

SonicCell

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About MARNING and MCAUTION Notices

	⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
	⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.
4		* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

\triangle	The Δ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
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The \simples symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.

The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠WARNING

 Before using this unit, make sure to read the instructions below, and the Owner's Manual.



 Do not open or perform any internal modifications on the unit or its AC adaptor. (The only exception would be where this manual provides specific instructions which should be followed in order to put in place user-installable options; see p. 47, p. 50.)

.....

Do not attempt to repair the unit, or replace parts
within it (except when this manual provides specific
instructions directing you to do so). Refer all
servicing to your retailer, the nearest Roland Service
Center, or an authorized Roland distributor, as listed on
the "Information" page.





 Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are



- Humid; or are
- Exposed to rain; or are
- Dusty; or are
- Subject to high levels of vibration.
- This unit should be used only with a BKT-S that is recommended by Roland (p. 30).



• When using the unit with the BKT-S and PDS-10 recommended by Roland, the rack or stand must be carefully placed so it is level and sure to remain stable. If not using a rack or stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

∴ WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.
- Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.



- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!
- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.



 Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.



♠WARNING

 Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:



- The AC adaptor, the power-supply cord, or the plug has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

 In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.



 Protect the unit from strong impact. (Do not drop it!)



 Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/ amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.



 Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.



 Always turn the unit off and unplug the AC adaptor before attempting installation of the circuit board (model no. SRX series; p. 19).



 DO NOT play a CD-ROM disc on a conventional audio CD player. The resulting sound may be of a level that could cause permanent hearing loss.
 Damage to speakers or other system components may result.



 The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.



 Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.



A CAUTION

 At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.



 Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



Never climb on top of, nor place heavy objects on the unit.



 Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.



 Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.



 Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (p. 19).



 Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.



 Install only the specified circuit board(s) (model no. SRX series). Remove only the specified screws (p. 47, p. 50).



 Keep any screws you may remove and the included wrench in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.



 Always turn the phantom power off when connecting any device other than condenser microphones that require phantom power. You risk causing damage if you mistakenly supply phantom power to dynamic microphones, audio playback devices, or other devices that don't require such power. Be sure to check the specifications of any microphone you intend to use by referring to the manual that came with it.



(This instrument's phantom power: 48 V DC, 10 mA Max)

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 3-4, please read and observe the following:

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/ or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes.
 Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
 - You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, nonabrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation

Repairs and Data

Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs.
 Important data should always be backed up on an USB memory, or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data.
 However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data.

Additional Precautions

- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of loosing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory on an USB memory.
- Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory or on an USB memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- A small amount of noise may be heard from the display during normal operation.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit.
 The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.
- Unauthorized duplication, reproduction, hiring, and lending prohibited.

Handling CD-ROMs

 Avoid touching or scratching the shiny underside (encoded surface) of the disc. Damaged or dirty CD-ROM discs may not be read properly. Keep your discs clean using a commercially available CD cleaner.

Copyright

- Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- This product can be used to record or duplicate audio or visual material without being limited by certain technological copy-protection measures. This is due to the fact that this product is intended to be used for the purpose of producing original music or video material, and is therefore designed so that material that does not infringe copyrights belonging to others (for example, your own original works) can be recorded or duplicated freely.
- Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of thirdparty copyrights arising through your use of this unit.
- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- * The screen shots in this document are used in compliance with the guidelines of the Microsoft Corporation.
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- * MatrixQuest™ 2007 TEPCO UQUEST, LTD.
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 UQUEST, LTD.
- SONAR is a registered trademark of Twelve Tone Systems, Inc.
- MPEG Layer-3 audio compression technology is licensed from Fraunhofer IIS Corporation and THOMSON Multimedia Corporation.

Contents

USING THE UNIT SAFELY	3
IMPORTANT NOTES	5
Main Features	12
User Guide	13
Panel Descriptions	
Top Panel	
Rear and Front Panels	16
Turning the Power On/Off	18
Basic Operation of the SonicCell	20
About the display and [CURSOR/VALUE]	
Using the SonicCell as a MIDI Sound Module	22
Playing the SonicCell in Performance Mode	20
Playing the SonicCell in Patch Mode	
Modifying the Sound (editing a patch)	
Using the Editor and Librarian	27
Playing Songs (Portable Backing Machine)	28
Playback Procedure	28
Creating a Playlist	
Performing via MIDI while a Song Plays	30
Connecting the SonicCell to Your Computer	
Specifications of the dedicated plug-in version of the editor	
Windows XP users	
Windows Settings	
Installing SonicCell Editor	
Windows Vista Users	
Installing the Driver	
Windows Settings	
Mac OS X Users	
Installing the Driver	
Installing SonicCell Editor	
Settings	38
Recording a Mic or Guitar(USB/Audio Interface)	40
Connecting a Mic	41

Contents

Connecting a Guitar	41
Using the Line Input	
Adjusting the Input Volume	
Input Effect Settings	43
Installing the Wave Expansion Board	46
Cautions When Installing an Wave Expansion Board	46
How to Install a Wave Expansion Board	47
Checking the Installed Wave Expansion Boards	48
Installation de la carte d'extension Wave	
(French language for Canadian Safety Standard)	49
Precautions a prendre lors de l'installation d'une carte d'expansion Wave.	49
Installation d'une carte d'expansion Wave	50
Verification des cartes d'extension audio apres installation	51
AAIDI Carrad AA adrida	E 2
MIDI Sound Module	<u>53</u>
Overview	54
Performance Mode and Patch Mode	54
How a Performance is structured	
How a Patch is structured	
How a Rhythm Set is structured	
Calculating the Number of Voices Being Used	
About the Effects Effects in Performance Mode	
Effects in Patch Mode	
About Memory	
Temporary Memory	
Rewritable Memory	57
Non-Rewritable memory	57
Using the SonicCell in Performance Mode	58
Viewing the MIDI INST (MIDI sound module) screen	58
Viewing the menu screen (Performance Menu screen)	59
Switching the sound mode (Sound Mode screen)	
Specifying the recommended performance tempo (Performance General screen)	60
MIDI-related settings (Perform MIDI Filter screen)	60
Viewing the part settings (Part View screen)	
If the patch type is Patch	
If the patch type is Rhythm Set	
Selecting patches from a patch list by category (Patch List (Ctg) screen)	
Selecting patches from a patch list by group (Patch List (Grp) screen)	
Selecting a rhythm set from a list (Rhythm Set List screen)	0/

Edi	iting parts (Part Edit screen)	
	Scale Tune settings (Scale Tune screen)	
	und Control Initialize	
	rformance Initialize	
	rformance Write	
Edi	iting effects	
	Selecting the item to edit (Effect Routing screen)	
	Editing the multi-effects related settings (MFX1–3/MFX1–3 Output screens)	
	Chorus-related settings (Chorus/Chorus Output screen)	
	Reverb-related settings (Reverb/Reverb Output screen)	
	Changing how the multi-effects are combined (MFX Structure screen)	
	Using MIDI to control the multi-effects (MFX1-3 Control screens)	
	-	
Using t	he SonicCell in Patch Mode	82
Vie	ewing the Patch Play screen	82
	If the patch type is Patch	
	If the patch type is Rhythm Set	83
Vie	ewing the menu screen (Patch Menu screen)	84
Sw	ritching the sound mode (Sound Mode screen)	84
Se	lecting patches from a patch list	85
	Selecting patches from a patch list by category (Patch List (Ctg) screen)	85
	Selecting patches from a patch list by group (Patch List (Grp) screen)	
	Selecting a rhythm set from a list (Rhythm Set List screen)	87
Edi	iting patches (Patch Edit screen)	88
	Overall settings for the entire patch (Patch General screen)	
	Selecting how tones are combined (Patch Structure screen)	
	Settings for matrix control (Patch Mtrx Ctrl1-4 screens)	
	Waveform-related settings (Patch WG/Patch Pitch Env screen)	
	TVF settings (Patch TVF/Patch TVF Env screen)	
	TVA settings (Patch TVA/Patch TVA Env screen)	
	Patch/Tone output-related settings (Patch Output screen)	
	LFO settings (Patch LFO1, 2/Patch Step LFO screen)	
	Controller-related settings (Patch Ctrl screen)	
_		
	ne Copy	
	tch Initialize	
	tch Write	
Edi	iting rhythm sets (Rhythm Edit screen)	
	Edits overall settings for the entire rhythm set (Rhythm General screen)	
	Waveform-related settings (Rhythm Wave screen)	
	Specifying how a rhythm tone will be heard (Rhythm WMT screen)	
	Pitch-related rhythm tone settings (Rhythm Pitch/Rhythm Pch Env screen)	
	TVF settings (Rhythm TVF/Rhythm TVF Env screen)	
	1 7 7 3 5 HINGS (KITYHIII 1 7 7 7 KITYHIII 1 7 7 LIIV 30 GGH)	I ∠/

Contents

Output-related settings for the rhythm set and rhythm tones (Rhythm Output screer	ı) 129
Rhythm Tone Copy	130
Rhythm Tone Initialize	130
Rhythm Set Initialize	130
Rhythm Set Write	131
Editing the effects (Patch/Rhythm Set)	
Selecting the item to edit (Effect Routing screen)	
Multi-effect settings (MFX/MFX Output screen)	
Reverb settings (Reverb/Reverb Output screens)	
Controlling the multi-effects via MIDI (MFX Control screen)	
Audio Connections	139
Using the SonicCell with your computer (USB AUDIO)	 140
Basic operation	140
Accessing the Menu screen	141
Inputting sound from an external device (INPUT)	142
Basic operation	142
Accessing the Menu screen	143
Input/output and effect settings (In/Out Routing)	144
Selecting the item to edit (In/Out Routing screen)	147
Input effect settings (Input Effect/Input FX Output screen)	
Selecting the signal sent to your computer (To Computer screen)	
Specifies how MFX3 will be used (MFX3 Location screen)	
Saving the MFX3 settings	
System Wille	130
Using the plug-in version of SonicCell Editor	151
SONAR LE	152
SONAR 6.2	157
Cubase 4	160
Logic Pro 7.2	163

SMF/Audio File Player	167
Playing back songs	168
SMF/audio files that can be played	
Song playback	
Selecting and playing a song from within a playlist	
Playlist Write	173
Changing the song order	173
Deleting a song from the playlist	173
Other Settings	1 <i>7</i> 5
System Settings	176
General settings (System screen)	176
Patch Scale Tune settings	178
Settings for the Preview function (System Preview screen)	
Settings for Control-related functions (System Control screen)	179
MIDI-related settings (System MIDI screen)	180
Viewing information about SonicCell (System SRX Info/System Version Info screens)	180
Editing the mastering effect (Mastering Effect screen)	181
Utility functions	182
Backing up user data (User Backup)	
Restoring backed-up data into the SonicCell (User Restore)	
Returning to the factory settings (Factory Reset)	
Initializing USB memory (USB Memory Format)	
Adjusting the overall tone of the audio output (Master Equ	
Appendices	185
Troubleshooting	186
Error Messages	
Effects List	
Performance List	
Patch List	
Rhythm Set List	
Waveform List	
MIDI Implementation	
Specifications	
Index	279

Main Features

Superior Desktop Synthesizer

- 128-voice sound module with new sound set featuring true-to-life instruments
- Two SRX sound expansion slots for sound set personalization



USB Audio/MIDI Interface

- USB audio interface functionality w/MIC and GUITAR (Hi-Z) inputs
- Record using the professional on-board DSP effects
- PC/Mac VSTi/AU Editor and Cakewalk SONAR LE software included



Portable Backing Machine

- SMF, WAV, AIFF and MP3 playback capability via optional USBmemory is perfect for the gig
- Build playlists of any file-type combination using the playlist editor



User Guide

Panel Descriptions

Top Panel

Display

Various information is shown here according to your operations.

SRX Slot

You can install SRX series wave expansion boards here.

- Installation → p. 46
- Selecting a wave → p. 98

USB MEMORY ACCESS Indicator

This will light when you're playing song data from USB memory that's connected to the SonicCell, or when you're saving data to USB memory.

MIDI MESSAGE Indicator

MIDI

This will light when MIDI messages are being received from a MIDI device connected to the MIDI IN connector.

HICD

This will light when MIDI messages are being received from the connected computer.



SMF/AUDIO PLAYER Buttons

Press these buttons when you're using the SonicCell as an SMF/audio player.

- Playing a song \rightarrow p. 28, p. 168
- Creating a playlist → p. 30

►/II (Play/Pause) Button

Plays/pauses the song data.

MENU Button

You can press this button to switch to a menu screen for the current mode or editing screen.

 \bullet The menu screen of each main mode \to p. 59, p. 68, p. 76, p. 84, p. 88, p. 117, p. 133, p. 141, p. 143, p. 146, p. 169, p. 171, p. 181

EXIT Button

Press this button to cancel an operation.

MIDI INST Button

Press this button when you want to use the SonicCell as a MIDI sound module.

- MIDI connections \rightarrow p. 22, p. 54
- Performance \rightarrow p. 22, p. 58
- Patch → p. 23, p. 82

USB AUDIO Button

Press this button when you want to apply an effect to the audio signal from the connected computer, or to make output-related settings.

• USB AUDIO \rightarrow p. 140

INPUT Button

Press this button when you want to apply an effect to the signal from a device connected to the INPUT jack, or to make output-related settings.

- Recording a mic or guitar → p. 40
- Inputting sound from an external device → p.142

PART VIEW Button

If the MIDI sound module is in Performance mode (p. 54), press this button when you want to make settings for each part. By pressing this button together with the [MIDI INST] button, you can switch between Performance mode and Patch mode.

EFFECTS Button

Press this button when you want to make effect-related settings.

- Applying effects to a performance → p. 78
- Applying effects to a patch → p. 26, p. 132
- Applying effects to the signal from the Input jack → p. 43

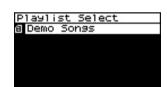
CURSOR/VALUE Dial

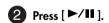
Use this to move the cursor, select a parameter, or edit a value. Press the dial to confirm the value.

• How to use [CURSOR/VALUE] \rightarrow p. 20

■ Playing the Demo Songs

Press [SMF/AUDIO PLAYER].





Playback will start from the first song.



No.	Title	Composer	Copyright
1	Welcome Back	Yo Sakaue	© 2007 Roland Corporation
2	Mach Juan	Adrian Scott	© 2007 Roland Corporation
3	Big & Bold	Scott Tibbs	© 2007 Roland Corporation
4	Human Sonic	YUHKI	© 2007 Roland Corporation

- * If USB memory containing song file is connected, select [Demo Songs] in the playlist list screen. For details on playing from a playlist, refer to p. 28.
- * All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws.
- * No data for the music that is played will be output from MIDI OUT.

Rear and Front Panels

USB COMPUTER Connector

Use a USB cable to connect your computer here. This connection can handle both MIDI and audio.

Using the SonicCell with your computer
 → p.31, p.135

USB MEMORY Connector

You can connect USB memory here and use the SonicCell to play back files (songs) that have been stored on USB memory.

• Playing back songs → p.28, p.167

POWER Switch

Turns the power on/off (p. 18).

DC IN Jack

Connect the included AC adaptor here (p. 18). Do not use any AC adaptor other than the included one; doing so may cause malfunctions.

MIDI IN/OUT Connectors

You can connect these to other MIDI equipment to send and receive MIDI messages.

 Using the SonicCell as a MIDI sound module → p. 22, p. 54

Rear Panel







Security Slot



http://www.kensington.com

PHONES Jack

This is a stereo mini-type jack for connecting headphones. This jack will output the sound received from the INPUT jack mixed with the sound from the USB-connected computer and the sound from the SonicCell itself.

Connecting headphones will not mute the sound from the OUTPUT jack.

Front Panel



SAMPLING RATE Switch

This specifies the sampling rate used to record or play back audio data. After changing this setting, you'll need to turn the SonicCell's power off, then on again. If you're using software, you'll also need to restart your software. Be sure to set the [SAMPLING RATE] switch to match the sampling rate setting of the software you're using.

MASTER VOLUME Dial

This adjusts the volume of the signals output from the PHONES jack and OUTPUT jacks (p. 19).

INPUT/OUTPUT Jacks

These jacks input or output audio signals.

INPUT LEVEL Knob

Adjusts the input level of the signal received at INPUT.

Adjusting the input level → p. 42

LINE (R) Jack

When using LINE (L) and LINE (R) for stereo input, input the signal for the R channel here.

* If you're inputting in mono, connect it to the LINE (L) jack.

You can't use this jack if the INPUT gain select switch is not at the LINE (L) position.

• Recording a mic or guitar \rightarrow p. 40, 142

OUTPUT Jacks (R, L/MONO)

These jacks output the audio signal. If you're outputting in mono, connect to the L/MONO jack.

These jacks output the combined signals of the sound received from INPUT, the sound from the USB-connected computer, and the sound from the SonicCell itself.

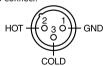


L/GUITAR/MIC Jack (combo input jack)

You can connect either a mic, guitar, or line equipment here.

This instrument is equipped with balanced (XLR/TRS) type jacks. Wiring diagrams for these jacks are shown below. Make connections after first checking the wiring diagrams of other equipment you intend to connect.





INPUT SOURCE Switch

Set this as appropriate for the device you've connected to the LINE (L) jack.

If you've connected your source to the LINE (R) jack, you must set this switch to LINE (L).

LINE (L):

Connect a line-level device such as an audio device (e.g., CD player) or keyboard.

GUITAR (Hi-Z):

Connect an electric guitar that's not being sent through an effects processor (high-impedance connection).

MIC:

Connect a mic.

