][DEC-] keys to select the performance that you wish to edit.
- ③ Press the [EDIT/ENTER] key to access the <Edit Menu> display.
- ④ Use the CURSOR[◄][►] keys to select Perform, and press the [EDIT/ENTER] key.
- ⑤ Use the PAGE/PART[◄][►] keys to select the desired page, and use the CURSOR[◄][►] keys to select the desired parameter.
- ⑤ Use the [VALUE] knob or the [INC+][DEC-] keys to modify the value of the parameter.

For details on the function of each parameter, refer to the Reference section "3. Performance Edit mode."

Realtime controller assignments

- (1) As described in "Basic operation in Performance Edit mode," select the performance that you wish to edit, and enter Performance Edit mode.
- ② Use the PAGE/PART[◄][►] keys to select <KNOB-ASSIGN>, and press the CURSOR[◄] key to select <Control knob #1 Type>.



- ③ In this example, we will select VDFA DECAY. Use the [VALUE] knob or the [INC+][DEC-] keys to select this.
- ④ Press the CURSOR[►] key to select <Control knob #2 Type>. Then use the [VALUE] knob or the [INC+][DEC-] keys to select EFFECT D.MOD.
- (5) Use the realtime controller [SELECT] key to make the third LED light. While playing your keyboard, rotate [control knob #1] to modify the EG Decay Time, and rotate [control knob #2] to modify the effect modulation depth.

(§) If you wish to save the changes you made, execute the Write operation (p.23, p.35) to store the performance. This will save the changes produced by the location of the knobs as well as the position of the [SELECT] key. With the factory settings, the frequently used [BALANCE], [PANPOT], [PORTA.TIME] and [MOD2] are assigned.

Setting the upper/lower parts and split point

Here's how to specify the Upper and Lower parts which will be used when single-channel layer/split is used. You can also specify the split point (note number) at which the Upper part and Lower part will be divided on the keyboard when single-channel split is used.

- As described in "Basic operation in Performance Edit mode," select the performance that you wish to edit.
- ② Press the [LAYER/SPLIT] key to select either singlechannel layer or split.
 Each time you press the [LAYER/SPLIT] key, you will cycle between Layer (LED lit) → Split (LED

blinking) \rightarrow off (LED dark).

- ③ Press the CURSOR[◄] key to select the UPPER "part number," and use the [VALUE] knob or the [INC+][DEC-] keys to select the part number that you wish to use as the Upper part. Next, press the CURSOR[▶] key to select "sound bank" and "sound number:sound name" respectively, and use the [VALUE] knob or the [INC+][DEC-] keys to select the sound bank and sound name that you wish to use for the Upper part.
- ④ In the same way, press the CURSOR[►] key to select the LOWER "part number," and select the sound bank and sound name.
- ⑤ Press the PAGE/PART[►] key to move to Upper, and enter Performance Edit mode as described in "Basic operation in Performance Edit mode."
- ⑤ Use the PAGE/PART[◄][►] keys to select <PER-FORM COMMON 2>.

(PERFORM-COMMON 2)

UBBER:01 OCTAVE :+00

LOWER:02 S.POINT:C 4

UUUUUUUUUUU

- Tou will see that the part numbers you specified in steps 3 and 4 are selected. If you wish to change the part numbers for the Upper/Lower parts, you can also do so here.
- ® Next, use the CURSOR[◄][►] keys to select <Split Point>, and specify the key (note number) at which the Upper and Lower parts will be divided when single-channel split is used. The note number specified here and all higher notes will play the Upper sound. You can also set the split point by holding down the [EDIT/ENTER] key and playing a note on

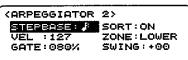
(PERFORM-COMMON 2)
UPPER:01 OCTAVE:+00
LOWER:02 E.FOINT:04

(9) If you wish to save the Upper/Lower part numbers and the split point setting, execute the Write operation (p.23, p.35) to store the performance. When this is done, the on/off status of the [LAYER/SPLIT] key will also be remembered.

Arpeggiator settings

- ① As described in "Basic operation in Performance Edit mode," select the performance that you wish to edit, and enter Performance Edit mode.
- ② Use the PAGE/PART[◀][▶] keys to select <ARPEGGIATOR 1> or <ARPEGGIATOR 2>, and use the CURSOR[◀][▶] keys to select the parameter that you wish to edit. (refer to p.41)





- ③ Press the [ARPG] key to turn it on (lit), and use the [VALUE] knob or the [INC+][DEC-] keys to modify the value of the selected parameter.
- ④ If you wish to save your settings, execute the Write operation (p.23, p.35) to store the performance. When this is done, the on/off status of the [ARPG] key will also be remembered.

Effect settings

The sound of each part in a performance is routed through two independent digital multi-effect units before being sent from the stereo (and 3 and 4) outputs.

- ① As described in "Basic operation in Performance Edit mode," select the performance that you wish to edit, and enter Performance Edit mode.
- ② Use the PAGE/PART[◄][►] keys to select <PER-FORM-COMMON 1>.
- ③ Use the CURSOR[◄][►] keys to select <Effect Bank Select> or <Effect Number Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the bank and effect number of the desired effect program.

 ④ If you wish to modify the parameter values of the selected effect, press the [EDIT/ENTER] key to enter Effect Edit mode.

For details on editing procedure in Effect Edit mode, refer to "Effect editing."

- If, after you finish editing, you wish to save the edited effect within the performance, press the [EXIT] key twice (without saving in Effect Edit mode) to return to Performance Edit mode. Then execute the Write operation.
- It is also possible to specify the panning (A, B) at which each part will be input to the effects, and the send amount (effect send C and D). These settings are made in Multi mode (refer to p.71).

Setting other part parameters

If part parameters intended for a performance have been edited outside of Performance Edit mode (refer to the table "Editing location" p.21), you can enter Performance Edit mode or Part Edit mode and execute the Write operation to save the changes in the performance. For the procedure of saving in Part Edit mode, refer to p.34.

Saving performance settings

The parameters of a performance (part common, and part parameters for parts 1–16) can be saved by ① pressing the [WRITE] key while in Performance Edit mode or Part Edit mode, ② using the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number, and ③ pressing the [WRITE] key.

To save the effects of a performance, ① enter Effect Edit mode and make the desired edits. ② Press the [EXIT] key to return to the <Edit Menu> without saving. ③ Go to Performance Edit mode and press the [WRITE] key.
④ Use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. ⑤ Press the [WRITE] key to save the data. You can also save these settings in Part Edit mode.

Be aware that when you execute the Write operation, the data will overwrite the previous contents of the saving location, and the original data will be lost. Also, if you press the [EXIT] key or press a key to leave this mode without executing the Write operation, your edits will be lost.

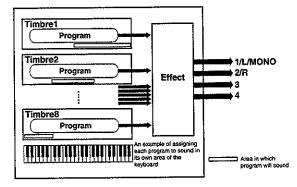
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3. Combination Edit mode

Here, you can edit combination sounds that can be played in Performance Play mode or in Multi mode.

How a combination sound is organized

Combination sounds consist of up to eight timbres ("slots" to accommodate one program sound each; see diagram below), and can be used as though they were a single program sound. Since up to eight program sounds can be played at once, you can create extremely powerful sounds, which is a real advantage when playing a live concert. For each program sound used by a timbre, you can independently specify the volume, pan (stereo location), effect send level, keyboard range and velocity range, and how it will be controlled by MIDI messages. However for effect settings, only the two effects specified by the combination will be valid.



In Combination Edit mode you can specify how these program sounds will be arranged, and make various other settings.

402 combination sounds are available, and they are stored in the following five banks.

CmbU, CmbA, CmbB, CmbC, yDr1

The CmbU bank can accommodate one hundred combination sounds that you create by editing combination in the N1R.

When you finish editing, execute the Write operation (refer to p.35) if you wish to save your edits.

"Editing a combination sound" refers to the process of selecting a program for each of the eight timbres of the combination sound, modifying the sounds, and specifying the range of the keyboard in which each program will sound, etc.

Basic operation in Combination Edit mode

- ① Press the [MULTI/PERFORM.] key to enter Performance Play mode. Each time you press the [MULTI/PERFORM.] key, you will alternate between Performance Play mode and Multi mode.
- ② (For the Upper part) select the combination sound that you wish to edit.
- ③ Press the [EDIT/ENTER] key to access the <Edit Menu>.
- ④ Use the CURSOR[◄][►] keys to select Combi, and press the [EDIT/ENTER] key.
- * In Performance Play mode if a program sound is selected (for the Upper part), the LCD will indicate Program instead of Combi.
- ⑤ Use the PAGE/PART[◄][►] keys to select the timbre that you wish to edit, and use the CURSOR[◄][►] keys to select a parameter.
- (6) Use the [VALUE] knob or the [INC+][DEC-] keys to modify the parameter value.

Selecting the program sound used by a timbre and adjusting its volume etc.

- ① As described in "Basic operation in Combination Edit mode," select the combination sound that you wish to edit, and enter Combination Edit mode.
- ② Use the PAGE/PART[◀][▶] keys to select the timbre that you wish to edit. Use the CURSOR[◀][▶] keys to select <Timbre Bank Select> and <Timbre Program Number Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the desired program sound.



- ③ Next we will adjust the volume of the timbre which you selected in step ②. Use the PAGE/PART[◄][►] keys to select the timbre whose volume you wish to adjust, press the CURSOR[►] key to select <Timbre Volume>, and use the [VALUE] knob or the [INC+][DEC-] keys to adjust the volume to the desired level. Panpot and transpose settings can also be adjusted in the same way.
- ④ If the timbre for which you are making settings does not sound, press the CURSOR[►] key to select <Receive Note On>, and use the [VALUE] knob or the [INC+][DEC-] keys to turn it ON. Timbres that you do not wish to sound may be turned: OFF.



If the timbre still does not sound, check the <Note Window Bottom>-<Velocity Window Top> settings. Also, if you have selected a program sound for which the Program Edit mode <Oscillator Panpot> parameter is turned OFF, no sound will be output if the C/D send levels are at zero.

∠ Unlike the previous 05R/W and X5DR models, a combination can have only one MIDI channel.

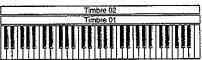
Specifying where a timbre will play (layer, split, velocity switch)

In a combination sound, the program assigned to each timbre can be triggered in three ways: layer, split, or velocity switch.

* While the single-channel layer/split function specified by the [LAYER/SPLIT] key is designed to allow you to instantly switch the Upper and Lower sounds for convenient playing, the layer, split, and velocity switch settings described here allow you to assign up to eight program sounds in their own areas of the keyboard and to make additional detailed settings.

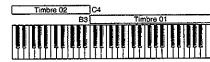
Layere

Two or more timbre programs will sound when you play the keyboard.



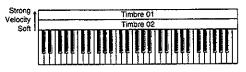
Split

Different timbre programs will sound depending on the keyboard area that you play.

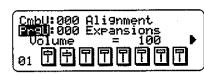


Velocity Switch

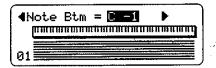
Different timbre programs will sound depending on the velocity (the force of your playing).



① As described in "Basic operation in Combination Edit mode," select the combination sound that you wish to edit, and enter Combination Edit mode.



② In step ④ of "Selecting the program sound used by a timbre and adjusting its volume etc.," turn <Receive Note On> ON for two or more timbres. ③ Press the CURSOR[▶] several times to select <Note Window Bottom>. Use the [VALUE] knob or the [INC+][DEC-] keys to specify the lowest note that this timbre will sound. You can also make this setting by holding down the [EDIT/ENTER] key and pressing a note on your keyboard (i.e., transmitting a note number).



④ Once again press the CURSOR[▶] key to select <Note Window Top>. Here you will specify the highest note that this timbre will sound (refer to step ③).

To create a layer-type combination sound, set the <Note Window Bottom> to C-1 and the <Note Window Top> to G9 for both of the (for example) two timbres for which you set <Receive Note On> to ON in step ③ ④ of the previous procedure. With these settings, the areas in which the two timbres sound will overlap.

To create a **split-type combination sound**, set a <Note Window Bottom> setting of **C4** and a <Note Window Top> setting of **G9** for one of the (for example) two timbres for which you set <Receive Note On> to **ON** in step ③ ④ of the previous procedure. For the other timbre, set <Note Window Bottom> to **C-1** and <Note Window Top> to **B3** etc. With these settings, the areas in which the two timbres sound will be separate.

⑤ In addition, if you wish to create a velocity-switch type combination sound, use the CURSOR[◄][►] keys to select <Velocity Window Bottom> and <Velocity Window Top>, and specify the minimum and maximum velocity values for which the timbre will sound.

For example, suppose that you set one timbre to a <Velocity Window Bottom> of 80 and a <Velocity Window Top> of 127, and the other timbre to a <Velocity Window Bottom> of 01 and a <Velocity Window Top> of 79. With these settings, the timbre sounds will depend on how strongly the note was played. Softly played notes will be sounded by one timbre, and strongly played notes will be sounded by the other timbre. Adjust the values (80, 79) as appropriate for your playing style.

Effect settings

Combination sounds are routed through two independent digital multi-effect units, and are sent from the stereo (or 3 and 4) outputs. You can specify the panning (A, B) at which the sound will be input to the effects, and the send amount (effect send C and D).

① As described in "Basic operation in Combination Edit mode," select the combination sound that you wish to edit, and enter Combination Edit mode.

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- ② Use the PAGE/PART[◀][▶] keys to select the timbre that you wish to edit, and use the CURSOR[◀][▶] keys to select <Timbre Panpot>, <Timbre C Send Level>, or <Timbre D Send Level>, and use the [VALUE] knob or the [INC+][DEC-] keys to specify the position A and B for input to the effects, and the send amounts C and D to the effects. (Refer to <Effect Placement> p.59.)
- ③ Use the CURSOR[◄][►] keys to select <Effect Bank Select> and <Effect Number Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the bank and effect number of the desired effect program.
- ④ If you wish to modify the parameter values of the selected effect, press the [EDIT/ENTER] key to enter Effect Edit mode.

For details on the editing procedure in Effect Edit mode, refer to "Effect editing."

Other combination sound parameters

In addition to the parameters described above, Combination Edit mode allows you to set MIDI message reception filters <Receive Control Change>, <Receive Pitch Bend>, <Receive Aftertouch>, <Receive Damper>, <Receive Portamento>, and the parameters <Timbre Transpose>, <Timbre Fine Tune>, and <Combination Rename>. For details on each of these parameters, refer to p.43 "Combination Edit mode."

Saving combination sound settings

① In Combination Edit mode, press the [WRITE] key. ② Use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. ③ Press the [WRITE] key to save the data.

Similarly, to save effect settings, ① press the [WRITE] key in Effect Edit mode. ② Use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. At this time be sure to select effect bank U for combination sounds. ③ Press the [WRITE] key to execute.

- Be aware that when you execute the Write operation, the data in the writing destination will be overwritten and lost. If you press the [EXIT] key or exit this mode by pressing another mode key, your edits will be lost.
- Be aware that if you edit a program sound which is assigned to a combination, the sound of the combination will also change.

4. Program Edit mode

Here, you can edit the program sounds for playing in Performance Play mode or Multi mode.

How program sounds are structured

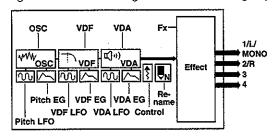
Program sounds are the most basic type of sounds. There are 1269 program sounds. These 1269 program sounds can be broadly divided into two types: those which use normal multisamples (such as piano or brass) for the oscillator, and those which use a drumkit (DRUMS) for the oscillator. A drumkit is a collection of drumsamples such as bass drum, snare, or hi-hat which are assigned to each note of the keyboard. Programs which use normal multisamples can be either SINGLE (using only one multisample) or DOUBLE (using two multisamples).

Program sounds are organized into the following banks.

GM-a, r01-r40, r:CM, y01-y101, ySFX, GM-b, PrgU, PrgA, PrgB, PrgC, yDr2, rDrm, kDrm

The PrgU bank can accommodate one hundred program sounds that you create by editing the programs in the N1R.

Programs of the N1R are organized in the following way:



OSC (Oscillator)

In this section you can select the waveform which will determine the basic character of the sound. Select a multisample as the basic waveform, and set various parameters for the oscillator.

Pitch LFO

This applies cyclic modulation to the pitch, creating a vibrato effect.

Pitch EG

This specifies how the pitch will change over time.

VDF (Variable Digital Filter)

This section lets you use a low pass filter to modify the waveform by attenuating or boosting the high-frequency portion of the sound. This will change the tonal character (brightness) of the sound.

VDF LFO

This applies cyclic modulation to the tone, creating a wah effect.

VDF EG

This specifies how the tone will change over time.

VDA (Variable Digital Amplifier)

This applies time-varying change to the volume which is output from the VDF section. "Volume change" in this case refers to the way in which the volume of an individual note changes from the time that a key is struck until that key is released and the note decays to silence.

VDA LFO

This applies cyclic modulation to the volume, creating a tremolo effect.

VDA EG

This specifies how the volume will change over time.

Contro

This section contains parameters related to the various modulation effects and settings such as portamento.

Fx (Effect)

In this section you can select the effects used by a program, and set the effect send amounts etc. Two completely independent stereo multi-effect units are provided.

Rename

The Rename section lets you assign a new name to the program or to modify the existing name.

"Program sound editing" refers to the process of setting parameter values to modify program sounds in order to edit existing program sounds or to create completely new sounds.

Basic operation in Program Edit mode

- ① Press the [MULTI/PERFORM.] key to enter Performance Play mode. Each time you press the [MULTI/PERFORM.] key, you will alternate between Performance Play mode and Multi mode.
- ② For the Upper part, select the program sound that you wish to edit.
- ③ Press the [EDIT/ENTER] key to access the <Edit Menu>.
- ④ Use the CURSOR[◄][▶] keys or the [INC+][DEC-] keys to select Program, and press the [EDIT/ ENTER] key.
- * If in Performance Play mode you select a combination sound for the Upper part, the LCD will indicate Combi instead of Program.
- ⑤ Use the PAGE/PART[◄][►] keys or the CUR-SOR[◄][►] keys to select the desired section, and press the [EDIT/ENTER] key to enter the selected section.
- ⑥ Use the CURSOR[◀][▶] keys to select the parameter that you wish to edit, and use the [VALUE] knob

or the [INC+][DEC-] keys to modify the parameter value.

If the OSC Mode is **DOUBLE**, you can move between the two oscillators by pressing the [EDIT/ENTER] key in a parameter page where this applies. If the OSC Mode is **SINGLE**, it will not be possible to edit the OSC2 parameters. If the OSC Mode is **DRUMS**, pressing the [EDIT/ENTER] key will allow you to edit the drumkit.

You can also use the PAGE/PART[◀][▶] keys to move through the pages.

Oscillator settings (OSC section)

One way to edit program sounds is to modify an existing program sound that is similar to the desired result. Alternatively, if you wish to create a program sound from scratch, you will normally select a multisample first in this section, and then proceed to edit the parameters of other sections.

- ① As described in "Basic operation of Program Edit mode," select the program sound that you wish to edit, and enter Program Edit mode.
- ② In <Program Edit>, press PAGE/PART[◀] or CUR-SOR[◀] to select the OSC section, and press the [EDIT/ENTER] key.
- ③ Press the CURSOR[◄] key to select <Oscillator Mode>, and use the [VALUE] knob or the [INC+][DEC-] keys to set the oscillator mode.

If you set the <Oscillator Mode> to SINGLE, you can use one oscillator to create the program sound. With a setting of DOUBLE, you can use two oscillators to create the program sound. With a setting of DRUMS, you can use a drumkit oscillator to create the program sound.

If the <Oscillator Mode> is set to **DOUBLE**, you can move between the oscillator 1 and 2 editing pages by pressing the [EDIT/ENTER] key.

(DOUBLE)



Initially, it will probably be best for you to set <Oscillator Mode> to SINGLE when you edit, so that the results will be more obvious. If you want to create an especially thick or complex sound, you can select DOUBLE, and add settings for oscillator 2.

④ Press CURSOR[►] to move to the <Multisample Select> page. Here you can use the [VALUE] knob or the [INC+][DEC-] keys to select a multisample. Play your keyboard to hear the selected multisample.

If you set the VDF <Cutoff Frequency> parameter to 127 (maximum) and use an organ-like envelope with no change, you will be able to hear the original sound of the actual multisample.

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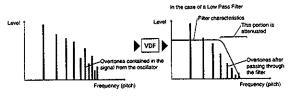
- ⑤ Use the CURSOR[◄][►] keys to move to the <Octave Select> page. Use the [VALUE] knob or the [INC+][DEC-] keys to adjust the pitch of the oscillator in one-octave steps.
- ⑥ Use the CURSOR[◄][►] keys to move the cursor to <Oscillator Level>. Use the [VALUE] knob or the [INC+][DEC-] keys to set the volume of the oscillator.
- ⑦ Use the CURSOR[◄][►] keys to select other parameters of the OSC section, and edit them in the same way.
- ③ Use the PAGE/PART[◄][►] keys to select the PITCH LFO page. Use the CURSOR[◄][►] keys to select <Pitch LFO Waveform>. Here, you can cyclically modulate the pitch of the oscillator to create vibrato. Use the [VALUE] knob or the [INC+] [DEC-] keys to select the waveform of the pitch LFO.

If the pitch change produced by the Pitch LFO is not audible, try setting <Pitch LFO Intensity> to approximately +80.

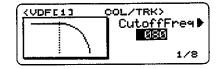
You can also control the vibrato depth or speed by receiving aftertouch or control change #1 messages (refer to p.48).

Filter settings (VDF section)

The filter adjusts the tone (brightness, etc.) by cutting or boosting a specified portion of the oscillators frequency content. The sound can change dramatically depending on the these filter settings. The filters of the N1R are low pass filters (LPF). Use them to modify the tone. An LPF is a filter which allows the portion below the cutoff frequency to pass, and cuts the higher portion. As the higher overtones are attenuated, a bright sound will become darker (more muted).



- ① As described in "Basic operation in Program Edit mode," select the program sound that you wish to edit, and enter Program Edit mode.
- ② In <Program Edit>, use the PAGE/PART[◄][►] keys or the CURSOR[◄][►] keys to select the VDF section, and press the [EDIT/ENTER] key.
- ③ Use the CURSOR[◄][▶] keys to select <Cutoff Frequency>, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the value. Notice that the tonal quality becomes brighter or darker.



④ Press the PAGE[►] key twice to move to the VDF EG page.

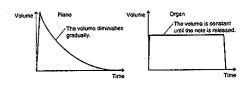


(5) Use the CURSOR[◀][▶] keys to select parameters such as <VDF EG Attack Time> (Attack Time), <VDF EG Attack Level> (AttackLvl), and <VDF EG Decay Time> (Decay Time), and use the [VALUE] knob or the [INC+][DEC-] keys to modify their values. Notice how the tonal quality changes over time.

The value of the area indicated in the EG graphic in the LCD screen will change. If you cannot hear the result of the changes you make, try raising the <VDF EG Intensity> value to approximately +80.

Amp settings (VDA section)

The amp section creates change in the volume over time. We are referring here to the volume change which takes place within each note, such as "sounds which rise to their full volume immediately when a key is pressed," or "sounds which decay slowly." For example when you play a note on a piano, the sound will begin at the maximum volume, and will then decay slowly. On the other hand, a note played on an organ will maintain the same volume until the key is released, and a note played on a violin can be varied in volume throughout the duration of the note. It is the role of the VDA section to create this type of volume change.



- (1) As described in "Basic operation in Program Edit mode," select the program sound that you wish to edit, and enter Program Edit mode.
- ② In <Program Edit>, use the PAGE/PART[◄][▶] keys or the CURSOR[◄][▶] keys to select VDA EG, and press the [EDIT/ENTER] key.
- ③ Use the CURSOR[◄][▶] keys to select parameters such as <VDA EG Attack Time> (Attack Time), <VDA EG Attack Level> (Attack Lvl), and <VDA EG Decay Time> (Decay Time), and use the [VALUE] knob or the [INC+][DEC-] keys to modify their values. Notice how the volume changes.over time. The value of the area indicated in the EG graphic in the LCD screen will change.
- ④ Press the PAGE/PART[◀] key twice to enter the VDA section.



⑤ Here, you can make settings for VDA keyboard tracking. VDA keyboard tracking is a function which varies the volume according to the keyboard location (note number). This is used to even out the volume balance of a sound that is played over a wide range of pitches.

The <VDA Keyboard Tracking Mode> and <VDA Keyboard Tracking Key> parameters specify the keyboard area to which this function will apply, and <VDA Keyboard Tracking Intensity> specifies the amount of VDA volume change that will occur in the specified area of the keyboard. Use the CURSOR[◄][►] keys to select parameters, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the value as you listen to the result.

Similarly, the VDF section also has a VDF keyboard tracking function, and this is used to adjust the tonal character according to the keyboard location (note number).

When you are using double mode to layer two sounds, you can set the **keyboard tracking** parameter <VDA Keyboard Tracking Key> to the same setting for both oscillators, and invert the polarity ("+" and "-") of the <VDA Keyboard Tracking Intensity> of the two oscillators. This will create a **positional crossfade** effect (i.e., where the balance of the two sounds will change according to the keyboard location).

Effect settings

The sound of a program is sent through two completely independent digital multi-effect units before being sent to the stereo (or 3 and 4) outputs. You can specify the stereo position of the sound that will be input to the effects (A and B), and the send amount (effect send C and D).

- ① As described in "Basic operation in Program Edit mode," select the program sound that you wish to edit, and enter Program Edit mode.
- ② In <Program Edit>, use the PAGE/PART[◄][►] keys or the CURSOR[◄][►] keys to select Fx (Effect), and press the [EDIT/ENTER] key.
- ③ Use the CURSOR[◄][►] keys to select <Oscillator Panpot> and <C Send Level/D Send Level>, and use the [VALUE] knob or the [INC+][DEC-] keys to specify the panning of the input to the effects A and B, and the send amount to the effects C and D. (Refer to <Effect Placement> p.59)
- ④ Use the CURSOR[◄][►] keys to select <Effect Bank Select> and <Effect Number Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the bank and effect number of the desired effect program.
- ⑤ If you wish to modify parameter values for the selected effect, press the [EDIT/ENTER] key to enter Effect Edit mode.

For the procedure of editing in Effect Edit mode, refer to "Effect editing."

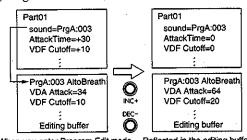
Modulation settings (Control section)

Here, you can adjust the depth with which incoming MIDI messages will control modulation, specify how notes will be sounded (monophonically/polyphonically), and make settings for portamento etc.

- ① As described in "Basic operation in Program Edit mode," select the program sound that you wish to edit, and enter Program Edit mode.
- ② In <Program Edit>, use the PAGE/PART[◄][►] keys or the CURSOR[◄][►] keys to select the Control section, and press the [EDIT/ENTER] key.
- ③ Use the CURSOR[◄][►] keys to select the parameter that you wish to edit, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the value. For example if you select <Aftertouch VDF> and modify the value, you will notice that the tonal character becomes brighter or darker when you transmit aftertouch messages to the N1R by pressing down on the notes of your connected MIDI keyboard. Other means of control include pitch bend change messages and control change #1 messages.

Applying realtime controller edits to the sound

If you have used the four knobs in Performance Play mode to modify the sound, and wish to apply these changes to the program sound that you will edit, simultaneously press the [INC+] and [DEC-] keys at the <Program Edit> display (i.e., immediately after entering Program Edit mode).



When you enter Program Edit mode Reflected in the editing buffer

Saving program sound settings

① In Program Edit mode, press the [WRITE] key. ② Use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. ③ Press the [WRITE] key to execute.

To save effect settings, ① press the [WRITE] key in Effect Edit mode. ② Use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. At this time, make sure to save to effect bank u for program sounds. ③ Press the [WRITE] key to execute.

Be aware that when you execute the Write operation, the original data in the writing destination will be overwritten and lost. If you press the [EXIT] key or exit this mode by pressing another mode key, your edits will be lost.

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5. Effect Edit mode

Effects can be used to modify the sound in various ways or to simulate an acoustic sound field. On the N1R, you can make effect settings for program sounds, for combination sounds, or for performances. Effect editing in Performance Play mode and Multi mode is the same.

Effect structure

The N1R contains two digital effect processors. For each effect processor (EFFECT 1 and 2) you can select one of 48 types of effects such as reverb, delay, flanger, distortion, and exciter.

In **Effect Edit mode** you can change the effect type or modify the specific settings within the effect.

The 48 effect types are numbered individually. Types 1–37 and 48 are single effects, types 38–39 are serial-connected effects, and 40–47 are parallel-connected effects. By using parallel-connected effects, you can simultaneously use up to four types of independent effect.

The two effects can be connected in one of six different ways (effect placement): SERIAL, PARA.1 (parallel 1), PARA.2 (parallel 2), PARA.3 (parallel 3), SERI.S (serial sub), and PARA.S (parallel sub) (refer to p.59).

The N1R provides 728 preset effect programs and 200 user effect programs. There are also 32 effect programs which can be specified for each performance, and these are organized in the following ten banks.

P, U, A, B, C, u, a, b, c, G

Effect bank name	Contents	
P	The effect written in the performance (Effect number cannot be selected)	
J	User effect for bank "CmbU"	
Α	Preset effect for bank "CmbA"	
В	Preset effect for bank "CmbB"	
С	Preset effect for bank "CmbC"	
u	User effect for bank "PrgU"	
а	Preset effect for bank "PrgA"	
b	Preset effect for bank "PrgB"	
C	Preset effect for bank "PrgC"	
G	Effect for GM or GM variation sounds	

An effect program can be created by using both effects 1 and 2 and editing various parameters, and 100 such programs can be stored in bank U for combination sounds, 100 more programs in bank u for program sounds, and 32 more programs for performances.

If an initialization message such as GM System On is received in Multi mode, the effect section will automatically default to the following settings.

Effect 1: 01 Hall
Effect 2: 19 Chorus 1
Placement: PARA.3

About effect operation

The effect settings which were made most recently will take priority and override the earlier settings, in the following order: effect settings for a program sound, effect setting for a combination sound, effect settings for Performance Play mode or Multi mode. In the case of a combination sound, the effect settings of the program assigned to each timbre will be ignored, and the effect settings of the combination itself will be used. Immediately after a performance is selected, the effect settings of the performance itself will be applied.

In Performance Play/Edit modes, changing the program/combination sound that is selected for the Upper part will cause the effects to change accordingly. The effects that will be applied will be the effect number that was specified/saved in Program Edit mode or Combination Edit mode. In Multi mode, changing the program/combination sound of each part will not cause the effects to change accordingly. In either case, selecting a performance will switch to the effects that were saved in Program Edit mode.

Basic operation in Effect Edit mode

- ① To enter Effect Edit mode, press the [EDIT/ENTER] key from one of the following states.
- When the Effect Edit mode icon is selected in the <Edit Menu> (i.e., when the cursor is on the icon).
- In Multi mode when the bank or effect number of the currently used effect is selected (i.e., when the cursor is located there).
- In Program Edit mode, Combination Edit mode or Performance Edit mode, when the bank or number of the effect used by that sound is selected (i.e., when the cursor is located there).

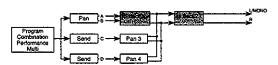
<pre><edit effect=""> (c:F19-Rev) Fx1:26 Flan9er Fx2:04 Room</edit></pre>	2	PARA.1 SW: ON SW: ON
--	---	----------------------------

- ② Use the PAGE/PART[◄][►] keys to change pages, and use the CURSOR[◄][►] keys to select parameters.
- ③ Use the [VALUE] knob or the [INC+][DEC-] keys to modify the parameter value.
- ④ For details on saving your settings, refer to "Saving effect settings." To exit Effect Edit mode, press the [EXIT] key.

Effect editing

- ① As described in "Basic operation in Effect Edit mode," select the effect (program/combination sound, performance) that you wish to edit, and enter Effect Edit mode.
- ② Press PAGE/PART[◄] to select <Effect Placement>, and use the [VALUE] knob or the [INC+][DEC-] keys to set it to SERIAL.

With this placement setting, the sounds that are input to A and B will be processed by effect 1 and effect 2, and will be output from L/MONO and R. The sounds that are input to C and D will be mixed with the output of effect 1, then processed by effect 2 and output. A and B are the output from the panpot, and C and D are the output from send C and send D.



For other placements, refer to p.59 "Effect Edit mode."

- ③ Use the CURSOR[◄][▶] keys to select <Effect 1
 Type> and <Effect 1 Switch>. Use the [INC+][DEC-]
 keys or the [VALUE] knob to select an effect type for
 effect 1, and to switch the effect on/off. In the same
 way, make settings for <Effect 2 Type> and <Effect 2
 Switch>.
- ④ Use the PAGE/PART[◄][►] keys to change pages, use the CURSOR[◄][►] keys to select effect parameters, dynamic modulation, or output level etc., and use the [INC+][DEC-] keys or the [VALUE] dial to modify the values.

For explanations of the Effect Edit mode parameters, refer to p.59-p.70.

Saving effect settings

If you wish to save effects for a program sound or combination sound: In Effect Edit mode, press the [WRITE] key, and then use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number. At this time, be sure to save the effect settings in effect bank u for program sounds, or in effect bank U for combination sounds. Then, finally press the [WRITE] key to execute.

However, if you wish to save effect settings for a performance, press the [EXIT] key twice to exit Effect Edit mode after you finish editing the effect, and execute the Write operation in Program Edit mode.

Be aware that when you execute the Write operation, the original data in the writing destination will be overwritten and lost. If you press the [EXIT] key or exit this mode by pressing another mode key, your edits will be lost.

6. Drumkit Edit mode

In Drumkit Edit mode you can modify or create the drumkits which are the foundation of a drum program.

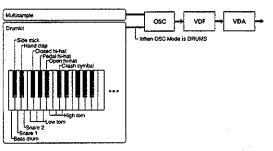
Drumkit structure

A drumkit is an oscillator which consists of an arrangement of percussion instrument sounds or drumsamples assigned to each key (referred to as an "instrument"), with settings for pitch, level, panpot, effect send level, and attack time etc.

In Program Edit mode, set <Oscillator Mode> to DRUMS, and set <Drumkit Select> to select either a preset drumkit or a user drumkit. This allows you to play a drumkit as a program sound. You can make settings for VDF, VDA, and effects in the same way as when editing a multisample.

The N1R provides 37 preset drumkits and two user drumkits.

In Drumkit Edit mode you can assign a different instrument to each note to create your own drumkit, and save it as a user drumkit.



Basic operation in Drumkit Edit mode

- ① As described in "Basic operation in Program Edit mode," select the (drum) program that you wish to edit, and then enter Program Edit mode.
- ② In <Program Edit>, press the PAGE/PART[◀] key or the CURSOR[◀] key to select the OSC section, and press the [EDIT/ENTER] key.
- ③ Press the CURSOR[◄] key to select <Oscillator Mode>, and use the [VALUE] knob or the [INC+][DEC-] keys to select DRUMS. If you wish to start your editing with a specific drumkit, press the CURSOR[►] key and select the desired drumkit in <Drumkit Select>.
- ④ Press the [EDIT/ENTER] key to enter Drumkit Edit mode.
- ⑤ Use the CURSOR[◄][►] keys to select the parameters of each instrument, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the values.
- ⑥ To move to another instrument, use the PAGE/ PART[◄][►] keys.

By holding down the [EDIT/ENTER] key and press-

ing a note on your keyboard, you can select the instrument which is assigned to that note.

⑦ Use the CURSOR[◄][►] keys to select the parameter that you wish to edit, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the value.

In Drumkit Edit mode, the LCD screen will show a diagram of the keyboard. The small downward pointing triangle above this keyboard corresponds to the note name displayed in the line immediately above, and indicates the note which you are currently editing.



Arranging drumsamples

- ① As described in "Basic operation in Drumkit Edit mode," select the (drum) program that you wish to edit, and then enter Program Edit mode.
- ② Hold down the [EDIT/ENTER] key, and play the note (i.e., transmit the note number) which corresponds to the instrument that you wish to edit.
- ③ Press the CURSOR[◄] key to select <Drumsample Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the drumsample that will be assigned to this note. Play the keyboard and notice that the drumsample assigned to that note has now changed.
- ④ Next, press the CURSOR[►] key to select parameters that determine the volume level, pitch, panpot, how the note will be sounded, and how the tonal character will change, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the parameter values.

For details on instrument parameters, refer to "Drumkit Edit mode" (p.57) in the Reference section.

Saving a drumkit

① In Drumkit Edit mode, press the [WRITE] key, ② use the [VALUE] knob or the [INC+][DEC-] keys to specify the save destination number, and ③ press the [WRITE] key to execute.

Be aware that when you execute the Write operation, the original data in the writing destination will be overwritten and lost. If you press the [EXIT] key or exit this mode by pressing another mode key, your edits will be lost.

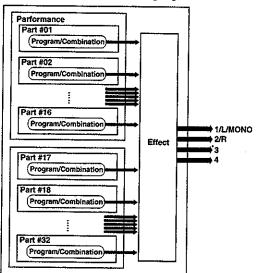
7. Multi mode

Unlike Performance Play mode, which is intended mainly for taking advantage of the performance functions, Multi mode should be used when you require the N1R to work as a multi-timbral MIDI tone generator for receiving multiple tracks of MIDI data from a sequencer, etc.

The structure of Multi mode

As in Performance Play mode, you can assign any one of 1269 program sounds (including programs which use a drumkit) or 402 combination sounds to each of up to 32 parts, and play them.

For each part, you can specify the sound, and various parameters such as volume and panpot.



The settings of Multi mode parts 1–16 can be saved as a performance. However if an initialization message such as GM System On, GS Reset, or XG System On is received, these settings will be cleared to their default (initial) values.

When a MIDI system exclusive message such as GM System On, XG System On, or GS Reset is received, or when the Global mode <Initialize> GM Mode On, N-Reset(R) or N-Reset(Y) is executed, the N1R will be set to the following settings. These are the settings when the Global mode <Bank Map Type> is set to Default.

	With the Default se	tting
Rx.MIDI Ch.	Parts 01-16=A01- Parts 17-32=B01-	
Program	GM-a:001 Piano 1 rDrm:001 STANDA	(except for parts 10 and 26) ARD (Parts 10, 26)
Effect	A:001 Rev/Cho	
Volume Expression Panpot Key Shift Rev.Send Cho.Send	100 127 CNT +00 40	

 Part Mode
 NORM (except for parts 10 and 26)

 MDrm1 (Parts 10)
 MDrm3 (Parts 26)

 MONO/POLY
 POLY

 Fine Tune
 +00

 Note Window
 C-1-G9

 Velocity Window
 001-127

 ModWheel P.ModInt
 10

 PitchBend Range
 +02

 Portamento Switch
 OFF

 Portamento Time
 0

If the Global mode <Bank Map Type> it set to 05R/W, the Program only will be set as follows, and the other settings will be the same as in the table above.

Prgram	GM-b:001 Piano kDrm:001 GMkit	(except for parts 10 and 26) (Parts 10, 26)

Basic operation in Multi mode

 Press the [MULTI/PERFORM.] key to enter Multi mode.

Each time the [MULTI/PERFORM.] key is pressed, you will alternate between Performance Play mode and Multi mode.

The settings of the currently selected performance will be valid for parts 1–16. For details on the applicable parameters, refer to p.21.

- ② Use the PAGE/PART[◄][▶] keys to select the desired part.
- ③ Use the CURSOR[◄][►] keys to select the sound number or sound bank, and use the [VALUE] knob or the [INC+][DEC-] keys to select the sound. The bank can also be switched by pressing the BANK [COMBI] or [PROG] keys.
- ④ Finally, use the CURSOR[◄][►] keys to select parameters such as the receive MIDI channel, key shift (transposition), volume, panpot, or effect, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the parameter values.

About voices, parts, and MIDI channels

The N1R is able to play a total of 64 voices simultaneously. If more than 64 voices are requested at one time, the oldest currently-sounding voices will be turned off in succession. This means that caution is necessary when you are playing multiple parts simultaneously, in particular if you are using combination sounds which use many voices.

On the N1R, a unit which produces sound for a single note is referred to as a voice. Program sounds can be either single oscillator or double oscillator, and double oscillator programs will use two voices to play each note. Since combination sounds can use two or more of these program sounds, playing one note can use up to 16 voices.

A MIDI receive channel can be specified independently for each of the N1R's 32 parts. On the N1R, you can select from MIDI channels A1–A16 and B1–B16. The

MIDI channel of the transmitting device (computer or sequencer etc.) must be set to match the MIDI channel of the N1R part that you intend to play.

For details on the MIDI messages that can be received, refer to p.86 "Control using MIDI," "MIDI messages," and "MIDI implementation chart."

Effect settings

All of the sounds in Multi mode pass through two digital multi-effect processors, and is ultimately sent from the stereo (or 3 and 4) outputs. You can adjust the panning (A, B) with which each part is input to the effects, and adjust the send amounts (effect send C and D).

- ① Press the [MULTI/PERFORM.] key to enter Multi mode.
- ② Use the PAGE/PART[◀][▶] keys to select the part that you wish to edit, and use the CURSOR[◀][▶] keys to select <Panpot>, <C Send Level>, and <D Send Level>. Then use the [VALUE] knob or the [INC+][DEC-] keys to specify the panning A and B at which the sound will be input to the effects, and the send amounts C and D to the effects (refer to <Effect Placement> p.59).
- ③ Use the CURSOR[◄][►] keys to select < Effect Bank Select> and < Effect Number Select>, and use the [VALUE] knob or the [INC+][DEC-] keys to select the bank and effect number of the desired effect program.
- ④ If you wish to modify the parameter values of the selected effect, press the [EDIT/ENTER] key to enter Effect Edit mode.

For the editing procedure in Effect Edit mode, refer to "Effect editing."

Saving Multi mode settings

If you wish to save the part parameter settings for parts 1–16 of Multi mode, you can save them in Part Edit mode or in Performance Edit mode (refer to p.23, p.35).

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8. Part Edit mode

For each of the 32 parts of the N1R, you can make settings for various part parameters. Unlike the editing that is done in Program Edit mode or Combination Edit mode, editing in Part Edit mode creates only temporary changes (offset editing) to the original program or combination sounds used by each part. This means that the original sounds themselves are not actually modified.

Any temporary changes to the sound by using the realtime controllers will be cleared to the default values (initial values) when an initialization message such as GM System On, GS Reset, or XG System On is received.

Basic operation in Part Edit mode

① In Multi mode, press the [EDIT/ENTER] key to enter Part Edit mode. The following part edit menu will appear:



Part Edit parameters are grouped into five sections: EG (envelope generator), scale, MOD, filter/window, and others.

② Use the PAGE/PART [◄][►] keys or the CURSOR [◄][►] keys to move the cursor (the highlighted area) to the desired section and press [EDIT] once to access the parameter editing screen for that section. The following screen is an example of when EG is calcuted.

In the EG display shown above as an example, try modifying the attack time or decay time, and notice how the sound is affected.



③ In Part Edit mode, use the PAGE/PART [◄][►] keys to switch parts, the CURSOR [◄][►] keys to move the cursor to select a parameter, and the [VALUE] knob or the [INC+][DEC-] keys modify the value.

For details on the function of each parameter, refer to Reference guide, "9. Part Edit mode."

Saving Part Edit mode settings

After you have modified the part parameters for parts 1–16, you can save these settings as a performance. At this time, the effect settings you edited in Multi mode will also be saved.

① Press the [WRITE] key, ② use the [VALUE] knob or the [INC+][DEC-] keys to select the save destination number, and ③ press the [WRITE] key to save the data.

Be aware that when you execute the Write operation, the original data in the writing destination will be overwritten and lost. If you press the [EXIT] key or exit this mode by pressing another mode key, your edits will be lost.

9. Global mode

In Global mode you can save (dump) various N1R parameters to an external data storage device or computer, and make settings which affect the operation of the entire N1R. You can also make settings which affect the N1R's display, select the MIDI messages which can be transmitted or received, and make memory protect settings.

Basic operation in Global mode

① Press the [GLOBAL] key to enter Global mode.



② Use the PAGE/PART[◀][▶] keys to move through the pages, use the CURSOR[◀][▶] keys to select parameters, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the values.

For details on the function of each parameter, refer to Reference guide, "10. Global mode".

Saving Global mode settings

Since changes you make in Global mode are automatically saved when you move to another mode, the Write operation is not required.

If the power is turned off while you are still in Global mode, the modified settings will not be saved.

10. Demo mode

In this mode you can listen to demo songs which demonstrate the sounds and capabilities of the **N1R** (refer to p.9).

Saving (writing) and renaming

The edits that you make in Performance Edit mode, Program Edit mode, Combination Edit mode, Drumkit Edit mode, Effect Edit mode, Multi mode, and Part Edit mode can be saved to internal memory.

Write protect

To prevent data from being rewritten accidentally, the N1R provides a write protect setting (which prevents data from being written into memory). If you wish to write edited data, you must first use the following procedure to turn write protect OFF (so that the corresponding check box is unchecked).

- ① Press the [GLOBAL] key to move to Global mode.
- ② Use the PAGE/PART [◄][►] keys to access the <Write Protect> page.



③ Use the CURSOR [◄][►] keys to select the check box located at the right of Prg, Cmb, Drm or Eff. Press the [INC+] key to add a check mark to the box. When a box is checked, it will be impossible to write data into the corresponding type of memory. Press the [DEC-] key to un-check the box, and allow data to be written.

Assigning a name (Rename)

You can assign a name to (or modify the existing name of) a program, combination, or effect program that you have edited.

① Make sure that the program or combination whose name you wish to assign (or modify) is selected. Use the PAGE/PART [◄][►] keys to select the Rename parameter of the appropriate edit mode.



② Use the CURSOR [◄][►] keys to highlight the character within the name that you wish to modify. Use the [VALUE] slider or the [INC+][DEC-] keys to select the desired character. Repeat this process to create the desired name. The following characters and symbols are available:

	!	ŧI	#	\$	4	8	?	<	,	*	+	,	ľ	2	_
Ø	1	2	3	4	5	6	7	8	9	20	5	K	H	\wedge	?
ā	A	В	C	D	Ε	F	G	H	I	J	K	L	M	\succeq	0
F	Q	R	5	T	IJ	Ų	W	X	Ÿ	Z	Γ	¥	ַוַ	۸.	
7	a	Ь	C	u	e	f	9	h	i	j	k	1	m	\subseteq	0
F	-24	r	S	t.	u	Ų	ijJ	×	님	z	{	[)	÷	÷

Write (save) procedure

- ① If you wish to save a combination sound, program sound, drumkit, or effect program, turn the <Write Protect> setting (which prohibits writing into program memory) OFF (so that the check box has no check mark). (Refer to the above section Write Protect.)
- ② As desired, assign a name to (or modify the existing name of) the combination sound, program sound, or effect program (refer to the above section Rename).
- ③ Press the [WRITE] key.



The current number will be automatically selected as the writing destination.



(4) Specify the save destination for the program sound, combination sound, effect program, or performance.

Edited Program sounds can be saved only in bank PrgU, and edited combination sounds can be saved only in bank CmbU. Effect programs for combination sounds must be saved in bank U, and effect programs for program sounds must be saved in bank u. Use the [VALUE] knob or the [INC+][DEC-] keys to select the write destination number.

- ⑤ Press the [WRITE] key once again to execute the Write operation. If you decide to cancel without writing, press the [EXIT] key. Alternatively, use the CURSOR[◄][►] keys to select YES, and press the [EDIT/ENTER] key to execute the Write operation, or select NO and press the [EDIT/ENTER] key to cancel without writing.
- Be aware that if you write data into a number which already contains a different program/combination sound or effect, the original sound or effect parameters that had been saved in that writing destination will be overwritten and lost.

Regarding verification at [EXIT]

When you edit any of the parameters in Program Edit mode, Combination Edit mode, or Effect Edit mode, the upper right of the LCD will indicate EDIT. If you press the [EXIT] key to attempt to leave the Edit mode when this EDIT indication is shown, the following popup window will appear. This menu lets you choose whether the data you modified will be saved to the user bank, or whether the changes you made will be discarded.



If at this point you press the [EDIT/ENTER] key to select CNCL, the popup window will disappear, and you can continue editing.

If you press the [WRITE] key to select YES, the edited data will be written into the selected number of the user bank. The number can be changed by using the [VALUE] knob or the [INC+][DEC-] keys.

If you press the [EXIT] key to select **NO**, the edited data will not be saved, and you will exit the Edit mode.