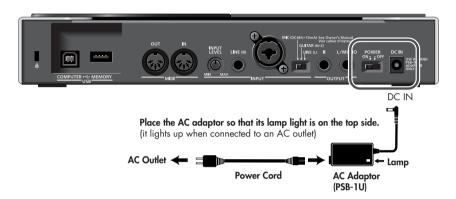
• Recording a mic or guitar → p. 40, 142

Switch		Plug/connector accepted	Nominal input level
LINE		1/4" phone plug (unbalanced)	-30 – -10 dBu
GUITAR		1/4" phone plug (unbalanced) (High impedance supported)	-30 – -10 dBu
MIC XLR connector * Switch OFF "Phantom Power" in the INPL Condenser XLR connector (48 V phantom power support Connecting a phantom-powered condenser		1/4" phone plug (balanced or unbalanced), XLR connector * Switch OFF "Phantom Power" in the INPUT screen.	-50 – -30 dBu
		XLR connector (48 V phantom power supported) Connecting a phantom-powered condenser mic →In the INPUT screen, turn "Phantom Power" on (p.142)	

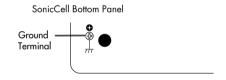
Turning the Power On/Off

■ Connecting the AC Adaptor

- Make sure that the [POWER] switch is off.
- Connect the included power cord to the included AC adaptor.
- 3 Connect the AC adaptor to the SonicCell's DC IN connector, and plug the power cord into an AC outlet.



Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects, such as guitars. This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal (see figure) with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.



Unsuitable places for connection

- Water pipes (may result in shock or electrocution)
- Gas pipes (may result in fire or explosion)
- Telephone-line ground or lightning rod (may be dangerous in the event of lightning)
- * When turning the unit upside-down, get a bunch of newspapers or magazines, and place them under the four corners or at both ends to prevent damage to the buttons and controls. Also, you should try to orient the unit so no buttons or controls get damaged.
- * When turning the unit upside-down, handle with care to avoid dropping it, or allowing it to fall or tip over.

■ Turning the Power On

A NOTE

Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

- 1 Minimize the volume of the SonicCell and of your connected audio equipment.
- 2 Turn on the [POWER] switch.
 - * This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.
- 3 Use the [MASTER VOLUME] knob to adjust the volume.





■ Turning the Power Off

- Minimize the volume of the SonicCell and of your connected audio equipment.
- 2 Turn off the power of your connected audio equipment.
- 3 Turn off the [POWER] switch.
 The indications in the display will disappear, and the power will turn off.

About the display and [CURSOR/VALUE]

We'll explain this using the Performance mode Part View screen as an example.

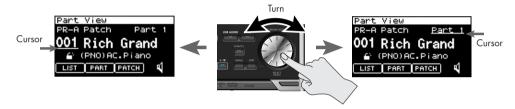
Accessing the Part View Screen

After turning the power on, make sure that [MIDI INST] is lit, then press [PART VIEW].



Moving the Cursor

1 The cursor will move when you turn [CURSOR/VALUE].



Moving Between Screens

1 Turn [CURSOR/VALUE] to move the cursor to [PATCH].



2 Press [CURSOR/VALUE].



The Patch Edit screen will appear.



3 Press [EXIT].



You'll return to the Part View screen.



Editing a Value

Let's try changing the patch number.

- Turn [CURSOR/VALUE] to move the cursor to the patch number.
- 2 Press [CURSOR/VALUE].

The patch number will be highlighted.

3 Turn [CURSOR/VALUE].

The value will change.

When you edit the value, an "E" symbol may appear in the upper right of the screen.

In this case, you can save the settings you've edited.

Saving perfoemances

ightarrow Refer to "Performance Write (p. 73)."

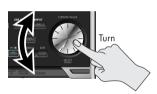
4 Press [CURSOR/VALUE] once more.

The cursor will return to its original state.





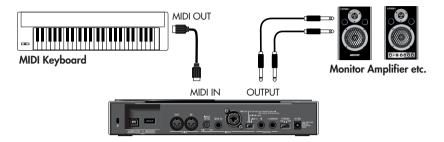








■ Connections



A NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

When connection cables with resistors are used, the volume level of equipment connected to the inputs (INPUT) may be low. If this happens, use connection cables that do not contain resistors.

■ Performance mode and Patch mode

When using the SonicCell as a MIDI sound module, either Performance mode or Patch mode can be selected

When the power is turned on, Performance mode is selected.

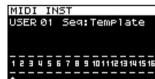
For details on Performance mode and Patch mode, refer to p. 54.

Playing the SonicCell in Performance Mode

■ Selecting a Performance

1 Press [MIDI INST] so its indicator is lit. The MIDI INST screen will appear.





- 2 Move the Cursor to the Performance Number.
- 3 Press [CURSOR/VALUE].

The value at the cursor will be highlighted. For details on using [CURSOR/VALUE], refer to p. 20 .

- 4 Turn [CURSOR/VALUE] to change the performance number. The sound will change.
- 5 Press [CURSOR/VALUE].





Playing the SonicCell in Patch Mode

■ Selecting Patch Mode

In the MIDI INST screen, simultaneously press [MIDI INST] and [PART VIEW].

The SonicCell will enter Patch mode, and the Patch Play screen will appear.

If you once again hold down [MIDI INST] and press [PART VIEW], you'll switch to Performance mode, and the MIDI INST screen will appear.





■ Setting the MIDI channel

- In the Patch Play screen, turn [CURSOR/VALUE] to move the cursor to "RxCh."
- Press [CURSOR/VALUE].

 The RxCh value will be highlighted.
- 3 Turn [CURSOR/VALUE] to set the "RxCh" value to match the transmit channel of the connected equipment.



■ Selecting Sounds

- In the Patch Play screen, turn [CURSOR/VALUE] to move the cursor to the patch number.
- 2 Press [CURSOR/VALUE].
- Turn [CURSOR/VALUE] to change the patch number.
 The sound will change.



Example: Selecting "037 Violin" from the "PR-C" group

- In the Patch Play screen, turn [CURSOR/VALUE] to move the cursor to the patch group.
- Press [CURSOR/VALUE].
- Turn [CURSOR/VALUE] to select "PR-C," then press [CURSOR/ VALUE].



Patch Group

USER

≂h Play

Patch

Rich Grand
(PNO) AC. Piano

RxCh

- 4 Turn [CURSOR/VALUE] to move the cursor to the patch number, then press [CURSOR/VALUE].

 The patch number will be highlighted.
- 5 Turn [CURSOR/VALUE] to select "037" as the patch number. "Violin" will be selected.



Modifying the Sound (editing a patch)

Before you continue, select "037 Violin" from "PR-C" as described in the procedure above.

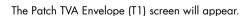
■ Editing the Amp Envelope

This specifies how the sound begins and decays.

Access the Patch Edit Screen

- 1 In the Patch Play screen, use [CURSOR/VALUE] to move the corsor to the "EDIT."
- Press [CURSOR/VALUE].

 The Patch Edit screen will appear.
- 3 Turn [CURSOR/VALUE] to select the graphic below Tone 1 "TVA," then press [CURSOR/VALUE].









Adjusting the Attack

- Turn [CURSOR/VALUE] to move the cursor to "A-Env Time1."
- Press [CURSOR/VALUE].

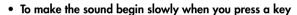
The value will be highlighted.

Turn [CURSOR/VALUE] to change the value, then press [CURSOR/VALUE].

When you change the value, the graph in the lower part of the screen will also change.

If you press [EXIT] you'll return to the previous screen.

- To make the sound begin immediately when you press a key
 - → Set "A-Env Time1" to a low value



→ Set "A-Env Time1" to a high value



T11(when you press a key)





Adjusting the Release

- Turn [CURSOR/VALUE] to move the cursor to "A-Env Time4."
- 8 Press [CURSOR/VALUE].

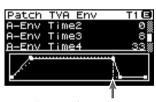
The value will be highlighted.

Turn [CURSOR/VALUE] to change the value, then press [CURSOR/VALUE].

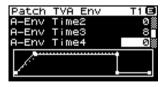
When you change the value, the graph in the lower part of the screen will also change.

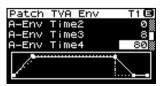
If you press [EXIT] you'll return to the previous screen.

- To make the sound stop immediately when you release a key
 - → Set "A-Env Time4" to a low value
- To make the sound linger after you release a key
 - → Set "A-Env Time1" to a high value



T4 (when you release a key)







For details on amp envelope, refer to p. 107 .

If you want to save the patch you modified, refer to p. 116.

■ Editing the Filter

By editing the filter settings you can make the tonal character of the sound brighter or darker.

- In the Patch Play screen, turn [CURSOR/VALUE] to move the cursor to the "EDIT."
- Press [CURSOR/VALUE].
 The Patch Edit screen will appear.
- 3 Turn [CURSOR/VALUE] to move the cursor to the "TVF."
- 4 Press [CURSOR/VALUE].
 The Patch TVF screen will appear.
- 5 Turn [CURSOR/VALUE] to move the cursor the "Cutoff Frequency."
- 6 Press [CURSOR/VALUE].
 The value will be highlighted.
- Turn the [CURSOR/VALUE] to edit the value, and then press [CURSOR/VALUE].

When you change the value, the graph in the lower part of the screen will also change.

If you press [EXIT] you'll return to the preceding screen.

MEMO

For details on filter, refer to p. 102.

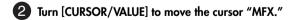
If you want to save the patch you modified, refer to p. 116.

■ Changing the Effect

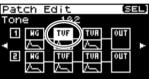
Effects are various types of processing that you can apply to the sound. You can dramatically vary the character of the sound simply by changing the effect.

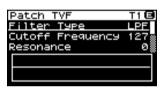
In the Patch Play screen, press [EFFECTS].
The Effect Routing screen will appear.

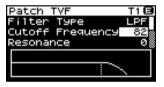


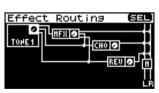


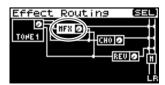












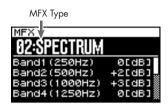
3 Press [CURSOR/VALUE].

The MFX screen will appear.

- 4 Use [CURSOR/VALUE] to select the MFX type.
- **5** Press [CURSOR/VALUE].

 The MFX type indication will be highlighted.
- 6 Use [CURSOR/VALUE] to change the MFX type.
- Press [CURSOR/VALUE].

 If you press [EXIT] you'll return to the preceding screen.





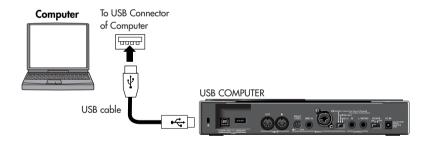


For details on effect editing, refer to p. 132 .

If you want to save the patch you modified, refer to p. 116.

Using the Editor and Librarian

Connections



Dedicated editor and librarian software is included with the SonicCell.

By using the editor you can edit the SonicCell's performance and patch parameters on your computer.

You can edit the settings while viewing them in the large screen of your computer.

By using the librarian you can manage the edited settings on your computer.

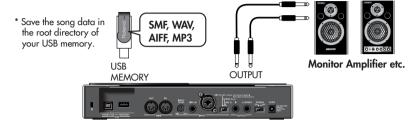
For details on installing the software, refer to p. 31.

For details on using the software, refer to the PDF manual that is installed along with the software.

The SonicCell can play back MIDI files (SMF) and audio files (WAV, AIFF, MP3).

This is a convenient function that you can also use to play backing tracks during a live performance.

■ Connections



- * Use only USB memory sold by Roland. Operation cannot be guaranteed when products other than there is used. Proper operation cannot be guaranteed if other USB memory products is used.
- * Connect the USB memory after the SonicCell's power is turned on.
- * If, after a USB memory device has been removed, you decide that you want to connect it again, you'll need to switch the SonicCell's power off, then switch it back on again.

A NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

When connection cables with resistors are used, the volume level of equipment connected to the inputs (INPUT) may be low. If this happens, use connection cables that do not contain resistors.

■ File Formats that You Can Play

For details on the file formats that you can play, refer to p. 168.

■ Playing the Demo Songs

Refer to p. 15

Playback Procedure

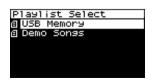
Before you continue, make sure that the USB memory containing the song file you want to play is connected to the SonicCell.

You should also make sure that the SonicCell is set to Performance mode (p. 60).

- * When saving song file on your USB memory, be sure to save it in the root directory.
- 1 Press [SMF/AUDIO PLAYER].
 The Playlist Select screen will appear.



2 Turn [CURSOR/VALUE] to move the cursor to the "USB Memory."



3 Press [CURSOR/VALUE].

A list of the songs in the USB memory will appear.



4 Turn [CURSOR/VALUE] to select a song, then press [CURSOR/VALUE].

The selected song will be displayed.

* The song length indicated in the display may differ from the actual song length.



5 Press [►/■].
The selected song will play.





6 Press [►/■] to stop the song.

If you press [EXIT] you'll return to the preceding screen.

About the Sampling Rate

The SonicCell will play songs that were saved with the same sampling rate as the setting for the [SAM-PLING RATE] switch on the front panel.

Songs whose sampling rate differs from the Sonic-Cell's setting will be shown in the list of songs, but cannot be selected or played.

In this case, move the sampling rate switch to the rate of the song you want to play, then turn the SonicCell's power off, then on again.



- 1 Change the setting of the [SAMPLING RATE] switch.
- Switch off the SonicCell's power, then turn it back on.

Creating a Playlist

You can use the included "SonicCell Playlist Editor" to create a playlist for playback by the SonicCell. If you want to use the SonicCell to play backing tracks, it's convenient to create a playlist in the order you want the songs to play.

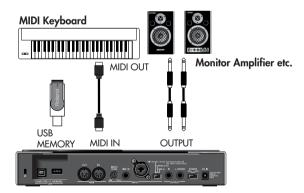
For details on installing "SonicCell Playlist Editor," refer to p. 31.

For details on using the software, refer to the PDF manual that is installed along with the software.



Performing via MIDI while a Song Plays

■ Connections



By using the separately available PDS-10 and BKT-S, you can set up the SonicCell as shown in the illustration.

*If you use the PDS-10, spread the tripod to the maximum extent.
Ensure that the total height including the SonicCell does not exceed one meter.

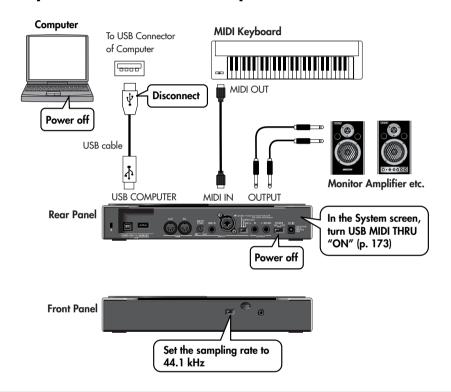
Connecting the SonicCell to Your Computer

You can use the SonicCell as an external sound module for your DAW or sequencer software.

A NOTE

You must install the driver before you connect the SonicCell to your computer.

■ Example Connections and Preparations for Installation



A NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

When connection cables with resistors are used, the volume level of equipment connected to the inputs (INPUT) may be low. If this happens, use connection cables that do not contain resistors.

A NOTE

It is forbidden to use SonicCell Editor, SonicCell Librarian, or SonicCell Playlist Editor for rental, lease, or similar purposes without the permission of the copyright owner. Unauthorized duplication is forbidden by law.

SonicCell Editor System Requirements

Windows OS

Microsoft[®] Windows[®] XP Microsoft[®] Windows Vista™ Windows:

* This does not work with the 64-bit Edition of Windows VistaTM
CPU/Clock: Pentium[®]/Celeron[®] processor 1.4 GHz or higher

RAM: 512 MB or more

Hard Disk: 160 MB or more

Display/Colors: 1280 x 800 or higher/24 bit Full Color or more

Others: A computer with a USB connector that supports USB Specification Revision 2.0 or higher

* Intel chipset is recommended.

* SonicCell may not perform to its full specs when used with an added USB 2.0 interface card.

CD-ROM Drive

Mac OS

Operating System: Mac OS 10.4.3

or later

CPU/Clock: PowerPC G4 1 GHz or

higher/Intel processor

RAM: 512 MB or more Hard Disk: 160 MB or more Display/Colors: 1280 x 800 or

higher/1670 million colors or more

Others: Apple Macintosh series computer with on-board USB 2.0

CD-ROM Drive

■ Installation Procedure

Windows XP users	p. 33
Windows Vista users	p. 35
Mac OS users	p. 37
Installing SONAR LE	p. 152

Specifications of the dedicated plug-in version of the editor

SonicCell Editor is provided in two forms: a stand-alone version and a plug-in version.

Plug-in Formats

- Windows: VSTi
- · Mac: VSTi, Audio Unit

Host Applications in Which Operation has been Verified

If you're using the plug-in version of the editor, please refer also to the applicable explanation.

- SONAR LE → p. 152
- SONAR 6.2 → p. 157
- CUBASE 4 → p. 160
- Logic Pro 7.2 → p. 163
- In order to use plug-in version of the editor, your computer must meet the above operating requirements as well as the requirements of the host application you're using.
- The plug-in version of the editor has been tested and found to work with major host applications, but we cannot guarantee that it will work with all host applications.

^{*} Although Roland has tested numerous configurations, and has determined that on average, a computer system similar to that described above will permit normal operation of the SonicCell Applications, Roland cannot guarantee that a given computer can be used satisfactorily with the SonicCell Applications based solely on the fact that it meets the left requirements. This is because there are too many other variables that may influence the processing environment, including differences in motherboard design and the particular combination of other devices involved.

^{*}In the interest of product improvement, the specifications and/or contents of this package are subject to change without prior notice.

Windows XP users

In order to install the driver and software, you must log on as a user who has administrative privileges.

* For details, ask the system administrator of your computer.

A NOTE

On the SonicCell Editor CD, the XP folder located inside the Driver folder contains a Readme file (Readme_E.html), which explains how to install the driver and includes a number of trouble-shooting tips. Be sure to read this file before using the software.

Installing the Driver

- 1 Start up Windows with all USB cables disconnected (except for a USB keyboard and/or mouse, if used).
- 2 Log on to Windows as one of the following users.
 - A user belonging to the Administrators group, such as Administrator
 - A user whose account type is Computer Administrator
 - * For details, contact the system administrator of the computer you're using.
- 3 Close all applications.

Also close any anti-virus or system-monitoring software.

- 4 Insert the "SonicCell Editor CD-ROM" into your CD-ROM drive, navigate to the Driver folder | XP folder, and double-click Setup.exe.
- 5 The screen will indicate "Roland SonicCell Driver will be installed on your computer..."

 Click [Next].
 - * If any other message is displayed, proceed as directed by the contents of the message.
- 6 The message "To begin installation, click [Next]" will appear. Proceed with the driver installation as directed by the instructions in the screen.

Windows Settings

■ System Settings

These settings will prevent problems with the sound being interrupted when you play back audio from your computer.

- 1 Open "Control Panel" and double-click "System."
 - * If you don't see the above icon, click "Performance and Maintenance," then click "System."
- Click the "Advanced" tab, and then in the Performance section click [Settings].
- Click the "Advanced" tab.
- 4 Choose "Background services" and click [OK].
- Click [OK] to close "System Properties."

■ Settings for Using the Media Player Included with Windows

- 1 Open "Control Panel" and double-click "Sounds and Audio Devices."
 - * If you don't see the above icon, click "Sounds, Audio, and Audio Devices," then click "Sounds and Audio Devices"
- Click [OK] to close "Sounds and Audio Devices Properties."
- 3 Start up Windows Media Player, play back an audio file and a MIDI file, and verify that you hear the sound correctly.

Installing SonicCell Editor

- 1 Insert the "SonicCell Driver CD-ROM" into your CD-ROM drive, navigate to the Editor folder, and double-click Setup.exe.
- 2 The "Welcome" screen will appear. Click [Next].
- Follow the on-screen directions to install SonicCell Editor.

 When you install SonicCell Editor, the SonicCell Editor, SonicCell Editor VSTi plugin, SonicCell Librarian, SonicCell Playlist Editor, and online manuals for each editor will be installed.
 - The online manual for each editor can be found under Windows "Start | All Programs | SonicCell Editor" folder. The online manuals are provided as PDF files.

 You'll need Adobe Reader (available free of charge) in order to view PDF files.

Windows Vista Users

In order to install the driver and software, you must log on as a user who has administrative privileges.

* For details, ask the system administrator of your computer.

A NOTE

The Driver I Vista folder of the SonicCell Driver CD-ROM contains a Readme file (Readme_E.html) that describes driver installations and troubleshooting. Be sure to read this before use.

Installing the Driver

- 1 Start up Windows with all USB cables disconnected (except for a USB keyboard and/or mouse, if used).
- 2 Close all applications.

 Also close any anti-virus or system-monitoring software.
- 3 Place the "SonicCell Editor CD" into your CD-ROM drive, navigate to the Driver folder | Vista folder, and double-click Setup.exe.
 - * If the message "Drivers must be installed by an administrator user." is displayed, log on to Windows as a user whose account type is Administrator, and then perform the installation again.
- 4 A User Account Control screen will appear; click [Continue].
- **5** A message of "Roland SonicCell Driver will be installed on your computer..." will appear. Click [Next].
 - * If any other message is displayed, proceed as directed by the contents of the message.
- 6 The message "Click [Next] to begin the installation" will appear. Proceed with the driver installation as directed by the instructions in the screen.

Windows Settings

■ Settings for using the Media Player included with Windows

- 1 Open "Control Panel," click "Hardware and Sounds," then click "Sounds."

 * If you've chosen the Classic View, double-click "Sounds."
- In "Playback," choose Roland SonicCell's "OUT" and click "Set Default."
- G Click [OK] to close "Sounds."
- 4 Start up Windows Media Player, play back an audio file, and verify that sound is produced correctly.

Installing SonicCell Editor

- 1 Insert the "SonicCell Editor CD-ROM" into your CD-ROM drive, navigate to the Editor folder, and double-click Setup.exe.
- 2 The screen will indicate "An unidentified program is requesting access to this computer"; click [Allow].
- 3 A User Account Control screen will appear; click [Continue].
- The installer will start up. Follow the on-screen instructions to proceed with installing SonicCell Editor.

When you install SonicCell Editor, the SonicCell Editor, SonicCell Editor VSTi plugin, SonicCell Librarian, SonicCell Playlist Editor, and online manuals for each editor will be installed.

The online manual for each editor can be found under Windows "Start | All Programs | SonicCell Editor" folder. The online manuals are provided as PDF files.

You'll need Adobe Reader (available free of charge) in order to view PDF files.

Mac OS X Users

In order to install the driver and other software, you must log on as a user who has an administrative

- * For details, ask the system administrator of the computer you're using.
- * The included SONAR LE is not compatible with Mac OS.

Installing the Driver

- * If an "Authentication" dialog box appears during the installation, enter your password and click [OK].
- 1 Start up your computer with all USB cables disconnected (except for the keyboard and mouse).
- 2 Insert the "SonicCell Editor CD-ROM" into your CD-ROM drive, navigate to the Driver folder, and double-click "SonicCellUSBDriver.pkg."
- 3 You may see the message "This installer package needs to run a program to determine if it can be installed. Do you want to continue?"
 In this case, click [Continue].
- A message will indicate "Welcome to Roland SonicCell Driver installer." Click [Continue].
- 5 A message will indicate "Select a Destination."

 Click to select the drive in which the system is installed, and then click [Continue].
- 6 A message will indicate "Easy install." Click either [Install] or [Upgrade].
- A message will indicate "Installing this software requires you to restart..." Click [Continue with installation].
- A message will indicate "The software was successfully installed" will appear. Click [Restart] to restart your computer.

Installing SonicCell Editor

- 1 In the "SonicCell Editor CD-ROM," navigate to the Editor folder and double-click "SonicCell EditorInstaller.mpkg."
- 2 The installer will start up. Follow the on-screen instructions to proceed with installing SonicCell Editor

When you install SonicCell Editor, the SonicCell Editor, SonicCell Librarian, SonicCell Playlist Editor, and online manuals for each editor will be installed.

The "Manual" folder within the folder where SonicCell Editor is installed contains online manuals for each editor. The online manuals are provided as PDF files.

You'll need Adobe Reader (available free of charge) in order to view PDF files.

Settings

■ Mac OS X Audio Input/Output Settings

- 1 Use a USB cable to connect the SonicCell to your computer, then switch on the SonicCell's power.
- In "System Preference," click "Sounds."
- 3 Choose "Roland SonicCell ** kHz" for the following settings.
 - (** will depend on the sampling rate setting of the SonicCell itself.)
 - In the "Sound Effects" tab, "Play alerts and sound effects through:"
 - In the "Output" tab, "Choose a device for sound output"
 - In the "Input" tab, "Choose a device for sound input"

■ Mac OS X MIDI Input/Output Settings

- Use a USB cable to connect the SonicCell to your computer, then switch on the SonicCell's power.
- In the "Applications Utilities" folder, double-click "Audio MIDI Setup" to start it up.
- 3 Click the "MIDI Devices" tab.

- 4 In the "Audio MIDI Setup" dialog box, verify that "SonicCell" is shown.
 - * If "SonicCell" is not shown, or if it is shown grayed-out, the SonicCell was not detected correctly. Try clicking "Re-scan MIDI." You can also try switching off the SonicCell's power, then turning it back on.
 - * If a different version of the driver had been installed, the old settings may still exist. In this case, click the grayed-out "SonicCell" or "Roland SonicCell" to select it, and then click "Delete device" to delete the settings.
- 6 Click "Add Device." A "New External Device" item will appear.
- 6 Click added "New External Device" that was added, and then click "View Information."
- Enter the following names in the "Device Name" field of each "New External Device."

 First new external device SonicCell
- 8 Drag with the mouse so that the up/down arrows indicating the input/output ports are connected as follows.
 - Connect the first up/down arrow of "SonicCell" to the up/down arrow of the added "Sonic-Cell"
- 9 Verify that MIDI transmission and reception is occurring normally.
 - Click "Test Settings." The mouse cursor will change to the shape of a musical note.
- Olick the added external device. If you hear sound from the sound module, the settings are correct.
- Click "Test Setup" once again to end the test.
- 12 Close the "Audio MIDI Settings" dialog box. This completes the settings.

■ Before You Use the SonicCell with Your Software

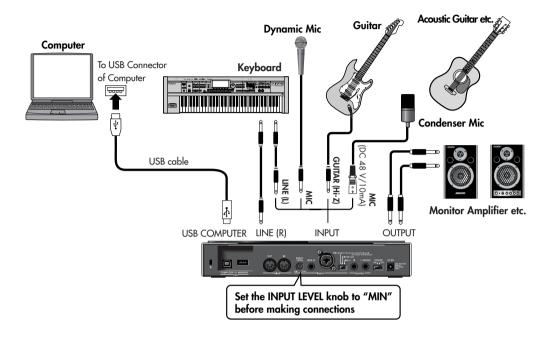
- Use a USB cable to connect the SonicCell to your computer before you start up your software.
- In the Audio Driver settings of the software you're using, choose "Roland SonicCell ** kHz."

 [** will depend on the sampling rate setting of the SonicCell itself.)
- 3 In the MIDI Driver settings of the software you're using, choose SonicCell.
 For details, refer to the manual of the software you're using.

Recording a Mic or Guitar

(USB/Audio Interface)

■ Connections

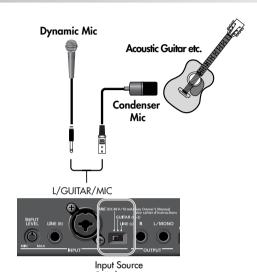


A NOTE

- To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.
- When connection cables with resistors are used, the volume level of equipment connected to the inputs (INPUT) may be low. If this happens, use connection cables that do not contain resistors.
- Howling could be produced depending on the location of microphones relative to speakers. This can be remedied by:
 - 1. Changing the orientation of the microphone(s).
 - 2. Relocating microphone(s) at a greater distance from speakers.
 - 3. Lowering volume levels.
- This instrument is equipped with balanced (XLR/TRS) type jacks. Wiring diagrams for these jacks are shown below. Make connections after first checking the wiring diagrams of other equipment you intend to connect.



Connecting a Mic



Settings Required

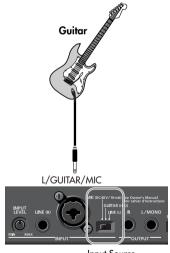
INPUT SOURCE switch

→ Set to "MIC"

When connecting a condenser mic that requires phantom power

→ Turn phantom power on (p. 142)

Connecting a Guitar



Input Source Switch

Settings Required

INPUT SOURCE switch

When sending your guitar through an effects unit before connecting it to the SonicCell

→ Set to "LINE"

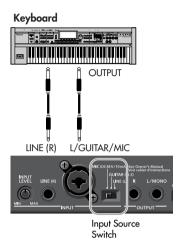
When connecting your guitar directly to the SonicCell without passing through an effects unit

→ Set to "GUITAR"

If you want to apply an effect

→ Refer to p. 144

Using the Line Input



Settings Required

INPUT SOURCE switch

→ Set to "LINE"

If you're inputting in mono (one cable)

→ Connect to L (MONO)

If you want to apply an effect

→ Refer to p. 144

Adjusting the Input Volume

Checking the Volume Level

1 Press [INPUT] so it's lit.

The Input screen will appear.

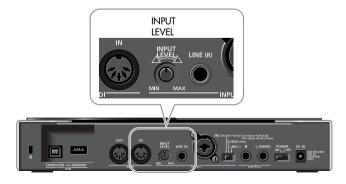
If the volume is too high, the level meter at the bottom of the Input screen will indicate "CLIP."



Adjusting the Volume

Use the rear panel [INPUT LEVEL] to adjust the input volume.

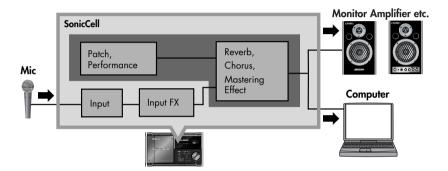
Raise the volume as high as you can without causing the "CLIP" indication to appear in the level meter of the Input screen.



Input Effect Settings

If you want to apply an effect to the sound from the Input jack, change the settings as appropriate for your situation.

■ Sending the Same Sound as Heard From the Speakers to Your Computer



■ Settings Required

Press [INPUT] so it's lit.
The Input screen will appear.

Routing the Sound Through InputFX (input effect)

- 2 Turn [CURSOR/VALUE] to move the cursor to the "Assign."
- 3 Press [CURSOR/VALUE].
- 4 Change the value to "To Input FX."

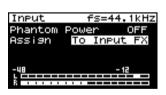
 For more about the Input "Assign" setting → p. 142

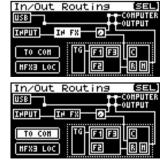
 To select the type of input effect → p. 147

Setting the Output to Computer

- 5 Press [EFFECT] to access the In/Out Routing screen.
 - * The illustration at right is an example of the IN/OUT Routing screen in Performance mode.
- 6 Turn [CURSOR/VALUE] to move the cursor to "To Com."
- **7** Press [CURSOR/VALUE].

 The To Computer screen will appear.

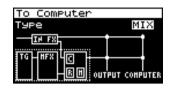




- 8 Turn [CURSOR/VALUE] to move the cursor to the "Type."
- 9 Press [CURSOR/VALUE].
- Ochange the value of Type to "MIX."

 For more about the "Type" setting of To Computer screen

 → p. 148



If the Input Effect is Not Applied

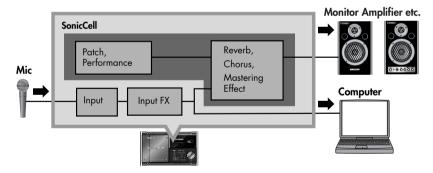
In the In/Out Routing screen, press [MENU] to access the Menu screen. Turn the Input Effect "ON."



MEMO

If you want to make more detailed effect settings, refer to the following pages.

- Input Effect → p. 147
- Chorus Send Level → p. 148
- Reverb Send Level → p. 148
- Mastering Effect → p. 181
- Applying an effect such as reverb to the sound heard from the speakers, while recording the unprocessed sound to your computer



■ Settings Required

1 Press [INPUT] so it's lit.
The Input screen will appear.

Routing the Sound Through InputFX (input effect)

- 2 Turn [CURSOR/VALUE] to move the cursor to the "Assign."
- 3 Press [CURSOR/VALUE].



4 Change the value to "To Input FX."

For more about the Input "Assign" setting \rightarrow p. 142 To select the type of input effect \rightarrow p. 147 To adjust the depth of chorus or reverb \rightarrow p. 148

Setting the Output to Computer

- 5 Press [EFFECT] to access the In/Out Routing screen.
 - * The illustration at right is an example of the IN/OUT Routing screen in Performance mode.
- 6 Turn [CURSOR/VALUE] to move the cursor to "To Com."
- **Press [CURSOR/VALUE].**The To Computer screen will appear.
- 8 Turn [CURSOR/VALUE] to move the cursor to the "Type."
- 9 Press [CURSOR/VALUE].
- 10 Change the value of Type to "INPUT FX."

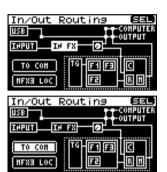
 For more about the "Type" setting of To Computer screen

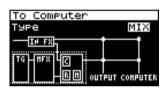
 → p. 148

If the Input Effect is Not Applied

In the In/Out Routing screen, press [MENU] to access the Menu screen.

Turn the Input Effect "ON."









If you want to make more detailed effect settings, refer to the following pages.

- Input Effect → p. 147
- Chorus Send Level → p. 148
- Reverb Send Level → p. 148
- Mastering Effect → p. 181

Installing the Wave Expansion Board

Two Wave Expansion Boards (SRX series; sold separately) can be installed in the SonicCell. Waveform data, patches and rhythm sets are stored on the Wave Expansion Board, so you can increase the number of available sounds by installing the board in the SonicCell.

A NOTE

Installing a Wave Expansion Board increases the patches and drum sets for Parts, but the number of Parts doesn't change. The Wave Expansion Board can be installed by removing the top cover.

Cautions When Installing an Wave Expansion Board

- To avoid the risk of damage to internal components that can be caused by static electricity, please carefully
 observe the following whenever you handle the board.
 - O Before you touch the board, always first grasp a metal object (such as a water pipe), so you are sure that any static electricity you might have been carrying has been discharged.
 - When handling the board, grasp it only by its edges. Avoid touching any of the electronic components or connectors.
- When removing the screws, you must use the included Allen wrench. If you use the wrong tool, you risk
 damaging the screw head.
- To remove a screw, rotate the Allen wrench counter-clockwise. To tighten the screws, rotate the Allen wrench clockwise.



- When you tighten the screws, take care not to overtighten them. Doing so may cause the screw head to be stripped, allowing the Allen wrench to turn uselessly.
- When installing Wave Expansion Boards, remove only the specified screws.
- Be careful that the screws you remove do not drop into the interior of the SonicCell.
- Do not leave the cover removed. After installation of the Wave Expansion Boards is complete, be sure to replace the cover.
- Be careful not to cut your hand on the opening for installing the board.
- Do not touch any of the printed circuit pathways or connection terminals.
- Never use excessive force when installing a circuit board. If it doesn't fit properly on the first attempt, remove
 the board and try again.
- When circuit board installation is complete, double-check your work.

How to Install a Wave Expansion Board

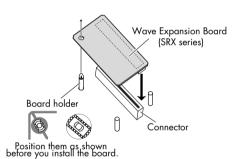
To install a wave expansion board, you'll need to remove the top panel cover. Boards can be installed in the EXP A-EXP B slots. These slots correspond with the Wave Expansion Board groups (XP-A-XP-B) when the expansion Wave, patches, and rhythm sets are used.

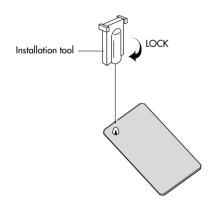
- 1 Before installing the Wave Expansion Board, turn off the power of the SonicCell and all connected devices, and disconnect all cables, including the Power cable, from the SonicCell.
- 2 From the SonicCell, remove only the screws shown in the following diagram, and detach the top panel cover.





- As shown in the following illustration, plug the connector of the Wave Expansion Board into the connector of the relevant slot, and at the same time insert the board holder through the hole of the Wave Expansion Board.
 - * If you install expansion boards of the same type, only one board will be detected.
- Use the Installation Tool supplied with the Wave Expansion Board to turn the holders in the LOCK direction, so the board will be fastened in place.
- 5 Use the screws that you removed in step 2 to fasten the cover back in place.





Checking the Installed Wave Expansion Boards

After installation of the Wave Expansion Boards has been completed, check to confirm that the installed boards are being recognized correctly.