Restoring the factory settings

The data that is in memory when the N1R is shipped is referred to as the "factory preset data." The program sounds, combination sounds, performances, effects and drumkit settings in the N1R's internal memory can be restored to the factory preset condition.

If your sounds become changed or erased, you can use the following procedure to bring back the factory settings.

- Be aware that when you perform this operation, all edited data and settings that you made will be lost. We recommend that if necessary, you save edited data on an external data storage device before executing the following procedure (refer to p.79).
- ① Press the [GLOBAL] key to enter Global mode.
- ② Use the PAGE/PART[◀][▶] keys to access the <Initialize> page.

<PRESET/INIT>

Init:Factory Preset

PRESS CEDIT/ENTER]

- ③ Use the [VALUE] knob or the [INC+][DEC-] keys to select the type of data that you wish to restore to the factory settings (refer to p.79). As an example here, we will select Factory Preset so that all settings will be returned to their factory settings.
- 4 Press the [EDIT/ENTER] key, and a message will ask you to confirm the operation.

If you are sure that you wish to execute the operation, press the [EDIT/ENTER] key once again.

If you decide to halt this operation, press the [EXIT] key. The operation will be halted.

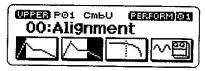
The Factory Preset operation does not initialize the <BPS Select> setting (refer to p.8, p.76).

Reference guide

1. Performance Play mode

<Performance Select>

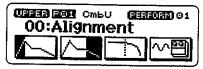
01...32



Selects the performance (refer to p.12, p.21).

<Part> (UPPER, LOWER)

P01...P16



Selects the part which you will play.

<Bank> (UPPER, LOWER)

CmbU, A, B, C, PrgU, A, B, C, GM-b, GM-a, r:01...r:40, r:CM, y:01...y101, ySFX, yDr1, yDr2, rDrm, kDrm, ****



Selects the bank that you will play (refer to p.20).

<Program Select> (UPPER, LOWER)

000...099 (CmbU, A, B, C, PrgU, A, B, C) **001...128** (for banks other than the above)

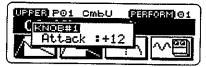


Selects the program or combination sound.

In Performance Play/Edit modes, changing the program or combination will set the Bend Range of the part to "PRG." (The Part Edit mode item Mod <Part Pitch Bend Range> BNDWHL will be set to "PRG.")

<Control knob #1 value>

Value will depend on the parameter specified for the knob



This displays the value of the parameter assigned to control knob 1. Use the knob to modify the value.

Only part parameters are edited by the control knobs. Program parameters are not edited. (If you want these settings to be reflected in the program parameters, refer to p.29.)

<Control knob #2 value>

<Control knob #3 value>

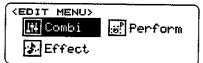
<Control knob #4 value>

(Same as Control knob #1)

2. Edit Menu

<Edit Menu>

Combi, prog, Perform, Effect



Selects the mode in which you wish to edit: Performance Edit mode, Combination Edit mode, Program Edit mode, or Effect Edit mode.

To enter Drumkit Edit mode, set the oscillator mode to DRUMS in Program Edit mode, and then press the [EDIT/ENTER] key (refer to p.31).

3. Performance Edit mode

PERFORM-COMMON 1

<Effect Thru Switch>

(Effect on), ((Thru)

CPERFORM-COMMON 1>
CFFECT OTHRU

000 Cho-Dly

000 Cho-Dly

127 CNT

When you press the [INC+] key to select " ," the effect will be bypassed.

This setting is not saved as part of a performance.

<Effect Bank>

P, U, A, B, C, u, a, b, c, G

(PERFORM-COMMON 1)

EFFECT OTHRU

MESTER

000 Cho-Dly

VOL BAL

REMBES UP+LO 127 CNT

Changes the bank of the effect used by the current performance (refer to p.30).

<Effect Program>

000...099 (other than bank G) **001...128** (G bank only)

Changes the program number of the effect used by the current performance.

A number cannot be selected when the <Effect Bank> is P.

In Performance Play mode, changing the sound selected for the upper part will also cause the effect to change in tandem with the sound. The effect number specified in Program Edit or Combination Edit will be selected. In Multi mode, the effect will not change in tandem with the sound.

<Damper Assign>

UP+LO, LOWER, UPPER

When the Global mode <Single-channel Layer/Split> is on and the [LAYER/SPLIT] key is on, receiving a control change #64 (press the damper pedal) on the MIDI channel of the Upper part will apply the damper effect to the Upper/Lower parts.

(PERFORM-COMMON 1)

EFFECT OTHRU

000 Cho-Dly

VOL BAL

ORNERE UF-LO

127 CNT

UP+LO:

The damper will apply to both parts.

LOWER:

The damper will apply only to the Lower part.

UPPER:

The damper will apply only to the Upper part.

<Master Volume>

Adjusts the volume of the entire performance.

In Multi mode, this will adjust the volume of all parts. In Performance Play/Edit modes, this is used to adjust the volume balance etc. between each performance. In Multi mode, this is used to create fade-in/out effects during playback. This parameter can be controlled using the MIDI system exclusive message Master Volume.

(Refer to "Universal exclusive messages" at the end of the manual.)

<Master Balance>

This shifts the panpot settings of the entire performance

In Multi mode, the panpot of all parts will be shifted. This will have no effect on parts which are set to RND or OFF.

This parameter can be controlled using the MIDI system exclusive message Master Balance.
(Refer to "Universal exclusive messages" at the end of

PERFORM-COMMON 2

<Upper Part Number>

01...16

the manual.)

(PERFORM-COMMON 2)
USPER:01 OCTAVE :+00
LOWER:02 S.POINT:C 4

Specifies the part number of the Upper part.

<Lower Part Number>

01...16

Specifies the part number of the Lower part.

<Performance Octave>

-2, -1, 0, +1, +2

(PERFORM-COMMON 2)
UPPER:01 DOTAVE :+000
LOWER:02 S.POINT:C 4

Transposes the Upper part and Lower part in Performance Play mode by the specified number of octaves. +1 will raise the pitch one octave, and +2 will raise the pitch two octaves. Negative (–) settings will lower the pitch. The location of the split point will not be affected.

This applies only to the Upper and Lower parts in Performance Play/Edit modes, and does not affect the other parts or Multi mode.



<Split point>

A0...C8

Specifies the key (note number) at which the Upper and Lower parts will be divided when the Single-channel Split function is on.

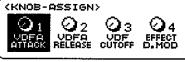
The note specified here and all higher notes will be sounded by the Upper sound.

This parameter can also be set by holding down the [EDIT/ENTER] key and pressing a note on your keyboard (i.e., receiving a note number).

KNOB-ASSIGN

<Control knob #1 Type>

₹, VDFA ATTACK, VDFA RELEASE, VDFA DECAY, VDF CUTOFF, EFFECT D.MOD, Lo:Up Balance, PAN POT, Porta TIME, FX.1 SEND, FX.2 SEND, Volume, Express, Mod.2, Mod.3, CTRL#000...CTRL#095



Specifies the parameter which will be controlled by control knob 1.

The parameter that you specify here will be assigned to the Realtime Controller [ASSIGN 1/] knob of Performance Play mode. The specified parameter will function when the [SELECT] key has been pressed to make the third LED light.

; ;

No function

VDFA ATTACK:

Adjusts the attack times of the VDF and VDA EGs. The Part parameter EG Attack Time will be edited. Refer to p.72 <EG Attack Time>.

Control change #73 will be transmitted from MIDI OUT and TO HOST.

VDFA RELEASE:

Adjusts the release times of the VDF and VDA EGs. The Part parameter EG Release Time will be edited. Refer to p.72 <EG Release Time>.

Control change #72 will be transmitted from MIDI OUT and TO HOST.

VDFA DECAY:

Adjusts the decay times of the VDF and VDA EGs. The Part parameter EG Decay Time will be edited. Refer to p.72 <EG Decay Time>.

Control change #75 will be transmitted from MIDI OUT and TO HOST.

VDF CUTOFF:

Adjusts the cutoff frequency.

The Part parameter Cutoff Frequency will be edited. Refer to p.75 <Cutoff Frequency>.

Control change #74 will be transmitted from MIDI OUT and TO HOST.

EFFECT D.MOD:

Effects Dynamic Modulation will be controlled.
Regardless of the Effect Dynamic Modulation Source

setting, the effect will apply at the depth specified by the Effect Dynamic Modulation Intensity setting. This will apply to both effects 1 and 2. Refer to p.60 <Effect 1 Dynamic Modulation Intensity>. Control change #12 will be transmitted from MIDI OUT and TO HOST.

Lo:UP BALANCE:

Adjusts the volume balance between the sounds of the upper part and the lower part.

In cases other than layer or split, setting this to the Lower side will mean that no sound will be heard.

PANPOT:

Adjusts the panpot.

This edits the Part parameter Panpot.

Refer to p.71 < Panpot>.

Control change #10 will be transmitted from MIDI OUT and TO HOST.

Porta TIME:

Adjust the portamento time.

This edits the Part parameter Portamento.

Refer to p.76 < Portamento Time>.

Control change #5 will be transmitted from MIDI OUT and TO HOST.

FX1 SEND:

Adjusts effect C send.

This edits the Part parameter C Send Level. Refer to p.71 <C Send Level>.

Control change #91 will be transmitted from MIDI OUT and TO HOST.

FX2 SEND:

Adjusts effect D send.

This edits the Part parameter D Send Level. Refer to p.72 <D Send Level>.

Control change #93 will be transmitted from MIDI OUT and TO HOST.

Volume:

Adjusts the volume of the part.

This edits the Part parameter Volume.

Refer to p.71 <Volume>.

Control change #7 will be transmitted from MIDI OUT and TO HOST.

Express:

Adjusts the volume of the part.

The volume of the part is determined by the product of Expression and Volume. Refer to p.71 <Expression>. Control change #11 will be transmitted from MIDI OUT and TO HOST.

Mod.2

Applies the effect specified by MOD.2 of the Part Edit mode Mod section. Refer to p.73 <Part Pitch Bend Range> – p.74 <Part VDA LFO Depth>.

Control change #16 will be transmitted from MIDI OUT and TO HOST.

Mod.3

Applies the effect specified by MOD.3 of the Part Edit mode Mod section. Refer to p.73 <Part Pitch Bend Range> – p.74 <Part VDA LFO Depth>.

Control change #17 will be transmitted from MIDI OUT and TO HOST.

CTRL#000...CTRL#095

The specified control change (#0-#95) will be transmitted from MIDI OUT and TO HOST. If the N1R is able to respond to the transmitted message, the corresponding change will occur in the sound.

The assignment you specify here and the value edited in the performance will be memorized when you write the performance.

<Control knob #2 Type>

<Control knob #3 Type>

<Control knob #4 Type>

(Same as Control knob #1)

ARPEGGIATOR 1

<Arpeggio Types>

01...20

(ARPEGGIATOR 1)
TYPE: 04 ALT2
ARPG.SW : OFF
ARPG.OCT: 3
L/K.S: LATCH SPEED: 076

Selects the arpeggiator pattern. 20 types are available.

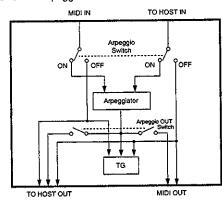
01. UP	08. ARP 3	15. B-SOUL
02. DOWN	09. ARP 4	16. B-JAZZ
03. ALT1	10. ARP 5	17. D-TECHNO
04. ALT2	11. ARP 6	18. D-JUNGLE
05. RANDOM	12. B-TECHNO	19. D-FUNK
06. ARP 1	13. B-DANCE	20. D-R&B
07. ARP 2	14. B-FUNK	

<Arpeggio Switch>

OFF, ON

Specifies whether or not the arpeggiator will be left on when the performance is changed.

Signal flow for arpeggiator ON/OFF



The diagram shows the example of setting the Global parameter PC I/F TO PORT = Emulate, and MIDI Channel To Port A as the input for TO HOST IN.

<Arpeggio Octave>

1, 2, 3, 4

Specifies the octave range of the arpeggio produced by the arpeggiator.

If the note data transmitted from MIDI OUT would exceed 127 (or does not exceed 0), one octave will be subtracted (or added) before the note is transmitted.

<Latch/Key Sync>

OFF, LATCH, K.SYNC, L&K.S

Specifies how the arpeggio will be controlled by the keyboard. Operation of each type is as follows.

(A) OFF

The arpeggio will begin playing at the specified speed regardless of the timing at which the keys are pressed.

(B) LATCH

The arpeggio will continue repeating even after the keys are released.

(C) K.SYNC

While with setting (A) the arpeggio will play without regard to the timing at which the keys are pressed, this setting causes the arpeggio to start at the moment that the keys are pressed.

(D) L&K.S

The settings of (B) and (C) will both apply.

If you wish to synchronize the beats of the arpeggio with an external sequencer, select OFF or LATCH.

<Arpeggio Speed>

40...240 [BPM]

Specifies the speed (tempo) of the arpeggio. This also specifies the tempo of the MIDI clock that is transmitted from MIDI OUT.

If Global mode <Clock Source> is set to MIDI or PCIF so that the arpeggiator is operating on an external clock, this setting will be ignored.



40

ARPEGGIATOR 2

<Arpeggio Step Base>

(quarter note), \int_3 (quarter note triplet), \int (eighth note), \int_3 (eighth note triplet), \int (16th note), \int_3 (16th note triplet)

<ARPEGGIATOR 2>
STEPBASE:
SORT: ON
VEL : 127 ZONE: LOWER
GATE: 080% SWING: +00

Specifies the note value for each step of the arpeggio.

Arpeggio Velocity>

001...127, KEY, STEP

Specifies the strength (velocity) of the arpeggio notes. With a setting of 001–127, the notes of the arpeggio will sound at the specified velocity. With a setting of KEY, the velocity with which you play the keyboard will be used.

With a setting of STEP, the velocity that has been specified for each step will be used.

<Arpeggio Gate>

001...100 [%], STEP

Specifies the note length (gate time) of each step of the arpeggio. With a setting of 100%, notes will be the same length as the step time. With a setting of 50%, they will be half the gate time.

With a setting of STEP, the step time that has been specified for each step will be used.

<Arpeggio Sort>

OFF, ON

Specifies whether the arpeggio will be sorted. With a setting of **ON**, the notes you press will be sorted in order of their pitch, and played. With a setting of **OFF**, the notes will be played in the order in which they were pressed.

<Arpeggio Zone>

LOWER, UPPER, ALL

Specifies the part which the arpeggiator will use when the Split or Layer function (refer to p.13) is turned on.

(A) LOWER

When the Split function is on, the arpeggiator will function in the keyboard area below the split point.

When the Layer function is on, the arpeggiator will function only for the Lower part.

(B) UPPER

When the Split function is on, the arpeggiator will function in the keyboard area above the split point.

When the Layer function is on, the arpeggiator will function only for the Upper part.

(C) ALL

The arpeggiator will function for both the Lower and Upper parts.

<Arpeggio Swing>

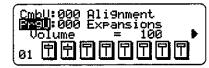
-99...00...+99 [%]

Moves the timing of even-numbered steps forward or backward to modify the groove.

4. Combination Edit mode

<Timbre Bank Select>

PrgU, A, B, C, GM-b, GM-a, r:01...r:40, r:CM, y:01...y101, ySFX, yDr2, rDrm, kDrm



Selects the sound bank for each timbre program in the combination.

<Timbre Program Number Select>

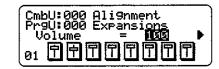
000...099 (for sound banks PrgU, A, B, C)
001...128 (for sound banks other than the above)



Selects the program number for each timbre program in the combination.

<Timbre Volume>

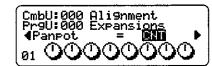
000...127



Specifies the volume for each timbre program in the combination.

<Timbre Panpot>

RND, L63...CNT...R63, OFF

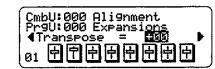


Adjusts the panpot of each timbre. With a setting of CNT, that timbre will be heard from the center. With a setting of RND, the sound will be heard from a random location each time a note is played. This setting also functions as the balance for the amount sent to the effect section (refer to p.59). When this is OFF, only C and D will be output from the program.

The panpot value of the program parameter for each timbre program will be added to this value to determine the actual setting.

<Timbre Transpose>

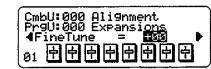
-24...00...+24



Each timbre in the combination can be transposed in semitone steps.

<Timbre Fine Tune>

-50...00...+50



Adjusts the fine tuning of each timbre in the combination.

<Timbre C Send Level>

000...127



Specifies the amount of sound that will be sent from each timbre of the combination to the effect used by the combination.

This parameter will be multiplied by the Part C/D Send Level to determine the final amount of the effect.

The program parameter C/D Send Level of each timbre program will be ignored.

Please be aware that when a GM System ON message etc. is received, the part C (REV) send will be set to 40, and D (CHO) send will be set to 00.

<Timbre D Send Level>

000...127



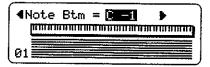
As with C Send Level, this specifies the amount of sound that will be sent from each timbre to the effect.





<Note Window Bottom>

C-1...G9

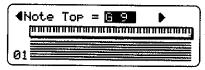


Specifies the lowest note for which each timbre in the combination will sound.

This can also be specified by holding down the [EDIT/ENTER] key and pressing a note.

<Note Window Top>

C-1...G9



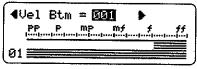
Specifies the highest note for which each timbre in the combination will sound.

This can also be specified by holding down the [EDIT/ENTER] key and pressing a note.

By setting the **note window**, you can cause a program to sound only in a specified range of the keyboard.

<Velocity Window Bottom>

001...127



Specifies the minimum velocity (MIDI data that indicates the force with which a note was played) for which each timbre in the combination will sound.

<Velocity Window Top>

001...127



Specifies the maximum velocity for which each timbre in the combination will sound.

By setting the **velocity window**, you can cause a program to sound only for notes which are played with a specific range of force.

<Receive Note On>

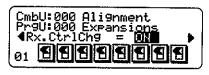
ON, OFF



Specifies whether or not MIDI note-on messages will be received. If this parameter is OFF, the timbre will be as though it were muted, and will not sound.

<Receive Control Change>

ON, OFF



Specifies whether or not MIDI control change messages will be received. If this parameter is **OFF**, the timbre will not receive MIDI control change messages.

<Receive Pitch Bend>

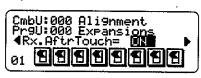
ON, OFF



Specifies whether or not MIDI pitch bend messages will be received. If this parameter is OFF, the timbre will not receive MIDI pitch bend messages.

<Receive Aftertouch>

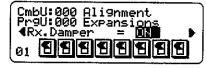
ON, OFF



Specifies whether or not MIDI aftertouch messages will be received. If this parameter is **OFF**, the timbre will not receive MIDI aftertouch messages.

<Receive Damper>

ON OFF



Specifies whether or not MIDI damper messages will be received. If this parameter is **OFF**, the timbre will not receive MIDI damper messages.

<Receive Portamento>

ON, OFF



Specifies whether or not MIDI portamento messages will be received. If this parameter is **OFF**, the timbre will not receive MIDI portamento messages.

<Effect Bank Select>

U, A, B, C, u, a, b, c, G



Specifies the bank of the effect which the combination sound will use (refer to p.30). Here it is not possible to select "P."

 From this display page, you can press the [EDIT/ ENTER] key to enter Effect Edit mode.

<Effect Number Select>

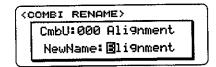
001...128 (for effect bank G)
00...99 (for effect banks other than the above)



Selects the number of the effect which the combination sound will use.

 From this display page, you can press the [EDIT/ ENTER] key to enter Effect Edit mode.

<Combination Rename>



Here, you can modify the name of the combination. Use the CURSOR [◄][▶] keys to select the character that you wish to modify, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the character.

The following characters and symbols can be used:

		11	#	\$	%	8.	?	()	*	+	,			_
0	1	2	N	4	15	b	7	8	9	7.0	7	<	=	>	?
a	Ĥ	В	O	D	Ε	F	G	Н	Ī	J	K	L	[1]	H	0
F	Q	R	IJ)	T	Ū	Ų	Ы	X	>	Z	Ε	#]	^	_
	ā	ь	C	d	æ	f	3	h	i	j	k	1	m	n	0
F	역	۲-,	s	t	u	Ų	W	×	ű,	I	(-)	+	÷

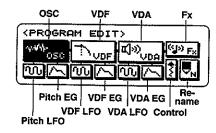




5. Program Edit mode

<Program Edit>

OSC, Pitch LFO, Pitch EG, VDA, VDF LFO, VDF EG, VDA, VDA LFO, VDA EG, Fx (Effect), Control, Rename



Selects the section that you wish to edit (refer to p.26).

Press the [EDIT/ENTER] key to enter the section you selected.

OSC

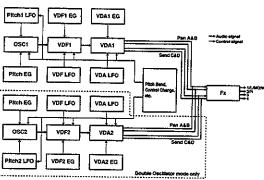
<Oscillator Mode>

SINGLE, DOUBLE, DRUMS



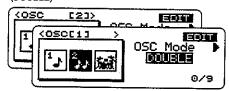
This specifies whether one or two oscillators will be used, or whether a drumkit oscillator will be used. If you select SINGLE, one set of oscillator, filter and amplifier will be used. In this case, the N1R will be able to play a maximum of 64 notes simultaneously.

If you select **DOUBLE**, two sets of oscillators, filters and amplifiers will be used, allowing you to combine two different sounds (or the same sound) to be played as one sound, so that a richer and more sophisticated sound can be created. However in this case, the **N1R** will be able to play a maximum of 32 notes simultaneously.



When DOUBLE is selected, you can press the [EDIT/ENTER] key in subsequent edit pages to switch the indicator located in the LCD between [1] and [2]. This indicates which of the two sets of oscillators, filters and amplifiers you are currently editing. I.e., oscillator, filter and amplifier settings with the same number ([1] or [2]) belong to the same system.

(DOUBLE)

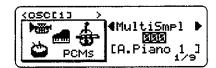


If you select **DRUMS**, you can choose a drumkit. Unlike a conventional multisample, a drumkit plays a different percussion instrument sound for each note.

When the oscillator mode is set to DRUMS, you can press the [EDIT/ENTER] key to enter Drumkit Edit mode, and edit the various parameters of the drumkit (refer to p.57).

<Multisample Select>

000...562



Selects the multisample (refer to p.115) that you wish to use. (When OSC Mode is "SINGLE" or "DOUBLE")

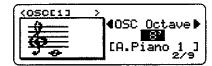
<Drumkit Select>

000...038

Selects the drumkit (refer to p.105) that you wish to use. (When OSC Mode is "DRUMS")

<Octave Select>

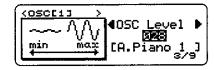
32', 16', 8', 4'



Adjusts the pitch of the oscillator in one-octave units. 8' is the standard pitch. If you are using a drumkit oscillator, set this to 8'.

<Oscillator Level>

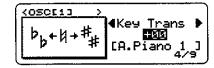
000...127



Adjusts the volume of the oscillator.

<Key Transpose>

-12...00...+12



Adjusts the pitch of the oscillator in semitone steps.

<Fine Tune>

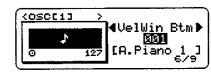
-99...00...+99



Makes fine adjustments to the pitch of the oscillator. When OSC Mode is DOUBLE, this parameter is also used to create detuning between oscillators 1 and 2.

<Velocity Window Bottom>

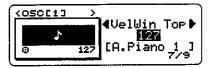
001...127



Specifies the lower limit of the velocity for which the oscillator will sound.

<Velocity Window Top>

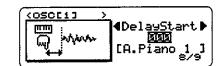
001...127



Specifies the upper limit of the velocity for which the oscillator will sound.

<Delay Start>

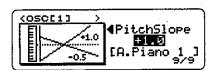
000...127



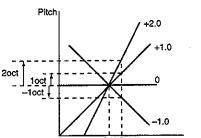
Specifies the time from when the note-on message is received until the oscillator actually begins to sound.

<Pitch Slope>

-1.0...0.0...+2.0



Specifies how the pitch will be related to the keyboard position. When this parameter is set to +1.0, the pitch will rise one octave as the note number increases by 12 (i.e., for every 12 notes). This is the normal setting. The following diagram shows how the value of this parameter will affect the way in which the keyboard determines the pitch.







PITCH LFO

<Pitch LFO Waveform>

TRIANGLE, SAW UP, SAW DOWN, SQUARE 1, SQUARE 2, RANDOM



Selects the waveform which the pitch LFO will use.

<Pitch LFO Frequency>

000...127



Specifies the frequency of the pitch LFO waveform.

<Pitch LFO Intensity>

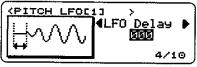
-128...000...+127



Specifies the depth (strength) of the pitch LFO effect.

<Pitch LFO Delay>

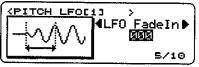
000...127



Specifies the time from note-on until when the pitch LFO begins to take effect.

<Pitch LFO Fade-in Time>

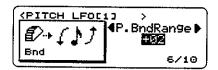
000...127



After the Delay Time has elapsed, specify the time from when the LFO begins to take effect until the specified intensity is reached.

<Pitch Bend Range>

-24...00...+24

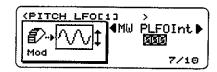


Specifies the range of pitch bend in semitones.

This parameter is valid only if the Part parameter <Part Pitch Bend Range> (p.73) is set to PRG.

<Modulation Wheel Pitch LFO Intensity>

000...127

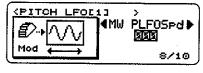


Specifies the depth with which control change #1 (the modulation wheel) will control the pitch LFO.

This value will be added to the value of the Part parameter <Part Pitch LFO Depth>.

<Modulation Wheel Pitch LFO Speed>

000...127



Adjusts the amount of control that control change #1 (the modulation wheel) will have on the frequency of the Pitch LFO.

This value is added to the value of the Part parameter <Part LFO Rate>.

<Aftertouch Pitch LFO Intensity>

000...127



Adjusts the amount of control that aftertouch will have on the Pitch LFO modulation depth.

This value is added to the value of the Part parameter <Part Pitch LFO Depth>.

<Aftertouch Pitch LFO Speed>

000...127



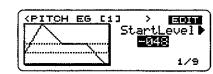
Adjusts the amount of control that aftertouch will have on the frequency of the Pitch LFO.

This value is added to the value of the Part parameter <Part LFO Rate>.

PITCH EG

<Pitch EG Start Level>

-128...000...+127



Specifies the pitch at the instant of note-on.

This value is added to the value of the Part parameter <Pitch EG Start Level>.

<Pitch EG Attack Time>

000...127

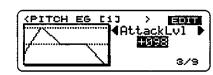


Specifies the time from note-on until the attack level is reached.

This value is added to the value of the Part parameter <Pitch EG Attack Time>.

<Pitch EG Attack Level>

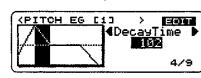
-128...000...+127



Specifies the pitch after the attack time has elapsed.

<Pitch EG Decay Time>

000...127



Specifies the time over which the pitch will return to the standard pitch, after the attack time has elapsed.

<Pitch EG Release Time>

000...127



Specifies the time from note-off until the release level is reached.

This value is added to the value of the Part parameter <Pitch EG Release Time>.

<Pitch EG Release Level>

-128...000...+127



Specifies the pitch after the release time has elapsed.

This value is added to the value of the Part parameter <Pitch EG Release Level>.

<Pitch EG Intensity>

-128...000...+127



Specifies the depth (strength) of the pitch EG effect.

<Pitch EG Intensity Velocity Sensitivity>

-128...000...+127



Specifies how velocity will affect the way in which the pitch EG changes.

<Pitch EG Time Velocity Sensitivity>

-128...000...+127



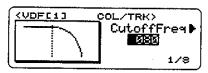
Specifies how velocity will affect the times of the pitch EG.



VDF

<Cutoff Frequency>

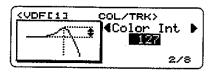
000...127



Specifies the cutoff frequency of the VDF (the brightness of the sound).

<Color Intensity>

000...127

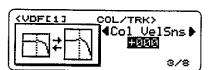


This setting boosts the level in the region of the VDF cutoff frequency, adding a distinctive character to the sound.

For some types of multisample, the effect of this parameter may not be obvious.

<Color Velocity Sensitivity>

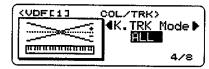
-128...000...+127



Specifies how velocity will affect the Color intensity.

<VDF Keyboard Tracking Mode>

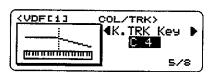
OFF, LOW, HIGH, ALL



Specifies how keyboard tracking will be applied. <VDF Keyboard Tracking Key> specifies the key location at which keyboard tracking will occur. With a setting of OFF, keyboard tracking will not apply.

<VDF Keyboard Tracking Key>

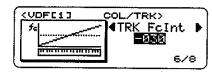
C-1...G9



If the Keyboard Tracking Mode is LOW or HIGH, this parameter specifies the key at which tracking will begin. If the tracking mode is ALL, this parameter specifies the center key.

<VDF Keyboard Tracking Intensity>

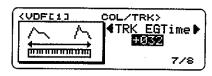
-128...000...+127



Specifies how the keyboard location will affect the VDF cutoff frequency.

<VDF Keyboard Tracking EG Time>

-128...000...+127

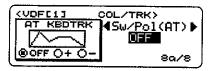


Specifies how the keyboard location will affect the various VDF EG times.

If this value is increased in the positive (+) direction, VDF EG times will be shorter when you play higher notes in the area specified by Keyboard Tracking Mode and Keyboard Tracking Key, causing the tone (brightness) of the sound to change more rapidly. When you play lower notes in this area, VDF EG times will be longer, causing the tone to change more slowly.

<VDF Keyboard Tracking EG Time Switch &</p> Polarity (AT), (DT), (ST), (RT)>

OFF, ON(+), ON(-)



Specifies the direction of the change in VDF EG Attack Time (AT), Decay Time (DT), Slope Time (ST) and Release Time (RT) that will be produced by VDF keyboard tracking.

For each time, a setting of "+" will cause notes played above the Keyboard Tracking Key to have shorter times, and a setting of "-" will cause them to have longer times. With a setting of "OFF" there will be no effect.

This parameter specifies the direction (±) in which each of the four EG time parameters will change. The amount of change is determined by the value of the Keyboard Tracking EG Time parameter.

VDF LFO

<VDF LFO Waveform>

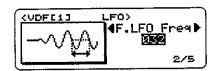
TRIANGLE, SAW UP, SAW DOWN, SQUARE 1, **SQUARE 2, RANDOM**



Selects the waveform which the VDF LFO will use.

<VDF LFO Frequency>

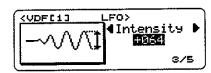
000...127



Specifies the frequency of the VDF LFO waveform.

<VDF LFO Intensity>

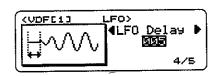
-128...000...+127



Specifies the depth (strength) of the VDF LFO effect.

<VDF LFO Delay>

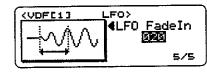
000...127



Specifies the time from note-on until the VDF LFO begins to take effect.

<VDF LFO Fade-in Time>

000...127



After the Delay Time has elapsed and the LFO begins to take effect, this parameter specifies the time over which the specified Intensity is reached.

VDF EG

<VDF EG Attack Time>

000...127



Specifies the time from note-on until the Attack Level is reached.

<VDF EG Attack Level>

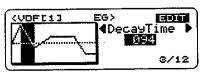
-128...000...+127



Specifies the VDF cutoff value that will be reached after the Attack Time.

<VDF EG Decay Time>

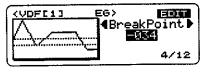
000...127



After the Attack Time has elapsed, this parameter specifies the time until the Break Point is reached.

<VDF EG Break Point>

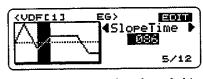
-128...000...+127



Specifies the VDF cutoff value that will be reached after the Decay Time.

<VDF EG Slope Time>

000...127

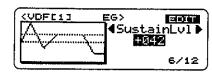


After the Decay Time has elapsed, this parameter specifies the time until the Sustain Level is reached.



<VDF EG Sustain Level>

-128...000...+127



Specifies the VDF cutoff level that will be held after the Slope Time has elapsed until note-off.

<VDF EG Release Time>

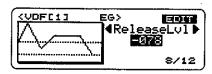
000...127



Specifies the time from note-off until the Release Level is reached.

<VDF EG Release Level>

-128...000...+127



Specifies the VDF cutoff level that will be reached after the Release Time has elapsed.

<VDF EG Intensity>

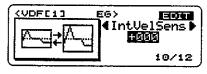
-128...000...+127



·Specifies the depth (strength) of the VDF EG effect.

<VDF EG Intensity Velocity Sensitivity>

-128...000...+127



Specifies how velocity will affect the VDF EG effect.

<VDF EG Time Velocity Sensitivity>

000...127

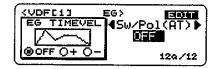


Specifies how velocity will affect the times of the <VDF EG Attack Time>, <VDF EG Decay Time>, <VDF EG Slope Time>, and <VDF EG Release Time> parameters.

The direction of change will depend on the positive or negative setting of the <VDF EG Time Velocity Sensitivity Switch & Polarity> parameter.

<VDF EG Time Velocity Sensitivity Switch & Polarity (AT), (DT), (ST), (RT)>

OFF, ON(+), ON(-)



Specifies the direction of the effect that velocity will have on the times of the <VDF EG Attack Time>, <VDF EG Decay Time>, <VDF EG Slope Time>, and <VDF EG Release Time> parameters.

With a setting of "+," the corresponding VDF EG time will become shorter as you play more strongly, producing a more rapid change in tonal character. When you play softly, the VDF EG times will become longer, producing a slower change in tonal character.

With a setting of "-," the corresponding VDF EG time will become longer as you play more strongly, producing a slower change in tonal character. When you play softly, the VDF EG times will become shorter, producing a more rapid change in tonal character.

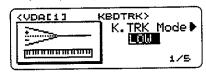
With a setting of OFF, velocity will have no effect on the times of these parameters.

The degree to which VDF EG times will change is specified by the <VDF EG Time Velocity Sensitivity> parameter.

VDA

<VDA Keyboard Tracking Mode>

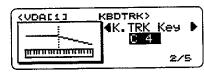
OFF, LOW, HIGH, ALL



Specifies how keyboard tracking will be applied. <VDA Keyboard Tracking Key> specifies the keyboard location at which keyboard tracking will be applied. With a setting of OFF, keyboard tracking will not apply.

<VDA Keyboard Tracking Key>

C-1...G9



If the Keyboard Tracking Mode is **LOW** or **HIGH**, this parameter specifies the key at which tracking will begin. If the tracking mode is **ALL**, this parameter specifies the center key.

<VDA Keyboard Tracking Intensity>

-128...000...+127



Specifies how the keyboard location will affect the volume change produced by the VDA.

<VDA Keyboard Tracking EG Time>

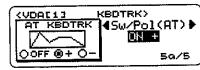
-128...000...+127



Specifies how the keyboard location will affect the various VDF EG times. (Refer to the explanation of <VDF Keyboard Tracking EG Time> on p.50.)

<VDA Keyboard Tracking EG Time Switch & Polarity (AT), (DT), (ST), (RT)>

OFF, ON(+), ON(-)



Specifies the direction of the change in VDA EG Attack Time (AT), Decay Time (DT), Slope Time (ST) and Release Time (RT) that will be produced by VDA keyboard tracking. (Refer to the explanation of <VDF Keyboard Tracking EG Time Switch & Polarity> on p.50.)

VDA LFO

<VDA LFO Waveform>

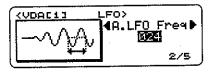
TRIANGLE, SAW UP, SAW DOWN, SQUARE 1, SQUARE 2, RANDOM



Selects the waveform which will be used for VDA modulation.

<VDA LFO Frequency>

000...127



Specifies the frequency of the VDA modulation waveform.

<VDA LFO Intensity>

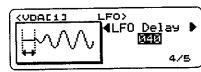
-128...000...+127



Specifies the depth (strength) of the VDA modulation effect.

<VDA LFO Delay>

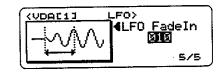
000...127



Specifies the time from note-on until VDA modulation begins to take effect.

<VDA LFO Fade-in Time>

000...127



After the Delay Time has elapsed and modulation begins to take effect, this parameter specifies the time over which the specified Intensity is reached.

Reference guide



VDA EG

<VDA EG Attack Time>

000...127



Specifies the time from note-on until the Attack Level is reached.

This value is added to the value of the Part parameter <EG Attack Time>.

<VDA EG Attack Level>

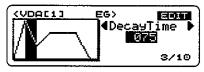
000...127



Specifies the volume that will be reached after the Attack Time.

<VDA EG Decay Time>

000...127

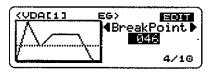


After the Attack Time has elapsed, this parameter specifies the time until the Break Point is reached.

This value is added to the value of the Part parameter <EG Decay Time>.

<VDA EG Break Point>

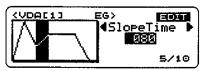
000...127



Specifies the volume level that will be reached after the Decay Time.

<VDA EG Slope Time>

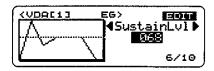
000...127



After the Decay Time has elapsed, this parameter specifies the time until the Sustain Level is reached.

<VDA EG Sustain Level>

000...127



Specifies the volume level after the Slope Time has elapsed.

<VDA EG Release Time>

000...127

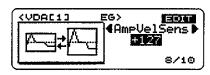


Specifies the time from note-off until the volume reaches 0.

This value is added to the value of the Part parameter <EG Release Time>.

< VDA EG Amplitude Velocity Sensitivity>

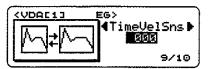
-128...000...+127



Specifies how velocity will affect the changes produced by the VDA EG.

<VDA EG Time Velocity Sensitivity>

000...127

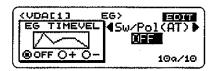


Specifies how velocity will affect the various VDA EG times.

Refer to the explanation for <VDF EG Time Velocity Sensitivity> on p.52.

<VDA EG Time Velocity Sensitivity Switch & Polarity (AT), (DT), (ST), (RT)>

OFF, ON(+), ON(-)

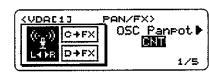


Specifies the direction of the change in VDA EG Attack Time (AT), Decay Time (DT), Slope Time (ST) and Release Time (RT) that will be produced by velocity. Refer to the explanation for <VDF EG Time Velocity Sensitivity Switch & Polarity> on p.52.

Fx

<Oscillator Panpot>

RND. L63...CNT...R63. OFF. ***



Specifies the output balance of the oscillators. This will be the input to the effect section.

In the case of a drumkit oscillator, the setting for each instrument (note) will be used, and the value of this parameter will be displayed as "***."

<C Send Level/D Send Level>

000...127



Specifies the amount that will be output to C and D. This will be the input to the effect section.

In Multi mode, this parameter is ignored, and the C/D Send Levels of each Part will be used.

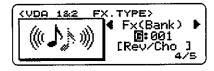
In Performance Play/Edit modes, this parameter will be multiplied by the Part parameter C/D Send Level to determine the actual result. In the case of a program selected by a combination, this parameter will be ignored, and the C/D Send Levels of the Timbre and the Part will be multiplied to determine the actual result.

Please be aware that when a GM System On message is received, the Part C (REV) Send will be set to 40, and the D (CHO) Send will be set to 00.

In the case of a drumkit oscillator, the send amount for each instrument (note) will be multiplied by the value of this parameter to determine the actual send levels to C and D.

<Effect Bank>

U, A, B, C, u, a, b, c, G



Selects the bank of the effect which the program sound will use (refer to p.30). It is not possible to select "P" for this setting.

From this display, you can press the [EDIT/ENTER] key to enter Effect Edit mode.

<Effect Number>

001...128 (for effect bank G)

000...099 (for effect banks other than the above)

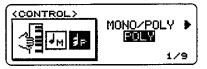
Specifies the number of the effect which the program sound will use.

 From this display, you can press the [EDIT/ENTER] key to enter Effect Edit mode.

Control

<Mono/Poly>

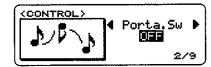
MONO, POLY



Specifies whether the program sound will be played monophonically (single notes) or polyphonically (chords). When **MONO** is selected, only one note will sound even if you press two or more notes.

<Portamento Switch>

ON, OFF



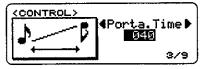
Turns portamento **ON** or **OFF**. (Portamento creates a smooth change in pitch between notes.)

When the setting is changed or when a program change occurs, this will be copied to the Part parameter <Portamento Switch>.

Combination sounds will ignore this setting.

<Portamento Time>

000...127



Specifies the portamento time (the time over which the pitch will move to the next note).

The value of this parameter will be added to the value of the Part parameter <Portamento Time>.



Specifies the panning (the location when heard in ste-

With a setting of **OFF**, there will be no output from

<Assign Mode>

Single, Multi



(A) Single

If an identical note-on message is received when the note is already sounding, the currently-sounding note will be forced off, and a new note will be started.

(B) Multi

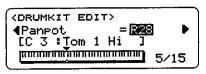
<Exclusive Group>

OFF, 001...127

If this parameter is set to a value of 001-127, the cur-

RND, L63...CNT...R63, OFF

<Panpot>



reo) for the currently selected instrument. CNT indicates center. With a setting of RND, the sound will be heard from a different location each time a note is played.

either A or B.

Specifies how the currently selected instrument will sound if it receives multiple note-on messages in suc-

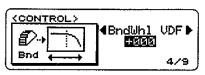
If an identical note-on message is received when the note is already sounding, the currently-sounding note will be allowed to continue, and a duplicate note will be started.



rently selected instrument will be prevented from sounding simultaneously with any other note which is set to the same Exclusive Group number. For example since it is physically impossible for a hi-hat cymbal to produce both open and closed sounds simultaneously, you may wish to set open and closed hi-hat sounds to the same Exclusive Group number, so that they will not sound simultaneously.

<Bend Wheel VDF>

-128...000...+127

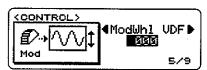


Specifies how the pitch bend wheel will affect the cutoff frequency.

The value of this parameter will be added to the value of the Part parameter <Part VDF Cutoff>.

<Modulation Wheel VDF>

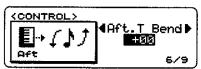
000...127



Specifies how control change #1(the modulation wheel) will affect the VDF cutoff frequency.

<Aftertouch Pitch Bend Range>

-24...00...+24

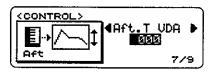


Specifies the range of pitch bend that will be controlled by aftertouch.

The value of this parameter will be added to the value of the Part parameter <Part Pitch Bend Range>.

<Aftertouch VDA>

-128...000...+127

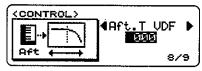


Specifies how aftertouch will affect the VDA volume.

The value of this parameter will be added to the value of the Part parameter <Part VDA Amplifier>.

<Aftertouch VDF>

-128...000...+127

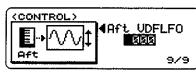


Specifies how aftertouch will affect the VDF cutoff frequency.

The value of this parameter will be added to the value of the Part parameter <Part VDF Cutoff>.

<Aftertouch VDF LFO>

000...127

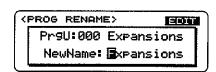


Specifies how aftertouch will affect the depth of VDF LFO modulation.

The value of this parameter will be added to the value of the Part parameter <Part VDF LFO Depth>.

Rename

<Program Rename>



Here, you can modify the name of the program sound. Use the CURSOR [◄][▶] keys to select the character that you wish to modify, and use the [VALUE] knob or the [INC+][DEC-] keys to modify the character.

The following characters and symbols can be used:

					,							_		,	
	Ŀ	"	#	*	7.	8.	,	()	*	+	7	-		/
Ø	1	2	3	4	5	6	7	8	9	1	5	<	=	>	?
ð	I	Β	С	D	Е	F	G	Н	I.	J	K	L	M	М	Ū
Ρ	ß	R	5	Τ	U	U	IJ	X,	Υ;	Z	[¥]	^	_
`	Щ	ũ	c	뀝	₽	f	CII.	h	i	j	k	1	Ιï	ñ	0
F	Ţ	17	ij	4.3	IJ,	U	ij.	Х	ч	Z	1	i)	÷	÷

<Transpose>

-64...00...+63

```
∢Transpose
[C 3 : Tom 1 Hi ]
<del>риспиний и пенинии</del> 3/15
```

6. Drumkit Edit mode

<Drumsample Select>

(DRUMKIT EDIT)

end of this manual.

000...127

<Drumsample Level>

(DRUMKIT EDIT)

◆D.Smpl Level = IET [C 3 Tom 1 Hi]

EC 3 : Tom 1 Hi]

Specifies the drumsample which will be assigned to the currently selected instrument. For details on the avail-

2/15

able drumsamples, refer to the "Drumsample" at the

Specifies the volume of the currently selected instru-

000...303

Transposes the pitch of the currently selected instrument in semitone steps.

The available transposition range will differ slightly depending on the drumsample.

<Fine Tune>

-64...00...+63



Makes fine adjustments to the pitch of the currently selected instrument.

rence guide

<Relative C Send Level>

000...127



Specifies the level that is sent from the currently selected instrument to the effect C input. The actual amount that is sent to the effect C input is determined by multiplying the value of this parameter with the Program parameter C Send Level.

<Relative D Send Level>

000...127



Specifies the level that is sent from the currently selected instrument to the effect D input. The actual amount that is sent to the effect D input is determined by multiplying the value of this parameter with the Program parameter D Send Level.

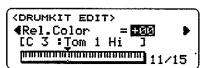
<Relative Cutoff>

-64...00...+63

Adjusts the cutoff frequency (brightness) of the currently selected instrument.

<Relative Color>

-64...00...+63



Adjusts the color (boost at the region of the cutoff frequency) of the currently selected instrument.

For some instruments, adjusting this parameter may not have significant effect.

<Relative Attack Time>

-64...00...+63

Adjusts the attack time of the VDF and VDA (tone and volume) for the currently selected instrument.

<Relative Decay Time>

-64...00...+63



Adjusts the decay time of the VDF and VDA (tone and volume) for the currently selected instrument.

<Receive Note On Switch>

ON, OFF



Specifies whether or not note-on messages will be received for the note number of the currently selected instrument. If this is turned **OFF**, the corresponding note number will not sound.

<Receive Note Off Switch>

ON, OFF

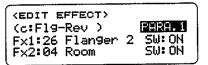


Specifies whether or not note-off messages will be received for the note number of the currently selected instrument. Turn this parameter **OFF** for an instrument that you do not want to stop sounding when it receives a note-off message.

7. Effect Edit mode

<Effect Placement>

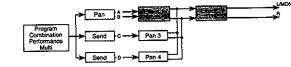
SERIAL, PARA.1, PARA.2, PARA.3, SERI.S, PARA.S



Specifies how the two effects will be connected. For details refer to the diagrams below.

A, B, C, and D parameters are the output from the pan and send settings of Program Play mode <Oscillator Panpot>, <C Send Level / D Send Level>, Combination Edit mode <Timbre Panpot>, <Timbre C Send Level / Timbre D Send Level>, and Multi mode (Performance Play mode) <Panpot>, <C Send Level / D Send Level>.

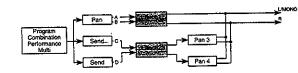
SERIAL (Serial placement)



In serial placement, effects 1 and 2 will be applied to the sound that is input to A and B, and output from L/MONO and R. The sound that is output from C and D will be mixed with the output of effect 1, and will be processed by effect 2 and then output.

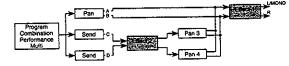
By using the C and D inputs, you can avoid applying effect 1 to specific sounds (or conversely apply effect 1 only to specific sounds), and then apply effect 2 to everything.

PARA.1 (Parallel 1 placement)



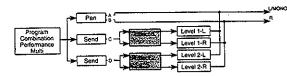
When Parallel 1 is selected, effect 1 will be applied to the sound that is input to A and B. Effect 2 will be applied to the sound that is input to C and D, and this will be mixed with the output of effect 1. Effects 1 and 2 can be used independently.

PARA,2 (Parallel 2 placement)



When Parallel 2 is selected, effect 1 will be applied to the sound that is input to A and B, and then will be output. Effect 2 will be applied to the sound that is input to C and D, and the result will be mixed with the input to effect 1.