- 1 Turn on the power, as described in "Turning the Power On" (p. 19).
- Press [MENU].

 The Menu screen will appear.
- Turn [CURSOR/VALUE] to select "SRX Info."



Performance Menu 🕨

Ctr1 Init | Perf Init

MIDI Filter

(Sound Mode)

Snd Mode General

4 Press [CURSOR/VALUE].

Press or to display System SRX Info screen.

The System screen will appear. Verify that the name of the installed Wave Expansion Board is displayed.



A NOTE

If "-- ----" appears next to the installed slot name, it's possible that the installed Wave Expansion Board is not being recognized correctly. Re-install the Wave Expansion Board correctly.

6 Press [EXIT] to exit the System screen.

Installation de la carte d'extension Wave

(French language for Canadian Safety Standard)



Deux cartes d'expansion Wave (serie SRX; vendues separement) peuvent etre installees dans le SonicCell. Les donnees Waveform, les retouches et les groupes de rythme sont stockes sur la carte d'expansion Wave; vous pouvez donc augmenter le nombre de sons disponibles en installant la carte dans le SonicCell.

A NOTE

Installer une carte d'expansion Wave augmente les retouches et les groupes de percussion pour les partitions mais le nombre de partitions ne change pas.

Precautions a prendre lors de l'installation d'une carte d'expansion Wave

- Veuillez suivre attentivement les instructions suivantes quand vous manipulez la carte afin d'eviter tout risque d'endommagement des pieces internes par l'electricite statique.
 - O Toujours toucher un objet metallique relie a la terre (comme un tuyau par exemple) avant de manipuler la carte pour vous decharger de l'electricite statique que vous auriez pu accumuler.
 - O Lorsque vous manipulez la carte, la tenir par les cotes. Evitez de toucher aux composants ou aux connecteurs.
- Utiliser la clé Allen incluse pour retirer les vis. L'utilisation d'un outil inadéquat risque d'endommager la tête de la vis.
- Pour retirer une vis, tourner la clé hexagonale dans le sens contraire des aiguilles d'une montre. Pour serrer les vis, tourner la clé hexagonale dans le sens des aiguilles d'une montre.

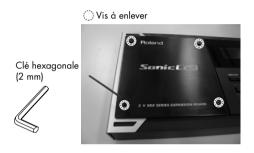


- Veiller à ne pas trop serrer les vis. Un serrage excessif peut fausser la tête des vis et la clé Allen tournerait alors inutilement.
- Pour installer les cartes d'expansion Wave, retirer uniquement les vis mentionnees...
- Assurez-vous que les vis retirees ne tombent pas dans le SonicCell.
- Replacer le couvercle pour ne pas laisser l'ouverture béante. S'assurer de l'avoir rattacher apres avoir installe le disque dur.
- Faites attention de ne pas vous couper sur l'ouverture d'installation de la carte.
- Ne pas toucher aux circuits imprimes ou aux connecteurs.
- Ne jamais forcer lors de l'installation de la carte de circuits imprimes. Si la carte s'ajuste mal au premier essai, enlevez la carte et recommencez l'installation.
- Quand l'installation de la carte de circuits imprimes est terminee, reverifiez si tout est bien installe.

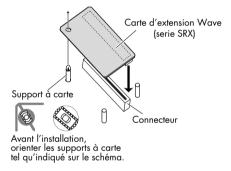
Installation d'une carte d'expansion Wave

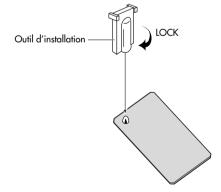
Pour installer une carte d'expansion Wave, il faut retirer le couvercle superieur. Les cartes peuvent etre installees dans les emplacements SRX-A- SRX-B. Ces fentes correspondent aux groupes de cartes d'expansion Wave (XP-A- XP-B) lorsque l'expansion Wave, les correctifs et rythmes sont utilises.

- 1 Avant d'installer la carte d'expansion Wave, coupez l'alimentation du SonicCell et de tous les appareils branches, et debranchez tous les cables du SonicCell, y compris le cable d'alimentation.
- 2 Retirer du SonicCell, uniquement les vis montrees dans le diagramme ci-dessous et detacher le couvercle superieur.



- 3 Comme le montre l'illustration ci-dessous, branchez le connecteur de la carte d'expansion Wave dans la fente appropriee et, en meme temps, inserez le support de carte de circuits imprimes dans l'ouverture de la carte d'expansion Wave.
 - * Si plusieurs cartes d'expansion du meme type sont installees, une seule sera detectee.
- 4 Utilisez l'outil d'installation fourni avec la carte d'expansion Wave pour tourner les supports en position LOCK (verrouille) afin de retenir la carte en place.
- 5 Remettez le couvercle en place a l'aide des vis retirees a l'etape 2.





Verification des cartes d'extension audio apres installation

Lorsque l'installation des cartes d'extension audio est terminee, proceder a une verification pour s'assurer que l'ordinateur les identifie correctement.

- Mettre sous tension de la facon decrite sous "Turning the Power On" (p. 19).
- 2 Appuyer sur [MENU].
 L'écran Menu s'affichera à l'écran.



3 Tourner [CURSEUR/VALEUR] pour sélectionner "SRX Info."



4 Appuyer sur [CURSOR/VALUE].
L'ecran System Edit s'affiche. Verifiez que le nom de la carte
d'expansion Wave installee s'est affiche.



A NOTE

Si "-- ----" est affiche a cote du nom de la fente dans laquelle la carte est installee, il est possible que la carte d'extension audio installee ne soit pas reconnue correctement. Reinstaller correctement la carte d'extension audio.

5 Appuyer sur [EXIT] pour quitter la fenetre du systeme.

MEMO

MIDI Sound Module

Overview

You can use the SonicCell as a MIDI sound module in either of two modes: Performance mode or Patch mode.

Performance Mode and Patch Mode

■ Performance mode

In Performance mode you can use multiple patches or rhythm sets simultaneously. A performance contains sixteen "Parts." You can assign a patch or rhythm set to each part, and use them as an ensemble, or layer sounds to create rich textures. Since in Performance mode you can use an external MIDI device or sequencer software to independently control each of the SonicCell's sixteen parts, this is the mode to use when you're creating a song.

(MEMO)

With the factory settings, Performance mode is selected.

The SonicCell's sixty-four preset performances have been created to be appropriate for the following uses.

PRST01-33 For song production

PRST34-64 For playing

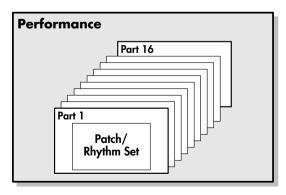
■ Patch mode

In Patch mode you can use a connected keyboard or other device to play a single Patch on the SonicCell. Since Patch mode lets you use a variety of effects on a single patch, you can play very rich textures.

In Patch mode it's also easy to edit the selected sound, so this is the mode to use when editing or creating your own sounds.

How a Performance is structured

A performance has a patch or rhythm set assigned to each of the 16 parts, and can simultaneously handle 16 sounds. Because the SonicCell sound generator can control multiple sounds (instruments) it is called a Multi-timbral sound generator.



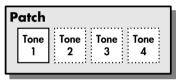
WG (Wave Generator)

■ Part

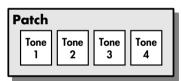
On the SonicCell, a "part" is something to which you assign a patch or rhythm set. In Performance mode, each performance has sixteen parts, and you can assign a patch or rhythm set to each part.

How a Patch is structured

Patches are the basic sound configurations that you play during a performance. Each patch can be configured by combining up to four tones. How the four tones are combined is determined by the Structure Type parameter.



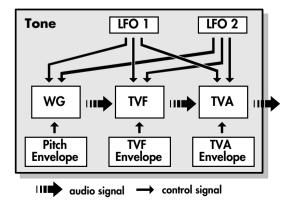
Example 1: A Patch consisting of only one Tone (Tones 2–4 are turned off).



Example 2: A Patch consisting of four Tones.

■ Tones

On the SonicCell, the tones are the smallest unit of sound. However, it is not possible to play a tone by itself. The patch is the unit of sound which can be played, and the tones are the basic building blocks which make up the patch.



Specifies the PCM waveform (wave) that is the basis of the

sound, and determines how the pitch of the sound will change.

TVF (Time Variant Filter)

Specifies how the frequency components of the sound will change.

TVA (Time Variant Amplifier)

Specifies the volume changes and the sound's position in a stereo soundfield.

Envelope

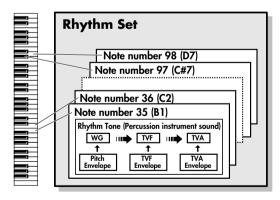
You use Envelope to initiate changes to occur to a sound over time. There are separate envelopes for Pitch, TVF (filter), and TVA (volume).

LFO (Low Frequency Oscillator)

Use the LFO to create cyclic changes (modulation) in a sound. The SonicCell has two LFOs. Either one or both can be applied to effect the WG (pitch), TVF (filter) and/or TVA (volume). When an LFO is applied to the WG pitch, a vibrato effect is produced. When an LFO is applied to the TVF cutoff frequency, a wah effect is produced. When an LFO is applied to the TVA volume, a tremolo effect is produced.

How a Rhythm Set is structured

Rhythm sets are groups of a number of different percussion instrument sounds. Since percussion instruments generally do not play melodies, there is no need for a percussion instrument sound to be able to play a scale on the keyboard. It is, however, more important that as many percussion instruments as possible be available to you at the same time. Therefore, each key (note number) of a rhythm set will produce a different percussion instrument.



- * There are four wave generators for each rhythm tone (percussion instrument sounds).
- * LFO is not included in the rhythm tones (percussion instrument sounds).

Calculating the Number of Voices Being Used

The SonicCell is able to play up to 128 notes simultaneously. The polyphony, or the number of voices (sounds) does not refer only to the number of patches actually being played, but changes according to the number of tones used in the patches, and the number of waves used in the tones. The following method is used to calculate the number of sounds used for one patch being played.

(Number of patches being played) x (Number of tones used by patches being played) x (Number of waves used in the tones) For example, a patch that combines four tones, each of which use two waves, will use eight notes of polyphony at once. Also, when playing in Performance mode, the number of sounds for each part is counted to obtain the total number of sounds for all parts.

■ How a Patch Sounds

When the SonicCell is requested to play more than 128 voices simultaneously, currently sounding notes will be turned off to make room for newly requested notes. The note with the lowest priority will be turned off first. The order of priority is determined by the Patch Priority setting (p. 90). Patch Priority can be set either to "LAST" or "LOUDEST." When "LAST" is selected, a newly requested note that exceeds the 128 voice limit will cause the first-played of the currently sounding notes to be turned off. When "LOUDEST" is selected, the quietest of the currently sounding notes will be turned off. Usually, "LAST" is selected.

■ Note priority in Performance Mode

Since Performance mode is usually used to play an ensemble consisting of several patches, it is important to decide which parts take priority. Priority is specified by the Voice Reserve settings (p. 71). When a note within a patch needs to be turned off to make room for a new note, the Patch Priority setting of the patch will apply (p. 90).

■ Voice Reserve

The SonicCell has a Voice Reserve function that lets you reserve a minimum number of notes that will always be available for each part. For example if Voice Reserve is set to "10" for part 16, part 16 will always have 10 notes of sound-producing capacity available to it even if a total of more than 128 notes (total for all parts) are being requested. When you make Voice Reserve settings, you need to take into account the number of notes you want to play on each part as well as the number of tones used by the selected patch (p. 71). It is not possible to make Voice Reserve settings that would cause the total of all parts to be greater than 64 voices.

About the Effects

The SonicCell has built-in effect units, and you can independently edit each unit's settings.

■ Multi-Effects

The multi-effects are multi-purpose effects that completely change the sound type by changing the sound itself.

Contained are 78 different effects types; select and use the type that suits your aims. In addition to effects types composed of simple effects such as Distortion, Flanger, and other such effects, you can also set up a wide variety of other effects, even connecting effects in series or in parallel. Furthermore, while chorus and reverb can be found among the multi-effects types, the following chorus and reverb are handled with a different system. In Performance mode, three types of multi-effect can be used simultaneously; these are referred to as MFX1, MFX2, and MFX3. In Patch mode, you can use one multi-effect.

■ Chorus

Chorus adds depth and spaciousness to the sound. You can select whether to use this as a chorus effect or a delay effect.

Reverb

Reverb adds the reverberation characteristics of halls or auditoriums. Five different types are offered, so you can select and use the type that suits your purpose.

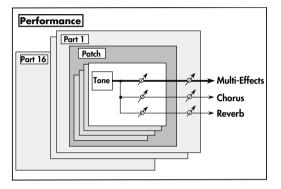
■ Mastering Effect

This is a stereo compressor (limiter) that is applied to the final output of the SonicCell. It has independent high, mid, and low ranges. Independently for the high-frequency, mid-frequency, and low-frequency regions, this compresses any sounds that exceed the specified level, making the volume more consistent.

Effects in Performance Mode

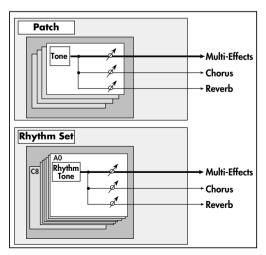
The multi-effects, chorus and reverb effects can be set individually for each performance. The intensity of each effect will be set for each part.

When you apply effects in Performance mode, the effect settings of the patch or rhythm set assigned to each part will be ignored, and the effect settings of the performance will be used. Thus, the effects for the same patch or rhythm set may differ when played in Patch mode and in Performance mode. However, depending on the settings, you can have effect settings for a patch or rhythm set assigned to a part applied to the entire performance.



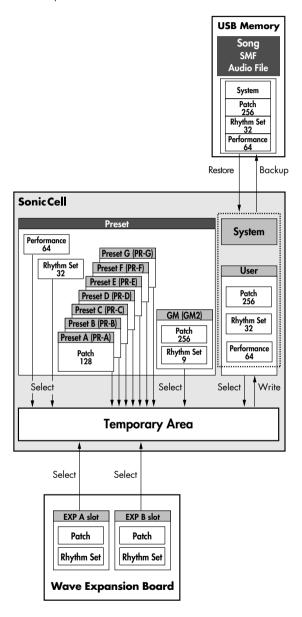
Effects in Patch Mode

The multi-effects, chorus and reverb effects can be set up individually for each patch/rhythm set. Adjusting the signal level to be sent to each effects unit (Send Level) provides control over the effect intensity that's applied to each tone.



About Memory

Patch and performance settings are stored in what is referred to as memory. There are three kind of memory: temporary, rewritable, and non-rewritable.



Temporary Memory

■ Temporary Area

This is the area that holds the data for the patch or performance that you've selected using the panel buttons. When you play the SonicCell, sound is produced based on data in the temporary area. When you edit a patch or performance, you do not directly modify the data in memory; rather, you call up the data into the temporary area, and edit it there.

Settings in the temporary area are temporary, and will be lost when the power is turned off or when you select another patch/performance. To keep the settings you have modified, you must write them into rewritable memory.

Rewritable Memory

■ System Memory

System memory stores system parameter settings that determine how the SonicCell functions.

To store system parameters, execute System Write (p. 176, p. 150).

■ User Memory

User memory is where you normally store the data you need. To store a performance, execute Performance Write (p. 73). To store a patch, execute Patch Write (p. 116). To store a Rhythm Set, execute Rhythm Set Write (p. 131).

■ USB Memory

The performances/patches/rhythm sets in user memory and the system settings in system memory can be backed up together to USB memory.

Non-Rewritable memory

Preset memory

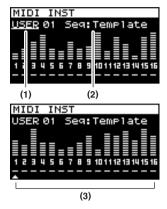
Data in Preset memory cannot be rewritten. However, you can call up settings from preset memory into the temporary area, modify them and then store the modified data in rewritable memory.

Wave Expansion Boards (optional: SRX Series)

The SonicCell can be equipped with up to two Wave Expansion Boards (optional: SRX Series). Wave Expansion Boards contain Wave data, as well as patches and rhythm sets that use this Wave data, which can be called directly into the temporary area and played.

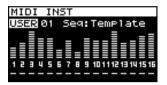
Viewing the MIDI INST (MIDI sound module) screen

1. Press [MIDI INST] so its indicator is lit.
The MIDI INST screen will appear.



- * If Sound Mode (p. 60) is set to "Patch," the Patch Play screen (p. 82) will appear.
 - In this case, simultaneously press [MIDI INST] and [PART VIEW] to switch to the MIDI INST screen of Performance mode.

- Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.
- 3. Press [CURSOR/VALUE] to highlight the value.



- 4. Turn [CURSOR/VALUE] to edit the value.
- 5. When you've finished editing, press [CURSOR/VALUE].

Parameter		Value	Explanation
(1)	Performance group	USER, PRST	Selects the performance group. USER: User PRST: Preset
(2)	Performance number/name	01-64	Selects the performance. MEMO The SonicCell's sixty-four preset performances have been created to be appropriate for the following uses. PRST01-33 For song production PRST34-64 For playing
(3)	Settings for each part	-, M, S, *	For each part, you can specify whether sound will be heard. Sound can be heard. M (mute): The sound will be temporarily muted (silenced). S (solo): Selects the one part that will be heard. Parts other than the one set to "S" will be muted. In the SonicCell Editor you can set mute and solo separately. In this case, "*" is shown for parts for which both mute and solo have been specified.

Viewing the menu screen (Performance Menu screen)

1. Press [MIDI INST] so its indicator is lit.
The MIDI INST screen will appear.

2. Press [MENU].

The Performance Menu screen will appear.

The Performance Menu screen has the structure shown in the illustration at right.

You can turn [CURSOR/VALUE] to the right or left to switch screens.





- 3. Turn [CURSOR/VALUE] to move the cursor to the item you want to edit.
- 4. Press [CURSOR/VALUE] to access the corresponding screen.

Parameter	Explanation		
Snd (Sound) Mode	Lets you switch between Performance mode and Patch mode. Press [CURSOR/VALUE] to access the Sound Mode screen (p. 60).		
General Specifies the recommended tempo of the performance. Press [CURSOR/VALUE] to access the Performance General screen (p. 60).			
MIDI Filter	Turns reception of various MIDI messages on/off for each part. Press [CURSOR/VALUE] to access the Perform MIDI Filter screen (p. 60).		
Ctrl Init (Sound Control Initialize)	Initializes the values of only the following sound-related parameters for the current performance (p. 73). • Cutoff Offset, Resonance Offset, Attack Offset, Release Offset, Decay Offset, Vibrato Rate, Vibrato Depth, Vibrato Delay		
Prf Init (Performance Initialize)	Initializes the settings of the current performance (p. 73).		
Write Saves the current performance as user data. (Performance Write) Press [CURSOR/VALUE] to access the Performance Name screen (p. 73).			
System	Press [CURSOR/VALUE] to access the System screen (p. 176).		
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).		
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.		
SRX Info (SRX Information) Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).			
Version (Version Information) Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).			

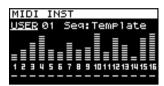
Switching the sound mode (Sound Mode screen)

This specifies the mode of the MIDI sound generator. The current mode is highlighted.

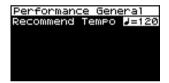


1. Turn [CURSOR/VALUE] to move the cursor, and press [CURSOR/VALUE] to confirm your choice of mode.

If you select "Performance" and press [CURSOR/VALUE], the following screen will appear.



Specifying the recommended performance tempo (Performance General screen)



Parameter	Value	Explanation
Recommend Tempo	20–250	If you want the system tempo to change when you switch Performances, specify the tempo that will follow this change. This setting is valid when the Seq Tempo Override is "ON." In order to enable this setting, turn on the Tempo Override (p. 177).

MIDI-related settings (Perform MIDI Filter screen)



In the Perform MIDI Filter screen you can edit the following parameters for each part.

Parameter	Value	Explanation
PC (Receive Program Change Switch)	_, O	Determines, on an individual part basis, whether MIDI program change messages will be received (O) or not received (_).
BS (Receive Bank Select Switch)	_, O	Determines, on an individual part basis, whether MIDI bank select messages will be received (O) or not received (_).
PB (Receive Pitch Bend Switch)	_, O	Determines, on an individual part basis, whether MIDI pitch bend messages will be received (O) or not received (_).
PA (Receive Polyphonic Key Pressure Switch)	_, O	Determines, on an individual part basis, whether MIDI polyphonic key pressure messages will be received (O) or not received (_).
CA (Receive Channel Pressure Switch)	_, O	Determines, on an individual part basis, whether MIDI channel pressure messages will be received (O) or not received (_).

Parameter	Value	Explanation
MD (Receive Modulation Switch)	_, O	Determines, on an individual part basis, whether MIDI modulation messages will be received (O) or not received (_).
VO (Receive Volume Switch)	_, O	Determines, on an individual part basis, whether MIDI volume messages will be received (O) or not received (_).
PN (Receive Pan Switch)	_, O	Determines, on an individual part basis, whether MIDI pan messages will be received (O) or not received (_).
EX (Receive Expression Switch)	_, O	Determines, on an individual part basis, whether MIDI expression messages will be received (O) or not received (_).
HD (Receive Hold 1 Switch)	_, O	Determines, on an individual part basis, whether MIDI hold 1 messages will be received (O) or not received (_).
PL (Phase Lock Switch)	_, O	Set Phase Lock to "O" when you want to suppress discrepancies in timing of parts played on the same MIDI channel. NOTE When the Phase Lock parameter is set to "O," parts on the same MIDI channel are put in a condition in which their timing is matched, enabling them to be played at the same time. Accordingly, a certain amount of time may elapse between reception of the Note messages and playing of the sounds. Turn this setting to "O" only as needed.
VC (Velocity Curve Type)	_, 1–4	Velocity Curve selects for each MIDI channel one of the four following Velocity Curve types that best matches the touch of the connected MIDI keyboard. Set this to "-" if you are using the MIDI keyboard's own velocity curve.

Menu screen....



From the Perform MIDI Filter screen, press [MENU] to access the MIDI Filter screen. Press [MENU] once again to return to the Perform MIDI Filter screen.

Parameter	Explanation
PC, BS, PB, PA, CA, MD, VO, PN, EX, HD, PL, VC	The cursor will move to the current part for the item you selected in the Perform MIDI Filter screen.

Viewing the part settings (Part View screen)

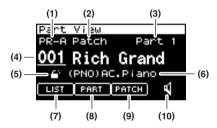
- 1. Press [MIDI INST] so its indicator is lit.
 The MIDI INST screen will appear.
- 2. Move the cursor to the part that you want to edit, and press [PART VIEW].

The [PART VIEW] indicator will light, and the Part View screen will appear.



If the patch type is Patch

If in Performance mode you've set the current part's patch type to "Patch," the following screen will appear.



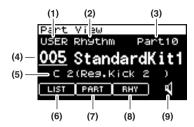
Parameter		Value	Explanation
·			Selects the patch group.
			USER: User
	_	USER,	PR-A-PR-G: Preset A-Preset G
(1)	Patch group	PR-A-PR-G, GM	GM: General MIDI
		XP-A, XP-B	XP-A, XP-B: Wave Expansion Board A, Wave Expansion Board B
			* It is not possible to choose XP-A, XP-B unless a wave expansion board is inserted in to the corresponding slot.
(2)	Patch type	Patch, Rhythm	Specifies whether the current part will use a patch or a rhythm set.
(3)	Current part	Part1-Part 16	Selects the part (current part) that will be affected by your operations.
(4)	Patch number/name	001-	Selects the patch used by the current part.
(5)	Category lock	CT0. CS	Specifies whether the category will be locked () or not locked () when you select patches. If you lock the category, only sounds that are within the category will appear when you select patches.
(6)	Patch category	CMB	Switches the category.
(7)	LIST		Press [CURSOR/VALUE] to access the Patch List screen (p. 65, p. 66).
(8)	PART		Press [CURSOR/VALUE] to access the Part Edit screen (p. 68).
(9)	PATCH		Press [CURSOR/VALUE] to access the edit screen for the patch used by the current part (p. 88).
(10)	Preview	a , a %	If you switch the preview icon () to (), you'll be able to hear a preview sound played by that patch. MEMO The system Preview setting (p. 179) lets you specify how the preview will be sounded.

■ Patch Category

Category	y	Contents
	No Assign	No assign
PNO	AC.Piano	Acoustic Piano
EP	EL.Piano	Electric Piano
KEY	Keyboards	Other Keyboards (Clav, Harpsichord etc.)
BEL	Bell	Bell, Bell Pad
MLT	Mallet	Mallet
ORG	Organ	Electric and Church Organ
ACD	Accordion	Accordion
HRM	Harmonica	Harmonica, Blues Harp
AGT	AC.Guitar	Acoustic Guitar
EGT	EL.Guitar	Electric Guitar
DGT	DIST.Guitar	Distortion Guitar
BS	Bass	Acoustic & Electric Bass
SBS	Synth Bass	Synth Bass
STR	Strings	Strings
ORC	Orchestra	Orchestra Ensemble
HIT	Hit&Stab	Orchestra Hit, Hit
WND	Wind	Winds (Oboe, Clarinet etc.)
FLT	Flute	Flute, Piccolo
BRS	AC.Brass	Acoustic Brass
SBR	Synth Brass	Synth Brass
SAX	Sax	Sax
HLD	Hard Lead	Hard Synth Lead
SLD	Soft Lead	Soft Synth Lead
TEK	Techno Synth	Techno Synth
PLS	Pulsating	Pulsating Synth
FX	Synth FX	Synth FX (Noise etc.)
SYN	Other Synth	Poly Synth
BPD	Bright Pad	Bright Pad Synth
SPD	Soft Pad	Soft Pad Synth
VOX	Vox	Vox, Choir
PLK	Plucked	Plucked (Harp etc.)
ETH	Ethnic	Other Ethnic
FRT	Fretted	Fretted Inst (Mandolin etc.)
PRC	Percussion	Percussion
SFX	Sound FX	Sound FX
BTS	Beat&Groove	Beat and Groove
DRM	Drums	Drum Set
СМВ	Combination	Other patches which use Split and Layer

If the patch type is Rhythm Set

If in Performance mode you've set the current part's patch type to "Rhythm," the following screen will appear.



Parameter		Value	Explanation
	Rhythm Set group	USER, PRST, GM, XP-A, XP-B	Selects the rhythm set group. USER: User PRST: Preset
(1)			GM: General MIDI
			 XP-A, XP-B: Wave Expansion Board A, Wave Expansion Board B * It is not possible to choose XP-A, XP-B unless a wave expansion board is inserted in to the corresponding slot.
(2)	Patch type	Patch, Rhythm	Specifies whether the current part will use a patch or a rhythm set.
(3)	Current part	Part1-Part 16	Selects the part (current part) that will be affected by your operations.
(4)	Rhythm Set number/name	001-	Selects the rhythm set used by the current part.
(5)	Editing key	A0-C8	Within the currently selected rhythm set, selects the key that you'll be editing.
(6)	LIST		Press [CURSOR/VALUE] to access the Rhythm Set List screen (p. 67).
(7)	PART		Press [CURSOR/VALUE] to access the Part Edit screen (p. 68).
(8)	RHY		Press [CURSOR/VALUE] to access the edit screen for the rhythm set used by the current part (p. 117).
(9)	Preview	a , a <u>a</u>	If you switch the preview icon () to (), you'll be able to hear a preview sound played by that rhythm set. (MEMO) The system Preview setting (p. 179) lets you specify how the preview will be sounded.

Selecting patches from a patch list by category (Patch List (Ctg) screen)

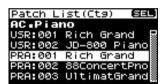
You can choose the patch for each part from a list that's arranged by category.

- * When the power is turned on, the Patch List (Ctg) screen is selected.
- 1. Press [MIDI INST] so its indicator is lit.
 The MIDI INST screen will appear.
- Move the cursor to the part that you want to edit, and press [PART VIEW].

The [PART VIEW] indicator will light, and the Part View screen will appear.

3. Select "LIST" and press [CURSOR/VALUE].

The Patch List (Ctg) screen will appear.



- * If the Patch List (Grp) screen was displayed last, the Patch List (Grp) screen will appear.
 - In this case, press [MENU] to access the Group Select screen, select "CATEG LIST," then press [CURSOR/VALUE] to access the Patch List (Ctg) screen.
- Turn [CURSOR/VALUE] to select a patch, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Part View screen.

■ Menu screen.....



From the Patch List (Ctg) screen, press [MENU] to access the Category Select screen. Press [MENU] once again to return to the Patch List (Ctg) screen.

Parameter	Explanation		
	gory. You can cha	category (major classification) and returns to the patch list screen organized by cate- nge the category by moving the cursor to the currently selected category (at the top of nd pressing [CURSOR/VALUE].	
PNO, KBD, GTR, BAS, ORC, BRS, SYN, VCL, WLD	Major Classification PNO: KBD: GTR: BAS: ORC: BRS: SYN: VCL: WLD:	Category AC.Piano, EL.Piano Keyboards, Bell, Mallet, Organ, Accordion, Harmonica AC.Guitar, EL.Guitar, Dist.Guitar Bass, Synth Bass Strings, Orchestra, Hit&Stab Wind, Flute, AC.Brass, Synth Brass, Sax Hard Lead, Soft Lead, Techno Synth, Pulsating, Synth FX, Other Synth Bright Pad, Soft Pad, Vox Plucked, Ethnic, Fretted, Percussion, Sound FX, Beat&Groove, Drums, Combination	
GROUP LIST	Press [CURSOR/VALUE] to access the Patch List (Grp) screen (p. 66). * Once you move to the Patch List (Grp) screen, the Patch List (Grp) screen will appear when you select "LIST" in the Part View screen.		

Selecting patches from a patch list by group (Patch List (Grp) screen)

You can choose the patch for each part from a list that's arranged by group, such as USER or expansion board.

- * When the power is turned on, the Patch List (Ctg) screen is selected.
- 1. Press [MIDI INST] so its indicator is lit.
 The MIDI INST screen will appear.
- Move the cursor to the part that you want to edit, and press [PART VIEW].

The [PART VIEW] indicator will light, and the Part View screen will appear.

3. Select "LIST" and press [CURSOR/VALUE].

The Patch List (Ctg) screen will appear.

- * If the Patch List (Grp) was displayed last, the Patch List (Grp) screen will appear. Proceed to step 6.
- 4. Press [MENU] to access the menu screen.

Choose "GROUP LIST" and press [CURSOR/VALUE].
 The Patch List (Grp) screen will appear.



Turn [CURSOR/VALUE] to select a patch, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Part View screen.

■ Menu screen.....



From the Patch List (Grp) screen, press [MENU] to access the Group Select screen. Press [MENU] once again to return to the Patch List (Grp) screen.

Parameter	Explanation		
	Changes th	e group and returns to the patch list by group screen.	
	USR:	User	
	A-G:	Preset A–Preset G	
USR, A-G, GM, EXA, EXB	GM:	General MIDI	
	EXA, EXB:	Wave Expansion Board A, Wave Expansion Board B	
	* It is not possible to choose EXA, EXB unless a wave expansion board is inserted in to the corresponding slot.		
	Press [CURSOR/VALUE] to access the Patch List (Ctg) screen (p. 65).		
CATEG (Category) LIST	* Once you move to the Patch List (Ctg) screen, the Patch List (Ctg) screen will appear when you select "LIST" in the Part View screen.		

Selecting a rhythm set from a list (Rhythm Set List screen)

If the current part's patch type is "Rhythm," you can choose a rhythm set from a list.

- 1. Press [MIDI INST] so its indicator is lit.
 The MIDI INST screen will appear.
- Move the cursor to the part that you want to edit, and press [PART VIEW].

The [PART VIEW] indicator will light, and the Part View screen will appear.

3. Select "LIST" and press [CURSOR/VALUE]. Rhythm Set List screen will appear.

Rhythm Set List (SEL)
User
001 SonicCellKit P
002 WD Std Kit
003 LD Std Kit
004 TY Std Kit

StandardKit1

 Turn [CURSOR/VALUE] to select a rhythm set, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Part View screen.

■ Menu screen.....



From the Rhythm Set List screen, press [MENU] to access the Group Select screen. Press [MENU] once again to return to the Rhythm Set List screen.

Parameter	Explanation		
	Changes the group and returns to the patch list by group screen.		
	USR:	User	
	PRESET:	Preset	
USR, PRESET, GM, EXA, EXB	GM:	General MIDI	
	EXA, EXB:	Wave Expansion Board A, Wave Expansion Board B	
	* It is not p sponding	ossible to choose EXA, EXB unless a wave expansion board is inserted in to the corre- slot.	

Editing parts (Part Edit screen)

- 1. Press [MIDI INST] so its indicator is lit.
 - The MIDI INST screen will appear.
- Move the cursor to the part that you want to edit, and press [PART VIEW].

The [PART VIEW] indicator will light, and the Part View screen will appear.

Turn [CURSOR/VALUE] to select "PART," and press [CURSOR/VALUE].

The Part Edit screen will appear.



 Turn [CURSOR/VALUE] to select the parameter that you want to edit, and press [CURSOR/VALUE].

The value of the selected parameter will be highlighted. If you select "Scale Tune," an editing screen will appear.

Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].

■ Menu screen.....

From the Part Edit screen, press [MENU] to access the Menu screen.

The Menu screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.

Press [MENU] once again to return to the Part Edit screen.





Parameter	Explanation		
1–16	Changes the current part and returns to the Part Edit screen.		
SND (Sound Mode)	Lets you switch between Performance mode and Patch mode. Press [CURSOR/VALUE] to access the Sound Mode screen (p. 60).		
GEN (General)	Specifies the recommended tempo of the performance. Press [CURSOR/VALUE] to access the Performance General screen (p. 60).		
MIDI (MIDI Filter)	Turns reception of various MIDI messages on/off for each part. Press [CURSOR/VALUE] to access the Perform MIDI Filter screen (p. 60).		
CINI (Sound Control Initialize)	Initializes the values of only the following sound-related parameters for the current performance (p. 73). • Cutoff Offset, Resonance Offset, Attack Offset, Release Offset, Decay Offset, Vibrato Rate, Vibrato Depth, Vibrato Delay		
PINI (Performance Initialize)	Initializes the settings of the current performance (p. 73).		
Write (Performance Write)	Saves the current performance as user data. Press [CURSOR/VALUE] to access the Performance Name screen (p. 73).		
System	Press [CURSOR/VALUE] to access the System screen (p. 176).		
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).		
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.		
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).		
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).		

■ Part Edit screen



Parameter	Value	Explanation		
Level	0–127	Adjust the volume of each part. This setting's main purpose is to adjust the volume balance between parts.		
Pan	L64-63R	Adjust the pan of each part. "L64" is far left, "0" is center, and "63R" is far right.		
Octave Shift	-3-+3	Adjusts the pitch of the part's sound up or down in units of an octave (+/-3 octaves).		
Coarse Tune	-48-+48	Adjusts the pitch of the part's sound up or down in semitone steps (+/-4 octaves).		
Fine Tune	-50-+50	Adjusts the pitch of the part's sound up or down in 1-cent (1/100th of a semitone) steps (+/-50 cents).		
Output Assign	MFX, L+R, L, R, PAT	 Specifies for each part how the direct sound will be output. MFX: Output in stereo through multi-effects. You can also apply chorus or reverb to the sound that passes through multi-effects. L+R: Output to the OUTPUT jack in stereo without passing through multi-effects. L: Output from L. R: Output from R. PAT: The part's output destination is determined by the settings of the patch or rhythm set assigned to the part. NOTE When outputting in mono, the Pan setting is disabled. Chorus and Reverb are output in mono at all times. When the settings are such that signals are split and output from the L jack and R jack, and no plug is inserted in the R jack, the sounds from L and R are mixed together, then output from the L jack. This sound comprises the sounds from the L and R jacks. TIP When the Output Assign parameter is set to PAT, the output level settings for the Patch or Rhythm Set as well as the Part go into effect. If you want the various level settings of the Patch/Rhythm Set to be reflected as they are, set the various Part levels to 127 (maximum). MEMO For more on how to set each effect, refer to the pages shown below. Multi-effects(p. 78, p. 192) Chorus (p. 78, p. 219) Reverb (p. 79, p. 220) 		
Output MFX (Output MFX Select)	1–3	Of the three types of multi-effects that can be used simultaneously, specify which multi-effects will be used.		
Output Level	0–127	Sets the direct sound's volume for each Part. When Multi-effects are being applied, this sets the amount of the effect that is applied; when Multi-effects are not applied, this sets the volume of the direct sound.		
Chorus Send (Chorus Send Level)	0–127	Adjusts the amount of Chorus for each Part. If you don't want to add the Chorus effect, set it to 0.		
Reverb Send (Reverb Send Level)	0–127	Adjusts the amount of Reverb for each Part. If you don't want to add the Reverb effect, set it to 0.		
Cutoff Offset	-64-+63	Adjusts the cutoff frequency for the patch or rhythm set assigned to a part. NOTE Patches also have a Cutoff Offset setting (p. 90). The final Cutoff frequency value is the sum of the tone Cutoff Frequency value and the patch and part Cutoff Offset values. If the tone's cutoff frequency is already set to "127" (maximum), there will be no change produced by setting the Cutoff Offset to a positive value.		