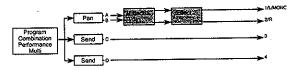
PARA.3 (Parallel 3 placement)



When Parallel 3 is selected, the sound that is input to A and B will be output without further processing. The sound that is input to C and D will be processed by effect 1 and effect 2 respectively, and then pass through an additional assignment before it is mixed into the L/MONO and R outputs. GM normally uses this placement

SERI.S (Serial sub placement)

There is no panning for the effect output.

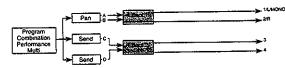


When Serial Sub placement is selected, effects 1 and 2 will be applied to the sound that is input to A and B, and the sound will be output from 1/L/MONO and 2/R. The sound that is input to C and D will be output directly from 3 and 4.

Inputs C and D can be used to send unprocessed sound to external effect units, or to send unprocessed sound to the mixer, etc.

PARA.S (Parallel sub placement)

There is no panning for the effect output.

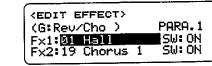


When Parallel Sub placement is selected, effect 1 will be applied to the sound that is input to A and B, effect 2 will be applied to the sound that is input to C and D, and the output of the effects will be sent from 1/L/MONO, 2/R, 3 and 4 respectively.

Sound will be output from 3 and 4 only when effect placement is Serial Sub or Parallel Sub. Also, the sound which is input to C and D can not be heard in the headphones.

<Effect 1 Type>

01...48



Selects one of the 48 effect types for effect 1. When you change the effect selection, the effect parameters (p.62) will be set to their initial values.

If #24 Symphonic Ensemble is selected as the effect type, there will be some effects which cannot be used simultaneously with this effect.

<Effect 1 Switch>

ON, OFF

Turns effect 1 on/off. If this is **OFF**, the effect will not apply.

However in the case of the following effects, the EQ Low and EQ High settings of the equalizer will still be valid even if the effect switch is OFF.

#13 Stereo delay, #14 Cross delay, #19 Chorus 1, #20 Chorus 2, #28 Exciter, #35 Auto pan, #36 Tremolo

<Effect 2 Type>

01...48

<Effect 2 Switch>

ON, OFF

Selects the effect type that will be used by effect 2.

<Effect 1 Balance>

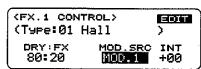
DRY, 99:01...01:99, EFF

(FX.1 CONTROL) EOIT (Type:01 Hall) DRY:FX MOD.SRC INT E0:20 NONE +00

For effect 1, this parameter specifies the proportion of the unprocessed (dry) sound to the processed (effect) sound. A setting of **DRY** will output only the unprocessed sound, and a setting of **EFF** will output only the sound processed by the effect.

<Effect 1 Dynamic Modulation Source>

NONE, MOD1, MOD2, MOD3, AFTR.T, VDA-EG



Specifies the control which will apply dynamic modulation to effect 1. "Dynamic modulation" refers to the capability of controlling a specific effect parameter such as modulation speed, depth, or effect level or balance etc. while you play.

The factory settings are as follows.

MOD1: MIDI CC#1, MOD2: MIDI CC#16, MOD3: MIDI CC#17, AFTR.T: Aftertouch

<Effect 1 Dynamic Modulation Intensity>

-15...00...+15



Specifies the depth of dynamic modulation for effect 1. In Performance Play/Edit modes, you can assign a control knob to EFECT D.MOD to control this. (Refer to Performance Edit mode <Control knob#1 Type>.)

When controlling via MIDI, messages received on the MIDI channel of the Upper part in Performance Play mode will control this effect. In Multi mode, messages received on the Global mode <Exclusive Channel> will control this effect.

<Effect 1 Effect Parameters>

Parameters for effect 1



The parameters will depend on the selected effect type. Refer to "Effect types and parameters."

<Effect 2 Balance>

<Effect 2 Dynamic Modulation Source>

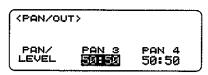
<Effect 2 Dynamic Modulation Intensity>

<Effect 2 Effect Parameters>

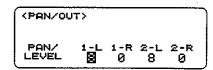
(These are the same as for effect 1.)

<Panpot/Output Level>

OFF, L, 99:01...01:99, R (when Effect Placement is SERIAŁ, PARA.1 or PARA.2)
0...9 (when Effect Placement is PARA.3)



Adjusts the balance and volume for the final output from the effect to the stereo output section. When Effect Placement is SERIAL, PARA.1 or PARA.2, the display will be as shown above, allowing you to adjust the L/R output balance for PAN3 and PAN4.



When Effect Placement is PARA.3, the display will be as shown above, allowing you to adjust the individual levels.

<Effect Rename>

Here, you can modify the name of the effect program. For details refer to <Program Rename> on p.35, p.56.





Reference guide

[]: initial value •: Dynami	[]: Initial Value •: D	
EQ:High country: FX E	EQ Low EQ High and Dry	Balance
3] -12~+12 [-1] ●DRY~FX		(80:20)
		[80:20]
		[80:20]
		[78:22]
1)	(11)	
		[78:22]
		[75:25]
[0] / [-4] • /	[0]	[80:20]
·2] // [+2] ● //	[+2]	[80:20]
2] / [-4] • /	// [+2] // [-4] ● //	[78:22]
<u> </u>		Balance
		[65:35]
	[4]	[75:25]
EQ High Dry: FX E	EQ Low EQ High Dry	Balance
[0] -12~+12 [0] ●DRY~FX		([80:20]
		[80:20]
		· · · · · · · · · · · · · · · · · · ·
EQ High Dry: FX E	EQ Low EQ High Dry	Balance
[0]	~+12 [0] −12~+12 [0] ●DRY	([80:20]
		[70:30]
57		[75:25]
		[60:40]
EQ High Dry: FX I	EQ Low EQ High Dry	Balance
		([50:50]
		[50:50]
	10 [0]	
EQ High Dry: FX I	EQ Low EQ High Dry	Balance
[0] -12~+12 [0] ●DRY~FX	~+12 [0] -12~+12 [0] ●DRY	X [67:33]
	[9]	
122		
		[50:50]
[0] / (0) /	// [0] // [0] /	[50:50]
EQ. High Sold Dry: FX I	EQ Low the Property Control EQ: High the State of the Dry	(Balance :::
		X [50:50]
EQ High Dry: FX	7= [19]	
193	1 191 23	
		(Balance
[6] DRY~FX	~99 [6] . DRY	
[8]	4 [8] ⁴	[50:50]
Dry: FX	Dn,	Balance
DRY~FX	DBY	([50:50]
/		[50:50]
Fast Speed Dry: FX	Fast Speed Dry	
1~99 [69] DRY~FX	1~99 [69] DRY	([34:66]
EQ: High Dry: FX	EQ Low EQ High Dn	(Balance
[0] -12~+12 [0] ●DRY~FX		X [20:80]
[0] * [0] • *		[50:50]
191	[0]	<u> </u>
	3	
		X Balance
30]		[50:50]
		X Balance
	3 10 00 10 10 10 10 10 10 10 10 10 10 10	
		[65:35]
[0]	, [0] [23] 0	X Balance
		X Balance
96] -99~+99 [-75] ●DRY~FX	~99 [96] - 99~ + 99 [- 75] ● DRY	X [50:50]
The second secon		t Level
1077	(1101 Opus)	[10]
<u> </u>	00	
	, (90)	[20]
		X Balance
	~99 [90] —99~+99 [+99] ●DRY	
90] -99~+99 [+99] ●DRY~FX		Y Ralance
90] -99~+99 [+99] ●DRY~FX	Slow Speed Fast Speed Dr	n : 노예대 (노주 : - /
90] -99~+99 [+99] ●DRY~FX Fast Speed Dry: FX		
90] −99~+99 [+99] ●DRY~FX Fast Speed Dry: FX 25] 1~99 [69] DRY~FX	~99 [25] 1~99 [69] DRY	X [30:70]
90] −99~+99 [+99] ●DRY~FX Fast Speed Dry: FX 25] 1~99 [69] DRY~FX Trigger [Multi1] LFO	~99 [25] 1~99 [69] DRY DecayTime Trigger [Multi1]	X [30:70] O Int

^{*:} Dynamic modulation is used to switch between slow and fast.

Effect parameter table

	REVERB	Bayrada 32		D			
1	Hall	Reverb Tim	,	Pre Dela	1/1	E.R Lev	100 100 11
		0.2~9.9	[2.3]	0~200	[60]	0~99	[62
2	Ensemble Hall	- 4	[3.1]	/	[15]	"	[23
3	Concert Hall	4	[3.3]	4	[80]	"	[46
4	Room	0.2~4.9	[1.3]	4	[8]	1	[68
5	Large Room	4	[2.4]	,	[25]	- 4	[51
6	Live Stage	4	[2.2]	"	[12]	,	[81
7	Wet Plate	0~99	[59]	//	[29]	1~10	
8	Dry Plate	7		,		·	[7
9	Spring Reverb	- /	[30]	· · · · · · · · · · · · · · · · · · ·	[26]		[5
	EARLY REFLECTION		[25]		[0]	"	[9
		E.R Time	<u>:</u>			Pre Dela	y
10	Early Reflection 1	100~800	[220]			0~200	[0]
11	4 2	,	[180]			"	[30]
12	≠ 3	"	[300]			4	[90]
474, 1 W	STEREO DELAY	Delay Time	100 mg/m	Delay Tim	e R	Feedbac	
13	Stereo Delay	0~500	[185]	0~500	[370]	-99~+99	[-40]
14	Cross Delay	/	[190]	0 -300			
7511 7 5 1	DUAL MONO DELAY	Delay Time			[380]		[+40]
15				Feedback		Hight Dan	p L
	Dual Mono Delay	0~500	[20]	-99~+99	[0]	0~99	[0]
	MULTI-TAP DELAY	Delay Time	galagas .		1 11 3 4	Delay Tim	
16	Multi-Tap Delay 1	0~500	[175]			0~500	[350]
17	″ 2	4	[200]			, occ	[400]
18	" 3	"	[250]			,	
					- 4		[500]
19	CHORUS Chorus 1	Delay Time		Mod Spe		Mod Dep	
20		0~200	[3]	0.03~30	[0.33]	0~99	[99]
20		"	[2]	*	[0.42]	1	[84]
	CHORUS	Delay Time I	. 1 (5)	Delay Time	e R	Mod Spec	ed :
21	Quadrature Chorus	0~250	[24]	0~250	[12]	●1~99	[30]
22	Crossover Chorus	"	[2]	/	[24]	0.155	[16]
ereli selius	HARMONIC CHORUS	Delay Time 1					
23	Harmonic Chorus			Delay Tim			21/23 to 1
ادع		0~500	[4]	0~500	[12]		
	SYMPHONIC ENSEMBLE	Mod Depth	हेर्र प्रकट	School at mid 8	1.00	adiora (biologia)	1995
24	Symphonic Ensemble	0~99	[92]				
9 7 4 8	FLANGER	Delay Time	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Mod Dept	h	Mod Spec	vi .
25	Flanger 1	0~200	[5]	0~99	[50]	● 1~99	[20]
26	4 2	//	[24]				
27	Crossover Flanger	,			[99]	• "	[42]
			[1]	"	[60]	• "	[22]
20	EXCITER	Blend	25.4	19880 - 400		Emphatic P	oint
28	Exciter	-99~+99	_[+60]			1~10	[01]
	ENHANCER	Harmonic Dens	ity	Hot Spot		Stereo Wid	tth
29	Enhancer	1~99	[28]	1~20	[3]	0~99	[85]
1.1.18	DISTORTION	Drive		Hot Spot		Resonanc	
30	Distortion	1~111	[107]	●0~99	[99]	0~99	
31	Overdrive	, ,,,					[07]
<u> </u>	PHASER		[85]	• *	[70]	4	[63]
			MAM RES	Mod Spee	d	Mod Dept	h 🦠 🧢
32	Stereo Phaser 1	0~99	[98]	●0.03~30	[0.24]	0~99	[90]
33			[96]	• "	[0.24]	. //	[90]
	ROTARY SPEAKER	Vibrato Depti	Legisla di L	N. 1. 1. 1. 12 189 4560		Acceleration	
34	Rotary Speaker	0~15	[2]			4 45	11.01
A ST	TREMOLO	Mod Waveform	17-1	Mod Wave St	1000	1~15 Mod Spee	[12]
35	Auto Pan	SIN, TRI					
36	Tremolo		[TRI]	− 99~+99	[+96]	0.03~30	[0.21]
		"	[TRI]		[-99]	"	[3.9]
	PARAMETRIC EQ	Low Freq		Low Gain	lar law	Mid Freq	240.22
37	Parametric EQ	0~29	[15]	-12~+12	[+06]	●0~99	[50]
	COMBINATION EFFECT SERIAL	Flg / Cho Dela	y a salah	Fig / Cho F.B			
	Chorus-Delay	0~50	[24]	-99~ + 99	[+24]	1~99	
38			4-1		[+80]		[12]
		"	f43 l		I PAUL	- 4	[04]
39	Flanger-Delay	// Delay Time	[1]	Foodbook			
39	Flanger-Delay COMBINATION EFFECT PARALLEL	Delay Time		Feedback		High Dam	
39 40	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb	Delay Time 0∼500	[30]	Feedback 99∼-+99	[0]	> ∴ High Dam 0~99	p [0]
39 40 41	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb	Delay Time 0∼500 ∕/		Feedback -99~+99 /	[0] [0]		
39 40 41	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb	Delay Time 0~500 / Delay Time	[30] [20]	Feedback 99∼-+99	[0] [0]	0~99	[0] . (0]
39 40 41 42	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus	Delay Time 0∼500 ∕/	[30]	Feedback -99~+99 /	[0]	0~99 //	[0] [0] P
39 40 41 42	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb	Delay Time 0~500 / Delay Time	[30] [20] [220]	Feedback -99~+99 / Feedback -99~+99	[0] [0] [+15]	0~99 // High Dam 0~99	[0] [0] P [50]
39 40 41 42	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus	Delay Time 0~500 / Delay Time 0~500 Delay Time	[30] [20] [220]	Feedback -99~+99 Feedback -99~+99 Feedback	[0] [0] [+15]	0~99 #High Dam 0~99 High Dam	[0] [0] p [50]
39 40 41 41 42	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger	Delay Time 0~500 // Delay Time 0~500 Delay Time 0~500 0~500	[30] [20] [220]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	[0] [0] [+15] [+20]	0~99 / High Dam 0~99 High Dam 0~99	[0] [0] P [50] P (60]
39 40 41 41 42	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time	[30] [20] [220] [400]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback	[0] [0] [+15] [+20]	0~99 #High Dam 0~99 High Dam	[0] [0] P [50] P (60]
39 40 41 41 42 42 43	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500	[30] [20] [220] [400]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	[0] [0] [+15] [+20]	0~99 / High Dam 0~99 High Dam 0~99	[0] [0] P [50] P (60]
39 40 41 42 43 44 44	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 0~500	[30] [20] [220] [400]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback	[0] [0] [+15] [+20]	0~99 / High Dam 0~99 High Dam 0~99	[0] [0] P [50] P (60]
39 40 41 42 43 43 44 44 45	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500	[30] [20] [220] [400]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	(0) (0) (1) (+15) (+20) (+40) (+50)	0~99 #ligh Dam 0~99 High Dam 0~99	[0] [0] P [50] P (60]
39 40 41 42 43 44 44 45	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 0~500	[30] [20] [220] [400] [250] [350]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	[0] [0] [-15] [+20] [+40] [+50]	0~99 #High Dam 0~99 High Dam 0~99	[0] [0] p [50] p [60]
39 40 41 42 43 43 44 44 45	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hall Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500	[30] [20] [220] [400]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	[0] [0] [+15] [+20] [+40] [+50]	0~99 #ligh Dam 0~99 High Dam 0~99	[0] [0] P (50] P (60]
39 40 41 42 43 44 45 46 46	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hali Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive Delay / Phaser	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time	[30] [20] [220] [400] [250] [350] [300]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback	[0] [0] [+15] [+20] [+40] [+50] (+15]	0~99 #High Dam 0~99 High Dam 0~99	[0] [0] P [50] P [60]
39 40 41 42 43 44 45 46 47 47	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hali Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive Delay / Phaser Delay / Rotary Speaker	Delay Time 0~500 # Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 # Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time	[30] [20] [220] [400] [250] [350]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99	[0] [0] [+15] [+20] [+40] [+50] [+15]	0~99 / High Dam 0~99 High Dam 0~99 High Dam 0~99	[0] [0] P (50) P (60)
38 39 40 41 42 43 44 45 46 47 48	Flanger-Delay COMBINATION EFFECT PARALLEL Delay / Hali Reverb Delay / Room Reverb Delay / Chorus Delay / Flanger Delay / Distortion Delay / Overdrive Delay / Phaser	Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time 0~500 Delay Time	[30] [20] [220] [400] [250] [350] [300]	Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback -99~+99 Feedback	[0] [0] [+15] [+20] [+40] [+50] [+15]	0~99 #ligh Dam 0~99 High Dam 0~99	[0] [0] p [50] p [60]

Effect types and parameters

Depending on the effect type that you select, the parameters will differ. For each of the two processors, you can select any effect type from 00 (No Effect) to 48 (Resonance Filter).

NO EFFECT

00: No Effect

For some of the effect types, the equalizer settings (EQ High and EQ Low) will still be valid even if the effect switch is turned off (refer to p.60). If you wish to cut out the equalizer completely, select 00 (No Effect).

REVERB

These effects simulate the acoustics of a hall etc. to add a sense of spatial presence to the sound.

This simulates the reverberation of a medium sized hall, producing a sense of natural acoustics.

02: Ensemble Hall

This reverb is suitable for string or brass ensembles, and simulates the natural acoustics of an ensemble hall.

03: Concert Hall

This simulates the acoustics of a large concert hall, with emphasis on the early reflections.

04: Room

This simulates the acoustics of a smaller room.

05: Large Room

This simulates the acoustics of a larger room, with the reverb density emphasized. When the reverb time is set to approximately 0.5 seconds, an impression similar to gated reverb will be produced.

06: Live Stage

This simulates the reverberation and acoustics of an onstage live performance in a larger room.

07: Wet Plate

An effect of deeply applied plate reverb.

08: Dry Plate

An effect of lightly applied plate reverb.

09: Spring Reverb

This simulates a resonant spring-type reverb unit.

Parameter	Range
Reverb Time (Time)	0.29.9 sec (HALL types)
	0.24.9 sec (ROOM types)
	0099 (PLATE/SPRING
	types)
The Observation Addition	

The time over which the reverb will decay

High Damp (H.Dmp)

High frequency attenuation. Higher settings of this parameter will cause the high frequencies to decay more rapidly, making the sound darker.

Pre Delay (P.Dly)

0...200 ms

The time from the direct sound until the early reflections

Early Reflection Level (E.R.) 0...99 (HALL/ROOM types) 1...10 (PLATE/SPRINGtypes)

The level of the early reflections

EQ Low (EQ.Lo) -12...+12 dB Amount of cut/boost for the LOW EQ

EQ High (EQ.Hi) -12...+12 dB

Amount of cut/boost for the HIGH EQ

For effects 01-09, the dry:effect balance can be controlled by the selected dynamic modulation source.

EARLY REFLECTION

The early reflection effects isolate the initial reflections of the sound (a very important element in determining the overall acoustic character of a space) from the rest of the reverberation. By adjusting the Early Reflection Time you can create a wide range of effects, such as adding richness to the sound, or creating echo-like sounds.

10: Early Reflection 1

This isolates the acoustically important initial reflections of the sound from the rest of the reverberation. Since the low frequency range is emphasized, this effect type is ideal for drums and other percussion.

11: Early Reflection 2

The way in which the early reflections change in level over time differs from Early Reflection 1. Use this according to your taste.

12: Early Reflection 3

Compared with Early Reflection 1 and Early Reflection 2, this effect reverses the envelope of the early reflections. When used on sound which have a strong attack, such as cymbals, it produces a reverse-playback effect.

Range

Early Reflection Time (Time) 100...800 ms Duration of the early reflections (10 ms steps)

Pre Delay (P.Dly)

0...200 ms

The time from the direct sound until the early reflections

EQ Low (EQ.Lo)

-12...+12 dB

Amount of cut/boost for the LOW EQ

EQ High (EQ.Hi)

-12...+12 dB Amount of cut/boost for the HIGH EQ

For effect types 10-12, you can use the selected dynamic modulation source to control the dry:effect balance.

STEREO DELAY

These effect types allow you to set independent delay times for the left and right channels, so that you can create delay patterns which take advantage of stereo. The High Damp setting lets you apply a natural-sounding attenuation to the repeated delays.

A stereo delay with feedback, that allows independent delay times to be set for the left and right channels.

14: Cross Delay

A stereo delay that allows independent delay times to be set for the left and right channels. For the input to the delay, the feedback of the left and right channels is crossed, so that the repeated delays alternate between left and right.

Parameter Range

Delay Time Left (D.Time L) 0...500 ms Left channel (A or C input) delay time

Delay Time Right (D.Time R) 0...500 ms Right channel (B or D input) delay time

Feedback (F.Back)

The amount which is fed back into the effect. Negative (-) settings will invert the phase.

High Damp (H.Dmp)

High frequency attenuation, Increasing this value will cause the high frequencies to decay more rapidly, making the sound darker.

EQ Low (EQ.Lo)

-12...+12 dB Amount of cut/boost for the LOW EQ

~12...+12 dB

EQ High (EQ.Hi)

Amount of cut/boost for the HIGH EQ

For effect types 13 and 14, you can use the selected dynamic modulation source to control the dry:effect balance. Even if the Effect Switch is OFF, the equalizer (EQ Low and EQ High) settings will be valid. If you wish to turn off all effects including the equalizer, select 00 (No Effect).

DUAL MONO DELAY

15: Dual Mono Delay

This consists of two mono delays, with independent delay time, feedback and high damp settings.

Parameter	

0...500 ms

Delay Time Left (D.Time L) Left channel delay time

High Damp Left (H.DmpL) 0...99%

High frequency attenuation of the left channel. Increasing this value will cause the high frequencies to decay more rapidly, making the sound darker.

-99...+99% Feedback Left (F.BackL)

The amount which is fed back into the left channel. Negative (-) settings will invert the phase.

Delay Time Right (D.Time R) 0...500 ms Right channel delay time

High Damp Right (H.DmpR) 0...99%

High frequency attenuation of the right channel. Increasing this value will cause the high frequencies to decay more rapidly, making the sound darker.

Feedback Right (F.BackR) -99...+99%

The amount which is fed back into the right channel. Negative (-) settings will invert the phase.

For effect type 15, you can use the selected dynamic modulation source to control the dry:effect balance.

MULTI-TAP DELAY

Each effect input is equalized, and sent to two independent delays. The output of one delay is fed back into the input.

16: Multi-Tap Delay 1

A 2-channel multi-repeat delay.

17: Multi-Tap Delay 2

A 2-channel multi-repeat delay with cross-panning.

18: Multi-Tap Delay 3

A 2 channel multi-repeat delay with feedback alternating between the two delays.

Parameter	Range	·
Delay Time 1 (D.Time1)	0500 ms	
Delay time of delay 1		

Delay Time 2 (D.Time2) 0...500 ms Delay time of delay 2

Feedback (FB)

-99...+99%

The amount which is fed back into the effect. Negative (-) settings will invert the phase.

EQ Low (EQ.Lo) Amount of cut/boost for the LOW EQ

-12...+12 dB

EQ High (EQ.Hi)

-12...+12 dB Amount of cut/boost for the HIGH EQ

For effect types 16-18, you can use the selected dynamic modulation source to control the dry:effect balance.

CHORUS

These are stereo-type effects with two chorus blocks, and can add natural spaciousness and depth to any type of sound; piano, string, or brass etc.

19: Chorus 1

The modulation of the right channel is out of phase with the modulation of the left channel. This produces a spacious stereo chorus.

20: Chorus 2

The left and right channels are modulated in-phase.

Parameter	Range
Delay Time (Time) Delay time	0200 ms
Mod Waveform (Wave)	Sine (SIN), Triangle (TRI)

0.03...30 Hz

Mod Depth (Depth) 0...99 Depth of modulation

Mod Speed (Speed)

Speed of modulation -12...+12 dB EQ Low (EQ.Lo)

Amount of cut/boost for the LOW EQ EQ High (EQ.Hi) -12...+12 dB Amount of cut/boost for the HIGH EQ

For effect types 19 and 20, you can use the selected dynamic modulation source to control the dry:effect balance. Even if the Effect Switch is OFF, the equalizer (EQ Low and EQ High) settings will be valid. If you wish to turn off all effects including the equalizer, select 00 (No Effect).

21: Quadrature Chorus

This is a stereo chorus in which the two channels are modulated 90 degrees out of phase with each other.

22: Crossover Chorus

This is a stereo chorus in which the two channels are modulated 90 degrees out of phase with each other, and the chorus portion of each channel is mixed into the output of the other channel.



Parameter	Range
Delay Time Left (Time:L) Left channel delay time	0250 ms
Delay Time Right (R) Right channel delay time	0250 ms
Mod Depth (Depth) Depth of modulation	099
Mod Speed (Speed) Speed of modulation	199
	T+10T-10, S-10S+10 eform. T: triangle wave, S: sine to -10 specifies the symmetry of

wave. The range from +10 to -10 specifies the symmethe waveform.

EQ Low (EQ.Lo) -12...+12 dB

Amount of cut/boost for the LOW EQ

EQ High (EQ.Hi) -12...+12 dB

Amount of cut/boost for the HIGH EO

For effect types 21 and 22, you can use the selected dynamic modulation source to control Mod Speed.

23: Harmonic Chorus

This splits the signal into a high-frequency and a low-frequency band. Quadrature Chorus is applied to the high-frequency band, and the low-frequency band is output without modification. This is ideal for low-range instruments such as bass.

Parameter	Range
Delay Time 1 (DT1) Chorus unit 1 delay time	0500 ms
Delay Time 2 (DT2) Chorus unit 2 delay time	0500 ms
Mod Depth (Depth) Depth of modulation	099
Mod Speed (Speed) Speed of modulation	199
Frequency Split Point (SplitPoint) Frequency at which the inp and low frequency bands.	018 out signal will be split into high

For effect type 23, you can use the selected dynamic modulation source to control Mod Speed.

SYMPHONIC ENSEMBLE

24: Symphonic Ensemble

This is a multi-stage chorus effect, and is ideal for rich and thick sounds such as strings.

Parameter	Range	
Mod Depth (Depth) Depth of modulation	099	
EQ Low (EQ.Lo)	-12+12 dB	
Amount of cut/boost for t	the LOW EQ	
EQ High (EQ.Hi)	~12+12 dB	
Amount of cut/boost for t	he HIGH EQ	

For effect type 24, you can use the selected dynamic modulation source to control the dry:effect balance.

This effect cannot be used simultaneously with the following effects.

19-23:	Chorus
24:	Symphonic Ensemble
25-27:	Flanger
32-33:	Phaser
34:	Rotary Speaker
35-36:	Tremolo
38-39:	Chorus/Flanger - Delay
42:	Delay/Chorus
43:	Delay/Flanger
4 6:	Delay/Phaser
47 :	Delay/Rotary Speaker
4 8:	Resonance Filter

FLANGER

This effect adds feedback to a chorus effect. When used on sounds with rich overtone content, such as cymbals, it creates a strongly distinctive effect with a pitched feeling added to the modulation.

25: Flanger 1

Same-phase modulation is applied to both channels.

26: Flanger 2

The right and left channels are modulated in opposite phase. This produces a spacious stereo flanging effect.

27: Crossover Flanger

Two flangers with opposite-phase modulation apply feedback to each other.

Parameter	Range
Delay Time (Time) Delay time	0200 ms
Resonance (Reso) Amount of output signal t	-99+99 that will be fed back to the input
Mod Depth (Depth) Depth of modulation	099
Mod Speed (Speed) Speed of modulation	199
EQ Low (EQ.Lo) Amount of cut/boost for the	-12+12 dB ne LOW EQ
EQ High (EQ.Hi) Amount of cut/boost for the	-12+12 dB ne HIGH FO

For effect types 25–27, you can use the selected dynamic modulation source to control Mod Speed.

EXCITER

28: Exciter

This adds sparkle to the sound itself, sharpening the definition of the sound.

Parameter	Range	
Blend (Blend) Depth of the exciter effect	-99+99	
Emphatic Point (Emphatic Point)	110	

Center frequency at which the exciter effect will be applied EQ Low (EQ.Lo) -12...+12 dB

Amount of cut/boost for the LOW EQ

EQ High (EQ.Hi) -12...+12 dB

Amount of cut/boost for the HIGH EQ

For effect type 28, you can use the selected dynamic modulation source to control the dry:effect balance. Even if the Effect Switch is OFF, the equalizer (EQ Low

and EQ High) settings will be valid. If you wish to turn off all effects including the equalizer, select 00 (No Effect).

ENHANCER

29: Enhancer

This is a 2-channel enhancer. It contains a delay to give the sound spaciousness. An enhancer raises the clarity of the sound, sharpens its definition and strengthens its presence, bringing the sound to the front of the mix.

Parameter	Range	
Harmonic Density (Density) Depth of the enhancer effect		

Hot Spot (H.Spot) 1...20
Center frequency at which the enhancer effect will be

Stereo Width (S.Width) 0...99
Width of the stereo image spread by the delay

Delay Time (D.Time) 1...99
Delay time

EQ Low (EQ.Lo) -12...+12 dB

Amount of cut/boost for the LOW EQ

EQ High (EQ.Hi) -12...+12 dB

Amount of cut/boost for the HIGH EQ

For effect type 29, you can use the selected dynamic

modulation source to control the dry:effect balance.

DISTORTION

30: Distortion

This effect provides a range of distortion from slight to intense, and even adds a wah effect, making it ideal for solos. The wah effect is adjusted by Hot Spot and Resonance. Hot Spot can be controlled in realtime by dynamic modulation.

31: Overdrive

Applies a smooth overdrive. Like distortion, above, dynamic modulation can be used to control the Hot Spot of the wah filter.

Parameter	Range	
Drive (Drive) Amount of distortion/ov	1111 erdrive	
Resonance (Reso) Gain of the resonant wa	099 ah filter	
Hot Spot (H.Spot) Center frequency of the	099 e wah filter	
Out Level (Level) Output level of the disto	099 orted sound	
EQ Low (EQ.Lo)	-12+12 dB	

For effect types 30 and 31, you can use the selected dynamic modulation source to control Hot Spot.

-12...+12 dB

Amount of cut/boost for the LOW EQ

Amount of cut/boost for the HIGH EQ

PHASER

EQ High (EQ.Hi)

These effect types are 2-channel stereo phasers.

While chorus and flanger modulate the delay time to create modulation, a phaser modulates the phase of the input signal, creating an effect with a different character than either chorus or flanger. It is especially effective when used on electric piano or guitar-type sounds.

The optimal effect will be produced when the dry:effect balance is set at 50:50.

32: Stereo Phaser 1

Since the modulation of the right and left channels is in opposite phase, a spacious phaser effect is produced.

33: Stereo Phaser 2

Same-phase modulation is applied to both phaser blocks.

Parameter	Range
Manual (Manual)	099
Center frequency at wh	ich the phase shift effect is applied
Mod Depth (Depth)	099

Depth of the phase shift modulation effect

Mod Speed (Speed) 0.03...30 Hz

Modulation speed

Feedback (F.Back) —99...+99

Amount that is fed back into the effect. Negative (-) settings will invert the phase.

Mod Waveform (Wave) Sine (SIN), Triangle (TRI)

Modulation waveform

For effect types 32 and 33, you can use the selected dynamic modulation source to control Mod Speed.



ROTARY SPEAKER

This effect type simulates the rotary speaker effect which is popular for organ sounds.

34: Rotary Speaker

This effect type uses independent LFOs to simulate the rotational effect of the rotor and horn of a rotary speaker. Use the dynamic modulation source to switch between slow and fast speeds. The speed of rotation will switch (between slow and fast) at the rate specified by Acceleration, regardless of the speed at which the controller was actually moved. Also, the speed change will not be affected by the dynamic modulation intensity setting.

Parameter	Range	
Vibrato Depth (Vib.Depth) Depth of the effect	015	
Acceleration (Accel) Time required for the speed	115 i to change	
Slow Speed (Slow Speed) Slow rotation speed	199	
Fast Speed (Fast Speed) Fast rotation speed	199	

For effect type 34, you can use the selected dynamic modulation source to switch between Slow Speed and Fast Speed.

TREMOLO

These effect types cyclically modulate the volume.

35: Auto Pan

This is a stereo-type program which combines two tremolo blocks. Since opposite-phase modulation is applied to each tremolo block, the sound will appear to be panned back and forth between left and right.

36: Tremolo

Unlike the above Auto Pan, the two tremolo blocks are modulated with the same phase.

Parameter	Range
Mod Waveform (Wave) Select the modulation wa	Sine (SIN), Triangle (TRI)
Mod Shape (Shape)	~99+99
T (//\>	odShape ≈-99 odShape =0 odShape =+99
Mod Depth (Depth) Depth of modulation	099
Mod Speed (Speed) Speed of modulation	0.0330 Hz
EQ Low (EQ.Lo) Amount of cut/boost for the	-12+12 dB ne LOW EQ
EQ High (EQ.Hi)	-12+12 dB

Amount of cut/boost for the HIGH EQ

For effect types 35 and 36, you can use the selected dynamic modulation source to control the dry:effect balance. Even if the Effect Switch is OFF, the equalizer

(EQ Low and EQ High) settings will be valid. If you wish to turn off all effects including the equalizer, select 00 (No Effect).

PARAMETRIC EQ (Parametric Equalizer)

37: Parametric EQ (Parametric Equalizer)

This is a 3-band equalizer, with adjustable cutoff frequency and gain for each of the bands (low, mid, high). For the mid-range, you can also adjust the width of the frequency band.

Parameter	Range
Low Freq (L=Freq) Low range cutoff frequency	029
Low Gain (Gain) Amount of cut/boost for the I	-12+12 dB ow EQ
Mid Freq (M=Freq) Mid range center frequency	099
Mid Gain (Gain) Amount of cut/boost for the r	-12+12 dB nid EQ
Mid Width (W) Width of the mid-frequency r	099 ange
High Freq (H=Freq) High range cutoff frequency	029
High Gain (Gain) Amount of cut/boost for the h	-12+12 dB igh EQ

For effect type 37, you can use the selected dynamic modulation source to control Mid Freq, allowing you to create a wah effect.

COMBINATION EFFECT SERIAL

Effect types 38 and 39 connect a mono-in/stereo-out chorus or flanger in series with a stereo delay.

38: Chorus-Delay

The signal is sent through a mono-in/stereo-out chorus which uses LFOs that are 90 degrees out of phase, and then through a stereo delay. Feedback can be adjusted for both chorus and delay.

39: Flanger-Delay

The signal is sent through a mono-in/stereo-out flanger which uses LFOs that are 90 degrees out of phase, and then through a stereo delay. Feedback can be adjusted for both flanger and delay.

Chorus, Flanger

Parameter	Range	
Delay Time (Cho.DT) Delay time of the chorus/fi	050 ms anger	
Feedback (FB) Amount that is fed back to will invert the phase.	-99+99% the effect. Negative (-) settir	ıgs
Mod Depth (Cho. Depth) Depth of modulation	099	i.

Delay

Parameter	Range	
Delay Time (Dly.DT) Delay time (2 msec steps)	0450 ms	

Delay Feedback (FB)

Amount that is fed back to the effect. Negative (-) settings will invert the phase.

For effect types 38 and 39, you can use the selected dynamic modulation source to control the dry:effect

COMBINATION EFFECT PARALLEL

The following effect types (40-47) are parallel effects in which two different effects are applied to each of the two channels.

For details on what each effect does, refer to the explanations for effect types 1 to 34.

MONO DELAY/REVERB

40: Delay/Hall Reverb

This effect type provides delay on the left channel, and hall-type reverb on the right channel.

41: Delay/Room Reverb

This effect type provides delay on the left channel, and room-type reverb on the right channel.

MONO DELAY/MODULATED DELAY

42: Delay/Chorus

This effect type provides delay on the left channel, and chorus on the right channel.

43: Delay/Flanger

This effect type provides delay on the left channel, and flanger on the right channel.

Delay

Parameter	Range
Delay Time (Dly.DT) Delay time	0500 ms
Feedback (Dly.FB)	-99+99%

Amount that is fed back to the effect. Negative (-) settings

will invert the phase. High Damp (H.Dmp) 0...99%

High frequency attenuation. Increasing this parameter value will cause the high range to decay faster, making the sound

Reverb (Hall, Room)

Parameter	Range
Reverb Time (Time)	0.29.9 sec (Hall)
, ,	0.24.9 sec (Room)

Time over which the reverberation will decay

High Damp (H.Dmp)

High frequency attenuation. Increasing this parameter value will cause the high range to decay faster, making the sound darker.

Pre Delay (P.Dly)

0...150 ms Time from the direct sound until the first early reflection.

Chorus

Parameter	Range
Mod Depth (Depth) Depth of modulation	099%
Mod Speed (Spd) Speed of modulation	0.0330 Hz
Mod Waveform (Wave) Modulation waveform	Sine (SIN), Triangle (TRI)

rianger		
Parameter	Range	
Mod Depth (Depth)	099%	
Depth of modulation		

0.03...30 Hz Mod Speed (Spd) Speed of modulation

Feedback (FB) -99...+99%

Amount that is fed back to the effect. Negative (-) settings will invert the phase.

For effect types 40, 41, 42 and 43, you can use the selected dynamic modulation source to control the dry:effect balance.

MONO DELAY/DISTORTION, OVERDRIVE

44: Delay/Distortion

This effect type provides delay on the left channel, and distortion on the right channel.

45: Delay/Overdrive

This effect type provides delay on the left channel, and overdrive on the right channel.

Delay

Parameter	Range	
Delay Time (Dly.DT) Delay time	0500 ms	
Feedback (Dly.FB)	-99+99%	

Amount that is fed back to the effect. Negative (-) settings will invert the phase.

Distortion, Overdrive

Parameter	Range	
Drive (Drive)	1111	
Amount of distortion/ov	erdrive	

0...99 Resonance (Res) Gain of the resonant wah filter

Hot Spot (HotSpot) 1...99 Center frequency of the wah filter

Level (Level) Output level of the distorted sound



MONO DELAY/PHASER

46: Delay/Phaser

This effect type provides delay on the left channel, and phaser on the right channel.

Delay

Parameter	Range	
Delay Time (Dly.DT) Delay time	0500 ms	

Feedback (Dly.FB)

-99...+99%

Amount that is fed back to the effect. Negative (-) settings will invert the phase

High Damp (H.Dmp) 0...99%

High frequency attenuation. Increasing this parameter value will cause the high range to decay faster, making the sound darker.

Phaser

Parameter	Range	
Mod Depth (Depth) Depth of modulation	099%	
Mod Speed (Spd)	0.0330 Hz	

Mod Speed (Spd) Speed of modulation

Feedback (FB) -99...+99% Amount that is fed back to the effect. Negative (-) settings will invert the phase.

For effect type 46, you can use the selected dynamic modulation source to control the dry:effect balance.

MONO DELAY/ROTARY

47: Delay/Rotary Speaker

This effect type provides delay on the left channel, and a rotary speaker effect on the right channel.

Delay

Parameter	Range	
Delay Time (Dly.DT) Delay time	0500 ms	

Feedback (Dly.FB)

-99...+99%

Amount that is fed back to the effect. Negative (-) settings will invert the phase.

Rotary Speaker

Speed of fast rotation

Parameter	Range	
Acceleration (Accel) The time over which the s	115 speed will change	
Slow Speed (Slow) Speed of slow rotation	199	
Fast Speed (Fast)	1 99	

For effect type 47, you can use the selected dynamic modulation source to switch between Slow Speed and Fast Speed.

Resonance Filter

48: Resonance Filter

This effect type boosts the level in the region of the cutoff frequency. This will boost the overtones, creating a hard and distinctive sound.

Parameter	Range	8
Trim Input level	099	

Apply LFO to the cutoff frequency. The LFO speed will follow the Program parameter VDF LFO

Single/Multi1/Multi2 Select the trigger type which will determine how the EG responds to note-on.

The EG will be started by the first note-on (the first note which is pressed from a condition of all notes being off). If all notes go off during the attack, the EG will switch to

At the first note-on during the decay, the EG will switch to attack, starting from the EG value at that time. LFO will correspond to the note which was first turned on. The LFO will stop when that note is turned off.

Multi1

When the first note-on occurs, the EG will switch to attack, starting from the EG value at that time. If the note which was first turned on goes off during the attack, the EG will switch to the decay. At the first note-on during the decay, the EG will switch to

attack, starting from the EG value at that time. LFO will correspond to the note which was last turned on. The LFO will stop when that note is turned off.

Multi2

When the first note-on occurs, the EG value will return to 0 (zero), and will then begin the attack. If the note which was last turned on goes off during the

attack, the EG will switch to the decay. LFO will correspond to the note which was last turned on. The LFO will stop when that note is turned off.

Reso

Depth of the resonance effect

0...99

Cutoff frequency. This will be the start level of the EG.

EGint

-99...0...+99% Depth of the EG effect.

Negative (-) settings will invert the EG curve.

DecayTime

0...127 0...127

Resonance has a special EG used only for attack time and decay time, causing the cutoff frequency to sweep when triggered by note-on.

The EG will be triggered by a note-on in the Upper part of Performance mode. This EG will not function in Multi mode.

The selected dynamic modulation source will control the Reso parameter.

8. Multi mode

<Receive MIDI channel>

A01...A16, B01...B16, OFF



Specifies the MIDI receive channel for each part. With a setting of OFF, that part will not receive MIDI mes-

<Key Shift>

-24...00...+24 [Semitone]



For each part, you can specify a key shift (transposition) in semitone steps.

If MIDI RPN 00:02 (Coarse Tune) is received, the pitch that will sound is determined by the sum of the RPN value and this value. (The RPN value will not affect this display.)

<Bank Number>

CmbU, A, B, C, PrgU, A, B, C, GM-b, GM-a, r:01...r:40, r:CM, y:01...y101, ySFX, yDr1, yDr2, rDrm, kDrm, ****



Selects the sound bank for each part. For details refer to the "Bank names and their contents" on p.20.

**** indicates a silent program.

<Program Number>

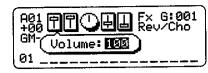
000...099 (for sound banks PrgA, B, C, U, CmbA, B, C,

001...128 (for sound banks other than the above)

Selects the program number for the sound of each part. If a combination sound bank is selected, that part will play a combination sound.

<Volume>

000...127



Adjusts the volume of each part.

<Expression>

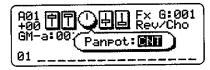
000...127



Adjusts the expression (the depth of MIDI control change #11) for each part.

<Panpot>

RND, L63...CNT...R63, OFF



Adjusts the panpot for each part. When CNT is selected, that part will be heard from the center. When RND is selected, the sound will be heard from a different location each time a note is played. When OFF is selected, that Program/Combination will be output only from C and D (refer to p.59).

In Multi mode, the value you specify here will be added to the value of the program/combination parameter to determine the actual panpot setting.

<C Send Level>

000...127



Specifies the amount that is sent from output C of each part to the effects.

In Multi mode, the Program parameter C/D Send Level is ignored. For the C/D Send Levels of Combination parameters and of each instrument in a drumkit, the value will be multiplied by this (Multi mode) parameter to determine the result.

In Performance Play/Edit mode, the Program parameter C/D Send Level will be multiplied by this (Multi mode) parameter to determine the result. (Only for the Upper and Lower parts; other parts will use their Multi mode setting.) For the C/D Send Levels of Combination parameters and of each instrument in a drumkit, the value will be multiplied by this (Multi mode) parameter to determine the result.



rence guide

<D Send Level>

000...127



Specifies the amount that is sent from output D of each part to the effects. Refer to <C Send Level>

<Effect Bank Select>

P, U, A, B, C, u, a, b, c, G



Selects the effect bank for the effect used in Multi mode. Refer to p.30.

<Effect Number Select>

001...128 (for effect bank G)

000...099 (for effect banks other than the above)

Selects the number of the effect used in Multi mode.

A number cannot be selected when < Effect Bank Select> is P.

9. Part Edit mode

PART EDIT

<Part Edit>

EG, Scale, Mod, Fc/Win, Others



Selects the section that you wish to edit.

EG <PART-EG>

<EG Attack Time>

-64...00...+63



Adjusts the attack time of the tone and volume of each part.

This value is added to the value of the Program parameter <VDA EG Attack Time>, <VDF EG Attack Time>.

<EG Decay Time>

-64...00...+63

Adjusts the time over which the volume and tone of each part fall from their maximum level to the Sustain Level.

This value is added to the value of the Program parameter <VDA EG Decay Time>, <VDF EG Decay Time>.

<EG Release Time>

-64...00...+63

Adjusts the time from note-off over which the volume and tone of each part fall until the sound disappears.

This value is added to the value of the Program parameter <VDA EG Release Time>, <VDF EG Release Time>.

<Pitch EG Start Level>

-64...00...+63



Adjusts the pitch at which the waveform of each part will begin.

This value is added to the value of the Program parameter <Pitch EG Start Level>.

<Pitch EG Attack Time>

-64...00...+63

Adjusts the rise time of the pitch EG for each part.

This value is added to the value of the Program parameter <Pitch EG Attack Time>.

<Pitch EG Release Time>

-64...00...+63

Adjusts the time from note-off over which the pitch EG of each part reaches the target pitch.

This value is added to the value of the Program parameter <Pitch EG Release Time>.

<Pitch EG Release Level>

-64...00...+63

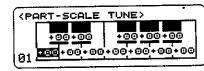
Adjusts the pitch toward which the pitch EG waveform of each part will move after note-off.

This value is added to the value of the Program parameter <Pitch EG Release Level>.

Scale <PART-SCALE TUNE>

<Scale Tuning>

-64...00...+63 (for each note C-B)



For each part, you can make a fine adjustment to the pitch of each note C-B. Use this when you wish to use special tunings such as the temperaments of classical or ethnic music, or for modern music.

Refer to the table of temperament data on p.95.

Mod <PART: Mod>

The pages in the Mod section specify how the operations of various controllers (or corresponding MIDI messages that are received) will modify each part.

The following controllers and MIDI messages can be used as modulation sources.

	MIDI message	Controller
BNDWHL	Pitch bend	-
MODWHL	Modulation (control change 1)	-
CAf	Channel pressure	-
Mod.2	Assignable Controller 1 (control change 16)	Modulation 2 (realtime controller)
Mod.3	Assignable Controller 2 (control change 17)	Modulation 3 (realtime controller)
PAf	Polyphonic key pressure	_

<Part Pitch Bend Range>

(common to all controllers)

PRG (PRG is bend wheel only), -24...00...+24

(PF	RT:P.BE	ND RANGE	>
" '	BNDWHL	MODWHL	CAF
Į.	+02	+00	+00
1	MOD.2	+900.3 +900	₽₽£ +00
01	+00	+66	700

For each part, this parameter specifies the range of the pitch bend that can be produced by the corresponding MIDI message (or by each controller).

In Performance Play mode, this will be **PRG** when a program change occurs for a part.

In Multi mode, a setting of -24—+24 will cause the setting of the Program parameter Bend Range to be ignored. In Performance Play mode, this will change to PRG when a program change is received.

With a setting of PRG, the setting of the Program parameter <Pitch Bend Range> (p.48) will be used.

<Part VDF Cutoff>

(common to all controllers)

-64...00...+63

- 1	<part:vdf< th=""><th>CUTOFF></th><th></th></part:vdf<>	CUTOFF>	
	BNDWHL	MODWHL	CAF
	- विहास	+80	+00
	MOD.2	MOD.S	PAF
		<u>+</u> 00	+00
	91 +00	. 50	

For each part, this parameter specifies how the VDF cutoff frequency will be affected by the corresponding MIDI message (or by each controller).

For CAf, this setting will be added to the value of the Program parameter <Aftertouch VDF>.

Part Edit

erence guide

<Part VDA Amplifier>

(common to all controllers) -64...00...+63

(⟨₽¢	ART:VDA	AMP>	
	B <u>NDW</u> HL	MODWHL	CAF
	+60	+00	+00
	MOD.2	MOD.3	PAF
01	+00	+00	+00

For each part, this parameter specifies how the VDA volume will be affected by the corresponding MIDI message (or by each controller).