Parameter	Value	Explanation		
Resonance Offset	-64-+63	Adjusts the Resonance for the patch or rhythm set assigned to a part. NOTE Patches also have a Resonance Offset setting (p. 91). The final Resonance value is		
		the sum of the tone Resonance value and the patch and part Resonance Offset values. If the tone's resonance is already set to "127" (maximum), there will be no change produced by setting the resonance offset to a positive value.		
Attack Offset (Attack Time Offset)	-64-+63	Adjusts the TVA/TVF Envelope Attack Time for the patch or rhythm set assigned to a part. NOTE Patches also contain the Attack Offset setting (p. 91). The final TVA Envelope attack time value is therefore the sum of the tone's TVA Envelope Time 1 setting, the patch's Attack Time Offset, and the part's Attack Time Offset. If the tone's Time 1 parameter is already set to "127" (maximum), there will be no change produced by setting the Attack Time Offset to a positive value. The same applies to the TVF envelope.		
		Adjusts the TVA/TVF Envelope Release Time for the patch or rhythm set assigned to a part.		
Release Offset (Release Time Offset)	-64-+63	Patches also contain a Release Offset setting (p. 91). The final TVA Envelope release time value is therefore the sum of the tone's TVA Envelope Time 4 setting, the patch's Release Time Offset, and the part's Release Time Offset. If the tone's Time 4 parameter is set to "127" (maximum), there will be no change in the Release Time Offset, even when this is set to a positive value. The same applies to the TVF envelope.		
Decay Offset (Decay Time Offset)	-64-+63	Adjusts the TVA/TVF Envelope Decay Time for the patch or rhythm set assigned to a part.		
	MONO, POLY, PAT	Sets how the Patch's notes play. The MONO setting is effective when playing a solo instrument Patch such as sax or flute. MONO: Only one note sounds at a time.		
Mono/Poly		POLY: Two or more notes can be played simultaneously. PAT: The Part uses the Patch's Mono/Poly setting.		
		PAT: The Part uses the Patch's Mono/Poly setting. NOTE This setting is ignored for parts to which a rhythm set is assigned.		
Legato Switch	OFF, ON, PAT	Turn this parameter "ON" when you want to use the Legato feature and "OFF" when you don't. Legato is a feature that works only when the Mono/Poly is MONO. When Legato is ON, pressing one key when another is already pressed causes the currently playing note's pitch to change to that of the newly pressed key while continuing to sound. This can be effective when you wish to simulate performance techniques such as a guitarist's hammering on and pulling off strings. When PAT is selected, the Patch's own settings take effect.		
		NOTE This setting is ignored for parts to which a rhythm set is assigned.		
Portamento Sw (Switch)	OFF, ON, PAT	Specify whether portamento will be applied. Turn this parameter "ON" when you want to apply Portamento and "OFF" when you don't. If you want to use the Portamento Switch setting of the patch assigned to the part, set this to "PAT." NOTE		
		This setting is ignored for parts to which a rhythm set is assigned.		
Portamento Time	0–127, PAT	When portamento is used, this specifies the time over which the pitch will change. Higher settings will cause the pitch change to the next note to take more time. If you want to use the Portamento Time setting of the patch assigned to the part, set this to "PAT."		
		NOTE This setting is ignored for parts to which a rhythm set is assigned.		
Vibrato Rate	-64-+63	For each part, adjust the vibrato speed (the rate at which the pitch is modulated). The pitch will be modulated more rapidly for higher settings, and more slowly with lower settings.		

Parameter	Value	Explanation	
Vibrato Depth	-64-+63	For each part, this adjusts the depth of the vibrato effect (the depth at which the pitch is modulated). The pitch will be modulated more greatly for higher settings, and less with lower settings.	
Vibrato Delay	-64-+63	For each part, this adjusts the time delay until the vibrato (pitch modulation) effect begins. Higher settings will produce a longer delay time before vibrato begins, while lower settings produce a shorter time.	
Velocity Sens Off (Velocity Sensitivity Off- set)	-63-+63	This changes the volume and cutoff frequency for each part according to the velocity with which the keys are pressed. If you want strongly played notes to raise the volume/cutoff frequency, set this parameter to positive (+) settings. If you want strongly played notes to lower the volume/cutoff frequency, use negative (-) settings. Set Velocity Sensitivity to "0" when you want sounds played at a fixed volume and cutoff frequency, regardless of the force with which the keys are played. NOTE Patches also contain a Velocity Sensitivity Offset setting (Velocity Sens: p. 91). The ultimate Velocity Sensitivity Offset value is the sum of the part's and the patch's Velocity Sensitivity Offsets. Accordingly, if the patch's Velocity Sensitivity Offset parameter is set to "127" (maximum), there will be no change in the part's Velocity Sensitivity Offset, even when this is set to a positive value.	
Bend Range	0–24, PAT	Specifies the amount of pitch change in semitones (2 octaves) that will occur when the Pitch Bend Lever is moved. The amount of change when the lever is tilted is set to the same value for both left and right sides. If you want to use the Pitch Bend Range setting of the patch assigned to the part, set this to "PAT."	
Key Fade Lower	0–127	Determines what will happen to the Part's level when a note that's lower than its specified keyboard range is played. Higher settings produce a more gradual change in volume. If you don't want the Tone to sound at all when a note below the keyboard range is played, set this parameter to 0.	
Key Range Lower	C-1-UPPER	Specifies the lowest note that the tone will sound for each part.	
Key Range Upper	LOWER-G9	Specifies the highest note that the tone will sound for each part. * It is not possible to set Lower to a value greater than the Upper value, or Upper to a value less than the Lower value.	
Key Fade Upper	0-127	This determines what will happen to the Part's level when a note that's higher than its specified keyboard range is played. Higher settings produce a more gradual change in volume. If you don't want the Tone to sound at all when a note above the keyboard range is played, set this parameter to 0. Level Level Level Key Fade Lower Value Key Fade Upper value	
Voice Reserve	0–63, FULL	Specifies the number of voices that reserved for each Part when more than 128 voices are played simultaneously. * It is not possible for the settings of all Parts to total an amount greater than 64. [Calculating the Number of Voices Being Used] The number of notes, or "voices," that the SonicCell can sound simultaneously depends on the number of Tones in the Patches you're using and the number of keys being pressed. For example, if you play one note using a Patch that consists of only one Tone, you'll use up one voice of polyphony. SonicCell Tones may use two Waveforms. If a Patch's Tone uses two Waveforms, the number of voices it requires is doubled. If two keys are pressed with a Patch that has four Tones, and each Tone uses two Waveforms, a total of sixteen voices are used. This number is obtained by performing the following calculation. Count the number of Tones with two Waveforms and multiply this number by 2. Add the number of Tones that use one Waveform. Multiply this total by the number of keys pressed. The SonicCell can play up to 128 Tones simultaneously. When you're using the SonicCell multitimbrally, keep this in mind, and adjust your Voice Reserve settings so that each Part is guaranteed at least the minimum number of voices it requires.	
Receive Channel	1–16	Specifies the MIDI receive channel for each part.	
- ROSCITO GIIGIIIGI	1 10	Specified the Miller receive channel for each part.	

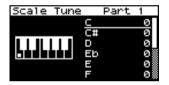
Parameter	Value	Explanation
Receive Switch	OFF, ON	For each part, specify whether MIDI messages will be received (ON), or not (OFF).
Scale Tune OFF, ON		The SonicCell allows you to use temperaments other than equal temperament. Press [CURSOR/VALUE] to access the Scale Tune screen (p. 72).

Scale Tune settings (Scale Tune screen)

In Performance mode you can specify a different scale tuning for each part. However, this setting will be common to the entire performance.

 In the Part Edit screen, select "Scale Tune" and press [CURSOR/VALUE].

The Scale Tune screen will appear.



- 2. Turn [CURSOR/VALUE] to select the key that you want to edit, then press [CURSOR/VALUE].
- 3. Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].
- 4. When you've finished editing, press [EXIT].

Parameter	Value	Explanation
C, C#, D, Eb, E, F, F#, G, G#, A, Bb, B	-64-+63	Adjusts the pitch of each note in one-cent steps (1/100th of a semitone) relative to its equal-tempered pitch.

Equal Temperament

This tuning divides the octave into 12 equal parts, and is the most widely used method of temperament used in Western music.

• Just Temperament (Tonic of C)

Compared with equal temperament, the principle triads sound pure in this tuning. However, this effect is achieved only in one key, and the triads will become ambiguous if you transpose.

Arabian Scale

In this scale, E and B are a quarter note lower and C#, F# and G# are a quarter-note higher compared to equal temperament. The intervals between G and B, C and E, F and G#, Bb and C#, and Eb and F# have a natural third-the interval between a major third and a minor third. On the SonicCell, you can use Arabian temperament in the three keys of G, C and F.

<Example>

Note name	Equal Temperament	Just Temperament (tonic C)	Arabian Scale	
С	0	0	-6	
C#	0	-8	+45	
D	0	+4	-2	
Eb	0	+16	-12	
Е	0	-14	-51	
F	0	-2	-8	
F#	0	-10	+43	
G	0	+2	-4	
G#	0	+14	+47	
Α	0	-16	0	
Bb	0	+14	-10	
В	0	-12	-49	

Sound Control Initialize

Initializes the values of only the following sound-related parameters for the current performance.

 Cutoff Offset, Resonance Offset, Attack Offset, Release Offset, Decay Offset, Vibrato Rate, Vibrato Depth, Vibrato Delay

When you select "Ctrl Init" from the Performance Menu screen (p. 58), a confirmation message will appear.



 If you want to carry out the initialization, select "OK" and press [CURSOR/VALUE].

If you decide not to execute, select "CANCEL" and press [CURSOR/VALUE].

When initialization is completed, you'll be returned to the previous screen.

Performance Initialize

Initializes the settings of the current performance.

When you select "Perf Init" from the Performance Menu screen (p. 58), a confirmation message will appear.



 If you want to carry out the initialization, select "OK" and press [CURSOR/VALUE].

If you decide not to execute, select "CANCEL" and press [CURSOR/VALUE].

When initialization is completed, you'll be returned to the previous screen.

Performance Write

Saves the current performance as user data.

When you select "Write" from the Performance Menu screen (p. 58), the Performance Name screen will appear. In this screen you can assign a name (performance name) of up to twelve characters to the performance you're saving.



- Move the cursor to the location where you want to enter a character, and press [CURSOR/VALUE].
- Turn [CURSOR/VALUE] to select the desired character, then press [CURSOR/VALUE] to enter that character.

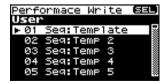
You can press [MENU] to view convenient functions for text entry.

Press [MENU] once again to return to the previous screen.



Function	Explanation
INSERT	Press [CURSOR/VALUE] to insert a space (blank) at the cursor location.
DELETE	Press [CURSOR/VALUE] to delete the character at the cursor location; subsequent characters will move forward.
UNDO	Revert to the unedited performance name.

- 3. Repeat steps 1 and 2 as many times as necessary.
- 4. When you've finished entering the performance name, move the cursor to "WRITE" and press [CURSOR/VALUE]. The Performance Write screen will appear.



5. Turn [CURSOR/VALUE] to select the save-destination performance, then press [CURSOR/VALUE].

A confirmation message will appear.



To write the performance into memory, select "OK" and press [CURSOR/VALUE].

If you decide you don't want to carry out the write, select "CANCEL" and press [CURSOR/VALUE].

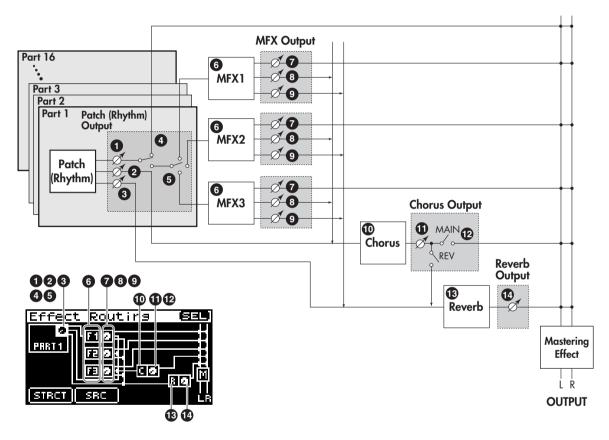
Once the data has been written, you'll be returned to the previous screen.

Editing effects

In Performance mode you can use three multi-effects (MFX1, MFX2, MFX3), one chorus, and one reverb. For each of the three multi-effects, the chorus, and the reverb, you can specify whether it will operate according to the effect settings of the performance, or according to the effect settings of the patch or rhythm set assigned to the part you specify.

The three multi-effects can be used independently, or you can connect two or three of them in series.

■ Signal flow.....

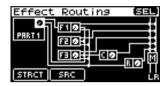


0-6	Make these settings in the Part Edit screen. ●: Output Level, ②: Chorus Send, ③: Reverb Send, ④: Output Assign, ⑤: Output MFX	p. 69
6	Make these settings in the MFX1-MFX3 screens. • Select the multi-effect type and edit the parameters.	p. 78
7 -9	Make these settings in the MFX1-MFX3 Output screens. →: Output Level, →: Chorus Send Level, : Reverb Send Level	p. 78
•	Make these settings in the Chorus screen. • Select the chorus type and edit the parameters.	p. 78
O - O	Make these settings in the Chorus Output screen. ①: Output Level, ②: Output Select	p. 79
®	Make these settings in the Reverb screen. • Select the reverb type and edit the parameters.	p. 79
•	Make these settings in the Reverb Output screen. Output Level	p. 79

■ Procedure

 From the MIDI INST screen or the Part View screen, press [EFFECTS].

The [EFFECTS] indicator will light, and the Effect Routing screen will appear.



- 2. Turn [CURSOR/VALUE] to move the cursor to the parameter that you want to edit.
- 3. Press [CURSOR/VALUE].



- Turn [CURSOR/VALUE] to move the cursor to the parameter that you want to edit.
- 5. Press [CURSOR/VALUE] to highlight the value. If there is a "SELECT" indicator for the value field, you can press [CURSOR/VALUE] to move to the editing screen for that parameter.
- Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].
- **7.** When you've finished editing, press [EXIT]. The Part View screen will appear.

■ Menu screens during effect editing

From the Effect Routing screen, press [MENU] to access the Menu screen.

The Menu screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.

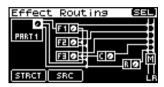
Press [MENU] once again to return to the Effect Routing screen.





Parameter	Value	Explanation
FX1-FX3 (MFX1-MFX3)	OFF, ON	Specifies whether MFX 1–3 will be used (ON) or not used (OFF).
CHO (Chorus Switch)	OFF, ON	Specifies whether chorus will be used (ON) or not used (OFF).
REV (Reverb Switch)	OFF, ON	Specifies whether Reverb will be used (ON) or not used (OFF).
MST (Mastering Effect Switch)	OFF, ON	Specifies whether Mastering Effect will be used (ON) or not used (OFF).
CTRL1-CTRL3 (MFX1-3 Control)		Make settings for controlling the multi-effects via MIDI. Press [CURSOR/VALUE] to access the MFX 1-3 Control screen (p. 81).
Write (Performance Write)		Saves the current performance as user data. Press [CURSOR/VALUE] to access the Performance Name screen (p. 73).
System		Press [CURSOR/VALUE] to access the System screen (p. 176).
Utility		Press [CURSOR/VALUE] to access the Utility screen (p. 182).
Demo Play		When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.
SRX Info (SRX Information)		Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).
Version (Version Information)		Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).

Selecting the item to edit (Effect Routing screen)

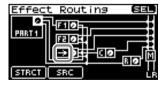


Parameter	Explanation				
р	Edits the part settings.				
Part (Part Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Part Edit screen (p. 69).				
F1-F3 (MFX1-MFX3)	Edits the multi-effect 1-3 settings. Press [CURSOR/VALUE] to access the MFX1-3 screen (p. 78).				
r: r: 🗖	Edits output-related settings for multi-effects 1–3.				
F1-F3 (MFX1-MFX3 Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the MFX1–3 Output screen (p. 78).				
С	Edits the chorus settings.				
(Chorus)	Press [CURSOR/VALUE] to access the Chorus screen (p. 78).				
c 🖸	Edits output-related settings for chorus.				
(Chorus Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Chorus Output screen (p. 79).				
R	Edits the reverb settings.				
(Reverb)	Press [CURSOR/VALUE] to access the Reverb screen (p. 79).				
R 🗷	Edits output-related settings for reverb.				
(Reverb Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Reverb Output screen (p. 79).				
M	Edits the mastering effect settings.				
(Mastering Effect)	Press [CURSOR/VALUE] to access the Mastering Effect screen (p. 181).				
STRCT	Specifies how MFX 1–3 will be combined.				
(MFX Structure)	Press [CURSOR/VALUE] to access the MFX Structure screen (p. 80).				
SRC	Selects how effects will operate.				
(Effect Source)	Press [CURSOR/VALUE] to access the Effect Source screen (p. 80).				

NOTE

If you've set MFX3 Location (p. 149) to "Input FX" in the In/Out Routing (p. 144), you won't be able to use MFX3 as a performance effect.

In this case, the MFX3 indication in the Effect Routing screen will be as follows.



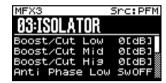
* MFX3-related settings will be displayed in screens other than the Effect Routing screen, and you'll be able to edit the values, but this will not affect the performance as long as MFX3 Location is set to Input FX.

Editing the multi-effects related settings (MFX1-3/MFX1-3 Output screens)

■ MFX1-3 screens

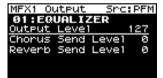


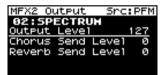
MFX2	Src:PFM
02:SPECTRUM	
Band1 (250Hz)	Ø[dB]
Band2 (500Hz)	0[dB] <u>"</u>
Band3(1000Hz)	Ø[dB]▒
Band4 (1250Hz)	Ø[dB]∭



Parameter	Value	Explanation
00: THRU-78: SYMRESONANCE (MFX Type)		Selects the types of multi-effects that MFX1-MFX3 will use. Choose "00: THRU" if you don't want to apply a multi-effect.
Parameters for each MFX type		Edit the parameters for the selected MFX type. Refer to "Multi-Effects Parameter (MFX1–3, MFX)" (p. 192).

■ MFX1-3 Output screens.....



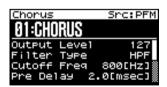




Parameter	Value	Explanation
Output Level	0–127	Adjusts the volume of the sound that has passed through the multi-effects. If you're applying a multi-effect, this specifies the depth of the multi-effect. If you're not applying a multi-effect, this specifies the volume of the original sound.
Chorus Send Level	0–127	Adjusts the amount of chorus for the sound that passes through multi-effects. If you don't want to add the Chorus effect, set it to "O.'
Reverb Send Level	0–127	Adjusts the amount of reverb for the sound that passes through multi-effects. If you don't want to add the Reverb effect, set it to "O."

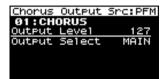
Chorus-related settings (Chorus/Chorus Output screen)

■ Chorus screen.....



Parameter	Value	Explanation
00: OFF-03: GM2 CHORUS (Chorus Type)		Selects the types of chorus. Choose "00: OFF" if you don't want to apply a chorus.
Parameters for each chorus type		Edit the parameters for the selected chorus type. Refer to "Chorus Parameters" (p. 219).

■ Chorus Output screen



Parameter	Value	Explanation	
Output Level	0–127	Adjusts the volume of the sound that has passed through chorus.	
Output Select	MAIN, REV, M+R	Specifies how MAIN: REV: M+R:	w the sound routed through chorus will be output. Output to the OUTPUT jacks in stereo. Output to reverb in mono. Output to the OUTPUT jacks in stereo, and to reverb in mono.

Reverb-related settings (Reverb/Reverb Output screen)

■ Reverb screen



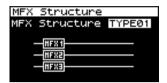
Parameter	Value	Explanation
00: OFF-03: GM2 REVERB (Chorus Type)		Selects the types of reverb. Choose "00: OFF" if you don't want to apply a reverb.
Parameters for each reverb	type	Edit the parameters for the selected reverb type. Refer to "Reverb Parameters" (p. 220).

■ Reverb Output screen



Parameter	Value	Explanation
Output Level	0–127	Adjusts the volume of the sound that has passed through reverb.

Changing how the multi-effects are combined (MFX Structure screen)



Parameter	Value	Explanation
MFX Structure	TYPE01- TYPE16	Specify how MFX1–3 will be connected. NOTE When TYPE05–TYPE10 is selected, the SonicCell can play a maximum of 64 sounds simultaneously.

Selecting how effects will operate (Effect Source screen)



Parameter	Value	Explanation
MFX1 Source	PFM, P1–P16	Selects the MFX1 settings that will be used by the performance. If you wish to use the performance settings, select "PFM." If you wish to use the settings of the patch/rhythm set assigned to one of the parts, select the part number (1–16).
MFX2 Source	PFM, P1–P16	Selects the MFX2 settings that will be used by the performance. If you wish to use the performance settings, select "PFM." If you wish to use the settings of the patch/rhythm set assigned to one of the parts, select the part number (1–16).
MFX3 Source	PFM, P1–P16	Selects the MFX3 settings that will be used by the performance. If you wish to use the performance settings, select "PFM." If you wish to use the settings of the patch/rhythm set assigned to one of the parts, select the part number (1–16).
Chorus Source	PFM, P1–P16	Selects the chorus settings that will be used by the performance. If you wish to use the performance settings, select "PFM." If you wish to use the settings of the patch/rhythm set assigned to one of the parts, select the part number (1–16).
Reverb Source	PFM, P1–P16	Selects the reverb settings that will be used by the performance. If you wish to use the performance settings, select "PFM." If you wish to use the settings of the patch/rhythm set assigned to one of the parts, select the part number (1–16).

Using MIDI to control the multi-effects (MFX1-3 Control screens)

Multi-Effects Control

If you wanted to change the volume of multi-effects sounds, the delay time of Delay, and the like, using an external MIDI device, you would need to send System Exclusive messages-MIDI messages designed exclusively for the SonicCell. However, System Exclusive messages tend to be complicated, and the amount of data that needs to be transmitted can get quite large.

For that reason, a number of the more typical of the SonicCell's multi-effects parameters have been designed so they accept the use of Control Change (or other) MIDI messages for the purpose of making changes in their values. For example, you can use the Pitch Bend lever to change the amount of distortion, or use the keyboard's touch to change the delay time of Delay. The parameters that can be changed are predetermined for each type of multi-effect; among the parameters described in "Multi-Effects Parameter (MFX1–3, MFX)" (p. 192), these are indicated by a "#."

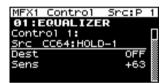
The function that allows you use MIDI messages to make these changes in realtime to the multi-effects parameters is called the Multi-effects Control.

You can specify up to four controls for each multi-effect MFX 1-3.

When the multi-effects control is used, you can select the amount of control (Sens) applied, the parameter selected (Dest), and the MIDI message used (Src).

TIP

By using the Matrix Control (p. 95) instead of the Multi-effects Control, you can also change the parameters of some popular multi-effects in realtime.





MFX3 Control 3	Sector 3
01:EQUALIZER	<i>n</i> e
Control 1:	П
Src CC64:HOLD-	1 ፟፟፟
Dest	OFF
Sens	+63 🎇

Parameter	Value	Explanation	
Control 1–4 Src (Source)	OFF, CC01–CC31, CC33–95, PITCH BEND, AFTERTOUCH, SYS CTRL1–4	Sets the MIDI messa effects control.	ge used to control the multi-effects parameter with the multi-
		OFF: CC01-31, 33-95: PITCH BEND: AFTERTOUCH: SYS CTRL1-4:	Multi-effects control will not be used. Controller numbers 1–31, 33–95 Pitch Bend Aftertouch Use the System Control setting (p. 179).
Control 1–4 Dest (Destination)	Refer to "Multi- Effects Parame- ter" (p. 192)		parameters to be controlled with the multi-effects control. The ters available for control will depend on the multi-effects type.
Control 1-4 Sens (Sensitivity)	-63-+63	If you wish to modify er value, toward the (+) value. If you wis i.e., a lower value, t	he multi-effects control's effect that is applied. The selected parameter in a positive (+) direction—i.e., a high- right, or faster, etc.—from its current setting, select a positive h to modify the selected parameter in a negative (-) direction— oward the left, or slower, etc.—from its current setting, select a ligher numbers produce a greater amount of change.
Control Channel	1–16, OFF	effects Control to mo	channel that will be used for reception when using the Multi- dify multi-effects parameters in real time, when the MFX1–3 Src this to "OFF" when the Multi-effects Control is not being used.

Viewing the Patch Play screen

1. Press [MIDI INST] so its indicator is lit.

At the same time, the [PART VIEW] indicator will also light, and the Patch Play screen will appear.





* If Sound Mode (p. 84) is set to "Performance," the MIDI INST screen (p. 58) will appear.
In this case, simultaneously press [MIDI INST] and [PART VIEW] to switch to the Patch screen.

- Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.
- 3. Press [CURSOR/VALUE] to highlight the value.

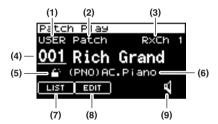


When you select "LIST" or "PATCH" and press [CURSOR/VALUE], an editing screen will appear.

- 4. Turn [CURSOR/VALUE] to edit the value.
- 5. When you've finished editing, press [CURSOR/VALUE].

If the patch type is Patch

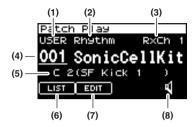
If in Patch mode you've set the current patch type to "Patch," the following screen will appear.



Para	meter	Value	Explanation	
(1)	Patch group	USER, PR-A–PR-G, GM XP-A, XP-B	Selects the patch group. USER: User PR-A-PR-G: Preset G-Preset G	
(1)	(1) Parch group		GM: General MIDI XP-A, XP-B: Wave Expansion Board A, Wave Expansion Board B * It is not possible to choose XP-A, XP-B unless a wave expansion board is inserted in to the corresponding slot.	
(2)	Patch type	Patch, Rhythm	Specifies whether the current part will use a patch or a rhythm set.	
(3)	Current part	Part1-Part 16	Selects the part (current part) that will be affected by your operations.	
(4)	Patch number/name	001–	Selects the patch.	
(5)	Category lock		Specifies whether the category will be locked () or not locked () when you select patches. If you lock the category, only sounds that are within the category will appear when you select patches.	
(6)	Patch category	CMB	Switches the category.	
(7)	LIST		Press [CURSOR/VALUE] to access the Patch List screen (p. 85, p. 86).	
(8)	EDIT		Press [CURSOR/VALUE] to access the Patch Edit screen (p. 89).	
(9)	Preview	0 , 0 %	If you switch the preview icon () to (), you'll be able to hear a preview sound played by that patch. (MEMO) The system Preview setting (p. 179) lets you specify how the preview will be sounded.	

If the patch type is Rhythm Set

If in Patch mode you've set the current patch type to "Rhythm," the following screen will appear.



Paran	neter	Value	Explanation	
(1)	Rhythm Set group	USER, PRST, GM, XP-A, XP-B	Selects the rhythm set group. USER: User PRST: Preset GM: General MIDI XP-A, XP-B: Wave Expansion Board A, Wave Expansion Board B * It is not possible to choose XP-A, XP-B unless a wave expansion board is inserted in to the corresponding slot.	
(2)	Patch type	Patch, Rhythm	Specifies whether the current part will use a patch or a rhythm set.	
(3)	Patch mode receive channel	1–16	Specifies the channel of MIDI messages that will be received from an external MIDI device.	
(4)	Rhythm Set number/name	001–	Selects the rhythm set.	
(5)	Editing key	A0-C8	Within the currently selected rhythm set, selects the key that you'll be editing.	
(6)	LIST		Press [CURSOR/VALUE] to access the Rhythm Set List screen (p. 87).	
(7)	EDIT		Press [CURSOR/VALUE] to access the Rhythm Edit screen (p. 118).	
(8)	Preview	a , a #	If you switch the preview icon () to (), you'll be able to hear a preview sound played by that rhythm set. MEMO The system Preview setting (p. 179) lets you specify how the preview will be sounded.	

Viewing the menu screen (Patch Menu screen)

1. Press [MIDI INST] so its indicator is lit.

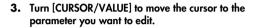
The Patch Play screen will appear.

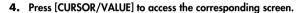
If the Sound Mode is set to "Performance," the MIDI INST screen (p. 58) will appear.

2. Press [MENU].

The Patch Menu screen will appear.

The Patch Menu screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.









Parameter	Explanation			
Tone Switch 1-4	Used to specify whether tones 1-4 will be used (ON) or not used (OFF).			
Snd (Sound) Mode	Lets you switch between Patch mode and Performance mode. Press [CURSOR/VALUE] to access the Sound Mode screen.			
Patch Init (Patch Initialize)	Initializes the settings of the current patch (p. 115).			
Write (Patch Write)	Saves the current patch as user data. Press [CURSOR/VALUE] to access the Patch Name screen (p. 116).			
System	Press [CURSOR/VALUE] to access the System screen (p. 176).			
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).			
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.			
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).			
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).			

Switching the sound mode (Sound Mode screen)



This specifies the mode of the MIDI sound module. The current mode is highlighted.

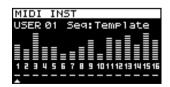
Turn [CURSOR/VALUE] to move the cursor, and press [CURSOR/VALUE] to specify the mode.

If you select "Patch" and press [CURSOR/VALUE], one of the following screens will appear depending on the Patch type setting (p. 82, p. 83).





If you select "Performance" and press [CURSOR/VALUE], the following screen will appear.

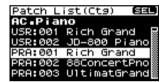


Selecting patches from a patch list

Selecting patches from a patch list by category (Patch List (Ctg) screen)

You can choose the patch from a list that's arranged by category.

- * When the power is turned on, the Patch List (Ctg) screen is selected.
- 1. Display the Patch Play screen.
- 2. Select "LIST" and press [CURSOR/VALUE]. The Patch List (Ctg) screen will appear.



- * If the Patch List (Grp) screen was displayed last, the Patch List (Grp) screen will appear.
 In this case, press [MENU] to access the Group Select screen, select "CATEG LIST," then press [CURSOR/VALUE] to access the Patch List (Ctg) screen.
- Turn [CURSOR/VALUE] to select a patch, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Part View screen.

■ Menu screen......



From the Patch List (Ctg) screen, press [MENU] to access the Category Select screen. Press [MENU] once again to return to the Patch List (Ctg) screen.

Parameter	Explanation	
	gory.	category (major classification) and returns to the patch list screen organized by cate- age the category by moving the cursor to the currently selected category (at the top of
		nd pressing [CURSOR/VALUE].
	Major Classification	Category
	PNO:	AC.Piano, EL.Piano
PNO, KBD, GTR, BAS, ORC,	KBD:	Keyboards, Bell, Mallet, Organ, Accordion, Harmonica
BRS, SYN, VCL, WLD	GTR:	AC.Guitar, EL.Guitar, Dist.Guitar
	BAS:	Bass, Synth Bass
	ORC:	Strings, Orchestra, Hit&Stab
	BRS:	Wind, Flute, AC.Brass, Synth Brass, Sax
	SYN:	Hard Lead, Soft Lead, Techno Synth, Pulsating, Synth FX, Other Synth
	VCL:	Bright Pad, Soft Pad, Vox
	WLD:	Plucked, Ethnic, Fretted, Percussion, Sound FX, Beat&Groove, Drums, Combination
	Press [CURSO	DR/VALUE] to access the Patch List (Grp) screen (p. 86).
GROUP LIST		move to the Patch List (Grp) screen, the Patch List (Grp) screen will appear when you "in the Patch Play screen.

Selecting patches from a patch list by group (Patch List (Grp) screen)

You can choose the patch from a list that's arranged by group, such as USER or expansion board.

- * When the power is turned on, the Patch List (Ctg) screen is selected.
- 1. Display the Patch Play screen.
- 2. Select "LIST" and press [CURSOR/VALUE].
 The Patch List (Ctg) screen will appear.
 - * If the Patch List (Grp) was displayed last, the Patch List (Grp) screen will appear. Proceed to step 5.
- 3. Press [MENU] to access the Category Select screen.

4. Choose "GROUP LIST" and press [CURSOR/VALUE].

The Patch List (Grp) screen will appear.



Turn [CURSOR/VALUE] to select a patch, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Patch Play screen.

■ Menu screen.....



From the Patch List (Grp) screen, press [MENU] to access the Group Select screen. Press [MENU] once again to return to the Patch List (Grp) screen.

Parameter	Explanation	
	Changes th	e group and returns to the patch list by group screen.
	USR:	User
	A-G:	Preset A–Preset G
USR, A-G, GM, EXA, EXB	GM:	General MIDI
	EXA, EXB:	Wave Expansion Board A, Wave Expansion Board B
	* It is not possible to choose EXA, EXB unless a wave expansion board is inserted in to the corresponding slot.	
Press [CURSOR/VALUE] to a		SOR/VALUE] to access the Patch List (Ctg) screen (p. 85).
CATEG (Category) LIST	* Once you	u move to the Patch List (Ctg) screen, the Patch List (Ctg) screen will appear when you ST" in the Patch Play screen.

Selecting a rhythm set from a list (Rhythm Set List screen)

If the patch type is "Rhythm," you can choose a rhythm set from a list.

- 1. Display the Patch Play screen.
- 2. Select "LIST" and press [CURSOR/VALUE]. Rhythm Set List screen will appear.



3. Turn [CURSOR/VALUE] to select a rhythm set, and press [CURSOR/VALUE].

The patch will change, and you'll be returned to the Patch Play screen.

■ Menu screen......



From the Rhythm Set List screen, press [MENU] to access the Group Select screen. Press [MENU] once again to return to the Rhythm Set List screen.

Parameter	Explanation	
	Changes the group and returns to the patch list by group screen.	
USR, PRESET, GM, EXA, EXB	USR:	User
	PRESET:	Preset
	GM:	General MIDI
	EXA, EXB:	Wave Expansion Board A, Wave Expansion Board B
	* It is not p sponding	ossible to choose EXA, EXB unless a wave expansion board is inserted in to the corre- slot.

Editing patches (Patch Edit screen)

1. Press [MIDI INST].

[MIDI INST] and [PART VIEW] will light, and the Patch Play screen will appear.

Turn [CURSOR/VALUE] to select "PATCH," then press [CURSOR/VALUE].

The Patch Edit screen will appear.



- Turn [CURSOR/VALUE] to select the item you want to edit, then press [CURSOR/VALUE].
 - The editing screen for the selected item will appear.
- 4. Turn [CURSOR/VALUE] to select the parameter you want to edit, then press [CURSOR/VALUE].
 - The value of the selected parameter will be highlighted.
- Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].

■ Menu screens during patch editing

If you press [MENU] while editing a patch, the menu screen will appear.

The Menu screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.