For CAf, this setting will be added to the value of the Program parameter <Aftertouch VDA>.

<Part LFO Rate>

(common to all controllers)

-64...00...+63

(PF	RT:LFO	RATE>	
	BNDWHL	MODWHL	CAF
	+99	+00	+00
1	MOD.2	MOD.S	PAF
01	+00	+00	+00
<u> </u>	···		

For each part, this parameter specifies how the LFO frequency will be affected by the corresponding MIDI message (or by each controller).

For MODWHL, this setting will be added to the value of the Program parameter <Modulation Wheel Pitch LFO Speed>.

For CAf, this setting will be added to the value of the Program parameter <Aftertouch Pitch LFO Speed>.

<Part Pitch LFO Depth>

(common to all controllers) **000...127**

⟨ P	ART:Pito	h LFO>	
	BNDWHL SSS MOD.2	MODWHL 010 MOD.3	006 906 99 5
01	<i>0</i> 00	800	998

For each part, this parameter specifies how the pitch LFO depth will be affected by the corresponding MIDI message (or by each controller).

For CAf, this setting will be added to the value of the Program parameter <Aftertouch Pitch LFO Intensity>.

For MODWHL, this setting will be added to the value of the Program parameter <Modulation Wheel Pitch LFO Intensity>.

When a GM System ON message is received, MOD-WHL will be set to 10.

<Part VDF LFO Depth>

(common to all controllers) **000...127**

⟨₽	ART: VDF	LF0>	
	BNDWHL	MODWHL 000	006 000
01	MOD.2 000	мо́Б.з 000	PAF 000

For each part, this parameter specifies how the VDF LFO depth will be affected by the corresponding MIDI message (or by each controller).

For MODWHL, this setting will be added to the value of the Program parameter < Modulation Wheel VDF>.

For CAf, this setting will be added to the value of the Program parameter <Aftertouch VDF LFO>.

<Part VDA LFO Depth>

(common to all controllers) 000...127

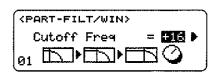
		~~ ~~~~	
(PF	ART: VDA	LFO>	
	BNDWHL	MODWHL	CAF
	ववव	999	000
	MOD.2	MOD.3	PAF
Ø1	000	999	000

For each part, this parameter specifies how the VDA LFO depth will be affected by the corresponding MIDI message (or by each controller).

Fc/Win <PART-FILT/WIN>

<Cutoff Frequency>

-64...00...+63



Adjusts the cutoff frequency (brightness) of each part.

<Color>

-64...00...+63



Adjusts the color (tonal character) of each part.

<Note Window Bottom>

C-1...G9



Specifies the lower limit of the notes for which each part will sound.

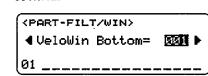
<Note Window Top>

C-1...G9

Specifies the upper limit of the notes for which each part will sound.

<Velocity Window Bottom>

001...127



Specifies the lower limit of velocity for which each part will sound.

<Velocity Window Top>

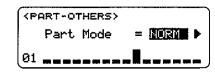
001...127

Specifies the upper limit of velocity for which each part will sound.

Others <PART-OTHERS>

<Part Mode>

NORM, DRUM, MDrm1...4



For each part, this parameter specifies whether it will use a normal sound (i.e., not a drumkit oscillator) or a drumkit sound.

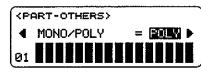
Modify Drum (MDrm1-4) lets you use MIDI messages (NRPN and Part parameter changes) to control the sound of each note. If an identically-numbered **MDrm** is selected for another part, it will have the same sound.

Sounds that you edit for Modify Drum are temporary. When you re-select a drumkit, they will return to their initial values.

<Mono/Poly>

MONO, POLY, ----

(displayed as ---- if Part Mode is other than NORMAL)



For each part, this parameter specifies whether it will sound only single notes (mono) or will be able to sound chords (poly). This setting has no effect if <Part Mode> = "DRUM" or "MDrum 1...4."

If the Program parameter setting is "MONO", the **POLY** setting will be unavailable.

<Fine Tune>

-50...00...+50

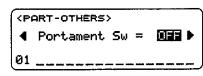


Makes a fine adjustment to the pitch of each part.

<Portamento Switch>

ON. OFF. ----

(displayed as ---- if Part Mode is DRUM)



For each part, this parameter turns the portamento effect (which connects notes smoothly from one pitch to the next) on/off. This setting has no effect if <Part Mode> = "DRUM" or "MDrum 1...4."

This setting will be reflected by panel operations.

rence guide

<Portamento Time>

<PART-OTHERS>
■ Portament Time= 図図

When the portamento switch is on, this parameter specifies the time over which the pitch will change.

The actual portamento time will be determined by adding this value to the Program parameter.

< Velocity Sensitivity Depth>

000...127

(PART-OTHERS)

◀ VelSens Depth = 054 ▶

01

For each part, this parameter specifies how volume will be affected by MIDI velocity data.

< Velocity Sensitivity Offset>

000...127

For each part, this parameter specifies a value that will be added to the entire curve of volume change that is controlled by MIDI velocity data.

10. Global mode

GLOBAL-MASTER

<Master Tune>

-100.0...000.0...+100.0 [cent]

Adjusts the overall tuning of the N1R. You can use this setting to tune the N1R to other instruments.

<Master Key Shift>

-24...00...+24 [semitone]

Transposes the overall pitch of the ${\bf N1R}$ in semitone steps.

HARDWARE

<LCD Contrast>

00...31



Adjusts the contrast of the N1R's LCD screen. Higher settings will make the display darker.

<BPS Select>

31.25, 38.4

This specifies the rate at which data will be transmitted from the N1R's TO HOST connector to the computer. For the appropriate selection for your computer, refer to p.7 "Connection to a computer."

<Clock Source>

INT, MIDI, PCIF

When the N1R's is synchronized with an external computer/sequencer, this setting specifies which tempo will control the playback. With a setting of INT (Internal), the external computer/sequencer will synchronize to the speed of the N1R's arpeggiator. If you want to synchronize the N1R's arpeggiator to the clock messages received from an external sequencer etc. connected to the MIDI IN connector, set this to MIDI. If you want to synchronize the N1R's arpeggiator to the clock messages received from an external computer connected to the TO HOST connector, set this to PCIF. If you want to match the beat of the external sequencer and the N1R's arpeggiator, set the Performance Play mode <Latch/Key Sync> parameter to "OFF" or "LATCH".

<Exclusive Channel>

01...16

Specifies the MIDI channel on which the N1R will transmit and receive MIDI system exclusive messages etc. to/from an external MIDI device connected to the N1R (refer to p.86).

<Bank Map Type>

Default, 05R/W

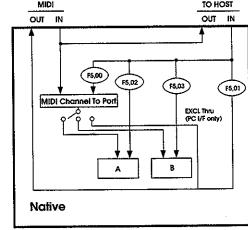
Switches the sound map of the **N1R**. You can specify the bank map used on some Korg products such as the 05R/W. This setting differs from the Default (factory setting) as follows.

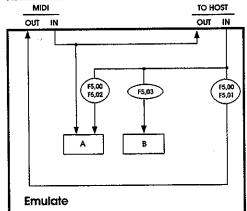
Bank select MSB:LSB	Default	05R/W
00H:00H	GM-a	PrgU
78H:00H	rDrm or yDrm	KDrm

<PC Interface To Port>

Native, Emulate

This setting specifies how the tone generator will be switched when a MIDI Line Control signal (F5.vv) is received from the TO HOST connector. With a setting of Emulate, operation will be the same as on Korg's earlier models (05R/W etc.). With a setting of Native, the <MIDI Channel To Port> settings will be applied. Signal flow will be as follows.





GLOBAL-CONTROL

<Single-channel Layer/Split>

OFF. ON



This automatically divides the single MIDI channel (Upper part) received from MIDI IN or TO HOST into two MIDI channels (Upper part and Lower part).

When this is ON, and the Single-channel Layer/Split function is turned on by pressing the [LAYER/SPLIT] key, incoming MIDI messages such as note-on which are received on the MIDI channel of the Upper part will play the sound of the two parts (Upper and Lower) either as a layer or a split.

In this case, the two MIDI channels of the Upper part and Lower part will be output from the TO HOST connector.

This function is valid only when messages are received on the MIDI channel of the Upper part in Performance Play/Edit modes.

<Arpeggio Out>

OFF. ON

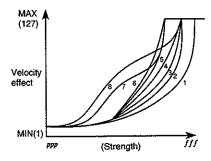
With a setting of **OFF**, note data generated by the arpeggiator will not be transmitted from the **N1R**'s MIDI OUT jack or TO HOST connector.

<Velocity Curve>

01...08

Selects one of eight curves to determine how changes in keyboard playing dynamics will affect volume or tone. The diagram below shows the relationship between playing strength and the resulting velocity value.

Since curves 7 and 8 produce little change for medium playing strengths, they are suitable for when you do not wish to use velocity or when you wish to even out the dynamics of the notes; however in the softly played range, these curves will produce large changes, making control more difficult. Choose the velocity curve that is appropriate for your situation.

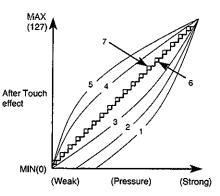


Global

<Aftertouch Curve>

01...08

Selects one of eight curves to determine how additional pressure applied to the keyboard after playing a note will affect volume, tone or modulation.

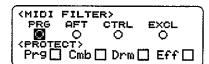


- 1: A significant effect will not be produced unless you apply strong pressure
- 2:
- 3: The normal curve
- 4:
- 5: A significant effect will be produced even by light pressure
- 6: Rough curve (24 steps)
- 7: Even rougher curve (12 steps)
- 8: Random

MIDI FILTER

<MIDI Filter>

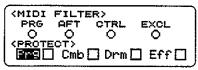
o (received, transmitted), x (not received, transmitted)



If you wish to restrict the MIDI messages that will be received and transmitted by the N1R, make settings here. You can disable reception and transmission of program changes(PRG), aftertouch(AFT), control change(CTRL), and exclusive messages(EXCL).

<Write Protect>

 \square , \square



You can protect the user area of the N1R so that important data cannot be overwritten accidentally. When the box located at the right of Program, Combination, Drumkit and Effect is checked \checkmark , the corresponding type of memory is protected.

RX. SWITCH

<Receive Switch>

ON, OFF



Specifies whether the GM, GS and XG initialization messages will each be received or not.

<Receive Color>

GRN (yellow/green), ORG (orange)

When a GM, GS or XG initialization message is received, the backlight of the LCD screen will be switched.

The receive color specified for GM will be the color of the LCD screen backlight when the power is turned on.

MIDI TO PORT

<MIDI Channel To Port>

A, B (internal), C (external)

<pre><midi :<="" pre=""></midi></pre>	ГО	PC	R1	ر د				
MIDI CH.	1	2	3	4	5	6	7	8
Port	R	Q	Œ	Ω	a	σ	А	A
MIDI Ch. Port MIDI Ch. Port	9	10	Ŧ	12	13	14	15	16
Port	A	a	α	α	a	D	Ð	D

For each channel, this parameter specifies whether messages received from an external MIDI device connected to the N1R's MIDI IN will be sounded by the N1R's tone generator or will be transmitted from MIDI OUT. If you connect another tone generator to MIDI OUT, you can cause different channels of MIDI message to be played either by the N1R or by the other tone generator.

This function is enabled only when the <PC Interface To Port> is set to Native.

PROG TO PORT

<Program Change To Port>

A, B (internal), C (external), Ignore



Specifies whether each MIDI program change message received by the N1R will cause internal sounds or external sounds to be played. For example, you can make settings so that piano (#001) will be sounded by the N1R and strings (#049) will be sounded by an external tone generator connected to MIDI OUT.

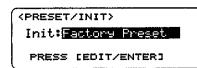
With a setting of **Ignore**, this function will be disabled. If you wish to set all numbers 001–128 to the same destination, move the cursor to the Set All parameter, and press the [EDIT/ENTER] key.

This function is enabled only when the <PC Interface To Port> is set to Native.

PRESET/INIT

<Initialize>

GM Mode On, N-Reset(R), N-Reset(Y), ALL Perform, ALL Program, ALL Combi, User Effect(u), User Effect(U), ALL Drumkit, Factory Preset



Initializes the state of the N1R. The contents are following.

VALUE	Explanation
GM Mode On	Set to the same condition as when a GM System On message is received.
N-Reset (R)	Set to the same condition as when a GS Reset message is received.
N-Reset (Y)	Set to the same condition as when an XG System On message is received.
ALL Perform	Initialize the settings of the 32 performances
ALL Program	Initialize the settings of the 100 programs of the PrgU bank
ALL Combi	Initialize the settings of the 100 combina- tions of the CmbU bank
User Effect (u)	Initialize the 100 effects of effect bank "u"
User Effect (U)	Initialize the 100 effects of effect bank "U"
ALL Drumkit	Initialize the two user drumkits
Factory Preset	Restore all settings of the N1R to the factory condition

MIDI DUMP

<MIDI Data Dump>

(Item:) ALL Prog, ALL Combi, ALL Perform, ALL Drumkit, ALL Effect (to:) PC I/F, MIDI OUT

<midi DUMP>
 Item:ALL Program
 to :PC I/F
 PRESS (EDIT/ENTER)

This operation transmits N1R sound parameters to a connected computer or to another N1R. Select the parameters to be transmitted in "Item:" and select either the PC I/F or MIDI OUT from which the data will be transmitted. If you select PC I/F, the data will be transmitted from the TO HOST connector.

Data dump transmission procedure

- ① Connect the N1R's MIDI OUT or TO HOST to an external device which is able to receive MIDI data dumps. Normally it is not necessary to set the MIDI channel of a data filer to match the transmitting channel. If you wish to transmit the data to another N1R to rewrite its programs and patterns, you will need to set the <Exclusive Channel> of both devices to the same setting.
- ② In "Item," select the type of parameters that you wish to transmit. In "to," select either PC I/F or MIDI OUT to specify the connector from which the data will be transmitted.
- ③ Press the [EDIT/ENTER] key, and a confirmation message of <Are you sure?> will appear. If you decide to change the settings, press the [EXIT] key.
- ④ Press the [EDIT/ENTER] key once again to execute the dump.
- While the data is being transmitted, the display will indicate <Executing...>. When transmission is completed, the normal display will reappear.
- Do not touch the switches or controls of the N1R while a data dump is in progress.
- The program sound, combination sound, or performance that is currently being edited is not transmitted here. If necessary, save this data before performing the data dump.

Data dump reception procedure

- When you perform this procedure, internal data will be overwritten and lost. If internal memory contains data that you wish to keep, backup the data to a data filer etc. before performing this procedure.
- ① Connect the N1R's MIDI IN or TO HOST connector to an external device which is able to transmit data dumps.
- ② Turn off memory protect <Write Protect> for program sounds or combination sounds.
- $\ensuremath{\mathfrak{J}}$ Set <MIDI Filter> EXCL to the O setting.
- ④ Set the N1R's <Exclusive Channel> to match the channel of the transmitting device (if transmitting data that was saved on a data filer, this will be the <Exclusive Channel> at the time that the data was saved), and transmit the data from the external device.

Globo

Appendices

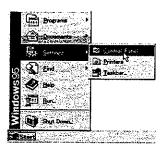
Appendice

Korg MIDI Driver

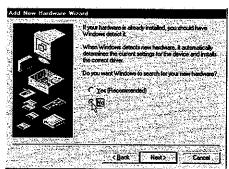
Installation and setup

Installing the Korg MIDI Driver for Windows 95

① Click the [Start] button in the taskbar, and in [Settings], click [Control Panel].



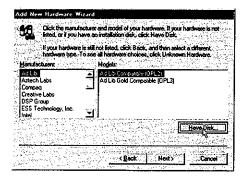
- ② In the control panel, double-click the [Hardware] icon to start up the hardware wizard, and then click [Next>].
- ③ In response to the question "Automatically detect new hardware?" be sure to reply "No," and then click the [Next>] button.



④ Select [Sound, video and game controllers], and click the [Next>] button.

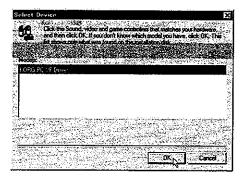


⑤ Click [Have Disk].

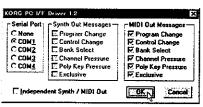


A dialog box will appear, allowing you to specify the drive and directory.

- (§) Insert the disk included with the AG-001B into the disk drive of the computer. If the disk was inserted into drive A, type "A:\" (or if drive B, type "B:\") and click the [OK] button.
- ⑦ Click the [OK] button and click [OK].



® Perform the setup as directed in "Setting up the Korg MIDI Driver (Windows)," and click the [OK] button.

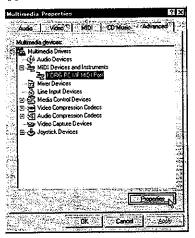


 Be sure to restart your computer so that the driver will take effect.

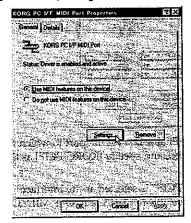


Modifying the Korg MIDI Driver setup for Windows 95

① In the control panel, double-click the [Multimedia] icon, and the multimedia properties dialog box will appear.



- ② Click the [Advanced] tab located at the upper right.
- ③ Click the [+] for [MIDI Devices] (the display will change to [-]), and click [KORG PC I/F MIDI Port].
- ④ Click the [Properties] button.
 The KORG PC I/F MIDI Port properties will be displayed.
- (5) Click the [Settings] button.



Perform the setup as directed in "Setting up the Korg MIDI Driver (Windows)," and click the [OK] button

If you have modified the settings, you must re-start Windows.

Setting up the Korg MIDI Driver (Windows)

 For the Serial Port setting, select the serial port to which the N1R is connected ([COM1]-[COM4]).



If you wish to use the serial port for another purpose after installing the Korg MIDI Driver, select [None] to disable the driver.

② Check [Independent Synth/MIDI Out].

When this is checked, the two internal ports of the N1R (port A and port B) can be used independently.

For data which is output to Default MIDI, operation will depend on the Global mode <PC Interface To Port> setting of the N1R.

If Default Out is selected, and if the N1R is set to Emulate mode, data will be output to both N1R ports A and C. If Native mode is selected, data will be output to the port that is specified by the Global parameter MIDI Channel To Port.

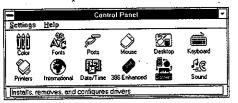
Regardless of whether the N1R is operating in Native mode or Emulate mode, MIDI Out will output from port C, Synth-A Out will output from port A, and Synth-B Out will output from port B.

If [Independent Synth/MIDI Out] is not checked, only Default MIDI can be used.

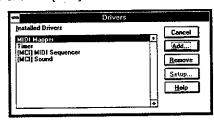
- ③ [MIDI Out Messages] allows you to select the types of message that will be transmitted to the N1R.
- When you finish making settings, click the [OK] button. If you wish to cancel your settings, click [Cancel].

Installing the Korg MIDI Driver for Windows 3.1

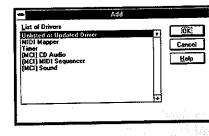
1) In the control panel, double-click the Driver icon.



② Click the [Add] button.

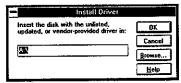


③ In the driver list, select [Unlisted or updated driver] and click the [OK] button.



Appendice

(4) Insert the disk included with the AG-001B into the disk drive of the computer. If you inserted the disk into drive A, type "A:\" (for drive B, type "B:\"), and click the [OK] button.



(5) Select Korg PC I/F Driver, and click the [OK] button. The setup window will appear. Follow the directions in "Setting up the Korg MIDI Driver (Windows)" (refer to p.83) to perform the setup.



⑥ After setup is complete, remove the disk and select [Restart] to make the newly installed driver available.



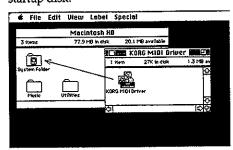
Installing the Korg MIDI Driver for a Macintosh

In order to use the Korg MIDI Driver, the Apple MIDI Manager and PatchBay must already be installed. Use the versions of Apple MIDI Manager and PatchBay that are included with your MIDI application. They are not included with the AG-002B.

When the Korg MIDI Driver and Apple MIDI Manager are used together, you will be able to playback 32 parts on the N1R.

If you are using a MIDI application (sequencer) which does not use the Apple MIDI Manager, select the port to which the **N1R** is connected, and if the application has a Clock setting, set it to [1 MHz].

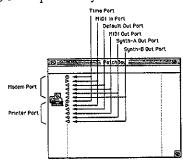
① Copy the Korg MIDI Driver from the disk included with the AG-002B into the system folder of your startup disk.



- ② If there is a copy of Apple MIDI Driver in your system folder, either delete it, or move it to another folder. Be careful not to delete or move the Apple MIDI Manager.
- The Korg MIDI Driver includes the functionality of the Apple MIDI Driver.
- ③ From the Special menu, select "Restart."

Setting up the Korg MIDI Driver (Macintosh)

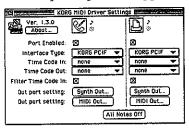
1) Start up PatchBay.



If installation has been performed correctly, the KORG MIDI Driver icon shown above will appear in the PatchBay window when PatchBay is started up. (The modern and printer ports will be displayed differently depending on the setup condition.)

② In PatchBay, double-click the KORG MIDI Driver icon.

The setup dialog box will appear.



③ Check the Port Enable box for the port to which the N1R is connected, and specify [KORG PCIF] as the Interface Type.

When "KORG PCIF" is selected as the Interface Type, you will be able to use Default Out, MIDI Out, Synth-A Out, and Synth-B Out.

The operation of Default Out will depend on the Global mode Program Port setting of the **N1R**.

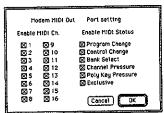
If Default Out is selected, and if the N1R is set to Emulate mode, data will be output to both ports A and C of the N1R. If it is set to Native mode, data will be output to the port specified by the Global mode parameter <Bank Map Type>.

Regardless of whether the **N1R** is in Native mode or Emulate mode, MIDI Out will output to port C, Synth-A Out will output to port A, and Synth-B Out will output to port B.

(Please read p.78 as well.)

4 Press the [Out Port Setting] button.

The following dialog box will appear. Here you can select the MIDI channels/messages which will be output to each port. Only those channels/messages whose box is checked will be output.



- (5) When you have finished making settings, click the [OK] button.
- ⑤ Start up your MIDI application (sequencer), and drag the mouse from the "⊲" of the your MIDI application's Out Port to connect it to the MIDI Out of the MIDI Driver.
- For details on using PatchBay, refer to "About PatchBay..." etc. in the Apple menu.

Using PC Exchange to convert SMF data

Most commercially available Standard MIDI File (SMF) song data is saved in MS-DOS format.

You can use PC Exchange to make MS-DOS format SMF song files recognizable by the Macintosh.

- ① In the control panel, open PC Exchange.

 The PC Exchange control panel will appear.
- ② Press the [Add...] button.

 The [Specify application associated with DOS extension] window will appear.
- ③ Input ".MID" into the DOS extension field.
 In order to distinguish different types of file, MS-DOS adds an extension consisting of a period and three characters to the end of the filename. It is customary for SMF data to have an extension of ".MID"
- ④ From the list that appears in the lower part of the dialog box, select your SMF-compatible MIDI application (sequencer).

The selected icon will appear in the Application field.

⑤ From the [Document type] popup menu, choose [Midi], and click the [OK] button.

The item which was added to the PC Exchange window will appear, and has now been registered.

Now when an MS-DOS SMF disk is inserted into the disk drive, it can be used immediately.

For details refer to the documentation for "Macintosh PC Exchange."

About the MIDI File Translator included with the AG-002B

If the Macintosh you are using does not have PC Exchange but does have Apple File Exchange, you can use the MIDI File Translator included with the AG-002B to convert MS-DOS SMF data.

① Put the MIDI File Translator into the same folder as Apple File Exchange.



- ② Double-click Apple File Exchange to start it up.
- ③ Insert the MS-DOS disk that you wish to convert into the disk drive.

Be sure to insert the MS-DOS format disk into the disk drive only after Apple File Exchange has already started up.

- Select the song file that you wish to convert.
- ⑤ Press the "<<Convert<<" (or ">>Convert>>") button located in the center.

Conversion will begin. When the bar graph reaches 100%, conversion is complete. The converted file will appear in the left-hand box.

(6) Exit Apple File Exchange.

Appendices

Control using MIDI

MIDI channels

Similarly to the way in which a television set operates, the data of a channel can be received when the receiving device is set to the same channel as the transmitting device. The receive channel of each N1R part is set by the Multi mode <Receive MIDI channel> parameter.

About MIDI channels

As in the case of a television, data is received when the channel of the receiving device is set to match the channel of the transmitted device. The receive channel of each of the N1R's Parts is set by the Multi mode <Receive MIDI Channel> setting.

MIDI receive channel

In Performance Play mode when the Single-channel Layer/Split function is on, modulation wheel (control change #01), pitch bend, and aftertouch messages received on the MIDI channel of the Upper part will affect both the Upper and Lower parts. Other control messages will apply only to the part which is set to the MIDI channel on which the message was received.

Effect dynamic modulation is received on the MIDI channel of the Upper part.

The arpeggiator will operate when it receives noteon messages on the MIDI channel for the part specified by the <Arpeggio Zone> setting (p.42). However, when the Single-channel Layer/Split function is on, the arpeggiator will be controlled by the MIDI channel of the Upper part even if the Arpeggio Zone is set to LOWER. (The arpeggiator will also be controlled by the MIDI channel of the Lower part.)

In Multi mode, the Single-channel Layer/Split function cannot be used. The various control change messages will affect only the parts which are receiving the MIDI channels on which the messages were transmitted.

Effect dynamic modulation will be received on the <Exclusive Channel> specified in Global mode. The arpeggiator will operate when note-on messages are received on the MIDI channel for the part which was specified by the <Arpeggio Zone> setting.

• MIDI transmit channel

In Performance Play mode, operating the control knobs will transmit messages on the MIDI channel of the Upper part when the cursor is located at the Upper part, or on the MIDI channel of the Lower part when the cursor is located at the Lower part when the cursor is located at the Lower part. (This is not affected by the Single-channel Layer/Split setting.) The arpeggio output will be transmitted on the MIDI channel of the part that is playing.

In **Multi mode**, operating the control knobs will transmit messages on the MIDI channel of the currently selected part. The arpeggio output will be transmitted on the MIDI channel of the part that is playing.

 The transmit/receive channel for the N1R's various system exclusive messages is specified by the Global mode <Exclusive Channel> setting.

The transmit/receive channel for the various exclusive messages used by the N1R is set by the Global mode parameter <Exclusive Channel>.

Note on/off

When you press a note on a connected MIDI keyboard, data indicating the keyboard location that you pressed (the note number) and the force (velocity) with which you pressed the key will be transmitted as a Note On message [9n, kk, vv] (n: channel, kk: note number, vv: velocity). When you release the note, a Note Off message [8n, kk, vv] will be transmitted. However, very few instruments transmit or receive Note Off velocity, nor does the N1R receive it.

Changing the sound (program/combination)

A sound (program/combination) can be selected using a **Program Change** message [Cn, pp] (pp: a program number that specifies one of 128 programs).

Bank Select messages [Bn, 00, mm] (control change #00) and [Bn, 20, bb] (control change #32) (mm: bank number MSB, bb: bank number LSB, together selecting one of 16384 possible banks) can be used in conjunction with Program Change messages to select programs from other banks. When a Bank Select message is received on the corresponding MIDI channel for a part, the sound (program/combination) bank will be selected. However the actual sound (program/combination) or bank will not change until a Program Change message is subsequently received.

Changing the performance

To change the performance (01–32) from a computer/sequencer, you can use Bank Select [Bn, 00, 5F] (control change #00) and Program Change [Cn, pp] (pp:00–1F, performances 01–32) messages. However, the LSB will be ignored. Also, these messages are received only on the <Exclusive Channel> MIDI channel. These messages are received only in Performance Play mode and Multi mode.

Example of transmission (when EXCL ch.=01): B0, 00, 5F: Bank MSB = 5F (hex) = 95

C0, 01 : change to performance 02

Sustain pedal

When a sustain pedal connected to your MIDI keyboard is operated, a Hold message [Bn, 40, vv] (control change #64) (vv is 127 [7FH] for ON, or 00 for OFF) will normally be transmitted.

When this message is received, the sustain pedal effect will be switched off if the value is 63 [3FH] or less, or on if the value is 64 [40H] or greater.

Applying aftertouch

On many types of MIDI keyboard, pressing down on the keyboard after playing a note will cause **Channel Aftertouch** messages [**Dn**, vv] (vv: value) to be transmitted.

When the N1R receives this message, it can apply an aftertouch effect.

There is another type of aftertouch, Polyphonic Key

Applying pitch bend

When you move the [PITCH BEND] wheel of a connected MIDI keyboard, Pitch Bend messages [En, bb, mm] (bb: lower byte of the value, mm: upper byte of the value; together indicating a total of 16384 steps with center value at 8192 [bb and mm = 00H, 40H]) will be transmitted.

When the N1R receives this message, pitch bend will be applied. You can also adjust the range of the pitch bend (the depth of the pitch change) via MIDI. (Refer to "Changing the pitch bend range.")

Adjusting the volume

When Volume messages [Bn, 07, vv] (control change #07) (vv: value) are received, the volume will change. However the volume of the N1R is determined by the product of the value of the Volume message and the value of the Expression message [Bn, 08, vv] (control change #11) (vv: value). This means that if the volume does not increase sufficiently in response to Volume messages, or if there is no sound, you should try transmitting a MIDI Expression message with a value of 127.

A sequencer (or a computer with sequencer software) that is connected to the N1R can control the volume of each part (track) in the song. You should use Volume messages in the setup data for each part (i.e., the data at the beginning of the song which specifies the volume balance between the parts), and use Expression messages to adjust the volume during the song.

If you include Volume messages in the music data, that track may be set to an unintended volume.

By using the Universal Exclusive message Master Volume (refer to "About system exclusive messages"), you can adjust the overall volume without changing the balance between timbres or parts.

Applying vibrato (PITCH LFO)

When the [MODÜLATION] wheel of a connected MIDI keyboard is moved away from yourself, **Modulation 1**Depth messages [Bn, 01, vv] (control change #01) (vv: value) will be transmitted.

When the N1R receives these messages, vibrato will be applied.

Adjusting the stereo location (Panpot)

The output destination of the oscillators, timbres and parts of the N1R is determined by the L and R Panpot, Send C and Send D settings (= effect inputs A, B, C and D). In particular, the panpot for timbres and parts can be adjusted by MIDI Panpot messages [Bn, 0A, vv] (control change #10) (vv: value, where 00 is L, 64 is center, and 127 is R).

Adjusting the effect send levels (Send C, D)

The output destination of the N1R's oscillators, timbres and parts is determined by the L and R Panpot and by Send C and Send D (= effect inputs A, B, C and D). In particular, the Send C setting for timbres and parts is

adjusted by the Reverb Level message [Bn, 5B, vv] (control change #91) (vv: value), and the Send D setting by the Chorus Level message [Bn, 5D, vv] (control change #93).

These messages are merely defined for use in adjusting the effect levels, and will not necessarily perform the same function on other devices.

If these messages are received while a note is sounding, the change in effect send level will not occur immediately, but will take effect from the next played note.

Turning effects on/off

The two effect units can be switched on/off independently, by using Effect Switch 1 messages [Bn, 5C, vv] (control change #92) (vv: value, where 00 is off and 127 is on) and Effect Switch 2 messages [Bn, 5F, vv] (control change #95). These messages are merely defined for use in adjusting the effect levels, and will not necessarily perform the same function on other devices.

Effect dynamic modulation

You can select a dynamic modulation source and operate that source to control effects.

For example if you wish to use MIDI Aftertouch for control, you must first select aftertouch (AFTER.T) as the dynamic modulation source (MOD.SRC) for that effect. Then when MIDI Aftertouch messages are received, dynamic modulation will be applied. Regardless of the modulation source settings, effects 1 and 2 can be controlled by Effect Control 1 [Bn, 0C, vv] (control change #12) (vv: value). (This can be used in the same way as Effect Control 1.) These messages are received on the MIDI channel of the Upper part in Performance Play mode, and on the Global mode <Exclusive Channel > MIDI channel in Multi mode.

Adjusting the tone

MIDI Brightness messages [Bn, 4A, vv] (control change #74) (vv: value) can be received to adjust the tone color. For a 'vv' value of 64 [40H], there will be no change in the tone. For lower values the sound will become darker, and for higher values the sound will become brighter.

However since this message has come into use only recently, it may not be implemented on some instruments.

Adjusting the attack time

When a MIDI Attack Time message [Bn, 49, vv] (control change #73) (vv: value) is received, the attack time will change. For a value of 64 [40H] there will be no change in the attack time. For lower values the attack will become faster, and for higher values the attack will become slower.

However since this message has come into use only recently, it may not be implemented on some instruments.

Adjusting the release time

When a MIDI Release Time message [Bn, 48, vv] (control change #72) (vv: value) is received, the release time will change. For other details, refer to the explanation of "Adjusting the attack," above.

Appendices

Editing with RPN messages

RPN (Registered Parameter Number) messages allow settings to be made in the same way for instruments of different manufacturers. In contrast, NRPN (Non-registered Parameter Number) messages and exclusive messages can be used freely by each instrument manufacturer.

To edit using RPN messages, use the following procedure.

- ① Use RPN (LSB) [Bn, 64, rr] and RPN (MSB) [Bn, 65, mm] messages (control changes #100 and #101) (rr, mm: parameter number lower and upper bytes) to specify the parameter.
- ② Use Data Entry (MSB) [Bn, 06, mm] and Data Entry (LSB) messages [Bn, 26, vv] (control changes #06 and #38) to specify the value. ('mm' and 'vv' are the upper and lower bytes, allowing a total of 16384 steps.)

You can also use **Data Increment** [Bn, 60, 00] (control change #96: value fixed at 00) or **Data Decrement** [Bn, 61, 00] (control change #97: value fixed at 00) messages to increase or decrease the value in steps of 1.

The N1R receives the three types of RPN message described below (tuning, transposing, and setting the pitch bend range).

Tuning

You can use RPN messages to adjust the Detune setting of each part. (Use the MIDI channel for each part.)
Use the following procedure.

(1) Select RPN 01.

Transmit to the N1R a message of [Bn, 64, 01, 65, 00] (control change #100 with a value of 01, and #101 with a value of 00).

② Use Data Entry messages to adjust the value.

Use [Bn, 06, mm, 26, vv] (control change #06 and #38) to adjust the value. A value of 8192 [mm, vv = 40H, 00H] is center (normal pitch). A value of 0 is - 100 cents, and a value of 16383 [mm, vv = 7FH, 7FH] is +100 cents.

Transposing

You can use RPN messages to set the Transpose setting of each part. (Use the MIDI channel for each part.)

Use the following procedure.

(1) Select RPN 02.

Transmit to the N1R a message of [Bn, 64, 02, 65, 00] (control change #100 with a value of 02, and #101 with a value of 00).

② Use Data Entry messages to adjust the value. However, normally only the upper byte is used.

Use [Bn, 06, mm] (control change #06). A value of 8192 (mm=64=40H) is center (normal pitch). A value of 6656 (mm=52=34H) is -12 semitones, and a value of 9728 (mm=76=4CH) is +12 semitones.

Setting the pitch bend range

You can use RPN messages to adjust the pitch bend range for each part. (Use the MIDI channel for each part.)

Use the following procedure.

① Select RPN 00.

Transmit to the N1R a message of [Bn, 64, 00, 65, 00] (control change #100 with a value of 00, and #101 with a value of 00).

② Use Data Entry messages to adjust the value. However, normally only the upper byte is used.

Use [Bn, 06, mm] (control change #06). A value of 00 (mm = 00) sets a pitch bend range of 0, and a value of 1536 (mm = 12 = 0CH) sets a pitch bend range of +12 semitones (1 octave). The N1R allows negative values to be set as well, but only positive values can be set using RPN messages.

Editing with NRPN messages

NRPN (Non-Registered Parameter Numbers) are messages which can be used freely by each instrument manufacturer. The N1R receives NRPN messages to edit several parameters of Part Edit mode, which are designed to be compatible with the messages of another manufacturer's format. NRPN messages can be received to edit Vibrato Rate/Depth/Delay, Cutoff and EG Times, and the Cutoff, EG Time, Tuning, Volume, Panpot, and Send C and D etc. for each instrument of a drumkit.

Editing procedure is as follows.

- ① Use NRPN (LSB) [Bn, 62, rr] and NRPN (MSB) [Bn, 63, mm] (control changes #98 and 99 (rr, Multi mode: lower and upper byte of the parameter number) to select the parameter.
- ② Use Data Entry (MSB) [Bn, 06, mm] (control change #06) (mm: value) to specify the value.

Adjusting the tuning within a drumkit

As an example of control using NRPN messages, here's how to adjust the tuning of the snare for the drumkit of part 10.

Use the following procedure.

① Set NRPN MSB to 18H to select Drum Coarse Tune, and set LSB to 28H to select the drumkit instrument Snare (E2).

Transmit [Bn, 62, 18, 63, 28] (control change #98 with a value of 24, #99 with a value of 40).

② Use Data Entry to set the value. Only the upper byte is used.

This is done by transmitting [Bn, 06, mm] (control change #06). A value of 8192 (mm=64=40H) is center (normal pitch). A value of 6656 (mm=52=34H) is -12 semitones, and a value of 9728 (mm=76=4CH) is +12 semitones.

If a note is "stuck"

If for some reason a note "sticks" (i.e., continues to sound without stopping), moving to a different mode will normally solve the problem. Disconnecting the MIDI cable will also stop a note which was sounded via MIDI.

MIDI devices transmit a message known as Active Sensing [FE] at regular intervals. This allows a device that receives this message to know that an external MIDI device is connected. Then, if no MIDI messages are received for a certain length of time, the receiving device will decide that the connection has been broken, and will turn off notes and reset controller values that were received via MIDI.

Turning off all notes of a channel

When an All Note Off message [Bn, 7B, 00] (control change #123, data of 00) is received, all notes currently sounding on that channel will be turned off (as though you had released them on the keyboard).

An All Sound Off message [Bn, 78, 00] (control change #120, data of 00) will stop all sound being produced on that channel. While an All Note Off message allow note decays to continue, the All Sound Off message will stop the sound immediately.

These messages are only for use in emergency situations, and are not used while you play.

Resetting all controllers of a channel

When a Reset All Controllers message [Bn, 79, 00] (control change #121, data of 00) is received, the values will be reset for all controllers currently being used on that channel.

System exclusive messages

Since manufacturers are free to use system exclusive messages in any way they please, these messages are used mainly to transmit and receive sound data or editing data for parameters that are unique to a given model of instrument.

On the N1R, the system exclusive message format is [F0, 42, 3n, 4C,, F7] (n: exclusive channel).

However, some exclusive messages are defined to have a specific purpose common to all manufacturers. These are called universal system exclusive messages.

The N1R supports the following universal system exclusive messages.

- When an Inquiry Message Request message [F0, 7E, nn, 06, 01, F7] is received, the N1R will respond with an Inquiry Message [F0, 7E, nn, 06, 02, (nine bytes), F7] that means "I am a Korg N1R, system version ..."
- When a GM System On [F0, 7E, nn, 09, 01, F7] message is received, the N1R will switch to Multi mode, and will be initialized to GM settings.
- A Master Volume message [F0, 7F, nn, 04, 01, vv, mm, F7] (vv: lower byte of value, mm: upper byte of value; together expressing 16384 steps) can adjust the overall volume while preserving the volume balance between timbres of a combination, or between parts.

 A Master Balance message [F0, 7F, nn, 04, 02, vv, mm, F7] (vv: lower byte of value, mm: upper byte of value; together expressing 16384 steps, where 8192 is the initial setting, and lower values will move increasingly to the left) can adjust the overall pan position while preserving the relative pan position between timbres in a combination or between parts.

Transmitting sound data settings etc. (Data Dump)

Program sounds, combination sounds, drumkits, and global settings can be transmitted as MIDI exclusive data. The transmission of MIDI exclusive messages to an external device is referred to as a "data dump."

- In the Global mode <MIDI Data Dump> page, you
 can select the type of data, select whether the data
 will be transmitted from MIDI OUT or from PC I/F,
 and execute the data dump to transmit the specified
 type of data from internal memory.
- If the Global mode <MIDI Filter> EXCL parameter is set to "O," data dumps will also be transmitted when a Dump Request message is received.

This data is transmitted and received on the Global mode <Exclusive Channel>.

Synchronizing the arpeggiator

Synchronization of the arpeggiator playback with an external device can be specified in Performance Play mode or Multi mode. The Global mode <Clock Source> setting determines whether the N1R will be the master (the controlling device) or the slave (the device which is controlled).

When the Clock Source is set to INT (Internal), the N1R will be the master, and the arpeggiator speed can be controlled by the N1R. The notes generated by the arpeggiator will be transmitted via MIDI, and can play an external device connected to MIDI OUT. The tempo of an external sequencer can also be controlled.

When the Clock Source is set to MIDI or PCIF, the N1R will be the slave, and the arpeggiator speed will be determined by the incoming MIDI Clock messages. The arpeggiator can be controlled by MIDI messages.

Pattern select
[Bn 63 00 Bn 62 01 Bn 06 nn]
nn: 00–13
Arpeggio On/Off [Bn 63 00 Bn 62 02 Bn 06 nn]
nn: 00–3F (off), 40–7F (on)
Arpeggio Octave [Bn 63 00 Bn 62 03 Bn 06 nn]
nn: 00–03 (1–4 octaves)
Arpeggio Latch [Bn 63 00 Bn 62 04 Bn 06 nn]
nn: 00–3F (off), 40–7F (on)
Arpeggio Key Sync [Bn 63 00 Bn 62 05 Bn 06 nn]
nn: 00–3F (off), 40–7F (on)

Selecting effects

The effects that are selected in Multi mode or Performance Play mode can be switched via MIDI. For example if you wish to select effect u: 003 Flg-Rev, you would transmit the following system exclusive message:

F0, 42, 30, 4C, 12, 00, 00, 07, <u>50, 00, 03</u>, F7 The underlined <u>50, 00, 03</u> are <u>MSB, LSB, nn</u> (nn: effect number).

polices

Scale (temperament) settings

The temperament of the part selected in Multi mode or Performance Play mode can be adjusted. For example if you want the C note to be 10 cents higher for part 01, you would transmit the following system exclusive message:

F0, 42, 30, 4C, 12, <u>01</u>, <u>00</u>, <u>32</u>, <u>4A</u>, F7 The underlined <u>01</u>, <u>00</u>, <u>32</u>, <u>4A</u> are the <u>part number</u> (<u>00H</u>–1FH: <u>part 01</u>–32), note name (<u>32H</u>–3DH: <u>C</u>–B), and <u>value (0H</u>–40H: center value–7FH).

About GM/GS/XG

GM-compatibility means that sound selections etc. will function in the same way regardless of the manufacturer or model of instrument. However when using this, you should be aware of the following points.

 When the N1R receives a MIDI GM System On message [F0, 7E, nn, 09, 01, F7], it will switch to Multi mode, and will be initialized for GM operation.

Roland GS and Yamaha XG are expansions of the GM specification which Roland and Yamaha respectively have created on their own. The **N1R** supports the GS and XG sound maps and recognizes some of the messages.

You can specify whether or not these messages will be received or not by setting the Global mode <Receive Switch> parameters "GM On," "GS" On" and "XG On."

Program bank names with "r" are for the GS sound map, and bank names with "y" are for the XG sound map.

MIDI filters

Global mode <MIDI Filter> settings allow you to enable/disable reception for program change, aftertouch, control change, and system exclusive messages.

In Combination Edit mode, the above messages (except for program change) as well as pitch bend can be enabled/disabled independently for each timbre.

Compatibility with the N1/N5

When a Global Dump is received from the N1/N5, the Damper Pedal Polarity value is maintained. This means that if a Global Dump is to be received from the N1R, that value will be output without change. For other parameters, see below.

On the N1R, the N1/N5 Global parameters <Local Switch> and <Key Shift Position> are replaced by <Keyboard Simulator> and <Arpeggio Out MIDI>. This means that when a Global Dump is received from the N1/N5, or when a Global Dump is transmitted from the N1R to the N1/N5, the Global parameters will be as follows.

N1/N5 I N1R
Local=OFF
Local=ON I Single Ch.LAYER/SPLIT=OFF
Local=ON I Single Ch.LAYER/SPLIT=ON
Key Shift Pos=BeforeTG I Arpeggio OUT=ON

When a N1/N5 Performance Dump is received, the "Modulation Wheel Type" and "Assignable Pedal Type" values will be maintained within the N1R, and when a Performance Dump is transmitted from the N1R these values will be transmitted without change.

The N1R <Damper Assign> replaces the N1/N5 parameter <Assignable Switch Type>. When a Performance Dump is received from the N1/N5, values other than "Damper," "Lower Damper" or "Upper Damper" will be handled as "Damper."

Multi mode settings of the N1R are compatible with the N1, N5, NS5R, X5 and X5DR. However, of the 05R/W's Multi settings, only the effect settings are compatible with the N1R.

MIDI messages

Program/Combination/Bank List, Performance List

2	(Bank	'yDr1' Bank	(Bank MSB=7Eh)	
Drum Kit	List (Drum Bank)	Drum Kit	List (Drum Bank)	
E X	um Kit	ogram N PC# xxh	um Kit N	
(00) (10) (10) (10) (10) (10) (10) (10)	유민이 다양 보고 함께 되었다.	1 (00h) 2 (01h)	SFX 1	
	(Bank	-+ + 'kDrm' Bank (Bank	< MSB=3Eh)	
Drum Kit	List (Drum Bank)	Drum Kit	List (Drum Bank)	+
ram No.	; ×	Program No.	Drum Kit Name	+
(10h) STG (10h) STG (11h) ROG (11h) BDG (12h) DDG (12h) DDG (13h) STG (13h) STG (13h) KTG (13h) KTG (13h) KTG (17h) CTG (17h)	(00h) STANDARD (00h) STANDARD (10h) EDGTER (10h) EDGTER (10h) ANALOG (13h) ANALOG (13h) ANALOG (13h) ANALOG (13h) BRUSH (13h) BRUSH (13h) ETHNIC (13h) ETHNIC (13h) ETHNIC (17h) CTH	1100h)16(0EN)16(0EN)24(17h)2	GM Kit Power Kit Dance Kit Analog Kit Analog Kit GM Kit GM Kit User Kit User Kit GM Kit GM Kit	· · · ·
k Select	Select (MSB:LSB) 5P:xx	(LSB ignore)		
of merry	- 400 +0	TE ("Borform() to 101		

****	* * *	*********	Map List	ank Sel (MSB:LS	00	00:61	00:62	1 6	00:64	ا ق	Ö			50:xx 00:00(05)	l ä	, X	l m	6		4	5B:xx	7E:xx	7F:xx(XG)	35.55	78:xx 78:xx(GS)	3E:xx		
****		:	Bank	2 8			y:98		y100		ysrx		- + -	Prgu	PrgA	PrgB	Prgc	Cmbu	CmbA	ı E	ιŒ	yDr1		- + -	F. CE.	kDrm	***	
***		*	Map List	ank Se (MSB:L		00:12	00:13	00:14	00:18		00:18		0:2	00:21	00:22				00:26			lä	0	0:2	00:20	00:40	00:41	00:42
****	bank list		Bank	Bank Name	y:17	y:18	y:19	y:20	y:24	y:25	y:27	y:28	y:32	y:33	y:34	y:35	y:36	y:37	y:38	y:39	y:40	y:41	y:42	y:43	y:45	y:64	y:65	y:66

;	after GS Reset	(GS) : 8
*	00:10	y:16
y:72	y:14 00:0E	y:14
17:71	00:00	y:12
y:70	80:00	X:08

) : after GS Reset } : after XG Systen) : 05R/W Map

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MIDI C	hannel	Message
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			Новодо Илот (196x)	HIDI (Hex)	Description (Value)
Kibi channel messages	89	KIDI channel messages	NRPH LSB	8n 62 vv	vv -> See Table 1-2(RRPN) vv -> See Table 1-2(RRPN)
• n : Channel DOh_OFh	Fh 0_15		RPN LSB	2.2	4.4
ė		(65)	Data entry MSB Data Increment	Bn 60 00	0_127 RPM, MRPM value Data Increment HSB value
Hessage	HIDI (Hex)	Description (Value)	Data Decrement	3	Data Decrement MSB Value
医脊髓线 经营业 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基		2	Channel Mode Message		
Note ON	90 Kk w	kk:c-1_69 vv:1_127(velocity)	All Sound OFF	Bn 78 00	
Note OFF	9a kk 00 8a kk 40 	kk:c-1_69 kk:c-1_69	Reset All Controllers	Bn 79 00	
Program Change	\$	0_127			AssignControl 2 = 0 Expression = 0 Portamento = 0 (OFF) Chancel Pressure = 0
Channel Pressure	M 100	0_127			Polykey Pressure = 0 (All Key)
PitchBend Change	En ma 11				nuto Pedal
Poly Key Pressure	yu xk vv	kk:C-1_G9 vv:1_127 (Receive Only)			RPN - Null
Control Changes	- *		Local ON/OFF (PC/IF)	Bn 7A w	00=0N(effective all part), 7F=0FF Receive if 'n'=EXCL channel
Bank select(MSB)	Ba 00 vv	-> See Programe list	Local ON/OFF (MIDI) MONO Fode ON	Bn 7A vv Bn 78 0m	(mel only)
Sank select(LSB)	A 07 ug -1				
Balance Pitch Modulation Pampot	Bn 08 vv Bn 01 vv	0_64_127 Lower_Even_Upper LevelBelance '1 0_127 Redulation Wheel 0_64_127 163_CMT_R63	 increments (*!) or decrements (*) the upper byte Local on/off received from PC/IF will switch HID Refer to p.XX TO NOSF Interface Technical Chart. 	locroments (+) th ed from PC/IF wil iT Interface Tech	13: Increments (11) or decrements -) the upper byte (DKSI) of the NRV paramer's local movel reserved from FCVIP will believe that imput on/off. 14: Reserve p.XX YO MOST Inverface Trobinisal Chart.
Volume	Bn 07 vv	0_127	•		***************************************
Expression	Bn 0B vv	0_127	Table 1: RPM/URPH		
AssignableController1 AssignableController2	Bn 10 vv	0_127 N5/R1 Assignable KNOB(MOD.2) 0_127 N5/R1 Assignable Pedal(MOD.3)			1 0 000 1 . I C 000 1 .
Holdz ON/OFF (Dumper)	Bn 40 vv	OFF:00_63, ON:64_127	• }		
Sostenuto	2	OFF:00_63, ON:64_127	Ressage	HSB : LSB	value/inscripcion
Soft Pedal	1 Bn 43 vv	OFF:00_63, ON:64_127		: -	
EG Release Time	8n 48 vv	0_64_127 :-64_0_+63 (rolative)	Fine Tune	10 : 00	-100_0_+100[cent]
EG Attack Time	Bn 49 vv	0_64_127 :-64_0_+63 (relative)	Coarse Tune		40_64_88 -24_0_424[Semicone] ['3
Sound Contoroller 6	Bn 48 vv		The Data Entry 15B value is ignored.	the is ignored.	***************************************
Reverb Send Level	Bn Sa vv	0_127 (*C' send level)	'5: This is not reflect	od in the Multi	'5; This is not reflected in the Multi mode Key Shift parameter display.
Chorus Send Level Effectl Switch	B 50 50	0_12/ OFF:00_63, ON:64_127	(Butti mode nay shi	to name of the	harr parawarer changes.
Effect2 Switch	Bn SF vv	L63, ON:64_127			
Effecti Control Portamento Switch	8n 90 vv	0_127 0_63:0FF, 64_127:0M			
Portamento Time(MSB)	8A 05 VV	0_127 : 0=short,127=long			
Dorrange Control	14 54 VI	1 0 127 : C-1 G9 source Key			

	p-	Kessage	BRPN No. (bex)	Value/	Description	
Accordio State	۰ ۲	abresau	CURES INC. 1000A	STIP.	Macraboron 1	
Appendix Section Appendix Se			HSB : 1.5B		•	
Appengio Style		£			******************	
Approprie Seitch		Arpeggio Typo	••	61,0		·
Arpegio leafer		Arpeggio Switch	••	0_63,64_12	-	9.
Arrivegio Laterh	· +	Arpeggio Octave		5		÷
Approprie Rey Sync 00 : 05 0_641,277 OFF,081 46 Vibrate Depth 01 : 09 0_644,127 64_0_64(s)(stalative) Vibrate Depth 01 : 00 0_644,127 64_0_64(s)(stalative) Vibrate Depth 01 : 01 0.0 0_64,127 64_0_64(s)(stalative) Vibrate Depth 01 : 01 0.0 0_64,127 64_0_64(s)(stalative) Vibrate Depth 01 : 06 0_64,127 0_64,127 0_64,124(s) 0_64,127 Vibrate Depth 01 : 06 0_64,127 0_64,124(s) 0_64,127 0_64,127 0_64,127 0_64,127 0_64,127 0_64	-+	Arpeggio Latch	"	0_63,64_12		۶
Vibrato Bate 0 0 0 0 6 127 64.0_163(relative) Vibrato Bate Vibrato Bate 0 0 0 0 0 0 0 0 Vibrato Deph 0 0 0 0 0 0 0 0 0	· — ·	Arpeggio Key Sync	•	0_63,64,12		9.
Vibrato Parto 01 109 0.64-127 - 44.04517calive Vibrato Debty 01 100 0.64-127 - 44.04517calive Vibrato Debty Vibrato Debty 0.64-127 - 44.04517calive Vibrato Debty 0.64-127 - 44.04517calive Vibrato Debty Vibrato Debt	_		:			
Colored Colo	•	Vibrate Kate			-64_0_res(relative)	
Control Cont		Uthrato Delay			-64 0 +63 (relative)	
District Time	-	Filt Cutoff			-64 0 +63 (relative)	
Exp Attack Time	_	Color			-64_0_+63(relative)	
Exception 01 66 0.64.127 64.0_61 clatative 0 class 0.64.127 class	_	200	•		-64 0 +63 (relative)	
Draw filt Cateford 11	-	Decay 3	••		-64_0_+63 (relative)	
Drum Filt Cutoff 14 : K 0.44_127 - 64_0_615[tralative] 77 Drum 55 AttackThee 15 : K 0.46_127 - 64_0_615[tralative] 77 Drum 55 AttackThee 15 : K 0.46_127 - 64_0_615[tralative] 77 Drum 56 AttackThee 15 : K 0.46_127 - 64_0_615[tralative] 77 Drum 56 AttackThee 15 : K 0.46_127 - 64_0_615[tralative] 77 Drum 56 AttackThee 15 : K 0.46_127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.16_127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 15 : K 0.127 - 64_0_615[tralative] 77 Drum 76 AttackThee 7.2 Em. 62 0.127 Drum 77 Attack	_	EG Release Time	•		-64_0_+63 [relative]	
Drum Filt Cabor	٠		ł			
Drum Stite Calora 15 18 k 0.64,127 - 64.0.451 (calative) 17	_	Drum Filt Cutoff	••		-64_0_+63(relative) {	.1
Drum ED Decay Three 15 : KR 0_46_1127 - 64_0_161(ralative) 71 Drum ED Decay Three 15 : KR 0_46_1127 - 64_0_161(ralative) 71 Drum Drum Fine Thine 15 : KR 0_46_1127 - 64_0_161(ralative) 71 Drum Drum Drum Drum Drum Drum Drum Drum	_	Drum Filt Color	**		-64_0_+63(relative)	÷
Drum Bropet 19 19 18 10 46,4127 -64,0-630 (calculative) 17 Drum Pampet 19 18 18 10 0,64,127 -64,0-630 (calculative) 17 Drum Mobine 19 18 18 10,64,127 -64,0-630 (calculative) 17 Drum Mobine 19 18 18 10,127 (calculative) 17 Drum Mobine 18 18 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 18 18 18 18 Drum Mobine 18 18 18 18 18 18 18 18 18 18 18 18 18	_	8	••		-64_0_+63(rolative)	
Deum Stier Thure 19: KK 0.46,127 -64,0.61(rolative) 71 Deum Withouter 11: KK 0.46,127 -64,0.61(rolative) 71 Deum Mobbet 10: KK 0.127 -64,0.61(rolative) 71 Deum Mobbet 10: KK 0.127 -64,0.61(rolative) 71 Deum Mobbet 10: KK 0.127 (relative) 71 Deum Mobbet 10: KK 10: KK 0.127 (relative) 71 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 72 Deum Mobbet 10: KK 10: KK 0.127 (relative) 73 Deum Mobbet 10: KK 10: KK 0.127 (relative) 73 Deum Mobbet 10: KK 10: KK 0.127 (relative) 74 Deum Mobbet 10: KK 10: KK 0.127 (relative) 74 Deum Mobbet 10: KK 10: KK 0.127 (relative) 74 Deum Mobbet 10: KK 10: KK	_	ន	•		-64_0_+63(relative)	
Drum Spine This By K N 0.157 -64.0.6501201 17 Drum Nobles Drum Noble	_	Coarse	••		-64_0_+63(relative)	-
Drum Noble Drum N	_		••		-64_0_+63(relative)	•
Drum Rumpot	_		••		(apsolute)	
Drum Rev(C) Send	_					۲,
Duran Rev() Serned 18 : kk 0.137 (absolute) 77 Duran Che() Serned 18 : kk 0.137 (absolute) 77 The Data Date() Serd 18 : kk 0.137 (absolute) 77 The Data Date() Serd 18 : kin 0.137 (absolute) 77 The Chellius) Added to the value of the program parameter. Sith a setting of 127, the value specified by the program parameter will be used to the Will and the program parameter will be used to the Will and the program parameter will be used to the Will and the part mode is Educit-Marné. Species order or program or program to the Will and the part mode is Educit-Marné. Universal symmen Exclusive recessed) Universal symmen Exclusive recessed) Universal condity Proj. Enn. 66 0.15 Device notality Proj. Enn. 66 0.15 Device notality Proj. Enn. 66 0.15 Waster values Proj. Enn. 66 0.15 Waster values Proj. Enn. 64 0.11 Waster values Proj. 64 0.11 Waster					(RND, 1,63~CNT~R63)	
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The DAX BREPLY (SEW JULIE SI SEGNORAL STATES) - (Reclation) Inter No. (GC-CR): - (G1-CR): - (G1-CR	- •	or an cho(b) series	4			
With pure miret No. (cocketh. *CO; *C; *C; *C; *C; *C; *C; *C; *C; *C; *C	•	The Data Entry LSB v	alue is ignored	نہ .		
Creation* Added to the broaden of the program personeter. **(absolute)** Added to the two value of the program personeter. **(absolute)** **(absolute)*	•	kk; Drum Inst No. (0)	ch-6ch : 'c0'	(-8-)		
8 <u>8 8 -</u>			o the value of	the progra	s paramotor.	
8	•		ied with the v	lue of the	program parameter.	
8 <u>8 8 -</u>		рагалес	er will be used			į
Universal System Exclusive Message) [Universal System Exclusive Message) Device Industry Pc, 7E, m., 60, 01, 57 Cot System of Pc, 7E, m., 64, 01, 11, Pro, 87 Cot System of Pc, 87	•	Upper part, and in	Multi mode on e part mode is	the EXCL_cl Edeml Edem	h. (Global).	
Miverael exclusive messages Miverael system Exclusive Messages Miverael topulary Prof. Em. 06.01.87 Miverael topulary Miverael to	•	***************************************				
Marce exclusive reseage	•					
### ### ##############################	٠	Universal exclusiv	е пеззадез			
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Annaly A						
PG.7Em.06.01.87 PG.7Em.06.01.87 PG.7Em.06.02.11.mm.87 Pm. mm. 90.02.11.mm.87 Pm. mm. 90.02.	_	versal System	usive Message)			
FO.7E.m. 09.01.11.FW.FT FFF FF		Device Inquiry	FO, 78, nn, 96, (74.10		
FO.7P. nn. 04.02.11. rep. 17 rep. 179.7P. nn. 00A_DPA = Receive if EXCL channel TRh = Roceive any Channel Description Exclusive States Exclusive States Exclusive States Inquiry Hessaye		GM System ON	FO. 7E. pn. 09.	74.10		
00%_OPR = Receive if EXCL channel TRh = Receive any Channel TRh = Receive any Channel TRh = Receive any Channel Description Exclusive Research Exclusive Research Exclusive Research Facility Research Identity Research Identity Research Identity Research Interest (Privator of Privator of Privato		Master Volume	FO. 7F. nn. 04.	01, 11, mm, F7	e E	0-127
Oth DPM - Receive of EKCL channel Th * Receive ony Channel Description Exclusive Stanton Exclusive Channel Inquiry Hessage Identity Ressage Id		Haster Balance	FO, 7P, nn, 04,	02, 11, mm, F7	e e	n 0_64_127 er_R633
Oth, DePt = Secestro if EVCL channel (in 7Fh = Receive any Channel Celestro						,
Description Ecclusive Status Exclusive Channel Induity Resage Read In Chantly Come In Resease Come In Stories Hinor Version SISTEM Hajor Version Read of Exclusive Reador Version End of Exclusive	•	 E	1 1	. i	channel (in	(apag
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Seclusive Non Realline		POh	Exclusive S	tatus		
00h_07 Exclusive Channel (510bal Paranet 00h_07			Exclusive N	on Realtime		
Inquiry Message Inquiry Message Inquiry Message Inquiry Message Inquiry Message Inquiry Cong is all the profit of th			Exclusive C	hannel	(Global Parameter)	
144		gen	Inquiry ses	sage		
HIR ID (TAMENT COME IN (TAMENT		4 4	01 0008		(HAMBIEACTHIRERS ID)	
14h 05h-45, 14h-41k (REABER COOE IA 00h_63h SYSTEM Hinoz Version (Hinos Version 00h_63h SYSTEM Majoz Version (Hinoz Version 00h_63h SYSTEM Majoz Version (Hinos Version End of Exclusive		ţ			(FAHILY CODE LSB)	
14h 05h-a35, 14h-a18 (REPARK CODE M. 10h_63h SYSTEM Hinor Version (Ninor Version 00h_63h SYSTEM Major Version Hajor Version End of Exclusive (Major Version End of Exclusive		400			(FAMILY CODE HSB)	
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End of Exclusive			SYSTEM Majo	r Version	version	
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		0_15=A1_A16,16_31=B1_B16, 32=OFF 0_15=A1_A16,16_31=B1_B16,127=OFF	
40,1x,02 00-0F 50,1x,02 00-0F	Rx Channel 0	0_15=A1_A16 0_15=B1_B16	
00-00	Hastgii	Mormal, l=Foly Normal, l=Drum, 2_S=MDrml_4 Normal, l=MDrml, MDrm2	
50, 1x, 15 00-02	c	Normal, 1=MDrm3, MDrm4 -24 0 +24 [semitone]	
nn, 0C 08, nn, 09 40, 1x, 17 0-F (MSB) 8	ne (0:0_8:0_	-128_0_127=-12.8[Hz]_+12.7[Hz}	2
nn,10 08, nn, 0B 40, 1x, 19 00-7F 64		0_127 CC#07 0_127 CC#11	
00-40-7F 40 00-40-7F 40		0_64_127 0_64_127	•
08,nn,0E 40,1x,1C 00-40-7F 40 08,nn,0F 40,1x,1D 00-7F	Bottom	0=RND, 1, 127=1,63_R63 CC#10 (s 0_127 = C-1_G9 0_127 = C-1_G9	8
08,nn,12 40,1x,21 00-7F 00	2	0_127 CC#93 0_127 CC#93	
08, nn, 15 40, 1x, 30 00-40-7F 40 08, nn, 16 40, 1x, 31 00-40-7F 40		-64_+63 NRPN#1:08(MSB) -64_+63 NRPN#1:09(MSB) -64_+63 NBPN#1:10(MSB)	
08,nn,18 40,1x,32 00-40-7F 40		-64_+63 NRPN#1:32(MSB) -64_+63 NRPN#1:33(MSB)	
08, nn, 18 40, 1x, 34 00-40-7F 40	EG Attack Time EG Decay Time	-64_+63 NRPN#1:99(MSB) -64_+63 NRPN#1:100(MSB)	
08,nn,1C(40,1x,36)00-40-7F 40 VDF	EG Meleaserime	-54_+63 NARNEL:102(MSB)	
08,nn,31 40,1x,04 00-01 01 RX	Channel After SW		
08, nn, 32 40, 1x, 05 100-01	Program Changesw Control ChangeSW Poly After SW		
08,nn,35 40,1x,08 00-01 01 Rx 08,nn,36 40,1x,09 00-01 01 Rx	Note ON SW RPN SW	~ ~	
08,nn,37 40,1x,0A 00-01 01 Rx 08,nn,38 40,1x,0B 00-01 01 Rx			
08,nn,39 40,1x,0C 00~01 01 RX 08,nn,3A 40,1x,0D 00-01 01 RX			
08,nn,3E 40,1x,0E 00-01 01 RX 08,nn,3C 40,1x,0F 00-01 01 RX			
2E 08, nn, 3D 40, 1x, 10 00-01 01 RX 2F 08, nn, 3E 40, 1x, 11 00-01 01 RX			
08, nn, 3F 40, 1x, 12 00-01 01 Rx			
	3000	-64 463 footh)	
98,nn, 42 41 00-40-7F 40		-64+63[cent]	
08,nn,43 42 00-40-7F 40	a a	-64.,+63[cent] -64.,+63[cent]	
18, nn, 45 44 00 - 40 - 7F 40 18, nn, 46 45 00 - 40 - 7F 40	ខាក	-64.,+63[cent] -64.,+63[cent]	
45 00-40-7F 40	ŧ.	-64+63[cent]	
48 00-40-75 40	ale G#	-64+63[cent] -64.+63[cent]	
48 00-40-7F 40	ale A	-64,.+63[cent] -64,.+63[cent]	
08, nn, 59 40, 1x, 1F 00-5F 10	1 Number 2 Number	C#0_C#95	
08, m, 1D 46, 2x, 00 88-40-58 40 MOJ 08, m, 1E 40, 2x, 02 00-40-7F 40 MOJ 08, m, 1E 40, 2x, 02 00-40-7F 40 MOJ 140, 2x, 03 00-40-7F 40 MOJ 140, 2x, 03 00-40-7F 40 MOJ	Pitch Control Filt Control Amp Control LFO Rate	-24 U_+24 semicone -64 +63 -64 +63 -64 +63	
08, nn, 21 40, 2x, 05 00-7F 00 MOI 08, nn, 22 40, 2x, 05 00-7F 00 MOI 08, nn, 22 40, 2x, 06 00-7F 00 MOI	LFO VOF Depth LFO VOA Depth	0_127 0_127	
08,nn,23 40,2x,10 28-40-58 42 Ber 08,nn,24 40,2x,11 00-40-7F 40 Ber	Pitch Control	-24_0_+24{semitone} RPN#0:0=0_24 -64_+63	0_24
nn, 4A 08, nn, 25 40, 2x, 12 00-40-7F 40	Amp Control LFO Rate	-64_+63 -64_+63	
000 000 000 000 000 000 000 000 000 00	0, 1x, 15, 100-02 0, 1x, 10, 100-07 0, 1x, 10, 100-00-07 0, 1x, 100-00-00-00-00-00-00-00-00-00-00-00-00-	0.18, 15 00-05 0.18, 15 00-05 0.18, 15 00-05 0.18, 15 00-05 0.18, 15 00-05 0.18, 15 00-05 0.18, 15 00-07 0.18,	0.15, 15 00.02

00, 00, 07, 70, 00, 75 00, 00, 77, 00, 00, 75 00, 00, 77, 00, 00, 75 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00, 01 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00, 00, 00 00

Part Parameter Change

Part parameter change (only received)

format: F0,42,30,4C,12,a1,a2,33,dd...,F7
format: F0,42,30,42,12,a1,a2,33,dd...,F7 (same as KORC *NSSR'

al.a3 = address

dd = dates

NIR EXCL: F0,42,3n,4C,12,a1,a2,a3,dd...F7
NSSR EXCL: F0,42,3n,42,12,a1,a2,a3,dd...F7
XG EXCL: F0,43,1n,4C,a1,a2,a3...F7
GS EXCL: F0,41,1n,42,12,a1,a2,a3,dd...,ss

n= NIR: EXCL channel (30h_3Fh)
XG: Device No. (10h_1Fh)
GS: Device ID (10h_1Fh)

[http://www.mid.low] [1 kg] [68] [60,00,70] [00,00

01, nn, 00 08, nn, 01 01, nn, 01 08, nn, 02 01, nn, 02 08, nn, 03

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NRPW23:IT (KSB) NRPW25:IT (KSB) NRPW29:IT (KSB) NRPW29:IT (KSB) NRPW29:IT (KSB) NRPW20:IT (KSB) AG05) dots)	\$55 (CMDA) 'A. Sep (CMDA) 'C.	\$555 (CmbX)	\$55 (CMD5)	\$55 (CmbA)	0_127 0_127 0_127 1-64_+63 1-64_+63 0_127
NRPW#23:rr NRPW#23:rr dots) dots) abts)	######################################	h drunkit and each dF7 d	00-40-7F Attack Time 100-40-7F Attack Time 100-7F Attack Time 100	Mar. 7, 00 Mar	0.127 -4.0.42 (semitone) -4.0.63 -64.0.63 -64.0.63 -0.127 0.
	instrument.	h drumkit and each	ch_6ch='C0'_'C8'} ill differ for each	m=MDrml_2(0_1) n=MDrml_4(0_3) rr=note number(0 Default values w	semitonol
NRPN#20:rr(NRPN#21:rr(NRPN#22:rr(NRPN#23:rr	0=Single, 1=Multi 0=OFF, 1=ON 0=OFF, 1=ON 0=OFF, 0=OS -64_0=+63 -64_0=+63 -64_0=+63	Key Assign Mode Receive Note OF Receive Note ON Cutoff Calor Attack Time Decay time		3n, rr, 08 3n, rr, 08 3n, rr, 09 3n, rr, 09 3n, rr, 04 3n, rr, 09 3n, rr, 06 3n, rr, 0c 3n, rr, 0c 3n, rr, 0c 3n, rr, 0c 3n, rr, 0c	seni tone]
NRPM#25.IT(NRPW#25.IT(NRPW#26.IT(NRPW#28.IT(NRPW#29.IT(NRPW#30.IT(-64_0_65 (semitone) -64_0_65 (semitone) -64_0_65 (semitone) -64_0_65 (semitone) -60FF,1,127 -6,1,64,127 -6,1,64,127 -6,1,127 -6,1,127	Coarse Tune Fine Tune Level Group Panpot Revexb Send Chorus Send	41,m2,xx 00-40-7F 41,m3,xx 00-7F 41,m4,xx 00-7F 41,m4,xx 00-7F 41,m6,xx 00-7F 41,m6,xx 00-7F	3n. rr. 00 3n. rr. 00 3n. rr. 01 3n. rr. 01 3n. rr. 02 3n. rr. 03 3n. rr. 04 3n. rr. 04 3n. rr. 06 3n. rr. 06 3n. rr. 06 3n. rr. 06	semitone
			S	<pre> <drum parameters=""> [NIR] [XG] </drum></pre>	
	00 01	\$7F \$00	, m j	\$59 (CmbA) \$5A (CmbB) \$5B (CmbC)	semitone

01, m, 4C | 08, m, 25 | 40, 2x, 14 | 00-7F | 00, m, 40 | 08, m, 27 | 40, 2x, 15 | 00-7F | 00, m, 40 | 08, m, 27 | 40, 2x, 15 | 00-7F | 00, m, 40 | 08, m, 27 | 40, 2x, 15 | 00-7F | 00, m, 52 | 08, m, 4F | 40, 2x, 21 | 00-40-7F | 01, m, 52 | 08, m, 4F | 40, 2x, 21 | 00-40-7F | 01, m, 55 | 08, m, 4F | 40, 2x, 21 | 00-40-7F | 01, m, 55 | 08, m, 51 | 40, 2x, 21 | 00-7F | 01, m, 55 | 08, m, 51 | 40, 2x, 21 | 00-7F | 01, m, 55 | 08, m, 51 | 40, 2x, 21 | 00-7F | 01, m, 55 | 08, m, 55 | 40, 2x, 21 | 00-7F | 01, m, 55 | 08, m, 55 | 40, 2x, 21 | 00-7F | 01, m, 55 | 08, m, 55 | 40, 2x, 21 | 00-40-7F | 40, 2x, 2

94

Settings produced when a GM System ON mossage is received When GM System ON is received, one of two types of reset will occur, depending on	the state at that time. If a GM System ON is received following a GS Reset, the state will be the same as	for GS Resot. . If a GM System ON is received following an XG System CM, the state will be the same
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Settings produced when a GM System ON mossage is received When GM System ON is received, one of two types of reset "	pe	ð
rect f	ټ	rem.
113 0 20	Rese	Sys
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PrgU <--depends on GS/XG s <--depends on GS/XG s KDrm o initialization by reception of GW System OW. GS Reset and XG System GW of Militalization by reception of GW System OM. GS Reset and All particulations will be initialized.

2. For parts 1-16, when a non-drumkit part is matched to a drumkit by a bank change - program change. The parts 1-13 when a non-drumkit part is matched to a drumkit by a bank on program change, the part mode will be Merral. (Except when a OSFW WILLSatup Dung is received.)

1. The system of GW System OW of GW System OW is received, the mode will be white map will be selected will be Merral. (Except when a OSFW William to Settings produced when a Reset W. (GS Reset) is received.

1. The fault map will be selected and will not be saved to Global.)

2. Effect will be Anold Reverded.

3. Program changes for bank 00:00 (MSB:LSB) will select 'GH-a bank sounds.

4. Program changes for bank (0:01 (MSB:LSB) will select 'Y:GM' abank sounds.

4. Program changes for bank (0:01 (MSB:LSB) will select 'Y:GM' abank sounds.

4. On this instrument, reception of GS SYSTEM MODE SET (Roland SCB) will have the same operation is used to Set a part to detune, that that hankselect SW = OPP).

cal OFF: HIDI IN and tone generator are disconnected cal ON: HIDI IN and tone generator are connected to P) Data (hex) 8n 7A 00 8n 7A 7F

GM-a:001 Piano 1 rDrm:001 STANDARU GM-a:001 Piano 1

Settings produced when a N-Resct Yr (XG System ON) is received Default may will be selected. (Map condition is temporary, and will not saved to Global.). Effect will be "A:001 Rev/Cho". Effect will be "A:001 Rev/Cho". Program changes for bank 00:00 (MSB:LSB) will select 'GN-a' bank sounds Program changes for bank 00:01 (MSB:LSB) will select 'y:01 bank sounds Program changes for bank 00:01 (MSB:LSB) will select 'y:02' bank sounds

GK-a:001 Piano 1 rDrm:001 STANDARD GM-a:001 Piano 1

Parti6 NORM
Parti7 NORM
Parti5 NORM
Parti6 NORM
Parti6 NORM

GM-a:001 Pieno

Reset/Other Infomation

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Voice Name List

Performance

Bank Select MSB=95, LSB=Ignored

Cit	ormance					1
PC		Upper		Lower	Туре	Arpeggio Type
1	CmbU	0 Alignment	GM-a	1 Piano	1	4 ALT2
2	CmbU	42 IceClimber	PrgA	26 ReMix	kBass Split	12 B-TECHNO
3	CmbU	25 Mr."BX-3"	CmbB	49 RapTo	oolKit Split	18 D-JUNGLE
4	CmbC	50 Encounters	PrgA	43 CoCo	Layer	7 ARP 2
- 5	PrgC	84 Wah Clav	CmbB	9 Danc	e Trak Split	17 D-TECHNO
6	CmbU	16 Hip House	PrgB	56 Deep	House Split	12 B-TECHNO
7	CmbB	76 Bass/Brass	KDrm	26 Analo	og Kit Split	17 D-TECHNO
8	CmbB	64 Maya Dance	CmbB	64 Maya	Dance Split	15 B-SOUL
9	PrgU	71 N1 Dyno EP	PrgB	36 Stein	Bass Split	14 B-FUNK
10	CmbA	17 BigStrings	CmbB	27 Nutci	racker Layer	17 D-TECHNO
11	CmbA	70 Uni Verse	PrgC	56 Bass		10 ARP 5
12	CmbU	23 Indian Jam	CmbC	23 Ghan	ne Jana Split	20 D-R&B
13	CmbU	74 WaveGuitar	PrgA	96 Chro	meBass Split	13 B-DANCE
14	CmbB	49 RapTooKit	yDr2	26 Analo		20 D-R&B
15	CmbC	54 Dole Bee	CmbB	6 Hous		14 B-FUNK
16	CmbU	79 Beam Me Up	CmbU	59 Borg	Space Split	11 ARP 6
17	CmbA	93 Morocco	kDrm	26 Analo	og Kit Split	17 D-TECHNO
18	CmbB	73 Botswana	CmbA	73 Wet	Lands Split	13 B-DANCE
19	CmbU	1 Zinger EP	CmbC	13 Perco		6 ARP 1
20	CmbB	16 PhaseTwins	CmbU	36 Rezzo	o Rave Split	14 B-FUNK
21	CmbU	12 12ToneBelz	CmbB		eMaze Split	6 ARP 1
22	CmbU	54 Gtr/Flute	CmbU		Band Split	15 B-SOUL
23	CmbA	10 Melotronic	CmbU	6 VoxE)'House Split	12 B-TECHNO
24	CmbU	76 BS&StPiano	yDr2	41 Brusi		20 D-R&B
25	CmbA	91 Accordion	CmbB	94 Bava		9 ARP 4
26	CmbA	90 Fade Away	CmbB		lution Split	6 ARP 1
27	CmbA	76 Bass&Vibes	rDrm	41 BRU:		17 D-TECHNO
28	CmbB	30 First*Snow	CmbC		esque Split	5 RANDOM
29	CmbB	98 Lead & Pad	CmbA		a-La! Split	2 DOWN
30	CmbU	95 Eruption	CmbU	5 Fast		16 B-JAZZ
31	CmbC	90 FirstLight	CmbU		inous Layer	
32	PrgB	88 03R/WPulse	PrgA	38 Xana	alog Layer	4 ALT2

CmbU

Bank Select MSB=88, LSB=Ignored

CmbA

Bank Select MSB=89, LSB=Ignored

PC	Name
0	Alignment
1	Zinger EP
2	Acappella
3	Rain Dance
4	Blue Bass
5	Fast Perc
6	VoxD'House
7	Midnight
8	Pulse:Mod
9	FilmDrama
10	Moonrise
11	PianoMagic
12	12ToneBelz
13	Afro/Cuban
14	CrankitUp!
15	SwingHorns
16	Hip House
17	Sweeteners
18	Mega Pulse
19	Wild Rave
20	Flangesty
21	Dynamite
22	Goodbyes
23	Indian Jam
24	FolkGuitar
25	Mr. "BX-3"
26	Dyno Split
27	Pizz A Pie
28	DroidRoad
29	Dj*ToolBox
30	Futurist
31	Cyclic EP
32	Vox Bells
33	NightTrain
34	Tune Smith
35	16 Horns
36	Rezzo Rave
37	LegatoReed
38	CanyonView
38	UnderWorld
40	
	Dizzying Vov King
41	Vox King
42 43	IceClimber
	Zen Garden
44	Iron Layer
45	GreatOrgan
46	ForceField
47	The Loner
48	New Rave
49	Stereo Kit

PC	Name
50	Chem Lab
51	Beefy EP
52	Wordless
53	Discovery
54	Gtr/Flute
55	Fanfare
56	Virtuals
57	5000 BC
58	TheModKnob
59	Borg Space
60	DreamPulse
61	InYourEyes
62	The Light
63	Big Ben
64	Mr. Metal
65	N1JazzMan
66	Split Bass
67	Strings
68	PureAnalog
69	Invaders
70	Luminous
71	Ballad EP
72	Nashville
73	Witch Hunt
74	WaveGuitar
75	Trpt&Bones
76	BS&StPiano
77	Heavy Bows
<u>78</u>	TheLastOne
79	Beam Me Up
80	Generators
81	ProStageEP
82	Child Song
83	Instanbul
84	RezStakBS
85	OverLoad!
86	Latin Band
87	FreshRosin
88	GlassPipes
89	Elements
90	PowderSnow
91	Mouth Harp
92	Sea Horses
93	Trinidad
94	AtTheFeast
95	Eruption
96	CelticBand
97	HarpString
98	Unison

PC	Name	PC	Name
0	Megatron	50	Mast World
1	Rock Piano	51	FunkySpice
2	Boys Choir	52	Voices2Men
3	SongOfLife	53	TheGamelan
4	StickSplit	54	Chorus Gtr
5	Stax Organ	55	Full Brass
6	NeuroFunk	56	Orch Split
7	NightMusic	57	The Finale
8	Hard Sync	58	CymbalLife
9	Slammin'	59	HeadHunter
10	Melotronic	60	L.F.O.City
11	Power Comp	61	Power Keys
12	TheRedSun	62	Aquarium
13	Ethnetic	63	Ice Bells
14	Guitar Man	64	Oh-La-La!
15	MutedHorns	65	Super Jazz
16	Euroman	66	MasterFunk
17	BigStrings	67	ChamberStr
18	SkyCatLead	68	LayerSynth
19	HouseOfSki	69	Space Port
20	Warriors	70	Uni Verse
21	Velo EP	71	Stak'oMidi
22	Dreaming	72	Airiana
23	IndianOrch	73	Wet Lands
24	12 String	74	Guitar&Pad
25	Deep Organ	75	Trombhorns
26	SplitOrgan	76	Bass&Vibes
27	Pizz & Bow	77	Double Bow
28	ODriveLead	78	Sophism
29	PowerHouse	79	Dagobar
30	FreeTime	80	TheyAppear
31		81	Piano Pad
	Emmabama	82	Milagro
32	VoxGamelan	83	RhythmPipe
33	EastAfrica	84	DynamoBass
34	Fat Pluck	85	Rock Organ
35	Big Band	86	Osaka jazz
36 37	RezzoSplit	87	Leti Theme
	Sonata	88	Pad+Alpha
38	Maxi Stab	89	<n> File</n>
39	Sea Storm	90	Fade Away
40	Vectoring	91	Accordion
41	The Gospel	92	Moon Stone
42	LunarBells	93	Morocco
43	Sting&Wind	93	Dulcimer
44	Slap & Pop		
45	WeddingDay	95	FullManual
46	Type Aline	96	GiantSplit
47	DelayedHit Have Fun	97 98	Bolshoi Synth Fat
		ı ux	· NVIIII FAI
48 49	Wild Drums	99	TimeTunnel

CmbB

Bank Select MSB=90, LSB=Ignored

CmbC

Bank Select MSB=91, LSB=Ignored

0 Pollenesk 1 Fat Pianos 51 ChorusClav 1 Stereokeys 51 Harpsicord 52 Goldmine 2 Certeaven>> 52 AngelChoir 52 Goldmine 53 ArThe Easts 3 Pacifica 53 ArThe Easts 54 HeatBreak 54 HeatBreak 54 Stay Stick 54 Dole Bee 56 Citibit O' 56 Cool Duet 57 Overture 7 Delicato 57 Ensembled 58 HiCTheDust 8 Big Swell 56 Str/Oboe 57 Overture 7 Delicato 57 Ensembled 58 Centrefold 58 HiCTheDust 8 Big Swell 58 Centrefold 57 Ensembled 58 Centrefold 58 Centrefold 57 Ensembled 58 Centrefold 58 Centrefol	PC	Name	PC	Name	۱ ٦	PC	Name] [PC	Name
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48 Multi Rez 98 Lead &Pad 48 ChrisTall 98 Midi Winds				· · · · · · · · · · · · · · · · · · ·] [46	Busy Split			ChiffSplit
] [47	Madrigal		97	OrchDivisi
49 RapToolKit 99 << <hell>>> 49 Marching 99 Bad Dream</hell>			98] [48	ChrisTall	٦	98	Midi Winds
	49	RapToolKit	99	<< <hell>>></hell>] [49	Marching		99	Bad Dream

[•] In addition to these combination sounds, there are two more sounds in Bank yDr1.

PrgU

Bank Select MSB=80, LSB=Ignored MSB=0, LSB=0 (05R/W Map)

PrgA

Bank Select MSB=81, LSB=Ignored

	WI3D=0, E3D=0	(001		··				-		
PC	Name	1	PC	Name		PC	Name	L	PC	Name
0	Expansions		50	Intro Pad		0	RunawayPad		50	Universe X
1	St. Piano		51	Piano Pads	l	1	N Piano	L	51	Piano Pad
2	BigBadBari		52	Fox Horns		2	Tenor&Alto	L	52	FlugelHorn
3	Droid Beat	Γ	53	Ark Textur		3	Chord Vox	L	53	SynMallet
4	RosewoodGt		54	N1 Clav] [4	Flamenco	L	54	Mr. Clean
5	Rock Organ	Γ	55	N1 Organ		5	RockSteady	L	55	60's Organ
6	WalkinBass	ſ	56	Snap Bass] [6	Upright	L	56	Dance Bass
7	Symphony	Ī	57	Horns&Bows] [7	N Strings	L	57	Quick Bows
8	Modular 3C	Ī	58	Syn Bottle	ΙΓ	8	LA Synth		58	Fresh Air
9	Techno Kit	Ī	59	BadWeather	1 [9	Street Kit		59	VoodooSong
10	Color Pad	Ī	60	KorgStatio	ΙΓ	10	Alaska		60	Antartica
11	N1WhirlyEP	Ī	61	N1GrandEP	1 [11	PF&Strings		61	PowerPiano
12	Big Brass	Ī	62	SopranoAir	1 [12	Octa Brass		62	AvantGarde
13	Band Hit	Ī	63	Synthasaur	1 [13	Rave Mix	Γ	63	DreamWorld
14	AcousticGT	۱ ا	64	O.D. Lead	1 [14	BriteSteel	Γ	64	TubeCrunch
15	VintageBX3	ľ	65	Brilliant	1	15	Rotary Org	Γ	65	Mixture
16	Solid Bass		66	StringSlap	1	16	BassPicker		66	NuFretless
17	LightVoice		67	St.Quartet		17	Boys Choir		67	Aggiatato
18	Solo Synth	ļ	68	Pulse	1	18	MonoLead		68	Split Sync
19	Harp Gliss	Ì	69	[ComboKit]	1	19	TheSunrise		69	[KrazyKit]
20	PlanetS+H	İ	70	Padonomic	1 [20	Vortex		70	LandingPad
21	DWGS Dream	l	71	N1 Dyno EP	1 1	21	V\$ E.Piano		71	NightTines
22	Reed&Flute	ı	72	Orch&Horns	1 [22	Dyno Flute		72	SalsaHorns
23	Throbmastr	.	73	CraterDust	1 1	23	WhiteNoise		73	Up We Go
24	Air Guitar	ı	74	Stadium GT	1 [24	Bouzouki		74	TheRipper
25	N1JazzOrg	ŀ	75	WhiteShade	1	25	Jazz Organ		75	DanceOrgan
26	AnaSawBass	İ	76	Digi Bass	1	26	ReMixBass		76	FatRezBass
27	WindString	l	77	ArcoString	1	27	Air Vox		77	ViolinSect
28	Mega Keys		78	WhiteHorns	1	28	Stab Pad		78	Pulsator
29	Power Drum		79	ChurchBell	1	29	Lazer Toms		79	DreamBells
30	GlideSweep		80	The Voyage	1	30	Sunrise	1 F	80	In The Pad
31	N1 A.Piano		81	EP&Waves	1 F	31	Rock Piano	1	81	LA Layer
32	TP & Brass		82	SuperBrass	1	32	Classic TP	T	82	Big Band
33	Visitors		83	Smash It	1	. 33	Velo rez	1 1	83	Stereo Hit
34	PedaiSteel		84	Mega Clav	1	34	HollowBody	1	84	Funk Clav
35	StageOrgan	l l	85	MasterFisa	1	35	R&B Organ	1	85	Polka Box
36	SuperRound		86	LowRezBass	1	36	SweetStick	1 1	86	Ultra Rez
37	Divisi		87	Super Pizz	1	37	TheStrings	1	87	Light Pizz
38	SynthBrass	1	88	SynLead 1	1 1	38	Xanalog	1	88	AT Rsonanz
39	ODRaveKit		89	InTheTrees	1	39	VeloGated		89	[jet star]
40	AnaSquares	1	90	VeloSweep	1	40	Swell Pad	1 1	90	Fragments
41	N1StageEP	1 1	91	Magic Tines	1	41	Vintage EP	1 t	91	SuperTines
42	V.S. Brass	1 1	92	Big Bones	1	42	Brass Ens1	1	92	Trombones
43	Pluggedin	1 1	93	SonicBlast	1	43	Coco	1	93	CyberTrash
44	Strummers	1	94	Guitar Pad	┪┢	44	Parker Gt	1 1	94	Mandolin
45	SmallPipes		95	Perc Trem	1	45	Full Pipes	1	95	BX3 Medium
46	Slap&Slide		96	Big Mini	1 t	46	Slap It	1	96	ChromeBass
47	MixedChoir		97	GlassVoice	1	47	VocalChoir	1 1	97	SopranoVox
48	Pizarro's		98	Lead Stab	┥ ├	48	MiniODLead	1 1	98	Syn Brass
49	SteelDrums		99	Good Vibes	1 H	49	Gamelan	1	99	Logs&Bells
47	1 Steel Diams	j l		COOG TIDES	ا ل			J L		I

PrgB

Bank Select MSB=82, LSB=Ignored

PrgCBank Select MSB=83, LSB=Ignored

		Г		Name 1
PC	Name	L	PC	Name
0	LostWrldMS	L	50	Fish Pad
1	Studio	Ļ	51	MagicPiano
2	AltoBreath	1	52	Soft Horns
3	DanceReMix	1	53	New Era
4	BriteNylon	Ĺ	54	Rock Mutes
5	Distortion	L	55	CX-3 Organ
6	ParkerBass		56	Deep House
7	Legato Str		57	OrchString
8	EtherBells		58	PowerLayer
9	ProducrKit		59	PipeDreams
10	Transforms	[60	Ravel Pad
11	EP&tStrings	ſ	61	M1PianoL&R
12	Brass Ens2	Ī	62	Bag Pipes
13	Break It Up	Ī	63	!!!Bang!!!
14	12StringGt	ľ	64	FeedbackGt
15	Organomics	Ţ	65	Vox Organ
16	Heavy Pick	Ī	66	Roto Bass
17	Humm Vox	1	67	Cello Ens
18	Square	Ī	68	SyncNoEvil
19	Mark Tree	1	69	Total Kit
20	Sputnik	Ì	70	SlowSunset
21	HarmonicEP	ı	71	Motion EP
22	Arabesque	ı	72	PowerHorns
23	50's SciFi	ŀ	73	TimeWarper
24	Follow Me	t	74	RockGuitar
25	Warm Organ	-	75	Key Click
26	SquareBass	1	76	JackSlide
27	AnalogPad	ŀ	77	Wide Bows
28	Residue	ı	78	Total Synth
29	[Manimals]	l	79	JewelryBox
30	BellShower	1	80	Dustette
31	Elec.Grand	ł	81	Wave Piano
32	TB&TP		82	Fanfare
33	RoboticRez		83	MachineAge
34	StereoClav		84	D6 Clav
35	Velo Organ		85	Fisa 8'
36	Stein Bass		86	Super Rez
37	OrchDivisi		87	HarpString
38	Fatfilterz		88	03R/WPulse
39	SFX1		89	Waterphone
40	Wire Pad		90	Spectrum
41	Whirly EP		.91	Dream EP
42	BrassSwell		92	StereoHorn
42	SynTronic		93	[Down Low]
			94	Sitars
44	Stratified		95	Super BX-3
45	Principal		96	Velo Pick
46	Super Bass		97	
47	Full Choir			FilmVoices
48	EOEknobSqr		98	Analogist
49	Orch Perc		99	OldKalimba

PC	Name	PC	Name
0	Introspect	50	Soft Pad
1	Concert	51	MIDI Grand
2	Air Shaku	52	Woodwinds
3	[Mr. Gong]	53	Industrial
4	NylonDream	54	R&R Guitar
5	Knife Edge	55	Drawbars
6	Stand Up	56	Bass Zap
7	DynoString	57	VoxStrings
8	Super->Stab	58	CompThing!
9	Modern Kit	59	CicadaBugs
10	GlideSynth	60	Wavetables
11	PianoHaven	61	M1 Piano
12	BrassFalls	62	SmokyTenor
13	Glass Hit	63	Space Pets
14	Guitar L+R	64	Rock On!!!
15	RotorNoise	65	Tube Organ
16	FingerBass	66	Fat Fretty
17	RealVoices	67	StringSect
18	EOEknobSaw	68	Busy Boy
19	Asian Jung	69	Zulu Kit
20	Motion	70	Polysix
21	Syn Piano	71	Velo Stage
22	Synth Fife	72	MutedBrass
23	Heartbeat	73	Multi Rez
24	Harmonics	74	MonsterWah
25	ComboOrgan	75	Gospel Org
26	AnaSQ-Bass	76	SynthBass3
27	AnaStrings	77	SilkString
28	Chester	78	Sawtooth
29	MalletLoop	79	Ice Bell
30	WaveSweep	80	Mind Scan
31	Piano & EP	81	Maxi Tines
32	Trumpets	82	Sfz Brass
33	Chrome Rez	83	UnderWater
34	MadlinTrem	84	Wah Clav
35	Classic"B"	85	Velo Perc
36	Rap Bass	86	Rez Bass
37	Underscore	87	Velo Orch
38	Composure	88	Reso Waves
39	SFX2	89	Wind Storm
40	Pulse Pad	90	Warm Glow
41	Stage Tine	91	Warm Tines
42	Brass Band	92	Horn Ens
43	Repeater	93	Power Play
44	Clean Funk	94	Tamboura
45	MediumPipe	95	Green Eyes
46	Thumb&Slap	96	Stick Bass
47	Vox Angels	97	WhisperVox
48	AnalogSync	98	AnalogHorn
49	Flutter	99	Lore
77	1	. L	1-7.7

GM-a/r:Bank/y:Bank

Bank Select r:Bank MSB=r:Bank No., LSB=0 Bank Select y:Bank MSB=0, LSB=y:Bank No.

PC	rBank	yBank	Instrument	PC	ل
Piano)			17	٦
ī	0		Piano 1		ļ
	8	1	Piano 1w		Į
	16	18	Piano 1d		ŀ
		. 40	Piano Str.		1
2	0	41	Dream Piano 2		1
-	8	1	Piano 2w	18	4
3	0	0	Piano 3	"	-
1	8	1	Piano 3w		1
,		32	DetElGrPno		1
	1	40	ElGrPiano1		1
	2	41	ElGrPiano2	19	٦
4	0	0	HonkeyTonk		į
	8	1	OldUpright	- 1	-
5	0	0	E.Piano 1		_
		1	E.Piano 1w	20	
	26	18	Mellow EP		
	8	32	Soft EP		
	25	40	Hard EP		
	16	45	FM+AI EP		
-	24	64 0	60's EP E.Piano 2	21	_
6	ļ	1	E.Piano 2w	41	
	8	32	Detune EP2	22	-
	24	33	Hard FM EP		
		34	FM Legend	23	_
		40	FM Phase		
		41	FM+Analog	24	
		42	FM Koto EP		
	16	45	FM EP	Gui	_
7	0	0	Harpsicord	25	
	16	1	Harpsi.w		
	24	25	Harpsi.o		
	8	35	CoupleHps.		
8	0	0	Clav. Clav. w		
		27	Clav. Wah	26	_
		64	Pulse Clav	-	
		65	PierceClav		
Chro	matic Pero				
9	0	0	Celesta		
10	0	0	Glocken	L	
11_	0	0	Music Box	27	_
		64	Orgel		
12	0	0	Vibraphone		
	8	1	Vibe.w		
	1		Hard Vibe	28	•
13	0	0	Marimba	1	
	8	1 64	Marimba w SineMarimb	29	,
	16	64 96		29	
	17	97	Balaphone2		
	24				
14	0	0	Xylophone	1	
15	0			1 1	
-	8	96		30)
	9		Carillon	} L	
16	0	0	Santur 1	31	
	1	35]	
	8]	
		97	Santur 3	.	
Orga				. I	
17	0			,	
	8				
	16			1 1	
	17			1 I	
	. 1	. <>	i carciani iili		
	32			1 1	

1	rBank	yBank	Instrument	PC	rBa
1	18	37	60's Org.3	32	
Ì	33	38	EvnenBar		
Į		40	Organ 6		
Ì	40	64	Organ Bass		
1	9	65	Organ 109	Bass 33	
1	24	66 67	Cheese Org Organ 7	33	
	0	0/	Organ 2		
	1	24	Organ 201	34	
	8	32	DetuneOrg2		
		33	Lite Organ		
	32	37	Organ 5		
	0	0	Organ 3		
	8	64 65	RotaryOrg RotaryOrg\$		
	16 24	66	RotaryOrgF		
	0	0	ChurchOrg1	35	
	16	32	ChurchOrg3		
	8	35	ChurchOrg2	36	
		40	NotreDam		
	24	64	OrganFlute		
	32	65	Trem.Flute		
	0	0	Reed Org.1		
		40	Puff Org.	37	
	8	32	AccordionF AccordionI	37	
-	0	0	Harmonica1		
	1	32	Harmonica2	38	_
	0	0	Bandneon1		
		64	Bandneon2	39	
ä	r				
	0	0			
	32	16	NylonGtr.2		
	16	25	NylonGtr.3	·	
	24 8	43 96	VelHarmnix Ukulele		
	40		LequintGtr		ļ
	0	0	SteelGtr.1		
	32	16			
	8	35	12-str.Gtr		
	9	40	Nylon+Stel	40	
		41	Steel&Body		
	16	96	Mandolin		
	0	0	Jazz Gtr. Mellow Gtr		
	1	18 32			
	8	96			
	Ö	0		i	_
	8		Chorus Gtr	1	
		64	CleanGtr.2]	
	0	0		<u> </u>	Ĺ
	8	40		Strin	gs
		41		41	<u> </u>
	16	43		42	-
	1	45 96		42	
-	0	96		44	+
		43		45	
	0			1	
		12] [
	1	. 24		46	
	2	35		47	_
	17	36			-
	16			48 Ense	mble
	18			49	777715
	9	1	FeedbackG2	"	
	25			1 1	
	24	45		1	
			<u> </u>		

PC 32	-Dani-		
32	rBank	yBank	Instrument
Ì	0	0	GtHarmonx1
	16	64	AcGtHarmnx
ſ	8	65	GtFeedback
ľ		66	GtHarmonx2
Bass			
33	0	0	AcousticBs
		40	JazzRhythm
1		45	Uprght Bs.
34	0	0	FingerdBs1
~ ·		18	FingerDark
ŀ		27	Flanger Bs
		40	Bs&DstEGtr
-		43	FingerSlap
- 1	1	45	FingerdBs2
	2		jazz Bass
ŀ	2	65	ModAlem
35	0	0	
33	8	28	MutePickBs
36	0	0	Fretless 1
30	1	32	Fretless 2
	2	33	Fretless 3
ļ	3	34	Fretless 4
ļ	4	96	SynFretles
	5	97	Mr.Smooth
37	0	0	SlapBass 1
	8	27	Reso Slap
		32	PunchThum
38	0	0	SlapBass 2
		43	Velo Slap
39	0	0	SynthBass1
1	1	18	SynthBs101
	9	20	FastResoBs
ĺ	8	24	Acid Bass
. [35	Clav Bass
	10	40	Tekno Bass
		64	Oscar
		65	SqrBass
	***	66	RubberBass
i	***	96	Hammer
			Class Dana Da
	16		SlowResoBs
40	0	0	SynthBass2
40	0	6	SynthBass2 MelloSynBs
40	0 3	6 12	SynthBass2 MelloSynBs Seq Bass
40	0	6 12 18	SynthBass2 MelloSynBs Seq Bass SynthBs201
40	0 3 1 17	6 12 18 19	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1
40	0 3 1	6 12 18	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass
40	0 3 1 17	6 12 18 19	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs
40	0 3 1 17 19	6 12 18 19 32	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass
40	0 3 1 17 19 2	6 12 18 19 32 40	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass
40	0 3 1 17 19 2 8	6 12 18 19 32 40 41	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass
40	0 3 1 17 19 2 8 9	6 12 18 19 32 40 41	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass
40 Strin	0 3 1 17 19 2 8 9 16	6 12 18 19 32 40 41	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2
	0 3 1 17 19 2 8 9 16	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2
Strin	0 3 1 17 19 2 8 9 16 18	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass RubberBass AnaSynBs.2 Violin SlowViolin
Strin	0 3 1 17 19 2 8 8 9 16 18	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola
Strin 41	0 3 3 1 1 17 17 19 2 8 8 9 16 18 18 9s 8	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello
Strin 41 42	0 3 3 1 1 17 17 19 2 2 8 8 9 16 18 18 gs 0 0 0 0 0 0 0	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass
Strin 41 42 43	0 3 1 17 17 2 2 8 9 16 18 18 9 0	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass
Strin 41 42 43 44	0 3 3 1 1 17 17 19 2 2 8 8 9 16 18 18 gs 0 0 0 0 0 0 0	6 12 18 19 32 40 41 64 0 0 0 0 0	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass
Strin 41 42 43 44	0 3 3 1 1 17 19 2 2 8 8 9 16 18 18 9 0 0 0 0 0 0 0 0	6 12 18 19 32 40 41 64 0 8 8 0 0 0 0	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr
Strin 41 42 43 44 45	0 3 3 1 1 17 19 2 2 8 8 8 9 166 18 18 9 0 0 0 0 0 0 8 8	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr
Strin 41 42 43 44	0 3 3 1 1 17 19 2 2 8 8 8 9 166 188 9 0 0 0 0 0 0 8 8 9 9	6 12 18 19 32 40 41 16 4 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr
Strin 41 42 43 44 45 46	0 3 3 1 1 17 17 19 2 8 8 9 16 18 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp
Strin 41 42 43 44 45 46 47	0 3 3 1 1 17 17 19 9 2 2 8 8 9 9 166 18 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 18 19 32 400 41 64 	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp YangChin
Strin 41 42 43 44 45 46 47 48	0 3 3 1 1 17 17 19 2 2 8 8 9 16 16 18 95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 18 19 32 40 41 64 	SynthBass2 MelloSynBs Seq Bass Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp
Strin 41 42 43 44 45 46 47 48 Ense	0 3 3 1 1 17 17 19 2 2 8 8 9 16 18 18 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 18 19 32 41 64 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp YangChin Timpani
Strin 41 42 43 44 45 46 47 48	0	6 12 18 19 32 40 0 0 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp YangChin Timpani
Strin 41 42 43 44 45 46 47 48 Ense	0 3 3 1 1 17 17 19 2 2 8 8 9 16 18 18 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 18 19 32 40 0 0 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SynthBass2 MelloSynBs Seq Bass SynthBs201 AnaSynBs.1 SmoothBass Modular Bs BeefFMBass X WireBass RubberBass AnaSynBs.2 Violin SlowViolin Viola Cello Contrabass TremoloStr SlowTrmStr SuspensStr Pizzicato Harp YangChin Timpani Strings 1 St. Strings

GM-a/r:Bank/y:Bank

Bank Select r:Bank MSB=r:Bank No., LSB=0 Bank Select y:Bank MSB=0, LSB=y:Bank No.

PÇ	rBank	yBank	Instrument
49		35	
.,	8	40	Orchestra1
	9	41	Orchestra2
	10	42	TremOrch
	24	45	VeloString
	11		Choir Str.
50	0	0	
	10	3	St.SlowStr
	8	8	
	9	40	
		41	Kingdom
	1	64	Slow Str.2
		65	Slow Str.3
51	0	0	SynthStr.1
.		27	Reso Str.
-	- 8	35	SynthStr.3
Į	1	64	OB Strings
52	0	65 0	SS Str. SynthStr.2
53	0	0	ChoirAahs1
~ }	8	3	St.Choir
}	32	16	ChoirAahs2
ł	9	32	MelloChoir
ŀ		40	Choir Str.
ŀ		64	StringAahs
ŀ		65	Male Aahs
54	0	0	Voice Oohs
Ì		64	Voice Doo
		96	Voice Hmn
55	0	0	SynVox
[8	40	Syn.Voice
		41	Choral
		64	AnaVoice
56	0	0	Orch.Hit 1
Ĺ		35	Orch.Hit 2
L	8	64	Impact Hit
Ļ	9	65	Philly Hit
-	10	66	Double Hit
-	1.0	67	BrassStab
Brass	16		Lo Fi Rave
57	0	0	Trumpet 1
" F	1	16	Trumpet 2
ŀ			
	24 1		
H	24	17	Bright Tp.
}	24 25 8		Bright Tp. Warm Tp.
58	25	17 32 96	Bright Tp. Warm Tp. FlugelHorn Trombone 1
58	25 8	17 32 96	Bright Tp. Warm Tp. FlugelHorn Trombone 1
58 59	25 8 0	17 32 96 0 18	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1
	25 8 0	17 32 96 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2
	25 8 0 1	17 32 96 0 18	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tromb 2 Muted Tp.1
59 60	25 8 0 1 0	17 32 96 0 18 0 16 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2
59	25 8 0 1 0 1 0	17 32 96 0 18 0 16 0 64	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1
59 60	25 8 0 1 0 1 0 0 8	17 32 96 0 18 0 16 0 64	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo
59 60	25 8 0 1 0 1 0 0 8	17 32 96 0 18 0 16 0 64 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2
59 60 61	25 8 0 1 0 1 0 0 8 1 1 6	17 32 96 0 18 0 16 0 64 0 64 32	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Horn 2 Horn Orch
59 60	25 8 0 1 0 1 0 0 8	17 32 96 0 18 0 16 0 64 0 6 32 37	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1
59 60 61	25 8 0 1 0 1 0 0 0 8 1 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 32 96 0 18 0 16 0 64 0 6 32 37 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs
59 60 61	25 8 0 1 0 1 0 0 0 0 0 8 1 1 0 0 0 0 0 0 0	17 32 96 0 18 18 0 0 0 64 0 64 0 6 32 37 0 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec.
59 60 61	25 8 0 1 0 1 0 0 0 8 1 1 1 6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 32 96 0 18 0 0 16 0 6 4 0 6 32 37 0 0 14 35 39	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall
59 60 61	25 8 0 1 0 1 0 0 0 8 1 1 16 0 0 16 8	17 32 96 0 18 0 16 0 64 0 6 32 37 0 14 35 39 40	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2
59 60 61	25 8 0 1 0 1 0 0 0 8 1 1 1 6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 32 96 0 18 0 0 64 0 64 0 6 32 37 0 14 35 39 40	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass
60 61	25 8 0 1 0 1 0 0 1 0 0 8 1 1 1 6 0 0 	17 32 96 0 18 0 16 0 64 0 6 32 37 0 14 35 39 40 41	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs
59 60 61	25 8 0 1 0 1 0 0 0 8 1 1 1 6 0 0 	17 32 96 0 18 0 0 64 0 6 32 37 0 14 35 39 40 41 42	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs Syn.Brass1
60 61	25 8 0 1 0 1 0 0 3 8 1 1 1 6 0 0 1 6 8 8 9 1 1 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 32 96 0 18 8 0 16 0 64 0 6 32 37 0 14 35 39 40 41 42 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHomSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs Syn.Brass1 QuackBrass
60 61	25 8 0 1 0 1 0 0 8 1 1 1 6 0 0 1 6 8 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 32 96 0 18 8 0 0 16 0 0 6 32 37 0 14 35 39 40 41 42 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs Syn.Brass1 QuackBrass RezoSynBrs
60 61	25 8 0 1 0 1 0 0 0 0 8 1 1 16 8 8 16 8 9	17 32 96 0 18 0 0 16 0 6 32 37 0 0 14 35 39 40 41 42 0 0	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Horn 1 FrHornSolo Fr.Horn 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs Syn.Brass1 QuackBrass RezoSynBrs Poly Brass
60 61	25 8 0 1 0 1 0 0 8 1 1 1 6 0 0 1 6 8 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 32 96 0 18 0 16 6 32 37 0 0 40 41 42 0 12 20 24	Bright Tp. Warm Tp. FlugelHorn Trombone 1 Trombone 2 Tuba 1 Tuba 2 Muted Tp.1 Muted Tp.2 Fr.Hom 1 FrHornSolo Fr.Hom 2 Horn Orch Brass 1 SfrzndBrs Tp&Tb Sec. Brass Fall Brass 2 HiBrass Mellow Brs Syn.Brass1 QuackBrass RezoSynBrs

PC	rBank	yBank	Instrument
63		64	Analog Brs
	16		Octave Brs
64	0	0	Syn.Brass2
	1	18	Soft Brass
	8	40	Syn.Brass4
ļ		41	ChoirBrass
	17	45	VeloBrass2
	16	64	VeloBrass1
Reed			
65	0	0	SopranoSax
66		0	Alot Sax
Ì		40	Sax Sect.
67	8	43	Hyper Alto
۰٬	8	0 40	TenorSax 1
ŀ		40	BrethTenor Soft Tenor
- 1		64	TenorSax 2
68	0	0	
69	0	0	Oboe
70	0	0	EnglishHrn
71	ŏ	0	Bassoon
72	- 0	0	Clarinet
- T. H	8	96	BsClarinet
Pipe			
73	0	0	Piccolo
74	ő		Flute
75	0	0	Recorder
76	0	ō	PanFlute 1
f		64	PanFlute 2
f	8	96	Kawala
77	0	0	BottleBlow
78	0	0	Shakuhachi
79	0	0	Whistle
80	0	0	Ocarina
Synth	Lead	·····	
81	0	0	SquareWave
	1	6	Square
	6	8	LM Square
L	2	18	HollowMini
L	5	19	Shmoog
	3	64	Mellow FM
L	4	65	Soft Solo
	8	66	Sine Wave
82	0	0	Saw Wave
L	1	61	Saw
L	3		
		8	Thick Saw
-	7	18	Thick Saw LA Saw
	7	18 19	Thick Saw LA Saw Digi.Saw
	7	18 19 20	Thick Saw LA Saw Digi.Saw Big Lead
-	7 4 6	18 19 20 24	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth
	7 4 6 16	18 19 20 24 25	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth
	7 4 6 16 2	18 19 20 24 25 40	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw
-	7 4 6 16 2 8	18 19 20 24 25 40 41	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo
	7 4 6 16 2 8	18 19 20 24 25 40 41 45	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead
2	7 4 6 16 2 8 5	18 19 20 24 25 40 41 45 96	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog
83	7 4 6 16 2 8 5	18 19 20 24 25 40 41 45 96	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope
83	7 4 6 16 2 8 5 0	18 19 20 24 25 40 41 45 96 0	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth
	7 4 6 16 2 8 5 0 1	18 19 20 24 25 40 41 45 96 0 64 65	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd.
	7 4 6 16 2 8 5 0	18 19 20 24 25 40 41 45 96 0 64 65	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld
84	7 4 6 6 16 2 8 5 5 0 1 1 2 0 0	18 19 20 24 25 40 41 45 96 0 64 65 0	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby
84	7 4 6 16 2 8 5 0 1 1 2 0 0 0 0	18 19 20 24 25 40 41 45 96 0 0 64 65 0	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang
84	7 4 6 16 2 2 8 5 0 1 1 2 1 0 0 8	18 19 20 24 25 40 41 45 96 0 64 65 0 0 64	Thick Saw LA Saw Digi. Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead
84	7 4 6 16 2 8 5 0 0 1 1 2 0 0 8 0 0 8 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead
83 84 85	7 4 6 16 2 2 8 5 0 1 1 2 0 0 0 8 0 0	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65 0	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead Solo Vox
84	7 4 6 16 2 8 5 0 0 1 1 2 0 0 8 0 0 8 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65 0 64 65 0	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead Solo Vox Synth.Aahs
84 85 86	7 4 6 16 2 8 8 5 0 1 1 2 1 0 0 0 8 8 8 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65 0 64 65 0 24 64	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead Solo Vox Synth.Aahs Vox Lead
84 85 86	7 4 6 16 2 8 8 5 5 0 1 1 2 2 0 0 0 0 8 8 0 0 0 0 0 0 0 0 0 0	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65 0 64 65 0 24 64	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead Solo Vox Synth.Aahs Vox Lead 5th Saw
84	7 4 6 16 2 8 8 5 0 1 1 2 1 0 0 0 8 8 8 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1	18 19 20 24 25 40 41 45 96 0 64 65 0 64 65 0 24 64 0 35	Thick Saw LA Saw Digi.Saw Big Lead HeavySynth WaspySynth Pulse Saw DoctorSolo Velo Lead Seq.Analog SynCaliope Vent Synth PurePanLd. Chiffer Ld Rubby Charang Dist.Lead Wire Lead Solo Vox Synth.Aahs Vox Lead

	rBank	yBank	Instrument
88	2	64	1
Synth	Pad	65	SoftWurl
89	0	0	Fantasia 1
	1	64	Fantasia 2
90	0	0	Warm Pad
	1	16	1
	4	17	Soft Pad
	2	18 64	Sine Pad Horn Pad
	3	65	Rotary Str
91	0	0	PolySynth
	1	64	80sPolySyn
	***	65	Click Pad
		66	Analog Pad
92	0	67	Square Pad SpaceVoice
	1	64	Heaven
		65	Lite Pad
		66	Itopia
		67	Cycle Pad
93	0	0	Bowed Glass
}		64	Glacier Glass Pad
94	0	0	Metal Pad
- 1	1	64	Tine Pad
	2	65	Panner Pad
95	0	0	Halo Pad
96	9	20	Sweep Pad
ł	8	27	Shwimmer Converge
ŀ	1	64	Polar Pad
Ī		65	Sweepy
	10	66	Celestial
Synth 97	Effects 0		las Dais
"	8	45	Ice Rain Clavi Pad
ŀ	1	64	Harmo Rain
	2	65	AfricaWood
		66	Caribean
98	 0	66 0	Caribean Soundtrack
98	0 2	66 0 27	Caribean Soundtrack Prologue
98	 0	66 0	Caribean Soundtrack Prologue Ancestral
98	0 2 1	66 0 27 64	Caribean Soundtrack Prologue
	0 2 1 8	66 0 27 64 65 0	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp
	0 2 1 8	66 0 27 64 65 0 12	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn
	0 2 1 8 0	66 0 27 64 65 0 12 14	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell
	0 2 1 8	66 0 27 64 65 0 12 14 18 35	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock
	0 2 1 8 0 	66 0 27 64 65 0 12 14 18 35 40	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell
	3 5 6	66 0 27 64 65 0 12 14 18 35 40 41	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell
	0 2 1 8 0 3 3 5 6 16	66 0 27 64 65 0 12 14 18 35 40 41 42 64	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet
	0 2 1 8 0 3 3 5 6 16 1	66 0 27 64 65 0 12 14 18 35 40 41 42 64	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal
	3 5 6 1 1 2 4	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock
	0 2 1 8 0 3 3 5 6 16 1	66 0 27 64 65 0 0 12 14 18 35 40 41 42 64 65 66 66 67	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell
	3 5 6 1 1 2 4	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 65 66 67	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock
	3 5 6 16 1 2 2 3 3 5 6 7 7 8 9	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 67	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells
	3 5 6 16 1 2 4 7 7 18	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 68 69 70	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp
99	3 5 6 16 1 2 4 7 8 8 9 17	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 70 71	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba
	3 5 6 1 1 2 4 7 8 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66 0 27 64 65 0 0 12 14 18 35 40 41 42 64 65 66 67 68 69 70 71 72	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere
99	3 5 6 16 1 2 4 7 8 8 9 17	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 68 69 70 71 71 72 0	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere
99	3 5 6 1 1 2 4 7 8 9 17 18 18 9 17	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 68 69 70 71 71 72 0	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere
99	3 5 6 16 1 7 8 9 17 18 19 0 1 1 4 4 7 1 8 9 1 1 1 1 4 5 5	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 70 71 72 0 0 18 18 18 18 18 18 18 18 18 18 18 18 18	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere Warm Atmos HollowRels
99	3 5 6 16 17 8 9 17 18 19 0 17 18 19 0 14 5 2	66 0 27 64 65 0 12 14 18 35 40 41 42 64 65 66 67 68 69 70 71 72 0 18 19 19 19 19 19 19 19 19 19 19	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere Warm Atmos HollowRels Nylon+EP Nylon Harp Harpvox
99	3 5 6 16 1 7 8 9 17 18 19 0 1 1 4 4 7 1 8 9 1 1 1 1 4 5 5	66 0 27 64 65 0 0 12 14 18 35 40 41 42 64 65 66 67 70 71 72 0 18 18 18 66 66 66 66 66 66 66 66 66 66 66 66 66	Caribean Soundtrack Prologue Ancestral Rave Crystal SynDrComp Popcorn Tiny Bell RoundGlock GlockChime ClearBells ChoralBell Syn.Mallet SftCrystal Loud Glock Xmas Bell VibraBells Digi Bells Air Bells Bell Harp Gamelimba Atmosphere Warm Atmos HollowRels Nylon+EP Nylon Harp

GM-a/r:Bank/y:Bank

Bank Select r:Bank MSB=r:Bank No., LSB=0 ect y:Bank MSB=0, LSB=y:Bank No.

							k No., LSB=0 B=y:Bank No.
PC	rBank	yBank	Instrument	PC	rBank	yBank	Instrument
101		64	Fanta Bell	118	9	66 0	Rock Tom Synth Drum
102	0	96 0	Smokey Goblin	119	8	64	Analog Tom
102	1	64	Goblinson		9		Elec Perc
	2	65	50s Sci-Fi	120	0		RevCymbal1
		66	Ring Pad		1	64	RevCymbal2
		67	Ritual		8	96	Rev.Snare1
ĺ		68	ToHeaven		9	97	Rev.Snare2
		69	Milky Way		16	98	Rev.Kick 1 Rev.ConBD
		70	Night		17 24	99 100	Rev.Tom 1
		71 72	Glisten Puffy		25	101	Rev.Tom 2
		96	Bell Choir	Sounc	Effects	.0.	Kev.Tom 2
103	0	0	Echo Drops	121	0	0	FretNoise
	3	8	Echo Pan 2		1		CutNoise 1
	2	14	Echo Pan 1		2	• • •	StringSlap
	1	64	Echo Bell		3		000.10.00
	4	65	Big Panner		4		DstCutNoiz
	6	66	WaterPiano		5		Bass Slide
		67 68	Creation	122	6	0	PickScrape BreathNoiz
	5	69	Stardust ResoPanner	'	1		FlKeyClick
104	6	0	StarTheme1	123	0	0	Seashore
107	1	64	StarTheme2	''	1		Rain
		65	Odyssey	1	2		Thunder
Ethni	c				3		Wind
105	0	0	Sitar 1] [4		Stream
	2	32	Det.Sitar		5		Bubble
	1		Sitar 2	124	0	0	
	8 16	96	Tambra Tamboura		2		Dog Gallop
106	0	0			3		Bird 2
100		28	MutedBonjo	1 1 1	4		Kitty
	8	96	Rabab	1	5		Growl
	16	97	Gopichant	125	0	0	
	24	98	Oud]	1		Telephone2
107	0	0	Shamisen] !	2		Door-Creak
	1		Tsugaru		3		Door-Slam
108	0	96	Koto	1 1	5		Scratch 1 WindChimes
	16	97		1 1	7		Scratch 2
109	0		Kalimba	126	Ó	0	
, 0,			BigKalimba	1	1		Car-Engine
110	0		Bagpipe]	2		Car-Stop
111	0	~0	Fiddle] '	3		Car-Pass
112	0	0]]	4		Car-Crash
	1		Shanai 2	-	5		Siren
	8	96		-	6 7		
Percu] 16	97	Hichiriki	1	8		Starship
113	0	0	TinkleBell	1	9		
	8		Bonang	127	0	0	
	9	97		1	1		Laughing
	10	98	GamelaGong]	2		
	11	99]]	3	` 	Punch
	16		RamaCymbal		4		
112		101		∮	5		Footsteps Applause 2
114	8	96		128	0		
115	0		SteelDrums	┥ ╽ ゚゚゚゚	1		· · · · · · · · · · · · · · · · · · ·
, , ,	<u></u>	96		1	2		1
		97		1	3		Explosion
		98	Thai Bell]			
116	0	0]			
	8	96		1			
117	0	0		4			
110	8	96	Concert BD Melo.Tom 1	4			
118	0	64		4			
			Real Tom	4			

65 Real Tom

ySFX Bank

Bank Select MSB=64, LSB=0

PC	Instrument
1	CutNoise 1
2	CutNoise 2
3	DstCutNoiz
4	StringSlap
5	Bass Slide
6	PickScrape
17	FlKeyClick
33	Rain
34	Thunder
35	Wind
36	Stream
37	Bubble
38	Feed
49	Dog
50	Gallop
51	Bird 2
52	Kitty
53	Growl
54	Haunted
55	Ghost
56	Maou
65	Telephone1
66	Door-Creak
67	Door-Slam
68	Scratch 1
69	Scratch 2
70	WindChimes
71	Telephone2
81	Car-Engine
82	Car-Stop
83	Car-Pass
84	Car-Crash
85	Siren
86	Train
87	Jetplane
88	Starship
89	BurstNoise
90	Coaster
90	Submarine
97	
	Laughing
98	Screaming
99	Punch
100	Heart Beat
101	FootSteps
102	Applause 2
113	MachineGun
114	Lasergun
115	Explosion
116	Firework

1	CutNoise 1
2	CutNoise 2
3	DstCutNoiz
4	StringSlap
5	Bass Slide
6	PickScrape
17	FlKeyClick
33	Rain
34	Thunder
35	Wind
36	Stream
37	Bubble
38	Feed
49	Dog
50	Gallop
51	Bird 2
52	Kitty
53	Growl
54	Haunted
55	Ghost
56	Maou
65	Telephone1
66	Door-Creak
67	Door-Slam
68	Scratch 1
69	Scratch 2
70	WindChimes
71	Telephone2
81	Car-Engîne
82	Car-Stop
83	Car-Pass
84	Car-Crash
85	Siren
86	Train
87	Jetplane
88	Starship
89	BurstNoise
90	Coaster
91	Submarine
97	Laughing
98	Screaming
99	Punch
100	Heart Beat
101	FootSteps
102	Applause 2
113	MachineGun
114	
	Lasergun
117	Explosion
115 116	Firework

r:CM Bank Bank Select MSB=127, LSB=0

GM-b Bank Se

	Name	PC	Name
P	iano 1	65	AcouBass 1
1.	AcouPiano1	66	AcouBass 2
1	AcouPiano2	67	ElecBass 1
	DigiPiano	68	ElecBass 2
	Elec.Piano	69	SlapBass 3
	FunkyRoads	70	SlapBass 4
	Whiry HonkyTonk	71	Fretless 1 Fretless 1
	Elec Org 1	$-\frac{72}{73}$	Flute 1
	Elec Org 2	$\frac{1}{74}$	Flute 2
	Elec Org 3	75	Piccolo 1
	Elec Org 4	76	Piccolo 2
1	Pipe Org 1	77	Recorder
Ι	Pipe Org 2	78	PanFlute 1
	Pipe Org 3	79	Tenor Sax
	AccordionF	80	Bari.Sax
	Harpsi 1	81	Bari.Sax
	Harpsi 2 Harpsi 3	82	SopranoSax Clarinet 1
	Harpsi 3 Clav.1	83	Clarinet 2
	Clav.1	85	Oboe Clarinet 2
t	Clav.3	86	EnglishHrn
1	Celesta	87	Bassoon
Ì	Celesta 2	88	Harmonica
Ì	Syn.Brass5	89	Trumpet 3
I	Syn.Brass6	90	Trumpet 4
-	Syn.Brass7	91	Trombone 3
-	Syn.Brass8	92	Trombone 4
•	SynthBass4	93	Fr.Horn 3
-	SynthBass5	94	Fr.Horn 4 Tuba 1
٠.	SynthBass6 SynthBass7	95	Brs Sect 1
+	Fantasy	97	Brs Sect 2
	farmo Pan	98	Vibe 1
٠.	Chorale	99	Vibe 2
t	Glasses	100	SynMallet2
	Soundtrack	101	Wind Bell
	Atmosphere	102	Glocken
	Warm Bell	103	Tubular
-	Funny Vox	104	Xylophone
+	Echo Bell Ice Rain	105	Marimba Koto
+	Syn.Oboe	100	Sho
+	Echo Pan	108	
	DoctorSolo	109	Whistle
t	SchoolDaze	110	
1	Bellsinger	111	BottleBlow
]	SquareWave	112	Arabesque
	Str Sect 1	113	Timpani
1	Str Sect 2	114	Melo.Tom 1
	Str Sect 3	115 116	Deep Snare
1	Pizzicato Violin 1	116	GiantDrums Synth Drum
1	Violin 2	118	Taiko
	Cello 1	119	Taiko Rim
1_	Cello 2	120	Cymbal
t	ContraBs.2	121	Castanets
Ì	Harp 2	122	Triangle
t	Harp	123	Orch.Hit 1
_	Guitar 1	124	Telephone1
	Guitar 2	125	Brid Tweet
	lyln+Steel	126	MalletLoop
Ele	ec Gtr	127 128	FlyingToys Festival!

C	Name	PC	Name
	Piano	65	Soprano Sax
2	BritePiano	66	Alto Sax
	HammerPno	67	Tenor Sax
1	HonkeyTonk	68	Bari Sax
5	NewTines	69	Sweet Oboe
6	Digi Piano	70	EnglishHrn
7	Harpsicord	71	BasoonOboe
3	Clav	72	Clarinet
)	Celesta	73	Piccolo
0	Glocken	74	Flute
1	Music Box	75	Recorder
2	Vibes	76	Pan Flute
3	Marimba	77	Bottle
4	Xylophon	78	Shakuhachi
,	Tubular	79	Whistle
5	Santur	80 s	Ocarina
7	Full Organ	81	SquareWave
3	Perc Organ	82	Saw Wave
)	BX-3 Organ	83	SynCaliope
)	ChurchPipe	84	Syn Chiff
1	Positive	85	Charang
2	Musette '	86	AirChorus
3	Harmonica	87	Rezzo4ths
4	Tango	88	Bass&Lead
;	ClassicGtr	89	Fantasia
;	A.Guitar	90	Warm Pad
7	lazzGuitar	91	Poly Pad
-	CleanGtr	92	Ghost Pad
,	MuteGuitar	93	BowedGlass
)	Over Drive	94	Metal Pad
_	DistGuitar	95	Halo Pad
:	RockMonics	96	Sweep
	lazz Bass	97	Ice Rain
<u> </u>	Deep Bass	98	SoundTrack
,	Pick Bass	99	Crystal
;	Fretless	100	Atmosphere
-	SlapBass1	101	Brightness
}	SlapBass2	102	Goblin
_	SynthBass1	103	Echo Drop
_	SynthBass2	104	Star Theme
	Violin	105	Sitar
2	Viola	106	Banjo
-	Cello	107	Shamisen
<u>, </u>	ContraBass	108	Koto
<u>.</u>	TremoloStr	109	Kalimba
<u></u>	Pizzicato	110	Scotland
7	Harp	111	Fiddle
<u>.</u>	Timpani	112	Shanai
9	Marcato	113	Metal Bell
<u>_</u>	SlowString	114	Agogo
, 	Analog Pad	115	SteelDrums
2	String Pad	116	Woodblock
<u>~</u> 3	Choir	117	Taiko
1	Doo Voice	118	Tom
;	Voices	119	Synth Tom
	Orch Hit	120	RevCymbal
5			Fret Noise
7_	Trumpet	121	
3	Trombone	122	NoiseChiff
9	Tuba	123	Seashore
0	Muted Trpt	124	Birds
1	FrenchHorn	125	Telephone
2	Brass	126	Helicopter
}	SynBrass1	127	Stadium!!
	SynBrass2	128	GunShot \

C	- داری	1, 2			9 1 ROOM			17 2 POWER			25 3 ELECTRONI	c
ımkit '		> 0 STANDARD		1		Excl	No.	Sample Name	Excl	No.	Sample Name	Ex
	No.	Sample Name	Excl	No.	Sample Name	OFF	140.	Sample Name	OFF	- ''-	Sample Wante	OFF
C1	29	RollSnare1	OFF	29	RollSnare1	OFF	29	RollSnare1	OFF	29	RollSnare1	OFF
C#1 D1	121	FingerSnap	OFF	121	FingerSnap	OFF	121	FingerSnap	OFF	121	FingerSnap	OFF
D#1	152	Zap 1	OFF	152	Zap 1	OFF	152	Zap 1	OFF	152	Zap 1	OFF
E1	278	Gun Shot 1	OFF	278	Gun Shot 1	OFF	278	Gun Shot 1 Scratch Hi	OFF 7	278 155	Gun Shot 1 Scratch Lo	7
F1	154	Scratch Hi	7	154 155	Scratch Hi Scratch Lo	7	154 155	Scratch Lo	7	154	Scratch Hi	7
F#1	155 290	Scratch Lo StickHit 2	OFF	290	StickHit 2	OFF	290	StickHit 2	OFF	290	StickHit 2	OFF
G1 G#1	122	Snap	OFF	122	Snap	OFF	122	Snap	OFF	122	Snap	OFF
A1	284	Metronome1	OFF	284	Metronome1	OFF	284	Metronome1	OFF	284	Metronome	OFF
A#1	215	Tubular 3	OFF	215	Tubular 3	OFF	215	Tubular 3	OFF	215 10	Tubular 3 Dance Kick	OFF
B1	286	Thick Kick	OFF	2	Ambi,Kick	OFF	9	Metal Kick Gated Kick	OFF	14	Syn Kick 4	OFF
C2	287	Tight Kick SideStick2	OFF	291	Ambi.Kick SideStick2	OFF	291	SideStick2	OFF	291	SideStick2	OFF
C#2 D2	291 288	BigRock SD	OFF	27	GatedSnare	OFF	27	GatedSnare	OFF	68	OilDrum	Off
D#2		Hand Claps	OFF	130	Hand Claps	OFF	130	Hand Claps	OFF	130	Hand Claps	OFF
E2	289	FullRoomSD	OFF	25	Ambi.Snare	OFF	26	Rock Snare	OFF	27 69	GatedSnare Syn Tom 1	OFF
F2	65	Tom 2 Lo	OFF	65	Tom 2 Lo	OFF	293	ProcessTom Close HH 2	1	293	Close HH 2	17
F#2		Close HH 2	OFF	293 65	Close HH 2 Tom 2 Lo	OFF	67	ProcessTom	OFF	69	Syn Torn 1	OFF
G2	65 294	Tom 2 Lo Pedal HH 2	OFF	294	Pedal HH 2	1	294	Pedal HH 2	1	294	Pedal HH 2	1
—G#2 A2	65	Tom 2 Lo	OFF	65	Tom 2 Lo	OFF	67	ProcessTom	OFF	69	Syn Tom 1	OFF
A2 A#2		Open HH 2	1	295	Open HH 2	1	295	Open HH 2	1	295	Open HH 2	0FF
B2	63	Tom 2 Hi	OFF	63	Tom 2 Hi	OFF	67	ProcessTom	OFF	69 69	Syn Tom 1	OFF
C3	63	Tom 2 Hi	OFF	63	Tom 2 Hi	OFF	67 292	ProcessTom CrashCym 2	OFF	292	CrashCym 2	OFF
C#3		CrashCym 2	OFF	292 63	CrashCym 2 Tom 2 Hi	OFF	67	ProcessTom	OFF	69	Syn Tom 1	OFF
D3	63	Tom 2 Hi Ride Cym 2	OFF	60	Ride Cym 2	OFF	60	Ride Cym 2	OFF	60	Ride Cym 2	OFF
D#8 E3	45	China Cym	OFF	45	China Cym	OFF	45	China Cym	OFF	180	Rev.Cymbal	OF
F3	58	Ride Cup	OFF	58	Ride Cup	OFF	58	Ride Cup	OFF	58 300	Ride Cup	OF
F#8		Tambourin2	OFF	300	Tambourin2	OFF	300 47	Tambourin2	OFF	300 47	Tambourin2 Splash Cym	OFF
G3	47	Splash Cym	OFF	108	Splash Cym Cowbell	OFF	108	Splash Cym Cowbell	OFF	108	Cowbell	OF
-G	108 292	Cowbell CrashCym 2	OFF	292	CrashCym 2	OFF	292	CrashCym 2	OFF	292	CrashCym 2	OF
A3 		Viblaslap	OFF	123	Viblaslap	OFF	123	Viblasiap	OFF	123	Viblaslap	OF
B3	60	Ride Cym 2	OFF	60	Ride Cym 2	OFF	60	Ride Cym 2	OFF	60	Ride Cym 2	OF
C4	79	Hi Bongo	OFF	79	Hi Bongo	OFF	79	Hi Bongo	OFF	79 78	Hi Bongo Lo Bongo	OF
C#4		Lo Bongo	OFF	78	Lo Bongo	OFF	78 298	Lo 8ongo MtSlpConga	OFF	298	MtSlpConga	OF
D4	298	MtSlpConga	OFF	298 296	MtSlpConga OpenCongaH	OFF	296	OpenCongaH	OFF	296	OpenCongaH	OF
E4	296 297	OpenCongaH OpenCongaL	OFF	297	OpenCongaL	OFF	297	OpenCongaL	OFF	297	OpenCongal	OF
F4	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OF
F#4		Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OF
G4	302	Agogo 2	OFF	302	Agogo 2	OFF	302	Agogo 2 Agogo 2	OFF	302 302	Agogo 2 Agogo 2	OF
-G#		Agogo 2	OFF	302 97	Agogo 2 Cabasa	OFF	302 97	Cabasa	OFF	97	Cabasa	OF
A4	97 4 299	Cabasa Maracas 2	OFF	299	Maraças 2	OFF	299	Maracas 2	OFF	299	Maracas 2	OF
A#	128	Whistle S	2	128	Whistle \$	2	128	Whistle S	2	128	Whistle S	2
B4 C5	129	Whistle L	2	129	Whistle L	2	129	Whistle L	2	129	Whistle L	3
C#		Guiro S	3	124	Guiro S	3	124	Guiro \$	3	124 125	Guiro S Guiro L	3
D5	125	Guiro L	3	125	Guiro L	3 OFF	125	Guiro L Claves	OFF	117	Claves	OF
D#		Claves	OFF	117	Claves WoodBlockL	OFF OFF	116	WoodBlockL	OFF	116	WoodBlockL	OF
E5	116 116		OFF	116	WoodBlockl,	OFF	116	WoodBlockL	OFF	116	WoodBlockL	OF
F5			4	94	Mute Cuica	4	94	Mute Cuica	4	94		4
G5	95	Open Cuica	4	95	Open Cuica	4	95	Open Cuica	4	95	Open Cuica	5
G#			5	104	MuteTriang	5	104	MuteTriang	5	104 105	MuteTriang OpenTriang	5
A5	105		5	105 97	OpenTriang Cabasa	5 OFF	105 97	OpenTriang Cabasa	OFF	97	Cabasa	O
Α#	5 97 301	Cabasa SleighBell	OFF	301	SleighBell	OFF	301	SleighBell	OFF	301	SleighBell	OI
B5 C6	102		OFF	102	MarcTree 1	OFF	102	MarcTree 1	OFF	102		01
L°C.			OFF	303	Castanet S	OFF	303	Castanet S	OFF	303		0
D6	77	Taiko Lo	6	77	Taiko Lo	6	77	Taiko Lo	6	77		6
	6 77		6	77	Taiko Lo	6	77	Taiko Lo	OFF	-1-''		0
E6			OFF	+		OFF	+		OFF			O
F6			OFF	+		OFF	+		OFF			0
G 6	,0		OFF	1		OFF			OFF	二		0
G	#6		OFF			OFF			OFF			0
A6			OFF		<u> </u>	OFF	+-		OFF		*****	0
A	#6		OFF	1-		OFF	+		OFF			ŏ
B6	4—		OFF			OFF	+		OFF			Ö
C7	#7		OFF	+		OFF			OFF		200-2	0
D7			OFF	1		OFF			OFF	\Box	*****	<u> </u>
0	#7	4844-	OFF		******	OFF			OFF			0
E 7			OFF			OFF			OFF	+-		- 6
F7			OFF	4-		OFF			OFF	+	******	Ö
	#7		OFF		******	OFF	┪		OFF			0
G7	#7		OFF	1		OFF		244274	OFF			0
A7			OFF	1		OFF			OFF			10
	#7		OFF			ÖFF			OFF		*****	0
B7			OFF		*****	OFF OFF			OFF			- 0

kit	Select	26 > 4 ANALOG			27 5 DANCE			33 6 JAZZ			41 7 BRUSH													
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Exc												
	20	Dell's and	OFF	29	RollSnare1	OFF	29	RollSnare1	OFF OFF	29	RollSnare1	OFF												
C#1	29 121	RollSnare1 FingerSnap	OFF	121	FingerSnap	OFF	121	FingerSnap	OFF	121	FingerSnap	OFF												
)#1	152	Zap 1	OFF	***	278	Gun Shot 1	OFF	ᅱ	155	Scratch Lo	7	155	Scratch Lo	7	154	Scratch Hi	7	154	Scratch Hi	7				
25	154	Scratch Hi	7	154	Scratch Hi	7	155	Scratch Lo	7	155	Scratch Lo	7												
	290	StickHit 2	OFF	G#1	122	Snap	OFF		284	Metronome1	OFF	A#1	215	Tubular 3	OFF	215	Tubular 3	OFF	215	Tubular 3	OFF	215	Tubular 3	OFF
	13	Syn Kick 3	OFF	11	Syn Kick 1	OFF	. 5	Dry Kick	OFF	. 5	Dry Kick	OFF												
_	13	Syn Kick 3	OFF	10	Dance Kick	OFF	4 291	Punch Kick	OFF	291	Punch Kick SideStick2	OFF												
C#2	42 31	Syn Rim SynSnare 1	OFF OFF	291 27	SideStick2 GatedSnare	OFF	23	SideStick2 Dry Snare	OFF	37	Brush Tap	OFF												
)#2	130	Hand Claps	OFF	130	Hand Claps	OFF	130	Hand Claps	OFF	36	Brush Slap	OFF												
424	32	SynSnare 2	OFF	25	Ambi.Snare	ÖFF	22	LightSnare	OFF	38	BrushSwish	OFF												
┈┤	71	SynTom2 Lo	OFF	69	Syn Tom 1	OFF	65	Tom 2 Lo	OFF	73	Brush Tom	OFF												
F#2	55	CloseSynHH	1	55	CloseSynHH	1	293	Close HH 2	1	52	Close HH	1												
	71	SynTom2 Lo	OFF	69	Syn Tom 1	OFF	65	Tom 2 Lo	OFF	73	Brush Tom	OFF												
G#2	55	CloseSynHH	1	55	CloseSynHH	1	294	Pedal HH 2	1	54	Pedal HH	ī												
	71	SynTom2 Lo	OFF	69	Syn Tom 1	OFF	65	Tom 2 Lo	OFF	73	Brush Tom	OFF												
A#2	56	OpenSyn HH	1	56	OpenSyn HH	1	295	Open HH 2	1	53	Open HH	1												
┚	70	SynTom2 Hi	OFF	69	Syn Tom 1	OFF	63	Tom 2 Hi	OFF	73	Brush Tom	OFF												
┚	70	SynTom2 Hi	OFF	69	Syn Tom 1	OFF	63	Tom 2 Hi	OFF	73	Brush Tom	OFF												
#3	56	OpenSyn HH	OFF	292	CrashCym 2	OFF	292	CrashCym 2	OFF	292	CrashCym 2	OFF												
ل	70	SynTom2 Hi	OFF	69 60	Syn Tom 1	OFF	63 60	Tom 2 Hi Ride Cym 2	OFF	73 60	Brush Tom Ride Cym 2	OFF												
)#3	60	Ride Cym 2	OFF	180	Ride Cym 2 Rev.Cymbal	OFF	45	China Cym	OFF	45	China Cym	OFF												
	45 58	China Cym Ride Cup	OFF	58	Ride Cup	OFF	58	Ride Cup	OFF	58	Ride Cup	OFF												
F#3	300	Tambourin2	OFF	***	47	Splash Cym	OFF	G#1	109	SynCowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF				
	292	CrashCym 2	OFF	292	CrashCym 2	OFF	43	Crash Cym	OFF	292	CrashCym 2	OFF												
4#3	123	Viblaslap	OFF	123	Viblasiap	OFF	123	Viblasiap	OFF	123	Viblasiap	OFF												
	60	Ride Cym 2	OFF		79	Hi Bongo	OFF	C#4	78	Lo Bongo	OFF	78	Lo Bongo	OFF	78	Lo 8ongo	OFF	78	Lo Bongo	OFF				
	70	SynTom2 Hi	OFF	298	MtSlpConga	OFF	298	MtSlpConga	OFF	298	MtSlpConga	OFF												
O#4	70	SynTom2 Hi	OFF	296	OpenCongaH	OFF	296 297	OpenCongaH	OFF	296 297	OpenCongaH	OFF												
_	70 111	SynTom2 Hi	OFF	297 111	OpenCongat Hi Timbal	OFF	111	OpenCongaL Hi Timbal	OFF	111	OpenCongaL Hi Timbal	OFF												
J. C.	112	Hi Timbal Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF												
∓#4	302	Agogo 2	OFF	G#4	302	Agogo 2	OFF		97	Cabasa	OFF	A#4	98	SynMaracas	OFF	299	Maracas 2	OFF	299	Maracas 2	OFF	299	Maracas 2	OFF
	128	Whistle S	2		129	Whistle L	2	C#5		Guiro S	3	124	Guiro S	3	124	Guiro S	3	124	Guiro S	3				
	125	Guiro L	3	D#5	118	Syn Claves	OFF	117	Claves	OFF	117	Claves	OFF	117	Claves	OFF								
	116	WoodBlockL	OFF		116	WoodBlockL	OFF	116	WoodBlockL	OFF 4	116 94	WoodBlockL	OFF 4	116 94	WoodBlockL Mute Cuica	OFF 4								
F#5	94	Mute Cuica	4	94 94	Mute Cuica	4	95	Mute Cuica Open Cuica	4	95	Open Cuica	4												
	95 104	Open Cuica MuteTriang	5	215	Mute Cuica Tubular 3	5	104	MuteTriang	5	104	MuteTriang	5												
à#5	104	OpenTriang	5	215	Tubular 3	15	105	OpenTriang	5	105	OpenTriang	5												
A#5	97	Cabasa	OFF	A#P	301	SleighBell	OFF		102	MarcTree 1	OFF	3#6	303	Castanet S	OFF	303	Castanet S	OFF	303	Castanet S	OFF	303	Castanet 5	OFF
	77	Taiko Lo	6)#6	77	Taiko Lo	6				OFF			OFF			OFF			OFF				
			OFF			OFF			OFF	<u> </u>	•	OFF												
F#6			OFF			OFF	ļ		OFF	 		OFF												
	L		OFF	<u> </u>		OFF	 		OFF	₩		OFF												
G#6			OFF	<u> </u>	<u> </u>	OFF			OFF	₩		OFF												
		*****	OFF	ļ		OFF	—		OFF	₩		OFF												
A#6	<u> </u>		OFF	!		OFF	├		OFF	+		OFF												
			OFF	 		OFF			OFF	 		OFF												
			OFF	 		OFF	 		OFF	 		OFF												
C#7	-		OFF	 		OFF	\vdash		OFF	1		OFF												
) D#2			OFF	1		OFF	 		OFF	1-		OFF												
D#7			OFF	1		OFF	 	*****	OFF	 		OFF												
			OFF	\vdash		OFF	t		OFF	f -		OFF												
F#7		*****	OFF	1		OFF	T		OFF	T	*****	OFF												
7	 		OFF	1		OFF	i		OFF	1		OFF												
G#7	 -		OFF	1		OFF	1		OFF	1		OFF												
			OFF	1	*****	OFF			OFF			OFF												
	r		OFF		*****	OFF	<u> </u>		OFF	1	******	1 OFF												
A#7	\vdash		OFF			OFF		******	OFF			OFF												
A#7			OFF OFF			OFF OFF		4244-4	OFF OFF			_												

rDrm Bank Select MSB=61, LSB=Ignored

PC umkit	Selec	49 t> 8 ORCHESTR	A		50 9 ETHNIC			51 10 KICK&SNAI	RE		57 11 SFX		
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	
C1 C#1	29	RollSnare1	OFF	121	FingerSnap	OFF		******	OFF OFF		******	OFF	
D1	121	FingerSnap	OFF	300	Tambourin2	OFF			OFF			OFF	
D#1	293	Close HH 2	11	303	Castanet \$	OFF	ļ		OFF	 	******	OFF	
E1 F1	294 295	Pedal HH 2 Open HH 2	1	292 29	CrashCym 2 RollSnare1	OFF	 		OFF	 		OFF	
F1	60	Ride Cym 2	OFF	21	Soft Snare	OFF	 	*****	OFF		******	OFF	
G1	290	StickHit 2	OFF	49	Orch Cym	OFF		*****	OFF	155	Scratch Lo	1	
G#1	122	Snap	OFF	15	Orch B.Drm	OFF	ļ		OFF	154	Scratch Hi	1 OFF	
A1	284 215	Metronome1 Tubular 3	OFF	301 102	SleighBell MarcTree 1	OFF	ļ		OFF	136	GtCutNois1 GtCutNois2	OFF	
A#1 B1	6	Real Kick	OFF	103	MarcTree 2	OFF			OFF	139	Chic 2	OFF	
C2	15	Orch B.Drm	OFF	77	Taiko Lo	OFF		****	OFF	138	Chic 1	OFF	
C#2	291	SideStick2	OFF	41	Side Stick	OFF	L		OFF	140	Bass Slide	OFF	
D2	21 303	Soft Snare	OFF	81 214	Tsuzumi Tubular 2	OFF	ļ		OFF	134	Gt Scratch Zap 1	OFF OFF	
D#2 E2	21	Castanet S Soft Snare	OFF	117	Claves	OFF	4	Punch Kick	OFF	278	Gun Shot 1	OFF	
F2	75	Timpani	OFF	40	Stick Hit	OFF	6	Real Kick	OFF	154	Scratch Hi	7	
F#2	75	Timpani	OFF	81	Tsuzumi	OFF	286	Thick Kick	OFF	155	Scratch Lo	7	
G2	75	Timpani	OFF	61	Tom 1 Hi	OFF	286	Thick Kick	OFF	122	Stick Hit	OFF	
G#2	75 75	Timpani Timpani	OFF	41 218	Side Stick Gong Lo	OFF	287 6	Tight Kick Real Kick	OFF	284	Snap Metronome1	OFF	
A2 A#2	75	Timpani	OFF	218	Gong Lo	OFF	4	Punch Kick	OFF	215	Tubular 3	OFF	
B2	75	Timpani	OFF	217	Gong Hi	OFF	6	Real Kick	OFF	135	Gtr Slide	OFF	
C3	75	Timpani	OFF	209	Gamelan 1	OFF	5	Dry Kick	OFF	136	GtCutNois1	OFF	
C#3	75	Timpani	OFF	208	Metal Bell	OFF	15 2	Orch B.Drm Ambi.Kick	OFF	137	GtCutNois2 StringSlap	OFF	
D#3	75 75	Timpani Timpani	OFF	209 91	Gamelan 1 Udu	1	2	Ambi.Kick	OFF	121	FingerSnap	OFF	
- <i>⊪</i> 5 ≘3	75	Timpani	OFF	91	Udu	1	7	Gated Kick	OFF	258	Laughing V	OFF	
F3	75	Timpani	OFF	110	R-Timbal	OFF	9	Metal Kick	OFF	259	Scream	OFF	
F#3	300	Tambourin2	OFF	112	Lo Timbal	OFF	14	Syn Kick 4	OFF	260	Punch	OFF	
G3	47	Splash Cym	OFF	112	Lo Timbal	OFF	10 12	Dance Kick	OFF	261 263	Hart Beat Footstep 2	OFF	
G#3 A3	108 292	Cowbell CrashCym 2	OFF	100 89	Tambourine Tabla 2	7	13	Syn Kick 2 Syn Kick 3	OFF	262	Footstep 1	OFF	
-A#3	123	Viblaslap	OFF	88	Tabla 1	7	13	Syn Kick 3	OFF	264	Applause 1	OFF	
В3	49	Orch Cym	OFF	90	Tabla 3	7	11	Syn Kick 1	OFF	268	Door Creak	OFF	
. 4	79	Hi Bongo	OFF	87	Baya 2	8	16	Snare 1	OFF	269	Door Stam	OFF	
C#4	78 298	Lo Bongo MtSlpConga	OFF	86 61	Baya 1 Tom 1 Hi	8 OFF	20 18	PicloSnare Snare 3	OFF	159 103	Scratch c MarcTree 2	OFF	
04 D#4	296	OpenCongaH	OFF	61	Tom 1 Hi	OFF	24	TightSnare	OFF	270	Car Engine	OFF	
4	297	OpenCongaL	OFF	96	Maraças	OFF	16	Snare 1	OFF	271	Car Stop	OFF	
4	111	Hi Timbal	OFF	92	Djembe	OFF	289	FultRoomSD	OFF	272	Car Pass	OFF	
F#4	112	Lo Timbal	OFF	112	Lo Timbal	OFF	23	Dry Snare	OFF	273 275	Car Crash	OFF	
34	302 302	Agogo 2 Agogo 2	OFF	112	Lo Timbal Timbales	OFF	22 27	LightSnare GatedSnare	OFF	276	Siren Train	OFF	
-G#4 \4	97	Cabasa	OFF	111	Hi Timbal	OFF	25	Ambi.Snare	OFF	227	WhiteNoise	OFF	
A#4	299	Maracas 2	OFF	108	Cowbell	OFF	288	BigRock SD	OFF	277	Helicopter	OFF	
B4	128	Whistle S	2	79	Hi Bongo	OFF	26	Rock Snare	OFF	228	Jetstar	OFF	
25	129	Whistle L	3	78 298	Lo Bongo MtSlpConga	OFF	27 27	GatedSnare GatedSnare	OFF	279 280	Gun Shot 2 MachineGun	OFF	
C#5 D5	124	Guiro S Guiro L	3	296	OpenCongaH	OFF	25	Ambi,Snare	OFF	281	Laser Gun	OFF	
D#5		Claves	OFF	85	Mute Conga	OFF	28	PowerSnare	OFF	282	Explosion	OFF	
≟ 5	116	WoodBlockL	OFF	83	Slap Conga	OFF	27	GatedSnare	OFF	254	Dog	OFF	
2	116	WoodBlockL	OFF	297	OpenCongaL	OFF	17	Snare 2	OFF	256	Gallop Ried 1	OFF OFF	
F#5	94 95	Mute Cuica Open Cuica	4	82 100	Open Conga Tambourine	OFF OFF	68 32	OilDrum SynSnare 2	OFF	251 244	Bird 1 Rain	OFF	
G5 - G#6	104	MuteTriang	15	82	Open Conga	OFF	31	SynSnare 1	OFF	245	Thunder	OFF	
A5	105	OpenTriang	5	77	Taiko Lo	2	31	SynSnare 1	OFF	246	Wind	OFF	
A#5	97	Cabasa	OFF	77	Taiko Lo	2	32	SynSnare 2	OFF	248	Seashore V	OFF	
35	301	SleighBell	OFF	79	Hi Bongo	OFF	32 37	SynSnare 2 Brush Tap	OFF	249 250	Stream Bubble	OFF	
C6 C#6	102 303	MarcTree 1 Castanet S	OFF	302 302	Agogo 2 Agogo 2	OFF	37	Brush Tap	OFF	253	Kitty	OFF	
— U#6 D6	77	Taiko Lo	6	98	SynMaracas	OFF	36	Brush Slap	OFF	252	Bird 2	OFF	
D#6	77	Taiko Lo	6	129	Whistle L	3	36	Brush Slap	OFF	255	Growl 2	OFF	
E6	264	Applause 1	OFF	129	Whistle L	3	36	Brush Slap	OFF	225 266	Stadium Telephone1	OFF	
F6	l	******	OFF	94 95	Mute Cuica Open Cuica	4	38	BrushSwish BrushSwish	OFF	267	Telephone1 Telephone2	OFF	
- F#6 G6	Ι—		OFF	104	MuteTriang	5	39	BrushSwirl	OFF			OFF	
G#6			OFF	105	OpenTriang	5			OFF		*****	OFF	
A6			OFF	124	Guiro S	6	1		OFF	├		OFF	
A#6			OFF	125 97	Guiro L Cabasa	6 OFF	 		OFF	 		OFF	
B6 C7			OFF	97	Cabasa	OFF	†		OFF	1	•••••	OFF	
C#7			OFF	117	Claves	OFF		I	OFF			OFF	
D7			OFF	116	WoodBiockL	OFF			OFF			OFF	
D#7		*****	OFF	116	WoodBiockL	OFF	_		OFF	1—		OFF	
E7			OFF	 		OFF	+-		OFF	1—		OFF	
F7 =#7			OFF	 		OFF	 		OFF	1		OFF	
G7	 	*****	OFF	1		OFF	1		OFF			OFF	
G#7		*****	OFF			OFF		******	OFF		*****	OFF	
A7			OFF			OFF	↓		OFF			OFF	
A#7			OFF	1		OFF	1-		OFF	 		OFF	
B7 C8	—	201007	OFF	1	******	OFF	 	 	OFF	 		OFF	
-00								<u> </u>					

Sample Name

OFF OFF

yDr2 Bank Select MSB=127, LSB=Ignored (after XG System ON)

PÇ <Drumkit Select> 12 C/M

A#2 53 Open HH B2 62 Tom 1 Lo
C3 61 Tom 1 Hi
C#3 43 Crash Cym
D3 61 Tom 1 Hi

D#3 57 Ride Edge E3 ----

F#3 100 Tambourine

108 Cowbell

79 Hi Bongo

D4 84 Palm Conga

0#4 82 Open Conga

E4 82 Open Conga

F4 111 Hi Timbal

F#4 112 Lo Timbal

G4 107 Agogo

G#4 107 Agogo A4 97 Cabasa A#4 96 Maracas B4 128 Whistle S C5 129 Whistie L C#5 123 Viblasiap 0 Fat Kick D5 0 Fat Kick
D#5 117 Claves E5 258 Laughing V

F5 259 Scream F#5 260 Punch G5 261 Hart Beat

G#5 263 Footstep 2 A5 262 Footstep 1

A#5 264 Applause 1 B5 268 Door Creak C6 269 Door Slam

C#6 155 Scratch Lo
D6 102 MarcTree 1

D#6 270 Car Engine E6 271 Car Stop

E6	271	Car Stop
F6	272	Car Pass
F#6	273	Car Crash
G6	275	Siren
G#6	276	Train
A6	227	WhiteNoise
A#6	277	Helicopter
B6	228	Jestar

B6 228 Jetstar C7 279 Gun Shot 2 C#7 280 MachineGun
D7 281 Laser Gun

D#7 282 Explosion E7 254 Dog

F7 256 Gallop F#7 251 Bird 1

G7 244 Rain G#7 245 Thunder 246 Wind A#7 248 Seashore V B7 249 Stream

250 Bubble

<Drumkit Select> 13 Standard

14 Room

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C0 C#0 D0		13 Standard			14 Room	
C#0 D0	lo.	Sample Name	Excl	No.	Sample Name	Excl
C#0 D0	0	*****	OFF		*****	OFF
DO DO	77	Taiko Lo	3	77	Taiko Lo	3
	77	Taiko Lo	3	77	Taiko Lo	3
D#0 1.	53	Zap 2	OFF	153	Zap 2	OFF
E0 1	13	Timbales	OFF	113	Timbales	OFF
F0 1	58	Scratch b	4	158	Scratch b	4
	58	Scratch b	4	158	Scratch b	4
	21	FingerSnap	OFF	121	FingerSnap	OFF
	22	Snap	OFF	122	Snap	OFF
	85	Metronome2	OFF	285	Metronome2	OFF
	15	Tubular 3	OFF	215	Tubular 3	OFF
	80	Cowbell	OFF	108	Cowbell	OFF
7	80	Cowbell	OFF	108	Cowbell	OFF
	37	Brush Tap	OFF	37 39	Brush Tap BrushSwiri	OFF
	39	BrushSwirl	OFF	36	Brush Slap	OFF
	36 39	Brush Slap	OFF	39	BrushSwirl	OFF
	29	BrushSwirl RollSnare1	OFF	29	RoffSnare1	OFF
	19	Castanet	OFF	119	Castanet	OFF
	21	Soft Snare	OFF	21	Soft Snare	OFF
	40	Stick Hit	OFF	40	Stick Hit	OFF
A1	1	Rock Kick	OFF	1	Rock Kick	OFF
	24	TightSnare	OFF	24	TightSnare	OFF
B1	6	Real Kick	OFF	6	Real Kick	OFF
C2	÷	Fat Kick	OFF	6	Real Kick	OFF
	41	Side Stick	OFF	41	Side Stick	OFF
D2	16	Snare 1	OFF	16	Snare 1	OFF
	31	Syn Claps	OFF	131	Syn Claps	OFF
	22	LightSnare	OFF	22	LightSnare	OFF
	62	Tom 1 Lo	OFF	67	ProcessT om	OFF
F#2	52	Close HH	1	52	Close HH	1
G2	62	Tom 1 Lo	OFF	67	ProcessTom	OFF
G#2	54	Pedal HH	1	54	Pedal HH	1
A2	62	Tom 1 Lo	OFF	67	ProcessTom	OFF
A#2	53	Open HH	1	53	Open HH	1
82	61	Tom 1 Hi	OFF	67	ProcessTom	OFF
C3	61	Tom 1 Hi	OFF	67	ProcessTom	OFF
C#3	43	Crash Cym	OFF	43	Crash Cym	OFF
D3	61	Tom 1 Hi	OFF	67	ProcessTom	OFF
D#3	57	Ride Edge	OFF	57	Ride Edge	OFF
E3	45	China Cym	OFF	45	China Cym	OFF
F3	58	Ride Cup	OFF	58 100	Ride Cup Tambourine	OFF
	47	Tambourine	OFF	47	Splash Cym	OFF
G3	108	Splash Cym Cowbell	OFF	108	Cowbell	OFF
-	43	Crash Cym	OFF	43	Crash Cym	OFF
A3	123	Viblaslap	OFF	123	Viblaslap	OFF
B3	57	Ride Edge	OFF	57	Ride Edge	OFF
C4	79	Hi Bongo	OFF	79	Hi Bongo	OFF
C#4	78	Lo Bongo	OFF	78	Lo Bongo	OFF
D4	85	Mute Conga	OFF	85	Mute Conga	OFF
D#4	82	Open Conga	OFF	82	Open Conga	OFF
E4	82	Open Conga	OFF	82	Open Conga	OFF
	111	Hi Timbal	OFF	111	Hi Timbal	OFF
	112	Lo Timbal	OFF	112	Lo Timbal	OFF
	107	Agogo	OFF	107	Agogo	OFF
	107	Agogo	OFF	107	Agogo	OFF
A4	98	SynMaracas	OFF	98	SynMaracas	OFF
A#4	96	Maracas	OFF	96	Maracas	OFF
_ استنتا	129	Whistle L	OFF	129	Whistle L	OFF
I " "	129	Whistle L	OFF	129	Whistle L	OFF
	124	Guiro \$	OFF	124	Guiro S	OFF
	125	Guiro L	OFF	125 117	Guiro L	OFF
	117 115	Claves WoodBlockM	OFF		Claves WoodBlockM	OFF
D#5	115	- WOODERFOCKIVE				· VEE
D#5 E5				115		
D#5 E5 F5	115	WoodBlockM	OFF	115	WoodBlockM	OFF
D#5 E5 F5 F#5	115 94	WoodBlockM Mute Cuica	OFF OFF	115 94	WoodBlockM Mute Cuica	OFF OFF
D#5 E5 F5 F5 G5	94 95	WoodBlockM Mute Cuica Open Cuica	OFF OFF	115 94 95	WoodBlockM Mute Cuica Open Cuica	OFF
D#5 E5 F5 F#5 G5 G#5	94 95 104	WoodBlockM Mute Cuica Open Cuica MuteTriang	OFF OFF OFF 2	115 94	WoodBlockM Mute Cuica	OFF OFF
D#5 E5 F5 F#5 G5 G#5 A5	94 95 104 105	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang	OFF OFF OFF 2 2	115 94 95 104	WoodBlockM Mute Cuica Open Cuica MuteTriang	OFF OFF OFF 2
D#5 E5 F5 F#5 G5 G#5 A5	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF OFF 2	115 94 95 104 105	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF OFF 2
D#5 E5 F5 F#5 G5 G#5 A5 A#5 B5	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell	OFF OFF 2 2 OFF	115 94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang	OFF OFF 2 2 OFF
D#5 E5 F5 F#5 G5 G#5 A5 A#5 B5 C6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF 2 2 OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell	OFF OFF 2 2 OFF
D#5 E5 F5 F#5 G5 G#5 A5 A#5 B5 C6 C#6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF 2 2 OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica I MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF 2 2 OFF OFF OFF
D#5 E5 F5 F#5 G5 G#5 A5 A#5 B5 C6 C#6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF 2 2 OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica I MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF
D#5 E5 F5 F#5 G5 G#5 A5 A#5 B5 C6 C#6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF
D#5 E5 F#5 G5 G#5 A5 A#5 B5 C6 C#6 D6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#S E5 F8 F#5 G5 G#6 A3 A#5 E6 C6 C#6 D6 D#6 E6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#5 E5 F6 F75 G5 G#5 A45 B5 C6 C#6 D6 D#6 E6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#5 E5 F6 F#5 G5 G45 A5 A45 B5 C6 C6 D6 D#6 E6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#5 E5 F6 F#5 G5 A5 A#5 B5 C6 C#6 D6 D#6 E6 F6 F6 G6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#5 E5 F6 G5 G45 A5 A5 C66 C#6 D6 D#6 E6 F6 G6 G6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
D#5 E5 F7 F8 F#5 G5 G#5 A5 A#5 B5 C6 C#6 D6 D6 E6 F6 F6 F6 F6 G6 A6	94 95 104 105 97	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 94 95 104 105 97 101	WoodBlockM Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF

yDr2 Bank Select MSB=127, LSB=Ignored (after XG System ON)

Excl

No.

<Drumkit Select> 15 Rock

Sample Name

16 Electro

Sample Name

Excl

No.

17 Analog Sample Name

Excl

No.

33 18 jazz Sample Name

Excl

Appendices	

		Sample Name	EXCI	140.	Sample Hame	OFF			OFF			OFF
		T-11-1-	OFF	22	Talko Lo	3	77	Taiko Lo	3	77	Taiko Lo	3
C#0	77	Taiko Lo	3	77	Taiko Lo		77		3	77	Taiko Lo	3
	77	Taiko Lo	3	77	Taiko Lo	OFF :	153	Taiko Lo Zap 2	OFF	153	Zap 2	OFF
_	153	Zap 2	OFF	153	Zap 2				OFF	113		OFF
	113	Timbales	OFF	113	Timbales	OFF	113	Timbales			Timbales	4
	158	Scratch b	4	158	Scratch b	4	158	Scratch b	4	158	Scratch b	
F#0	158	Scratch b	4	158	Scratch b	4	158	Scratch b	4	158	Scratch b	4
L.L	121	FingerSnap	OFF	121	FingerSnap	OFF	127	FingerSnap	OFF	121	FingerSnap	OFF
G#0	322	Snap	OFF	122	Snap	OFF	122	Snap	OFF	122	Snap	OFF
, <u> </u>	285	Metronome2	OFF	285	Metronome2	OFF	285	Metronome2	OFF	285	Metronome2	OFF
A#0	215	Tubular 3	OFF	215	Tubular 3	OFF	215	Tubular 3	OFF	215	Tubular 3	OFF
_	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF
	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF
	37		OFF	37	Brush Tap	OFF	37	Brush Tap	OFF	37	Brush Tap	OFF
C#1		Brush Tap		39		OFF	39	BrushSwirl	OFF	39	BrushSwirl	OFF
——	39	BrushSwirl	OFF		BrushSwirl				OFF	36	Brush Slap	OFF
D#1	36	Brush Slap	OFF	36	Brush Slap	OFF	36	Brush Slap				
1 1	39	BrushSwirl	OFF	180	Rev.Cymbal	OFF	180	Rev.Cymbal	OFF	39	BroshSwirl	OFF
	29	RollSnare1	OFF	29	RollSnare1	OFF	29	RollSnare1	OFF	29	RollSnare1	OFF
F#1	119	Castanet	OFF	153	Zap 2	OFF	153	Zap 2	OFF	119	Castanet	OFF
1	28	PowerSnare	OFF	26	Rock Snare	OFF	28	PowerSnare	OFF	21	Soft Snare	OFF
G#1	40	Stick Hit	OFF	40	Stick Hit	OFF	40	Stick Hit	OFF	40	Stick Hit	OFF
	8	ProcesKick	OFF	5	Dry Kick	OFF	0	Fat Kick	OFF	1	Rock Kick	OFF
	24	TightSnare	OFF	24	TightSnare	OFF	24	TightSnare	OFF	24	TightSnare	OFF
A#1	_					OFF	31	Syn Kick 1	OFF	6	Real Kick	OFF
! 	6	Real Kick	OFF	10	Dance Kick				OFF	1	Rock Kick	OFF
2	2	Ambi.Kick	OFF	2	Ambi.Kick	OFF	11	Syn Kick 1				OFF
C#2	41	Side Stick	OFF	41	Side Stick	OFF	42	Syn Rim	OFF	41	Side Stick	_
2 L	26	Rock Snare	OFF	28	PowerSnare	OFF	31	Syn\$nare 1	OFF	16	Snare 1	OFF
D#2	131	Syn Claps	OFF	131	Syn Claps	OFF	131	Syn Claps	OFF	131	Syn Claps	OFF
2	27	Gated5nare	OFF	28	PowerSnare	OFF	32	SynSnare 2	OFF	22	LightSnare	OFF
2	67	ProcessTorn	OFF	69	Syn Tom ?	OFF	71	SynTom2 Lo	OFF	62	Tom 1 Lo	OFF
_	52	Close HH	1	52	Close HH	1	55	CloseSynHH	1	52	Close HH	1
F#2	67	ProcessTom	OFF	69	Syn Tom 1	OFF	71	SynTom2 Lo	OFF	62	Tom 1 Lo	OFF
<u>_</u>							55		1	54	Pedal HH	11
G#2	54	Pedal HH	1	54	Pedal HH	11		CloseSynHH	OFF	62	Tom 1 Lo	OFF
<u>2</u>	67	ProcessTom	OFF	69	Syn Tom 1	OFF	71	SynTom2 Lo	1			1
A#2	53	Open HH	1	53	Open HH	1	56	OpenSyn HH	1	53	Open HH	_
2	67	ProcessTom	OFF	69	Syn Tom 1	OFF	71	SynTom2 Lo	OFF	61	Tom 1 Hi	OF
3	67	ProcessTom	OFF	69	Syn Tom 1	OFF	71	SynTom2 Lo	OFF	61	Tom 1 Hi	OF
C#3	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF
3	67	ProcessTom	OFF	69	Syn Tom 1	OFF	71	SynTom2 Lo	OFF	61	Tom 1 Hi	OF
_	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OF
D#3			OFF	45		OFF	45	China Cym	OFF	45	China Cym	OF
3	45	China Cym			China Cym		58		OFF	58	Ride Cup	OF
3	58	Ride Cup	OFF	58	Ride Cup	OFF		Ride Cup				OF
F#3	100	Tambourine	OFF	100	Tambourine	OFF	100	Tambourine	OFF	100	Tambourine	
3	47	Splash Cym	OFF	47	Splash Cym	OFF	47	Splash Cym	OFF	47	Splash Cym	OFI
G#3	108	Cowbell	OFF	108	Cowbell	OFF	109	SynCowbell	OFF	108	Cowbell	OF
.3	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OF
A#3	123	Viblaslap	OFF	123	Viblaslap	OFF	123	Viblaslap	OFF	123	Viblaslap	OF
_	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OF
3			OFF	79		OFF	79	Hi Bongo	OFF	79	Hi Bongo	OF
4	79	Hi Bongo			Hi Bongo		78		OFF	78	Lo Bongo	OF
C#4	78	Lo Bongo	OFF	78	Lo Bongo	OFF		Lo Bongo				OF
4	85	Mute Conga	OFF	85	Mute Conga	OFF	70	SynTom2 Hi	OFF	85	Mute Conga	
D#4	82	Open Conga	OFF	82	Open Conga	OFF	70	SynTom2 Hi	OFF	82	Open Conga	OF
4	82	Open Conga	OFF	82	Open Conga	OFF	70	SynTom2 Hi	OFF	82	Open Conga	QF1
4	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OF
F#4	112	Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OF
			OFF	107	A	OFF	107	Agogo	OFF	107	Agogo	OF
i4	107	Agogo			Agogo				OFF	107	Agogo	OF
G#4	107	Agogo	OFF	107	Agogo	OFF	107	Agogo	OFF	98	SynMaracas	OF
4	98	SynMaracas	OFF	98	SynMaracas	OFF	98	SynMaracas				
A#4	96	Maraças	OFF	96	Maracas	OFF	98	SynMaracas	OFF	96	Maracas	OF
4	129	Whistle L	OFF	129	Whistle L	OFF	129	Whistle L	OFF	129	Whistle L	OF
5	129	Whistle L	OFF	729	Whistle L	OFF	129	Whistle L	OFF	129	Whistle L	OF
C#5	124	Guiro S	OFF	124	Guiro S	OFF	124	Guiro S	OFF	124	Guiro S	ÖF
5	125	Guiro L	OFF	125	Guiro L	OFF	125	Guiro L	OFF	125	Guiro L	OF
_	117	Claves	OFF	117	Claves	OFF	118	Syn Claves	OFF	117	Claves	OF
D#5				115	WoodBlockM	OFF	115	WoodBlockM	OFF	115	WoodBlockM	OF
5	115	WoodBlockM	OFF	1					OFF	115	WoodBlockM	OF
5	115	WoodBlockM	OFF	115	WoodBlockM	OFF	115	WoodBlockM				OF OF
F#5	94	Mute Cuica	OFF ·	158	Scratch b	OFF	158	Scratch b	OFF	94	Mute Cuica	
5	95	Open Cuica	OFF	158	Scratch b	OFF	158	Scratch b	OFF	95	Open Cuica	OF
G#5	104	MuteTriang	2	104	MuteTriang	2	104	MuteTriang	2	104	MuteTriang	2
5	105	OpenTriang	2	105	OpenTriang	2	105	OpenTriang	2	105	OpenTriang	2
A#5	97	Cabasa	OFF	97	Cabasa	OFF	97	Cabasa	OFF	97	Cabasa	ÖF
	101	fingleBell	OFF	101	JingleBell	OFF	101	JingleBell	OFF	101	JingleBell	QF
5	102		OFF	102	MarcTree 1	OFF	102	MarcTree 1	OFF	102	MarcTree 1	OF
6	102	MarcTree 1		102		OFF	1,02	Maichee 1	OFF	1		OF
C#6			OFF	1			 	. 	OFF	1		OF
×6			OFF	ļ		OFF	 	*****		+	- 	OF
D#6		******	OFF	1		OFF			OFF			
:6			OFF	1		OFF		******	OFF	1		OF
6			OFF	1		OFF		*****	OFF			OF
F#6		T	OFF	1		ÖFF			OFF			OF
_			OFF	1	*****	OFF	1		OFF	T		OF
6			OFF	1		OFF	┪┈┈		OFF	1		OF
G#6				+					OFF	+-		OF
			OFF	4		OFF				+		O
			OFF	1		OFF			OFF	—		
A#6			OFF	1		OFF			OFF	4		O
A#6 36			OFF			OFF			OFF			OF

kDrm Bank Select MSB=62, LSB=Ignored

PC umbit	Select	41 > 19 Brush			49 20 Classic			1 21 SFX 1			2 22 SFX 2	
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl
CO			OFF		*****	OFF	-		OFF	-		OFF
C#0	77	Taiko Lo	3	77	Taiko Lo	3			OFF	!		OFF
D0	77	Taiko Lo	3	77	Taiko Lo	3	!		OFF			OFF
D#0	153	Zap 2	ÖFF	153	Zap 2	OFF	-		OFF			OFF
E0	113	Timbales	OFF	113	Timbales	OFF			OFF			OFF
FO	158	Scratch b	4	158	Scratch b	4	i		OFF			OFF
F#0	158	Scratch b	4	158	Scratch b	4		*****	OFF	 	*****	OFF
G0	121	FingerSnap	OFF	121	FingerSnap	OFF			OFF	l		OFF
G#0	122 -	Snap	OFF	122	Snap	OFF	 		OFF			OFF
A0	285	Metronome2	OFF	285	Metronome2	OFF			OFF			OFF
	215	Tubular 3	OFF	215	Tubular 3	OFF			OFF	I		OFF
A#0					 		 	1	OFF			OFF
B0	108	Cowbell	OFF	108	Cowbell	OFF	 	******	1			OFF
C1	108	Cowbell	OFF	108	Cowbell	OFF			OFF	<u> </u>		
C#1	37	8rush Tap	OFF	37	Brush Tap	OFF	ļ		OFF			OFF
D1	39	BrushSwirl	OFF	39	BrushSwirl	OFF			OFF	!	*****	OFF
D#1	36	Brush Slap	OFF	36	Brush Slap	OFF	ļ		OFF	<u> </u>		OFF
E1	39	BrushSwirl	OFF	39	BrushSwirl	OFF	<u> </u>		OFF	ļ	*****	OFF
F1	29	RollSnare3	OFF	29	RollSnare1	OFF	1	*****	OFF		*****	OFF
F#1	119	Castanet	OFF	119	Castanet	OFF	1		OFF			OFF
G1	36	Brush Słap	OFF	21	Soft Snare	OFF			OFF		*****	OFF
G#1	40	Stick Hit	OFF	40	Stick Hit	OFF		*****	OFF			OFF ·
A1	7	Rock Kick	OFF	1	Rock Kick	OFF	i		OFF			OFF
A#1	24	TightSnare	OFF	24	TightSnare	OFF	1		OFF			OFF
B1	6	Real Kick	OFF	15	Orch B.Drm	OFF	 		OFF			OFF
C2	4	Punch Kick	OFF	15	Orch B.Drm	OFF	137	GtCutNois2	OFF	267	Telephone2	OFF
	_		OFF	41	Side Stick	OFF	136	GtCutNois2 GtCutNois1	OFF	268	Door Creak	OFF
C#2	41	Side Stick							OFF	269	Door Creak Door Slam	OFF
D2	36	Brush Slap	OFF	21	Soft Snare	OFF	138	Chic 1		·		
D#2	131	Syn Claps	OFF	131	Syn Claps	OFF	141	StringSlap	OFF	156	ScratchDbl	OFF
E2	37	Brush Tap	OFF	21	Soft Snare	OFF	140	Bass Slide	OFF	158	Scratch b	OFF
F2	73	Brush Tom	OFF	62	Tom 1 Lo	OFF	134	Gt Scratch	OFF	102	MarcTree 1	OFF
F#2	52	Close HH	1	52	Close HH	1			OFF	267	Telephone2	OFF
G2	73	Brush Tom	OFF	62	Tom 1 Lo	OFF			OFF			OFF
G#2	54	Pedal HH	1	54	Pedal HH	1			OFF		******	OFF
A2	73	Brush Tom	OFF	62	Tom 1 Lo	OFF	·		OFF			OFF
A#2	53	Open HH	1	53	Open HH	1	 		OFF			OFF
B2	73	Brush Tom	OFF	61	Tom 1 Hi	OFF	i		OFF			OFF
C3	73	Brush Tom	OFF	61	Tom 1 Hi	OFF		*****	OFF			OFF
	43		OFF	49	Orch Cym	OFF			OFF	 		OFF
C#3	73	Crash Cym	OFF	61	Tom 1 Hi	OFF			OFF		******	OFF
D3		Brush Tom				OFF			OFF			OFF
Đ#3	57	Ride Edge	OFF	49	Orch Cym	1	200	I	OFF	270		OFF
E3	45	China Cym	OFF	45	China Cym	OFF	285	Metronome2			Car Engine	
F3	58	Ride Cup	OFF	58	Ride Cup	OFF	ļ		OFF	271	Car Stop	OFF
F#3	100	Tambourine	OFF	100	Tambourine	OFF			OFF	272	Car Pass	OFF
G3	47	Splash Cym	OFF	47	Splash Cym	OFF	1	*****	OFF	273	Car Crash	OFF
G#3	108	Cowbell	OFF	108	Cowbell	OFF			OFF	275	Siren	OFF
A3	43	Crash Cym	OFF	49	Orch Cym	OFF		******	OFF	276	Train	OFF
A#3	123	Viblaslap	OFF	123	Viblaslap	OFF	Г	******	OFF	228	Jetstar	OFF
B3	57	Ride Edge	ÖFF	49	Orch Cym	OFF	T	*****	OFF	277	Helicopter	OFF
C4	79	Hi Bongo	OFF	79	Hi Bongo	ÖFF			OFF	283	HandDrill	OFF
C#4	78	Lo Bongo	OFF	78	Lo Bongo	OFF			OFF	133	MetalHitLo	OFF
D4	85	Mute Conga	OFF	85	Mute Conga	OFF		******	OFF	274	GlassBreak	OFF
D#4		Open Conga	OFF	82	Open Conga	OFF	 		OFF			OFF
E4	82	Open Conga	OFF	82	Open Conga	OFF	 		OFF		*****	OFF
	111	Hi Timbal	OFF	111	Hi Timbal	OFF	 		OFF			OFF
F4	112	Lo Timbal	OFF	112	Lo Timbal	OFF	 		OFF	 -		OFF
F#4							 		OFF		[OFF
G4	107	Agogo	OFF	107	Agogo	OFF				260		OFF
G#4		Agogo	OFF	107	Agogo	OFF	244	Rain	OFF	258	Laughing V	
A4	98	SynMaracas	OFF	98	SynMaracas	OFF	245	Thunder	OFF	259	Scream	OFF
A#4	96	Maracas	OFF	96	Maracas	OFF	246	Wind	OFF	260	Punch	OFF
B4	129	Whistle L	OFF	129	Whistle L	OFF	249	Stream	OFF	261	Hart Beat	OFF
C5	129	Whistle L	OFF	129	Whistle L	OFF	250	Bubble	OFF	262	Footstep I	OFF
C#5	124	Guiro S	OFF	124	Guiro S	OFF	247	Seashore	OFF	265	Applause 2	OFF
D5	125	Guiro L	OFF	125	Guiro L	OFF			OFF			Off
D#5	117	Claves	OFF	117	Claves	OFF	L		OFF			OFF
E5	115	WoodBlockM	OFF	115	WoodBlockM	OFF			OFF	L		OFF
F5	115	WoodBlockM	OFF	115	WoodBlockM	OFF	I		OFF			OFF
F#5	94	Mute Cuica	OFF	94	Mute Cuica	OFF	F		OFF	Ι		OFF
G5	95	Open Cuica	OFF	95	Open Cuica	OFF	t		OFF	1		OFF
- G#5		MuteTriang	2	104	MuteTriang	2			OFF	i –		OFF
	105	OpenTriang	2	105	OpenTriang	2	1		OFF	1		OFF
A5			OFF	97	Cabasa	OFF	 		OFF	 		OFF
A#5		Cabasa				· ·	1		OFF	 -		OFF
B5 _	101	JingleBell	OFF	101	JingleBell	OFF	1	5	1	202	NanhinoCup	_
C6_	102	MarcTree 1	OFF	102	MarcTree 1	OFF	254	Dog	OFF	280	MachineGun	OFF
C#6	L		OFF	<u> </u>		OFF	256	Gallop	OFF	281	Laser Gun	OFF
D6			OFF	L		OFF	252	Bird 2	OFF	282	Explosion	OFF
D#6			OFF		*****	OFF	253	Kitty	OFF	279	Gun Shot 2	OFF
E6	Ī]	OFF	1		OFF	255	Growl 2	OFF		I	OFF
F6	1	*-du-	OFF	T		OFF	251	Bird 1	OFF			OFF
F#6	i		OFF	1	İ	OFF	174	Monkey 2	OFF			OFF
G6	1	45-44-	OFF			OFF	172	Growl 1	OFF	l		OFF
	_		OFF	 		OFF	 ``-		OFF	 		OFF
G#6	 		OFF			OFF	 		OFF	 		OFF
A6	⊢			<u> </u>		OFF	 		OFF			OFF
A#6		*****	OFF				 		OFF			OFF
B6	↓		OFF	 		OFF	 	*****		!		_
C7	1	*****	OFF	L	*****	OFF	1		OFF	1		OFF

	select	23 K-GM Kit			24 Power Kit		25 Dance Kit			26 26 Analog Kit		
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Ex
8		******	OFF			OFF			OFF			OFF
C#0 D0			OFF			OFF	<u> </u>		OFF			OFF
D#0			OFF	 		OFF	 		OFF			OFF
E0			OFF	-		OFF			OFF	 -		OFF
F0			OFF			OFF	i		OFF		******	OFF
F#0		·	OFF			OFF		******	OFF		=====	OFF
G0		*****	OFF			OFF	ļ		OFF			OFF
G#0			OFF OFF			OFF	 	******	OFF			OFF
A0 A#0			OFF	 	******	OFF	<u> </u>		OFF	-		OFF
B0			OFF			OFF			OFF	·····		OFF
C1	1	Rock Kick	OFF	2	Ambi.Kick	OFF	3	Crisp Kick	OFF	13	Syn Kick 3	OFF
C#1	1	Rock Kick	OFF	2	Ambi,Kick	OFF	3	Crisp Kick	OFF	13	Syn Kick 3	OFF
D1	1	Rock Kick	OFF	2	Ambi.Kick	OFF	3	Crisp Kick	OFF	13	Syn Kick 3	OFF
D#1	1	Rock Kick	OFF	2	Ambi.Kick	OFF	3	Crisp Kick	OFF	13	Syn Kick 3	OFF
£1	18	Rock Kick Snare 3	OFF	26	Ambi,Kick Rock Snare	OFF	3 20	Crisp Kick PicloSnare	OFF	13 32	Syn Kick 3 SynSnare 2	OFF
F1 F#1	53	Open HH	1	53	Open HH	1	53	Open HH	1	56	OpenSyn HH	1
G1	33	Fat Kick	OFF	7	Gated Kick	OFF	12	Syn Kick 2	OFF	10	Dance Kick	OFF
G#1	113	Timbales	OFF	113	Timbales	OFF	41	Side Stick	OFF	113	Timbales	OFF
A1	16	Snare 1	6	24	TightSnare	OFF	24	Tight\$nare	OFF	25	Ambi.Snare	OFF
A#1	29	RollSnare1	6	177	Rev.Snare1	OFF	177	Rev.Snare1	OFF	177	Rev.Snare1	OFF
Ві	6	Real Kick	OFF	7	Gated Kick	OFF	2	Ambi.Kick	OFF	3	Crisp Kick	OFF
C2	8	ProcesKick	OFF	9	Metal Kick	OFF	10	Dance Kick	OFF	11	Syn Kick 1	OFF
C#2	41	Side Stick	OFF	41	Side Stick	OFF	41 32	Side Stick	OFF	42 31	Syn Rim	OFF
D2	26	Rock Snare	OFF	28	PowerSnare Hand Claps	OFF	130	SynSnare 2	OFF	131	SynSnare 1 Syn Claps	OFF
D#2 E2	130 22	Hand Claps LightSnare	OFF	130 27	GatedSnare	OFF	25	Hand Claps Ambi.Snare	OFF	22	LightSnare	OFF
F2	62	Tom 1 Lo	OFF	67	ProcessTom	OFF	67	ProcessTom	OFF	71	SynTom2 Lo	OFF
F#2	51	Tite HH	1	51	Tite HH	17	51	Tite HH	1	55	CloseSynHH	1
G2	62	Tom 1 Lo	OFF	67	ProcessTom	OFF	67	ProcessTom	OFF	71	SynTom2 Lo	OFF
G#2	54	Pedal HH	1	54	Pedal HH	1	54	Pedal HH	1	55	CloseSynHH	1
A2	62	Tom 1 Lo	OFF	67	ProcessTom	OFF	67	ProcessTom	OFF	71	SynTom2 Lo	OFF
A#2	53	Open HH	1	53	Open HH	1	53	Open HH	1	56	OpenSyn HH	1
B2	61	Tom 1 Hi	OFF	67	ProcessTom	OFF	67	ProcessTom	OFF	71	SynTom2 Lo	OFF
СЗ	61	Tom 1 Hi	OFF	67	ProcessTm	OFF	67 43	ProcessTom	OFF	71 56	SynTom2 Lo	OFF
C#3	43 61	Crash Cym Tom 1 Hi	OFF	43 67	Crash Cym ProcessTom	OFF	67	Crash Cym ProcessTom	OFF	71	OpenSyn HH SynTom2 Lo	OFF
D3 D#3	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OFF	57	Ride Edge	OFF
E3	45	China Cym	OFF	45	China Cym	OFF	45	China Cym	OFF	45	China Cym	OFF
F3	58	Ride Cup	OFF	58	Ride Cup	OFF	58	Ride Cup	OFF	58	Ride Cup	OFF
F#3	100	Tambourine	OFF	100	Tambourine	OFF	100	Tambourine	OFF	100	Tambourine	OFF
G3	47	Splash Cym	OFF	47	Splash Cym	OFF	47	Splash Cym	OFF	47	Splash Cym	OFF
G#3	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF	109	SynCowbell	OFF
A3	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF
A#3	123	Viblaslap	OFF	123	Viblaslap	OFF	123	Viblaslap	OFF	123 59	Viblaslap	OFF
B3	59 79	Ride Cym 1	OFF	59 79	Ride Cym 1 Hi Bongo	OFF	57 79	Ride Edge Hi Bongo	OFF	79	Ride Cym 1 Hi Bongo	OFF
C4 C#4	78	Hi Bongo Lo Bongo	OFF	78	Lo Bongo	OFF	78	Lo Bongo	OFF	78	Lo Bongo	OFF
D4	85	Mute Conga	OFF	85	Mute Conga	OFF	85	Mute Conga	OFF	70	SynTom2 Hi	OFF
D#4	82	Open Conga	OFF	82	Open Conga	OFF	82	Open Conga	OFF	70	SynTom2 Hi	OFF
E4	82	Open Conga	OFF	82	Open Conga	OFF	82	Open Conga	OFF	70	SynTom2 Hi	OFF
F4	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OFF
F#4	112	Lo TimbaL	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF
G4	107	Agogo	OFF	107	Agogo	OFF	107	Agogo	OFF	107	Agogo	OFF
G#4	107	Agogo	OFF	107	Agogo	OFF	107 97	Agogo	OFF	107 97	Agogo Cabasa	OFF
A4	97 96	Cabasa Maracas	OFF	97 96	Cabasa Maracas	OFF	96	Cabasa Maracas	OFF	98	SynMaracas	OFF
A#4 B4	128	Whistle S	2	128	Whistle S	2	128	Whistie S	2	128	Whistle S	2
C5	129	Whistle L	2	129	Whistle L	2	129	Whistle L	2	129	Whistle L	2
C#5	124	Guiro S	3	124	Guiro S	3	124	Guiro S	3	124	Guiro S	3
D5	125	Guiro L	3	125	Guiro L	3	125	Guiro L	3	125	Guiro L	3
Ð#5	117	Claves	OFF	117	Claves	OFF	117	Claves	OFF	118	Syn Claves	OFF
E5	115	WoodBlockM	OFF	115	WoodBlockM	OFF	115	WoodBlockM	OFF	115	WoodBlockM	OFF
F5	116	WoodBlockt.	OFF	116	WoodBlockL Muto Cuica	OFF 4	116 94	WoodBlockL	OFF 4	116 94	WoodBlockL Mute Cuica	OFF 4
	94 95	Mute Cuica Open Cuica	4	94 95	Mute Cuica Open Cuica	4	95	Mute Cuica Open Cuica	4	95	Open Cuica	4
G5 G#5	104	MuteTriang	5	104	MuteTriang	5	104	MuteTriang	5	104	MuteTriang	5
<u>сяна</u> А5	105	OpenTriang	5	105	OpenTriang	5	105	OpenTriang	5	105	OpenTriang	5
A5 A#5	97	Cabasa	OFF	97	Cabasa	OFF	97	Cabasa	OFF	97	Cabasa	OFF
B5	101	JingleBell	OFF	101	Jingle8ell	OFF	101	JingleBell	OFF	701	JingleBell	OFF
C6	102	MarcTree 1	OFF	102	MarcTree 1	OFF	102	MarcTree 1	OFF	102	MarcTree 1	OFF
C#6	119	Castanet	OFF	119	Castanet	OFF	119	Castanet	OFF	119	Castanet	OFF
D6	41	Side Stick	OFF	41	Side Stick	OFF	41	Side Stick	OFF	41	Side Stick	OFF
D#6	77	Taiko Ło	OFF	77	Taiko Lo	OFF	77	Taiko Lo	OFF	77	Taiko Lo	OFF
E6			OFF			OFF	}		OFF OFF			OFF
F6	ļ		OFF	\vdash		OFF		<u></u>	OFF	 		OFF
F#6	⊢	<u> </u>	OFF	 		OFF	\vdash		OFF	-		OFF
G6	 		OFF	1		OFF	-		OFF	 		OFF
G#6 A6	l		OFF	 		OFF			OFF	 		OFF
A6 A#6	·		OFF	 		OFF	 		OFF	1		OFF
B6	<u> </u>		OFF	1	*****	OFF	 		OFF			OFF
			OFF	<u> </u>		OFF			OFF	1		OFF

PC 33~40 <Drumkit Select> 27 Jazz 1 41~48 28 Brush Kit 49~56 29 Orch Kit 65~72 30 Perc Kit

	Select	> 27 Jazz Kit			28 Brush Kit			29 Orch Kit			30 Perc Kit	
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Exc
1	3	Crisp Kick	OFF	3	Crisp Kick	OFF	51	Tite HH	OFF	79	Hi Bongo	OFF
C#1	3	Crisp Kick	OFF	3 -	Crisp Kick	OFF	51	Tite HH	OFF	79	Hi Bongo	OFF.
	3	Crisp Kick	OFF	3	Crisp Kick	OFF	51	Tite HH	OFF	79	Hi Bongo	OFF
D#1	3	Crisp Kick	OFF	3	Crisp Kick	OFF	51	Tite HH	1	79	Hi Bongo	OFF
_	3	Crisp Kick	OFF	3	Crisp Kick	OFF	54	Pedal HH	1	79	Hi Bongo	OFF
	19	Snare 4	OFF	121	FingerSnap	OFF	53	Open HH	OFF	78 100	Lo Bongo	OFF
F#1	53	Open HH	1	53	Open HH	OFF	57	Ride Edge Real Kick	OFF	107	Tambourine	OFF
	2	Ambi.Kick	OFF	2	Ambi,Kick	OFF	6	Real Kick	OFF	33	Agogo Vocal5nr 1	OFF
G#1	113 30	Timbales	OFF	113 36	Timbales	6	6	Real Kick	OFF	107	Agogo	OFF
	29	RollSnare2 RollSnare1	6	29	Brush Slap RollSnare1	6	6	Real Kick	OFF	80	Stap Bongo	OFF
A#1	4	Punch Kick	OFF	4	Punch Kick	OFF	6	Real Kick	OFF	116	WoodBlockL	OFF
2	1	Rock Kick	OFF		Rock Kick	OFF	75	Timpani	OFF	117	Claves	OFF
C#2	41	Side Stick	OFF	41	Side Stick	OFF	43	Side Stick	OFF	115	WoodBlockM	OFF
#2	21	Soft Snare	OFF	37	Brush Tap	OFF	30	RollSnare2	OFF	108	Cowbell	OFF
0#2	130	Hand Claps	OFF	36	Brush Slap	OFF	119	Castanet	OFF	114	WoodBlockH	OFF
-116	17	Snare 2	OFF	38	BrushSwish	OFF	30	RollSnare2	OFF	119	Castanet	OFF
	62	Tom ? Lo	OFF	73	Brush Tom	OFF	75	Timpani	OFF	87	8aya 2	OFF
F#2	51	Tite HH	1	51	Tite HH	1	75	Timpani	OFF	97	Cabasa	OFF
	62	Tom 1 Lo	OFF	73	Brush Tom	OFF	75	Timpani	OFF	86	Baya 1	OFF
G#2	54	Pedal HH	1	54	Pedal HH	1	75	Timpani	OFF	96	Maracas	OFF
	62	Tom 1 Lo	OFF	73	Brush Tom	OFF	75	Timpani	OFF	87	Baya 2	OFF
A#2		Open HH	1	53	Орел НН	1	75	Timpani	OFF	97	Cabasa	OFF
	61	Tom 1 Hi	OFF	73	Brush Tom	OFF	75	Timpani	OFF	90	Tabia 3	1
	61	Tom 1 Hi	OFF	73	Brush Tom	OFF	75	Timpani	OFF	89	Tabla 2	1
C#3	43	Crash Cym	OFF	43	Crash Cym	OFF	75	Timpani	OFF	123	Viblaslap	OFF
<i>5</i> #0	61	Tom 1 Hi	OFF	73	Brush Tom	OFF	75	Timpani	OFF	88	Tabla 1	1
D#3	60	Ride Cym 2	OFF	60	Ride Cym 2	OFF	75	Timpani	OFF	104	MuteTriang	3
44	45	China Cym	OFF	45	China Cym	OFF	75	Тітралі	OFF	66	Tom 2 Lo V	Off
	59	Ride Cym 1	OFF	59	Ride Cym 1	OFF	75	Timpani	OFF	105	OpenTriang	3
F#3	100	Tambourine	OFF	100	Tambourine	OFF	100	Tambourine	OFF	124	Guiro S	2
	47	Splash Cym	OFF	47	Splash Cym	OFF	47	Splash Cym	OFF	101	JingleBell	OFF
G#3	108	Cowbell	OFF	108	Cowbell	OFF	108	Cowbell	OFF	125	Guiro L	2
	43	Crash Cym	OFF	43	Crash Cym	OFF	43	Crash Cym	OFF	102	MarcTree 1	OFF
4#3		Viblaslap	OFF	123	Viblaslap	OFF	123	Viblaslap	OFF	229	Thing	OFF
	57	Ride Edge	OFF	57	Ride Edge	OFF	49	Orch Cym	OFF	96	Maracas	OFF
	79	Hi Bongo	OFF	79	Hi Bongo	OFF	79	Hi Bongo	OFF	130	Hand Claps	OFF
#4	78	Lo Bongo	OFF	7 8	Lo Bongo	OFF	78	Lo Bongo	OFF	131	Syn Claps	OFF
***	85	Mute Conga	OFF	85	Mute Conga	OFF	85	Mute Conga	OFF	155	Scratch Lo	OFF
O#4	82	Open Conga	OFF	82	Open Conga	OFF	82	Open Conga	OFF	154	Scratch Hi	OFF
-	82	Open Conga	OFF	82	Open Conga	OFF	82	Open Conga	OFF	156	ScratchDbl	OFF
_	111	Hi Timbal	OFF	111	Hi Timbal	OFF	111	Hi Timbal	OFF	128	Whistle S	4
F#4		Lo Timbal	OFF	112	Lo Timbal	OFF	112	Lo Timbal	OFF	129	Whistle L	4
	107	Agogo	OFF	107	Agogo	OFF	107	Agogo	OFF	83	Slap Conga	OFF
G#4	107	Agogo	ÖFF	107	Agogo	OFF	107	Agogo	OFF	85	Mute Conga	OFF
ļ	97	Cabasa	OFF	97	Cabasa	OFF	97	Cabasa	OFF	82	Open Conga	OFF
A#4	96	Maracas	OFF	96	Maracas	OFF	96	Maraças	OFF	82	Open Conga	OFF
,	128	Whistle S	2	128	Whistle S	2	128	Whistle S	2	94	Mute Cuica	OFF
	129	Whistle L	2	129	Whistle L	2	129	Whistle L	2	95	Open Cuica	OFF
C#5	124	Guiro S	3	124	Guiro S	3	124	Guiro S	3	113	Timbales	OFF
	125	Guiro L	3	125	Guiro L	3	125	Guiro L	3	110	R-Timbal	OFF
D#5	117	Claves				OFF	117					
	115		OFF	117	Claves			Claves	OFF	111	Hi Timbal	OFF
		WoodBlockM	OFF	115	WoodBlockM	OFF	115	WoodBlockM	OFF	112	Lo Timbal	OFF
F#5	116	WoodBlockM WoodBlockL	OFF OFF	115 116	WoodBlockL WoodBlockL	OFF OFF	115 116	WoodBlockM WoodBlockL	OFF OFF	112 118	Lo Timbal Syn Claves	OFF
	94	WoodBlockL Mute Cuica	OFF OFF 4	115 116 94	WoodBlockM WoodBlockL Mute Cuica	OFF OFF 4	115 116 94	WoodBlockM WoodBlockL Mute Cuica	OFF OFF 4	112 118 109	Lo Timbal Syn Claves SynCowbell	OFF OFF
,	94 95	WoodBlockL Mute Cuica Open Cuica	OFF OFF 4 4	115 116 94 95	WoodBlockM WoodBlockL Mute Cuica Open Cuica	OFF OFF 4	115 116 94 95	WoodBlockM WoodBlockL Mute Cuica Open Cuica	OFF OFF 4	112 118 109 121	Lo Timbal Syn Claves SynCowbell FingerSnap	OFF OFF OFF
G#5	94 95 104	WoodBlockL Mute Cuica Open Cuica MuteTriang	OFF OFF 4 4 5	115 116 94 95 104	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang	OFF OFF 4 4 5	115 116 94 95 104	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang	OFF OFF 4 4 5	112 118 109 121 76	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi	OFF OFF OFF OFF
G#5	94 95 104 105	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang	OFF OFF 4 4 5	115 116 94 95 104 105	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang	OFF OFF 4 4 5 5	115 116 94 95 104 105	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang	OFF OFF 4 4 5 5	112 118 109 121 76 77	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo	OFF OFF OFF OFF
G#5 A#5	94 95 104 105 97	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF 4 4 5 5 OFF	115 116 94 95 104 105 97	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF 4 4 5 5 OFF	115 116 94 95 104 105 97	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa	OFF OFF 4 4 5 5 OFF	112 118 109 121 76 77 153	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2	OFF OFF OFF OFF OFF
G#5 A#5	94 95 104 105 97 101	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell	OFF OFF 4 4 5 5 OFF OFF	115 116 94 95 104 105 97	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell	OFF OFF 4 4 5 5 COFF OFF	115 116 94 95 104 105 97	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell	OFF OFF 4 4 5 5 OFF OFF	112 118 109 121 76 77 153 29	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1	OFF OFF OFF OFF OFF OFF
3#5 1#5	94 95 104 105 97 101 102	WoodBfockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF OFF OFF	115 116 94 95 104 105 97 101	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF 4 4 5 S OFF OFF OFF	115 116 94 95 104 105 97 101	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1	OFF OFF 4 4 5 OFF OFF OFF	112 118 109 121 76 77 153 29 30	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2	OFF OFF OFF OFF OFF OFF S
G#5 A#5 C#6	94 95 104 105 97 101 102 119	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet	OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet	OFF OFF 4 4 5 S OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet	OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym	OFF OFF OFF OFF OFF OFF OFF 5 5
G#5 A#5 C#6	94 95 104 105 97 101 102 119 41	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick	OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick	OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick	OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym	OFF OFF OFF OFF OFF OFF OFF 5 5 6
G#5 A#5 C#6	94 95 104 105 97 101 102 119 41	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet	OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF 5 5 6 6
G#5 A#5 C#6	94 95 104 105 97 101 102 119 41	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF 5 5 6 6 OFF
G#5 A#5 C#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF 5 5 6 6
G#5 A#5 C#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
3#5 1#5 2#6 2#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit Orch Hit Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF S 6 6 OFF OFF OFF
3#5 3#5 2#6 2#6 3#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
3#5 3#5 2#6 2#6 3#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Talko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
#5 #5 #6 #6 #6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
3#5 2#6 2#6 3#6 3#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 C#6 G#6 A#6	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 G#6 G#6 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Cowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 C#6 C#6 G#6 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Cowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 C#6 C#6 G#6 G#6 C#7 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 C#6 C#6 C#6 C#6 C#7 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Claves Syn Cowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 D#6 G#6 A#6 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockI Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Claves Syn Cowbell Finger Snap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 D#6 F#6 G#6 C#7 D#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 D#6 F#6 G#6 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockI Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 D#6 G#6 G#6 A#6 C#7 D#7 F#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockI Mute Cuica Open Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
3#5 3#6 3#6 3#6 3#6 3#6 3#7 3#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves Syn Claves Syn Cowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF
G#5 A#5 C#6 D#6 F#6 G#6 C#7	94 95 104 105 97 101 102 119 41 77	WoodBlockL Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockL Mute Cuica Open Cuica Open Cuica MuteTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	115 116 94 95 104 105 97 101 102 119	WoodBlockM WoodBlockI Mute Cuica Open Cuica MuteTriang OpenTriang Cabasa JingleBell MarcTree 1 Castanet Side Stick Taiko Lo	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	112 118 109 121 76 77 153 29 30 49 49 142 142 142 142 142 142 142 142 142 142	Lo Timbal Syn Claves SynCowbell FingerSnap Taiko Hi Taiko Lo Zap 2 RollSnare1 RollSnare2 Orch Cym Orch Hit	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF

PC PrgB:69 Total Kit <Drumkit Select> 31 Total Kit PrgA:09 Street Kit PrgB:09 ProdycrKit 32 ProducrKit

PrgA:69 [KrazyKit]

PrgU:09 Techno Kit PrgU:69 [Combo Kit]

nkit	Select	> 31 Total Kit			32 ProducrKit		33 Krazy Kit		_		34 Combo Ki	
	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Excl	No.	Sample Name	Exc
1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
C#1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
D#1	49 49	Orch Cym Orch Cym	OFF	4	Punch Kick Punch Kick	OFF	172	Growl 1	OFF	49 49	Orch Cym	OFF
	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
F#1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym Orch Cym	OFF
	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
G#1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
A#1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
1	49	Orch Cym	OFF	4	Punch Kick	OFF	172	Growl 1	OFF	49	Orch Cym	OFF
2	0	Fat Kick	OFF	4	Punch Kick	OFF	0	Fat Kick	OFF	0	Fat Kick	OFF
C#2	6	Real Kick	OFF	3	Crisp Kick	OFF	163	BOOFN	t	1	Rock Kick	OFF
2	2	Ambi.Kick	OFF	0	Fat Kick	OFF	17	Snare 2	OFF	2	Ambi.Kick	OFF
D#2	13	Syn Kick 3	OFF	6	Real Kick	OFF	169	POOM	1	13	Syn Kick 3	OFF
<u>:</u> .	7	Gated Kick	OFF	1	Rock Kick	OFF	167	COUGH	1	7	Gated Kick	OFF
Ï	20	PicloSnare	OFF	2	Ambi,Kick	OFF	162	BISS	1	20	PicloSnare	OFF
F#2	21	Soft Snare	OFF	7	Gated Kick	OFF	126	Pull 1	OFF	21	Soft Snare	OFF
2	27	GatedSnare	OFF	9	Metal Kick	OFF	168	ISSH	1	27	GatedSnare	OFF
G#2	31	SynSnare 1	OFF	8	ProcesKick	OFF	161	Drop	OFF	31	SynSnare 1	OFF
	16	Snare 1	OFF	10	Dance Kick	OFF	166	COOSH	1	16	Snare 1	OFF
A#2	41	Side Stick	OFF	13	Syn Kick 3	OFF	127	Pull 2	OFF	41	Side Stick	OFF
	26	Rock Snare	OFF	11	Syn Kick 1	OFF	165	CHLACK	1	26	Rock Snare	OFF
	62	Tom 1 to	OFF	12	Syn Kick 2	OFF	164	BOOGETA	1	62	Tom 1 Lo	OFF
C#3	67 62	ProcessTom Tom 1 Lo	OFF	66	Tom 2 Lo V	OFF	274	GlassBreak	OFF	67	ProcessTom	OFF
			OFF	16	Snare 1	OFF	274	GlassBreak	OFF	62	Tom 1 Lo	OFF
O#3	67 61	ProcessTom Tom 1 Hi	OFF	21 17	Soft Snare	OFF	274	GlassBreak	OFF	67	ProcessTom	OFF
	51	Tite HH	1	20	Snare 2	OFF	172	Growi 1	OFF	62	Tom 1 Lo	OFF
#3	55	CloseSynHH	3	19	PictoSnare Snare 4	OFF	172 160	Growi 1 Sword	OFF	51 67	Tite HH ProcessTom	OFF
	51	Tite HH	1	18	Snare 3	OFF	160	Sword	OFF	52	Close HH	1
3#3	56	OpenSyn HH	3	22	LightSnare	OFF	35	Fist	2	67	ProcessTom	OFF
	53	Open HH	1	27	GatedSnare	OFF	35	Fist	3	53	Open HH	1
\#3	100	Tambourine	OFF	24	TightSnare	OFF	238	Tron Up	2	100	Tambourine	OFF
***	54	Pedal HH	1	28	PowerSnare	OFF	238	Tron Up	3	54	Pedal HH	1
-	43	Crash Cym	OFF	25	Ambi.Snare	OFF	93	CorkPop	OFF	43	Crash Cym	OFF
#4	43	Crash Cym	OFF	177	Rev.Snare1	OFF	93	CorkPop	OFF	43	Crash Cym	OFF
-	57	Ride Edge	OFF	26	Rock Snare	OFF	283	HandDrill	OFF	57	Ride Edge	OFF
)#4	58	Ride Cup	OFF	29	RollSnare1	4	283	HandDrišl	OFF	58	Ride Cup	OFF
	98	SynMaracas	OFF	30	RollSnare2	4	170	Uhhh!	OFF	98	SynMaracas	OFF
┪	97	Cabasa	OFF	41	Side Stick	OFF	170	Uhhh!	OFF	97	Cabasa	OFF
#4	130	Hand Claps	OFF	31	SynSnare 1	OFF	171	Samurai!	OFF	130	Hand Claps	OFF
***1	78	Lo Bongo	OFF	32	SynSnare 2	OFF	171	Samurai!	OFF	78	Lo Bongo	OFF
3#4	80	Slap Bongo	OFF	278	Gun Shot 1	OFF	228	Jetstar	OFF	80	Slap Bongo	OFF
	79	Hi Bongo	OFF	33	VocalSnr 1	OFF	228	Jetstar	OFF	79	Hi Bongo	OFF
\#4	108	Cowbell	OFF	38	BrushSwish	OFF	219	MouthHarp1	4	108	Cowbell	OFF
	82	Open Conga	OFF	39	BrushSwirl	1	221	MouthHarp2	4	82	Open Conga	OFF
_	82	Open Conga	OFF	37	Brush Tap	1	220	MouthHrp1A	4	82	Open Conga	OFF
:#5	112	Lo Timbal	OFF	36	Brush Slap	1	227	WhiteNoise	OFF	112	Lo Timbal	OFF
П	104	MuteTriang	4	51	Tite HH	2	278	Gun Shot 1	OFF	104	MuteTriang	2
)#5	111	Hi Timbal	OFF	53	Open HH	2	152	Zap 1	OFF	111	Hi Timbal	OFF
	105	OpenTriang	4	. 54	Pedal HH	2	153	Zap 2	OFF	105	OpenTriang	2
╗	154	Scratch Hi	2	55	CloseSynHH	3	173	Monkey 1	OFF	59	Ride Cym 1	OFF
#5	155	Scratch Lo.	2	56	OpenSyn HH	3	174	Monkey 2	OFF	60	Ride Cym 2	OFF
_]	156	ScratchDbl	2	43	Crash Cym	OFF	133	MetalHitLo	OFF	45	China Cym	OFF
#5	177	Rev.Snare1	5	47	Splash Cym	Off	132	MetalHitHi	OFF	177	Rev.Snare1	3
ل	25	Ambi.Snare	5	45	China Cym	OFF	134	Gt Scratch	OFF	25	Ambi.Snare	3
\#5	29	RollSnare1	6	57	Ride Edge	OFF	218	Gong Lo	OFF	29	RollSnare1	4
_	30	RollSnare2	6	58	Ride Cup	OFF	234	Cast Roll	5	30	RollSnare2	4
لي	211	Pole	OFF	59	Ride Cym 1	OFF	119	Castanet	5	47	Splash Cym	OFF
#6	32 131	SynSnare 2	OFF	60	Ride Cym 2	OFF	68	OilDrum	OFF	40	Stick Hit	OFF
	118	Syn Claps	OFF OFF	62 62	Tom 1 Lo	OFF	72 229	SolidHit Thing	OFF	131 118	Syn Claps Syn Claves	OFF
#6	71	Syn Claves SynTom2 Lo	OFF	61	Tom 1 Lo Tom 1 Hi	OFF	212	FingCymbal	OFF	71	SynTom2 Lo	OFF
┥	71	SynTom2 Lo	OFF	67	ProcessTom	OFF	159	Scratch c	6	71	SynTom2 Lo	OFF
#6	42	Syn Rim	OFF	67	ProcessTom	OFF	157	Scratch a	6	42	Syn Rim	OFF
***	69	Syn Tom 1	OFF	71	SynTom2 Lo	OFF	158	Scratch b	6	99	Sagat	OFF
#6	69	Syn Tom 1	OFF	70	SynTom2 Hi	OFF	154	Scratch Hi	6	229	Thing	OFF
7	69	Syn Tom 1	OFF	69	Syn Tom 1	OFF	155	Scratch Lo	6	102	MarcTree 1	OFF
#6	69	Syn Tom 1	OFF	69	Syn Tom 1	OFF	156	ScratchDbl	6	102	MarcTree 1	OFF
7	69	Syn Tom 1	OFF	73	Brush Tom	OFF	142	Orch Hit	OFF	102	MarcTree 1	OFF
~†	102	MarcTree 1	OFF	73	Brush Tom	OFF	142	Orch Hit	OFF	102	MarcTree 1	OFF
#7	" "	*****	OFF		******	OFF		*****	OFF		A	OFF
٦			OFF			OFF			OFF			OFF
#7			OFF			OFF		*****	OFF		******	OFF
			OFF	'		OFF			OFF			OFF
┪		Destar .	OFF			OFF			OFF		district	OFF
#7			OFF		*****	OFF		******	OFF			OFF
╗			OFF			OFF		*****	OFF		******	OFF
#7		*****	OFF			OFF			OFF		******	OFF
٦			OFF			OFF			OFF			OFF
# 7		*****	OFF			OFF			OFF			OFF
T			OFF		*****	OFF			OFF		******	OFF
			OFF			OFF		*****	OFF		******	OFF

PrgA:39 VeloGated PrqC:69 Zulu Kit <Drumkit Select> 35 Zulu Kit

No. Sample Name

Crisp Kick

3 Crisp Kick

3 Crisp Kick

3 Crisp Kick

3 Crisp Kick 3 Crisp Kick

3 Crisp Kick 3 Crisp Kick

3 Crisp Kick

3 Crisp Kick

3 | Crisp Kick

3 Crisp Kick

3 Crisp Kick

11 Syn Kick 1

2 Ambi.Kick

10 Dance Kick

6 Real Kick

13 Syn Kick 3

32 SynSnare 2

28 PowerSnare

31 SynSnare 1

24 TightSnare

22 Light\$nare

25 Ambi.Snare

55 CloseSynHH

56 OpenSyn HH A#3 53 Open HH

105 OpenTriang

43 Crash Cym

47 Splash Cym 105 OpenTriang

82 Open Conga

82 Open Conga

83 Slap Conga

83 Slap Conga

85 Mute Conga

85 Mute Conga

84 Palm Conga

188 Log Drum 2 D#5 189 Log Drum 3

190 Log Drum 4

78 Lo Bongo

O#5 187 Log Drum 1

F5 226 BrushNoise F#5 121 FingerSnap

G5 162 BISS

G#5 163 BOOFN

A5 164 BOOGETA

A#5 165 CHLACK

B5 173 | Monkey 1

C6 94 Mute Cuica C#6 95 Open Cuica 94 Mute Cuica

D#6 221 MouthHarp2 E6 222 MouthHrp2A

F6 243 MalletLoop F#6 236 Waterphone

G6 243 MalletLoop G#6 102 MarcTree 1

C7 242 Jung Gliss

220 MouthHrp1A

221 | MouthHarp2

135 Gtr Slide

135 Gtr Slide

17 Snare 2

A#2 21 Soft Snare

0#3 278 Gun Shot 1 E3 131 Syn Claps F3 108 Cowbell

F#3 51 Tite HH

G#3 54 Pedal HH

D#4 100 Tambourine E4 104 MuteTriano

7 | Gated Kick

D#1

F#1

-G#1

A#1

F#2

G#2

C3

C#3

Exci

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No.

2 Ambi.Kicl

2 Ambi.Kick

2 Ambi,Kick

2 Ambi.Kick

2 Ambi.Kick

26 Rock Snare

0 Fat Kick

32 SynSnare 2

11 Syn Kick 1 24 TightSnare

177 Rev.Snare1

12 Syn Kick 2

Rock Kick

47 Side Stick

278 | Gun Shot 1

130 Hand Claps

25 Ambi.Snare

67 ProcessTorr

67 ProcessTorr

54 Pedal HH

67 ProcessTorr

67 ProcessTorn

67 ProcessTorn

43 Crash Cym

67 ProcessTorr

57 Ride Edge 43 Crash Cym

58 Ride Cup

100 Tambourine

108 Cowbell

123 Viblaslap

47 Splash Cym

43 Crash Cym

59 Ride Cym 1

79 Hi Bongo

78 Lo Bongo

85 Mute Conga

82 Open Conga

82 Open Conga

111 Hi Timbal

112 Lo Timbai

107 Agogo 107 Agogo

97 Cabasa

96 Maracas

128 Whistle S

129 Whistle L

124 Guiro S

125 Guiro L

117 Claves

115 Wood8lockN

62 Tom 1 Lo

51 Tite HH

62 Tom 1 Lo

53 Open HH

61 Tom 1 Hi

101 JingleBell

102 MarcTree 1

105 OpenTriang

104 MuteTriang

T ----

.....

105 OpenTriang

50 OrchCym LP

53 Open HH

51 Tite HH

PrgC:09 Modern Kit 36 Modern Kit Sample Name

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No.

11 | Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1 11 Syn Kick 1 11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

11 Syn Kick 1

2 Ambi.Kick 13 Syn Kick 3 7 Gated Kick

10 Dance Kick

6 Real Kick

12 Syn Kick 2

32 SynSnare 2 28 PowerSnare

31 SynSnare 1

21 Soft Snare

24 TightSnare

22 LightSnare

17 | Snare 2

278 | Gun Shot 1

131 Syn Claps

108 Cowbell

51 Tite HH

54 Pedal HH

53 Open HH

105 OpenTriang

43 Crash Cym

47 Splash Cym

105 OpenTriang

100 Tambourine

104 MuteTriang

82 Open Conga

82 | Open Conga

83 Slap Conga

83 Slap Conga

85 Mute Conga

85 Mute Conga

84 Palm Conga

109 SynCowbell

80 Siap Bongo

118 Syn Claves

154 Scratch Hi

98 SynMaracas

121 FingerSnap

155 | Scratch Lo

135 Gtr Slide

107 Agogo 156 ScratchObl

94 Mute Cuica

95 Open Cuica

152 Zap 1

153 Zap 2

130 Hand Claps 211 Pole

102 | MarcTree 1

69 Syn Tom 1

69 Syn Tom 1

69 Syn Tom 1 69 Syn Tom 1

69 Syn Tom 1

69 Syn Tom 1

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

32 SynSnare 2

OFF 156 ScratchDb!

78 Lo Bongo

55 CloseSynHH

56 OpenSyn HH

25 Ambi.Snare

PrqU:39 ODRaveKit 37 User Kit 1 Sample Name

ıτ		38 U	ser Kit 2	
Excl	G#0	No.	Sample Name	Excl
OFF	AO	140	Bass Slide	OFF
OFF	A#0	134	Gt Scratch	ÖFF
)FF	B0	135	Gtr Slide Hand Claps	OFF
OFF	C#1	131	Syn Claps	OFF
OFF	D1	152	Zap 1	OFF
OFF.	Đ#1	153	Zap 2	OFF
)FF	E1	154	Scratch Hi	OFF
)FF	F1 F#1	155	Scratch Lo ScratchDbl	OFF
OFF	G1	156 157	Scratch a	OFF
OFF	G#1	158	Scratch b	OFF
OFF OFF	A1	159	Scratch c	OFF
OFF .	A#1	136	GtCutNois1	OFF
)FF	B1	137	GtCutNois2	OFF
)FF	C2 C#2	143	Orch Hit ImpactHitL	OFF
OFF	D2	145	Rave Hit L	OFF
OFF	D#2	144	ImpactHitR	OFF
OFF OFF	E2	146	Rave Hit R	OFF
OFF	F2	147	Philly Hit	OFF
OFF	F#2	161	Sword Drop	OFF
OFF	G#2	162	BISS	OFF
OFF	A2	163	BOOFN	OFF
OFF	A#2	164	BOOGETA	OFF
OFF OFF	B2 C3	165	CHLACK	OFF
OFF	U3 C#8	167	COUGH	OFF
OFF .	D3	168	ISSH	OFF
OFF	D#3	169	POOM	OFF
	E3	170	Uhhh!	OFF
\Box	F3	171 244	Samurai! Rain	OFF
	F#3	245	Thunder	OFF
	G#3	246	Wind	OFF
OFF	А3	247	Seashore	OFF
OFF	A#3	248	Seashore V	OFF
)FF	B3 C4	249 250	Stream Bubble	OFF
)FF	C#4	251	Bird 1	OFF
OFF OFF	D4	252	Bird 2	OFF
OFF	D#4	253	Kitty	OFF
OFF	E4	254	Dog	OFF
OFF	F4 F#4	173	Monkey 1 Monkey 2	OFF
OFF	G4	172	Growl 1	OFF
)FF	G#4	255	Growl 2	OFF
OFF OFF	A4	256	Callop	OFF
OFF OFF	A#4	257	Laughing	OFF
OFF	B4 C5	258 259	Laughing V Scream	OFF
OFF	C#5		Punch	OFF
OFF	D5	261	Hart Beat	OFF
OFF	D#5	262	Footstep 1	OFF
OFF OFF	E5	263 264	Footstep 2 Applause 1	OFF
OFF	F5 F#5		Applause 1	OFF
OFF	G5	266	Telephone1	OFF
OFF	G#5		Telephone2	OFF
OFF	A5	268	Door Creak	OFF
OFF OFF	A#5 B5	269 270	Door Slam Car Engine	OFF
OFF OFF	C6	271	Car Stop	OFF
OFF	C#6	272	Car Pass	OFF
OFF	D6	273	Car Crash	OFF
OFF	D#6 E6	274 275	GlassBreak Siren	OFF
OFF	F6	276	Train	OFF
OFF OFF	F#6	277	Helicopter	OFF
)FF	G6	278	Gun Shot 1	OFF
)FF	G#6	279	Gun Shot 2	OFF
OFF	A6 A#6	280 281	MachineGun Laser Gun	OFF
OFF	B6	282	Explosion	OFF
OFF OFF	C7	283	HandDrill :	OFF
OFF	C#7	229	Thing	OFF
OFF	D7	230 231	Tri Roll Clicker 1	OFF
OFF	D#7	235	Lore :	OFF
)FF	F7	236	Waterphone	OFF
)FF	F#7	237	Crickets:	OFF
OFF	G7	238	Tron Up ,	OFF
OFF OFF	G#7	239 240	Flute FX Flutter 1 5	OFF
DFF DFF	A7 A#7	241	Harp Up \	OFF
)FF	B7	242	Jung Gliss	OFF
OFF	C8	243	MalletLoop	OFF

Multi	sample	67	G.GuitarLP	136	SlapBass3
*10111	Jampie	68	F.Guitar1	137	SynthBass1
0	A.Piano1	69	F.Gtr1LP	138	SynBass1LP
1	A.Piano1w	70	F.Guitar1V	139	SynthBass2
2	A.Piano1LP	71	F.Guitar2	140	SynBass2LP
3	A.Piano2	72	A.GtrHarm	141	SynthBass3
4	A.Piano2w	73	E.Guitar1	142	RezBass1
		74	E.Guitr1V	143	RezBass2
5	M1Piano				
6	M1 Pianow	75	E.Guitar2	144	RezBass3
7	GrandEP	76	E.Guitar3	145	RezBass3LP
8	E.Piano1	77	MuteGuitar	146	MiniBass
9	E.Piano1w	78	FunkyGtr	147	HouseBass
10	E.Piano1LP	79	FunkyGtrV	148	FMBass
11	E.Piano2	80	E.GtrHarm	149	FMBassLP
12	E.Piano2w	81	E.GtrHramV	150	BassSlide
13	E.Piano2LP	82	DistGuitar	151	StringSlap
14	SoftEP	83	DistGtrLP	152	Kalimba
15	SoftEPLP	84	DistGuitrV	153	MusicBox
16	HardEP	85	OverDrive	154	MusicBoxLP
17	HardEPw	86	OverDrvLP	155	LogDrum
18	HardEPLP	87	OverDrvF4	156	
19	StageEP	88	MuteDstGtr	157	
20	StageEPw	89	MtDstGtrV	158	
				159	
21	PianoPad1	90 91	DstGtrHarm PowerChord	160	SynMallet Vibe
22	PianoPad2				
23	Clav	92	PowerChdV	161	Vibew
24	Clavw	93	OverDvChrd	162	
25	ClavLP	94	PowerGtr	163	Glocken1
26	Harpsicord	95	PowerGtrV	164	
27	Harpsicdw	96	GtScratch	165	BrightBell .
28	HarpsicdLP	97	GtrSlide	166	B.BellLP
29	PercOrgan1	98	GtCutNois1	167	MetalBell
30	PercOrg1LP	99	GtCutNois2	168	M.BellLP
31	PercOrgan2	100	Chic1	169	Gamelan
32	PercOrg2LP	101	Chic2	170	Pole
33	Organ1	102	Stick	171	PoleLP
34	Organ1LP	103	Sitar1	172	
35	Organ2	104	Sitar2	173	ChurchBell
	Organ2LP	105	Sitar2LP	174	·
36 37		106	Tambura	175	
	Organ3		TamburaLP	176	
38	Organ4	107			
39	Organ5	108	Santur	177	GongLP
40	Organ6	109	Bouzouki	178	
41	Organ6LP	110	BouzoukiLP	179	
42	VoxOrgan1	111	Mandolin	180	Flute
43	VoxOrgan2 -	112	Banjo	181	TinFlute
44	VoxOrgan3	113	Shamisen	182	
45	RotaryOrg1	114	Koto	183	PanFlute
46	Rotary1LP	115	Uood	184	PanFluteLP
47	RotaryOrg2	116	Harp	185	Shakuhachi
48	SuperBX-3	117	Ukulele	186	ShakhachiV
49	SuperBX3LP	118	MandlinTrm	187	
50	Dist.Organ	119	A.Bass1	188	
51	Dist.OrgLP	120	A.Bass1LP	189	
52	PipeOrgan1	121	A.Bass2	190	
		122	A.Bass2LP	191	Oboe
53	PipeOrg1LP		1	192	
54	PipeOrgan2	123	E.Bass1		Englishmin
55	PipeOrg2LP	124	E.Bass1LP	193	
56	PipeOrgan3	125	E.Bass2	194	
57_	PipeOrg3LP	126	E.Bass2LP	195	
58	CheeseOrg	127	PickBass1	196	
59	Musette	128	PicBass1LP	197	
60	MusetteV	129	PickBass2	198	
61	Bandneon	130	PickBass3	199	Bari.SaxLP
62	BandneonLP	131	Fretless	200	TenorSax
63	Accordion	132	FretlessLP	201	T.SaxLP
	1	1 Tab	1	1	144 6

133 SlapBass1

134 SlapBass2

135 SipBass2LP

64 AcordionLP

65 Harmonica

66 G.Guitar

202 AltoSax

203 A.SaxLP

204 SopranoSax

205	S.SaxLP	27		JetstrLPNT
206	BagPipe	27	75	Brush\$wirl
207	Tuba	27	76	Thing
208	TubaLP	27	_	ThingNT
209	Horn	27		MarcTree1
210	BrightHorn	27	-	MrcTree1NT
211	FlugelHorn	28		MarcTree1V
212	Trombone1	28		MrcTre1VNT
213	Trombone2	28	_	MarcTree2
214	Trumpet	28	33	MrcTree2NT
215	TrumpetLP	28	34	MarcTree2V
216	MuteTP	28	35	MrcTre2VNT
217	MuteTPLP	28		TriRoll
218	Brass1	28		TriRollNT
219	Brass1LP	28		TriRollV
		28		TriRollVNT
220	Brass2			
221	Brass2LP	29		Clicker
222	BrassFall	29		ClickerNT
223	StringEns.	29		CastRoll
224	StrEns.V1	29	3	CastRollNT
225	StrEns.V2	29	94	Lore
226	Str£ns.V3	29		LoreNT
227	AnaStrings	29		Waterphone
	AnaStr.V1	29		Crickets1
			_	
229	AnaStr.V2	29		Crickts1NT
230	AnaStr.V3		99	Crickets2
231	PWM		6	Crickts2NT
232	Violin	30)1	MagicBell
233	Viola	30)2	TronUp
234	Cello	30		TronUpLP
235	CelloLP	30		TronUpNT
236	CBs.&Cello	30		FluteFX
				FluteFXLP
237	Pizzicato)6	
238	Voice)7	Flutter
239	Choir	30		FlutterLP
240	SoftChoir)9	HarpUp
241	AirVox	31		HarpUpLP
242	DooVoice	31	1	JungGliss
243	DooVoiceLP		12	JungGlisLP
244	SynVox		13	MalletLoop
245	SynVoxLP		14	MalletLpNT
	,		15	
246	GlassVox			Boogeta
247	WhitePad	1	16	Sporing
248	EtherBell		17	Rattle
249	E.BellLP		8	Kava
250	Ghostly	37	9	Fever1
251	MegaPad		20	Fever2
252	SynthPad		21	Scratchar
253	SynthPadA		22	Zappers1
	17		23	Zappers2
254	Spectrum1	,		
255	Spectrum2		24	Bugs
256	WaveSweep		25	Surfy
257	WaveSweepA	I	26	SleighBell
258	WaveSweepB	32	27	Sagatty
259	MouthHarp1	3:	28	SagattyNT
260	MouthHrp1A		29	ElecBeat
261	MouthHarp2		30	Idling
262	MouthHrp2A		31	EthnicBeat
1			32	Tap-A
263	MouthHarps			
264	ChromRes		33	Тар-В
265	WahFuzz	; <u> </u>	34	Тар-С
266	Applause	3	35	Mini1a
267	Stadium	3	36	Digital1
268	BrushNoise		37	VS102
269	BruNoiseNT		38	VS48
270	WhiteNoise		39	VS52
			40	VS58
271	WhiteNoiNT			
272	Jetstar		41	VS71
273	JetstarLP] [34	42	VS72

Appendi	çes			
	50		(12)	MuteConga
343 VS8			\$12 \$13	Baya
	-35			Tabla1
	VGSOrgan1			Tabla2
	VGSOrgan2	L	416	Diembe
	VGSE.P.		417	Maracas
349 Sav			418	SynMaracas
<u> </u>	uare		419	SynMarcsNT
	mp	·	420	Cabasa
	lse25%	-	421	CabasaNT
44-	lse8%	-	422	Sagat
1000	lse4%	-	423	SagatNT
	nSine		424	Tambourine
356 Sir		_ -	425	JingleBell
	chHit		426	MuteTriang
	pactHitL	_ [427	OpenTriang
	pactHitR	- [-	428	Agogo
360 Ra	veHitL	-	429	CowBell
361 Ra	veHitR		430	Timbale
362 Ph	illyHit		431	WoodBlock1
363 Po	werSnare		432	WoodBlock2
364 Sy	nSnare	Ī	433	WoodBlock3
365 Sr	areRI/Ht		434	Claves
366 Fis	it		435	SynClaves
367 St	ickHit		436	Castanet
368 Sic	deStick		437	CastanetNT
369 Si	deStikNT		438	CastanetV
370 Ti	mbleSide	L	439	FingerSnap
1 1	mblSidNT	Ĺ	440	FingSnapNT
372 In	dust	L	441	Snap
	ikoHit	L	442	SnapNT
	/nRim	L	443	Drop
	/nRimNT	l	444	CorkPop
I	lick		445	Vibraslap
	rashCym		446	Guiro
	rashCymLP	▎▕	447	GuiroLP
	rashLPNT	ļ	448	HandClap
	hinaCym	1 }	449 450	HandClapNT GunShot1
	hinaCymLP	∤ ⊦	450	GlassBreak
	olashCym rchCrash	}	452	MetalHit
		┨	453	Pull1
	iteHH	,	454	Pull1NT
T	penHH	∤ 	455	Pull2
	loseSynHH	┨	456	Pull2NT
3 " " . l	penSynHH	┥┟	457	HandDrill
	ellRide	1 1	458	HandDriINT
	ingRide	1 1	459	Zap1
	orchB.Drm	1 1	460	Zap2
	om1	1 1	461	FretZap1
	om2Hi	1	462	FretZap2
	om2Lo	1	463	ScratchHi
	roccesTom	1 1	464	
	DilDrum	1 1	465	
	iynTom1	1	466	ScratcLoNT
	ynTom2	1	467	
	/ocalSnare	٦	468	ScratDbINT
	olidHit		469	Scratcha
401 5	teelDrum	۱ ۱	470	
	steelDrmLP		471	
	Timapni]	472	
404	impaniLP]	473	
	Taiko]	474	
	Tsuzumi]	475	
	LowBongo]	476	
	SlapBongo]	477	
	OpenConga		478	
	SlapConga		479	
411	PalmConga	ل	480	Growl1NT

412	MuteConga	٢	481	Monkey1
413	Baya	╌	482	Monkey2
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415	Tabla2	ŀ	484	Thunder
416	Djembe	Ī	485	Wind
417	Maracas	[486	Seashore
418	SynMaracas	1	487	SeashoreV
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427	OpenTriang		496	Laughing
428	Agogo			LaughingV
429	CowBell		498	Scream
430	Timbale		499	Punch
431	WoodBlock1	1	500	HartBeat Footstep1
432	WoodBlock2 WoodBlock3		502	Footstep2
434			503	Telephone1
435	SynClaves		504	Telephone2
436			505	DoorCreak
437	CastanetNT		506	DoorSlam
438	CastanetV		507	
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552	Clav 2 w
553	Clav 2 LP
554	Organ 7
555	Organ 7 LP
556	Organ 8
557	Organ 8 LP
558	DWGS EP 2
559	DWGS EP 3
560	DWGS EP 4
561	DWGS EP 5
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		3	CrispKick	72	2	SolidHit
		4	PunchKick	73	3	BrushTom
		5	DryKick	74	1	BrushTomV
		6	RealKick	75	5	Timpani
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) V.	26	RockSnare	9.		OpenCuica
ı	M V	27	GatedSnare	9		Maracas
		28	PowerSnare	9		Cabasa
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	ë K	34	VocalSnr2	10)3	MarcTree2
		35	Fist	10)4	MuteTriang
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64 Tom2HiV 65 Tom2Lo

66 Tom2LoV

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139	Chic2	L	208	MetalBell
140	BassSlide	l	209	Gamelan1
141	StringSlap		210	Gamelan2
142	OrchHit	Ī	211	Pole
143	ImpactHitL	ı	212	FingCymbal
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	RaveHitR	ŀ	215	Tubular3
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147	PhillyHit	Ļ	216	ChurchBell
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153	Zap2		222	MouthHrp2A
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156	ScratchDbl		225	Stadium
157	Scratcha		226	BrushNoise
158	Scratchb		227	WhiteNoise
159	Scratchc		228	Jetstar
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167	COUGH		236	Waterphone
168	ISSH	}	237	Crickets
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171	Samurai!	1	240	Flutter
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176	Rev.ConBD		245	Thunder
177	Rev.Snare1		246	Wind
178	Rev.Snare2	1	247	Seashore
179	Rev.Snare3	1	248	SeashoreV
180	Rev.Cymbal	1	249	Stream
181	Rev.Tom1	1	250	Bubble
		-	251	Bird1
182	Rev.Tom2	4		
183	Kalimba1	4	252	Bird2
184	Kalimba2	4	253	Kitty
185	MusicBox1	1	254	Dog
186	MusicBox2]	255	Growl2
187	LogDrum1	1	256	Gallop
188	LogDrum2	1	257	Laughing
189	LogDrum3	1	258	LaughingV
190	LogDrum4	1	259	Scream
191	LogDrum5	1	260	Punch
		-		HartBeat
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193	Marimba2	1	262	Footstep1
194	Marimba3]	263	Footstep2
195	Marimba4		264	Applause1
196	Xylofon1	1	265	Applause2
197	Xylofon2	1	266	Telephone1
	Xylofon3	1	267	Telephone2
1 102	Vibe1	4	268	DoorCreak
198		4	269	DoorSlam
199		1	1/64	LUDOLNAM
199 200	Vibe2	4	_	
199 200 201	Vibe2 Vibe3		270	CarEngine
199 200 201 202	Vibe2 Vibe3 Vibe4		270 271	CarEngine CarStop
199 200 201	Vibe2 Vibe3		270	CarEngine

133 MetalHitLo

134 GtScratch

135 GtrSlide

274	GlassBreak
275	Siren
276	Train
277	Helicopter
278	GunShot1
279	GunShot2
280	MachineGun
281	LaserGun
282	Explosion
283	HandDrill
284	Metronome1
285	Metronome2
286	Thick Kick
287	Tight Kick
288	BigRock SD
289	FullRoomSD
290	StickHit 2
291	SideStick2
292	CrashCym 2
293	Close HH 2
294	Pedal HH 2
295	Open HH 2
296	OpenCongaH
297	OpenCongaL
298	MtSlpConga
299	Maracas 2
300	Tambourin2
301	SleighBell
302	Agogo 2
303	Castanet S

*The sounds processed by INFINITYTM.



pendices

Troubleshooting

Nothing appears in the LCD when I press the POWER switch!

Is the AC/AC power supply connected?

No sound!

- Are the amp, mixer, and/or headphones connected correctly?
 (Can you hear the demo playback? If you can, connections are correct.)
- Is the power of your amp and mixer turned on, and are they set correctly?
- Is the [VOLUME] knob of the N1R raised?
- Are you playing notes which do not produce sound due to split settings?
 (Combination p.44)
- If the single-channel layer/split function is on and the Lower part produces no sound, are you receiving data on the MIDI channel of the Upper part? Also, check whether the Global mode <Single-channel Layer/Split> setting is on (p.77).

Notes are stuck!

Is the arpeggiator <Latch/Key Sync> set to LATCH or L&K.S?
 (Try setting this parameter OFF, or stopping the arpeggiator.) (p.15, p.41)

Sound or operation is not what I edited!

- Did you execute the Write operation after editing?
 (p.35)
 If you used the realtime controllers to edit, you must write the performance. (p.23)
- Was the program sound selected by a performance or combination sound edited subsequently?

Can't control via MIDI!

Are the MIDI cables or special cable connected correctly?

When playing the N1R from an external device

- Have you made settings so that MIDI data is being received on the channel which the transmitting device is sending? (p.71)
- Is the Global mode <MIDI Channel To Port> parameter set to the channel you wish to use (A or B)?
 (p.78)
- Is the Global mode <MIDI Filter> set appropriately? (p.78)
- If you are playing a combination sound, has the Combination Edit mode <Receive Note On> parameter been turned OFF? (p.44)
 Are any other combination sound parameters set incorrectly?

Can't control or hear when connected to a computer!

- Is the special cable connected correctly?
- Is the Global mode <BPS Select> setting appropriate for your computer? (p.7, p.8, p.76)
- On your computer, have you specified the MIDI port of the MIDI interface to which the N1R is connected, or the port of the Korg MIDI Driver?
- Are the amp, mixer and/or headphones connected correctly?

Can't write program sounds etc.!

 Is the Global mode <Write Protect> setting turned on? (p.35)

The drums I specified do not sound when I play the keyboard!

- Has the Global mode <Master Key Shift> been set to other than 00? (p.76)
- Has the Program Edit mode <Octave Select> been set to other than 8'? (p.47)

Can't use MIDI program changes to select program sounds or combination sounds!

- Has the Global mode <MIDI Filter> PRG item been set to X? (p.78)
- Does the bank of the sound (program or combination) you are attempting to select match the MIDI bank select message you transmitted?

Can't select VDF2 or VDA2 parameters!

 Make sure that the <Oscillator Mode> of the currently selected program is set to DOUBLE. (p.46)

GM compatible song data does not playback correctly!

- Is the song data GM compatible?
- Has the Multi Part been initialized for GM? (p.32, p.71)
- Are the Global mode settings correct?
- If the volume or pan are incorrect, are the filters of the Korg MIDI Driver blocking this data?

Arpeggiator does not play correctly!

- If <Clock Source> in the Global mode is set either to MIDI or PCIF, are MIDI clock messages being properly transmitted from the external device?
- Is the clock source set to "Internal"?

[64-voice Music Synthesizer] N1R

MIDI Implementation Chart

JULY 1998 version: 1.0

F	-unction	Transmitted	Recognized	Remarks
	Default	1–16	1–16	Memorized
Basic Channel	Changed	1–16	1–16	
	Default		3	
Mode	Messages	x	x	
	Altered	******		
Note		х	0-127	
Number:	True Voice	******	0–127	
	Note On	×	O 9n, V=1-127	
Velocity	Note Off	х	X	
	Polyphonic (Key)	х	0	
Aftertouch	Monophonic (Channel)	x	0	
Pitch Bend		X	0	
	0, 32	0	0	Bank Select (MSB, LSB)
	1, 5, 7	0	0	Modulation, Portamento Time, Volume
	8, 10, 11, 12 6, 38	O X	0 0	Balance, Panpot, Expression, Effect Control 1 Data Entry (MSB, LSB)
	16, 17, 65	ô	0	General Purpose Controller 1, 2, Portamento
	64, 66, 67	×	0	Damper Pedal (Hold 1), Sostenuto, Soft
Control	71, 72, 73, 75	Ô	0	Harmonic, EG Times (Release, Attack, Decay)
Change	74, 84	x	0	Brightness, Portamento Control
	91, 93	0	. 0	C send, D send
	92, 95	×	0	Effect Switch 1, 2
	96, 97	×	0	Data Increment, Decrement
	98, 99, 100, 101	×	0	NRPN (LSB, MSB), RPN (LSB, MSB)
	120, 121	x	0	All Sound Off, Reset All Controllers
Program		O 0 – 127	O 0 – 127	
Change	Variable Range	*****	0 – 127	
System Exclusiv	e	0	0	
	Song Position	×	Х	
System Common	Song Select	×	x	
	Tune	×	X	
System	Clock	0	0	*1
Real Time	Command	0	0	*1
	Local On/Off	×	0	
Aux	All Notes Off	x	0	
Messages	Active Sense	0	0	
	Reset	×	×	

Notes

*1: When Clock Source is Internal, transmitted and not received. (However, Continue is not transmitted). In the case of MIDI or PCIF, the opposite applies.

Mode 1:OMNI ON, POLY Mode 3:OMNI OFF, POLY Mode 2:OMNI ON, MONO Mode 4:OMNI OFF, MONO

O: Yes X: No

Consult your local Korg distributor for more infomation on MIDI IMPLEMENTATION.

Appendice

Specifications

·	N1R
Туре	Al-squared synthesis system (full digital processing)
Tone generator section	64 voices, 64 oscillators (single mode) 32 voices, 64 oscillators (double mode)
Waveform memory	PCM 18M Byte
Effect section	Two digital multi-effect units
Number of effects	48 effects
Number of programs	1269 (100 user, 1169 preset)
Number of combinations	402 (100 user, 302 preset)
Number of drumkits	39 (2 user, 37 preset)
Arpeggiator	20 types, 40–240 (BPM)
Outputs	1/L/MONO, 2/R, 3, 4
Headphone jack	Stereo phone jack
MIDI connectors	IN, OUT, THRU
Communication connector	TO HOST
Display	144 × 40 full dot LCD (with two-color backlight)
Power supply	AC 9V AC/AC power supply
Power consumption	AC 9V 1.7A (Max)
Dimensions	482(W) × 263.4(D) × 45(H) mm (19" × 10.4" × 1.8")
Weight	2.5kg (5.5 lbs.)
Included items	AC/AC power supply

Specifications and appearance are subject to change without notice for product improvement.

Options

AG-001B IBM-PC connection kit (connection cable, "Korg MIDI Driver" software)
AG-002B Macintosh connection kit (connection cable, "Korg MIDI Driver" software)
MIDI cables

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