Parameter	Explanation		
Tone Select 1-4	Changes the current tone (the one targeted for editing), and returns to the previous screen.		
Tone Switch 1-4	Used to specify whether tones 1-4 will be used (ON) or not used (OFF).		
Tone Copy	Copies the settings of a patch's tone to one of the tones of the currently selected patch. Press [CURSOR/VALUE] to access the Patch Tone Copy screen (p. 115).		
Patch Init (Patch Initialize)	Returns the current patch settings to their initial values (p. 115).		
Write (Patch Write)	Saves the current patch as user data. Press [CURSOR/VALUE] to access the Patch Name screen (p. 116).		
System	Press [CURSOR/VALUE] to access the System screen (p. 176).		
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).		
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.		
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).		
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).		

■ Patch Edit screen

The Patch Edit screen is organized as follows.

You can turn [CURSOR/VALUE] to the right or left to switch between screens.

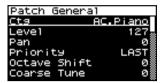


Parameter	Value	Explanation
GENERAL		Edits overall settings for the entire patch. Press [CURSOR/VALUE] to access the Patch General screen (p. 90).
STRUCTURE		Selects the combination of tones. Press [CURSOR/VALUE] to access the Patch Structure screen (p. 93).
MATRIX CTRL (Control) 1/2/3/4		Specifies matrix control settings. Press [CURSOR/VALUE] to access the Patch Mtrx Ctrl 1/2/3/4 screen (p. 95).
Tone	1&2, 3&4	Selects either 1 & 2 or 3 & 4 as the combination of tones that will be shown in the screen.
WG		Edits waveform-related settings. Press [CURSOR/VALUE] to access the Patch WG screen (p. 98).
WG / (Pitch Envelope)		Edits pitch envelope settings. By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Patch Pitch Env screen (p. 101).
TVF		Edits TVF settings. Press [CURSOR/VALUE] to access the Patch TVF screen (p. 102).
TVF / (TVF Envelope)		Edits TVF envelope settings. By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Patch TVF Env screen (p. 104).
TVA		Edits TVA settings. Press [CURSOR/VALUE] to access the Patch TVA screen (p. 105).
TVA /— (TVA Envelope)		Edits TVA envelope settings. By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Patch TVA Env screen (p. 107).
OUT (Output)		Edits settings for the patch/tone output. Press [CURSOR/VALUE] to access the Patch Output screen (p. 108).
LFO 1/2		Edits LFO1,2 settings. Press [CURSOR/VALUE] to access the Patch LFO 1/2 screen (p. 109).
LFOS (Step LFO)		Edits step LFO settings. Press [CURSOR/VALUE] to access the Patch Step LFO screen (p. 112).
TMT (Tone Mix Table)		Specifies how the tones will be heard. Press [CURSOR/VALUE] to access the Patch TMT screen (p. 112).
CTRL (Control)		Edits controller-related settings. Press [CURSOR/VALUE] to access the Patch Ctrl screen (p. 114).

* If the Str Type (p. 93) is set to any value other than 1, two screens will be shown for WG-OUT.



Overall settings for the entire patch (Patch General screen)



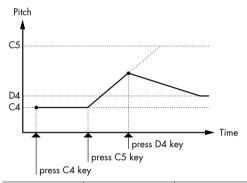
Parameter	Value	Explanation
Ctg (Category)	refer to "Patch Category" (p. 63)	Specifies the type (category) of the patch.
Level	0–127	Specifies the volume of the Patch. * You can specify the level of each Tone in a Patch using the Tone Level (TVA p. 105).
Pan	L64-63R	Sets the stereo position of the Patch. L64 pans the Patch all the way to the left, 0 is center and 63R pans it hard right. * You can specify the pan setting for each Tone in a Patch using the Tone Pan (TVA p. 106). * While each Tone in a Patch has its own Pan position, the Patch pan setting shifts the entire Patch—including all of its Tones—leftward or rightward
Priority	LAST, LOUDEST	This determines how notes will be managed when the maximum polyphony is exceeded (128 voices). LAST: The last-played voices will be given priority, and currently sounding notes will be turned off in order, beginning with the first-played note. LOUDEST: The voices with the loudest volume will be given priority, and currently sounding notes will be turned off, beginning with the lowest-volume voice.
Octave Shift	-3-+3	Adjusts the pitch of the patch's sound up or down in units of an octave (+/-3 octaves).
Coarse Tune	-48-+48	Adjusts the pitch of the patch's sound up or down in semitone steps (+/-4 octaves).
Fine Tune ★	-50-+50	Adjusts the pitch of the patch's sound up or down in 1-cent steps (+/-50 cents). *You can use matrix control to modify this. (p. 95)
Strech Tune (Strech Tune Depth)	OFF, 1–3	This setting allows you to apply "stretched tuning" to the patch. (Stretched tuning is a system by which acoustic pianos are normally tuned, causing the lower range to be lower and the higher range to be higher than the mathematical tuning ratios would otherwise dictate.) With a setting of "OFF," the patch's tuning will be equal temperament. A setting of "3" will produce the greatest difference in the pitch of the low and high ranges. The diagram shows the pitch change relative to equal temperament that will occur in the low and high ranges. This setting will have a subtle effect on the way in which chords resonate. Pitch difference from equal temperament OFF High note range High note range
Analog Feel (Analog Feel Depth)	0–127	Specifies the depth of 1/f modulation that is to be applied to the patch. (1/f modulation is a pleasant and naturally-occurring ratio of modulation that occurs in a babbling brook or rustling wind.) By adding this "1/f modulation," you can simulate the natural instability characteristic of an analog synthesizer.
Cutoff Offset	-63-+63	Cutoff Offset alters the cutoff frequency of the overall patch, while preserving the relative differences between the cutoff frequency values set for each tone in the Cutoff Frequency (p. 102). NOTE This value is added to the cutoff frequency value of a tone, so if the cutoff frequency value of any tone is already set to "127" (maximum), positive "+" settings here will not produce any change.

Parameter	Value	Explanation					
Resonance Offset	-63-+63	Resonance Offset alters the resonance of the overall presences between the resonance values set for each to * Resonance: emphasizes the overtones in the region acter to the sound. NOTE This value is added to the resonance value of a tone, is already set to "127" (maximum), positive "+" setting.	one in the Resonance (p. 103). of the cutoff frequency, adding char- so if the resonance value of any tone				
Attack Offset (Attack Time Offset)	-63-+63	Attack Offset alters the attack time of the overall patch, while preserving the relative differences between the attack time values set for each tone in the A-Env Time 1 (p. 107), F-Env Time 1 (p. 105). * Attack Time: The time it takes for a sound to reach maximum volume after the key is pressed and sound begun. NOTE This value is added to the attack time value of a tone, so if the attack time value of any tone is already set to "127" (maximum), positive "+" settings here will not produce any change.					
Release Offset (Release Time Offset)	-63-+63	Release Offset alters the release time of the overall patch, while preserving the relative differences between the release time values set for each tone in the A-Env Time 4 (p. 107), F-Env Time 4 (p. 105). * Release Time: The time from when you take your finger off the key until the sound disappears. ** ROTE This value is added to the release time value of a tone, so if the release time value of any one is already set to "127" (maximum), positive "+" settings here will not produce any change.					
Velocity Sens (Velocity Sensi- tivity Offset)	-63-+63	Velocity Sensitivity Offset alters the Velocity Sensitivity of the overall patch while preserving the relative differences between the Velocity Sensitivity values set for each tone in the parameters below. Cutoff V-Sens (p. 103) Level V-Sens (p. 105) * Velocity: Pressure with which the key is pressed. NOTE This value is added to the velocity sensitivity value of a tone, so if the velocity sensitivity value of any tone is already set to "+63" (maximum), positive "+" settings here will not produce any change.					
Mono/Poly	MONO, POLY	Specifies whether the patch will play polyphonically (POLY) or monophonically (MONO). The "MONO" setting is effective when playing a solo instrument patch such as sax or flute. MONO: Only the last-played note will sound. POLY: Two or more notes can be played simultaneously.					
Legato Switch	OFF, ON	This setting specifies whether the Legato Switch will be used (ON) or not (OFF). Legato Switch is valid when the Mono/Poly parameter is set to "MONO." With the Legato Switch "ON," pressing a key while continuing to press a previous key causes the note to change pitch to the pitch of the most recently pressed key, sounding all the while. This creates a smooth transition between notes, which is effective when you wish to simulate the hammering-on and pulling-off techniques used by a guitarist.	Let's say you have the Legato Switch set to "ON," and the Legato Retrigger set to "OFF." When you try to sound a legato (by pressing a higher key while a lower key is held down), the pitch may sometimes not be able to rise				
Legato Retriger (Retrigger)	OFF, ON	The setting determines whether sounds are replayed (ON) or not (OFF) when performing legato. The Legato Retrigger is valid when the Mono/Poly is set to "MONO" and the Legato Switch is set to "ON." Normally you will leave this parameter "ON." When "OFF," when one key is held down and another key is then pressed, only the pitch changes, without the attack of the latter key being played. Set this to "OFF" when performing wind and string phrases or when using modulation with the mono synth keyboard sound.	intermediate pitch). This can occur because the limit of pitch rise, as determined at the wave level, has been exceeded. Additionally, if differing upper pitch limits are used for the waves of a Patch that uses multiple tones, it may stop being heard in MONO. When making large pitch changes, set the Legato Retrigger to "ON."				

Parameter	Value	Explanation					
Porta Sw (Portamento Switch)	OFF, ON	Specifies whether the portamento effect will be applied (ON) or not (OFF). * Portamento is an effect which smoothly changes the pitch from the first-played key to the next-played key. By applying portamento when the Mono/Poly is "MONO," you can simulate slide performance techniques on a violin or similar instrument.					
Porta Mode (Portamento Mode)	NORMAL, LEGATO	Specifies the performance conditions for which portamento will be applied. NORMAL: Portamento will always be applied. LEGATO: Portamento will be applied only when you play legato (i.e., when you press the next key before releasing the previous key).					
Porta Type (Portamento Type)	RATE, TIME	Specifies the type of portamento effect. RATE: The time it takes will depend on the distance between the two pitches. TIME: The time it takes will be constant, regardless of how far apart in pitch the notes are.					
Porta Start (Portamento Type)	PITCH, NOTE	When another key is pressed during a pitch change produced by portamento, a new pitch change will begin. This setting specifies the pitch at which the change will begin.					

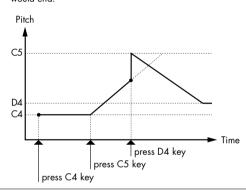
PITCH:

Starts a new portamento when another key is pressed while the pitch is changing.



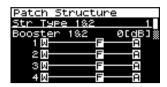
NOTE:

Portamento will begin anew from the pitch where the current change would end.

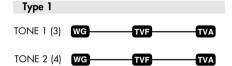


Porta Time (Portamento Time)	0–127	When portamento is used, this specifies the time over which the pitch will change. Higher settings will cause the pitch change to the next note to take more time.
Part Mod Sw (Part Modulation Depth Switch)	OFF, ON	Specifies whether the part's modulation depth range setting (the value specified by RPN) will be enabled (ON) or disabled (OFF).

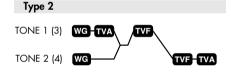
Selecting how tones are combined (Patch Structure screen)



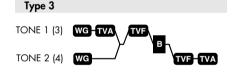
Parameter	Value	Explanation			
Str (Structure) Type 1&2, 3&4	1–10	Determines how Tone 1 and 2, and Tone 3 and 4 are connected. The displayed symbols have the following meanings. B: Booster R: Ring Modulator			
Booster 1&2, 3&4	0, +6, +12, +18	When a Structure Type of TYPE 3 or TYPE 4 is selected, you can adjust the depth of the booster. Higher settings will produce more distortion.			



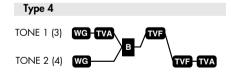
With this type, tones 1 and 2 (or 3 and 4) are independent. Use this type when you want to preserve PCM sounds or create and combine sounds for each tone.



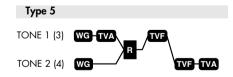
This type stacks the two filters together to intensify the characteristics of the filters. The TVA for tone 1 (or 3) controls the volume balance between the two tones.



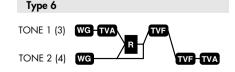
This type mixes the sound of tone 1 (3) and tone 2 (4), applies a filter, and then applies a booster to distort the waveform.



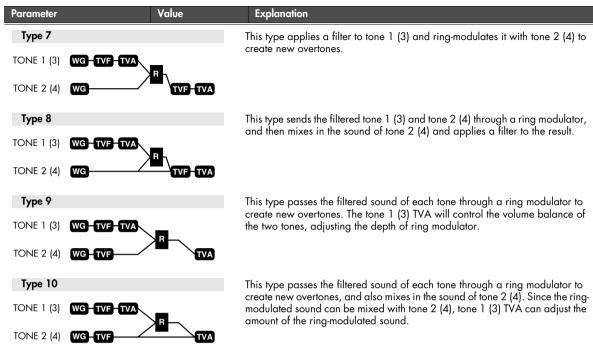
This type applies a booster to distort the waveform, and then combines the two filters. The TVA for tone 1 (or 3) controls the volume balance between the two tones and adjusts booster level.



This type uses a ring modulator to create new overtones, and combines the two filters. The tone 1 (3) TVA will control the volume balance of the two tones, adjusting the depth of ring modulator.



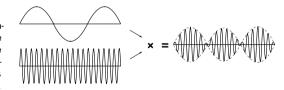
This type uses a ring modulator to create new overtones, and in addition mixes in the sound of tone 2 (4) and stacks the two filters. Since the ring-modulated sound can be mixed with tone 2 (4), tone 1 (3) TVA can adjust the amount of the ring-modulated sound.



- When TYPE 2-10 is selected and one tone of a pair is turned off, the other tone will be sounded as TYPE 1 regardless of the displayed setting.
- If you limit the keyboard area in which a tone will sound (Keyboard Range p. 112, p. 113) or limit the range of velocities for which it will sound (Velocity Range p. 113), the result in areas or ranges where the tone does not sound is just as if the tone had been turned off. This means that if TYPE 2–10 is selected and you create a keyboard area or velocity range in which one tone of a pair does not sound, notes played in that area or range will be sounded by the other tone as TYPE 1 regardless of the displayed setting.

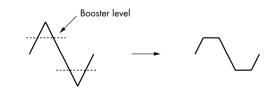
Ring Modulator

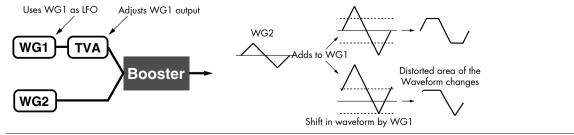
A ring modulator multiplies the waveforms of two tones with each other, generating many new overtones (in harmonic partials) which were not present in either waveform. (Unless one of the waveforms is a sine wave, evenly-spaced frequency components will not usually be generated.) As the pitch difference between the two waveforms changes the harmonic structure, the result will be an unpitched metallic sound. This function is suitable for creating metallic sounds such as bells.



Booster

The Booster is used to distort the incoming signal. In addition to using this to create distortion, you can use the waveform (WG1) of one of the tones as an LFO which shifts the other waveform (WG2) upward or downward to create modulation similar to PWM (pulse width modulation). This parameter works best when you use it in conjunction with the Wave Gain (p. 98).





Settings for matrix control (Patch Mtrx Ctrl 1-4 screens)

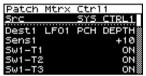
Matrix Control

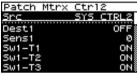
Ordinarily, if you wanted to change tone parameters using an external MIDI device, you would need to send System Exclusive messages-MIDI messages designed exclusively for the SonicCell. However, System Exclusive messages tend to be complicated, and the amount of data that needs to be transmitted can get quite large.

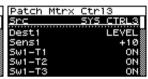
For that reason, a number of the more typical of the SonicCell's tone parameters have been designed so they accept the use of Control Change (or other) MIDI messages for the purpose of making changes in their values. This provides you with a variety of means of changing the way patches are played. For example, you can use the Pitch Bend lever to change the LFO cycle rate, or use the keyboard's touch to open and close a filter.

The function which allows you use MIDI messages to make these changes in realtime to the tone parameters is called the "Matrix Control." Up to four Matrix Controls can be used in a single patch.

To use the Matrix Control, specify which MIDI message (Src) will be used to control which parameter (Dest), and how greatly (Sns), and the tone to which the effect is applied (Tone).









Parameter

Value

Explanation

Sets the MIDI message used to change the tone parameter with the Matrix Control.

OFF: Matrix control will not be used. **CC01-31, 33-95:** Controller numbers 1-31, 33-95

PITCH BEND: Pitch Bend AFTERTOUCH: Aftertouch

SYS CTRL1-4: MIDI messages used as common matrix controls.

VELOCITY:Velocity (pressure you press a key with)KEYFOLLOW:Keyfollow (keyboard position with C4 as 0)

TEMPO: The system tempo (p. 177) or the tempo of an external MIDI sequencer.

 LFO1:
 LFO 1

 LFO2:
 LFO 2

 PITCH ENV:
 Pitch envelope

 TVF ENV:
 TVF envelope

 TVA ENV:
 TVA envelope

cf.

Src (Control Source) For more information about Control Change messages, please refer to "MIDI Implementation" (p. 246).

MEMO

Velocity and Keyfollow correspond to Note messages.

TIP

Although there are no MIDI messages for LFO 1 through TVA Envelope, they can be used as Matrix Control. In this case, you can change the tone settings in realtime by playing patches.

 If you want to use common controllers for the entire SonicCell, select "SYS CTRL1"-"SYS CTRL4." MIDI messages used as System Control 1-4 are set with the Src1-4 (p. 179).

NOTE

There are parameters that determine whether or not Pitch Bend, Controller Number 11 (Expression) and Controller Number 64 (Hold 1) are received (p. 114). When these settings are "ON," and the MIDI messages are received, then when any change is made in the settings of the desired parameter, the Pitch Bend, Expression, and Hold 1 settings also change simultaneously. If you want to change the targeted parameters only, then set these to "OFF."

There are parameters that let you specify whether specific MIDI messages will be received for
each channel in a performance (p. 72). When a patch with Matrix Control settings is assigned
to a part, confirm that any MIDI messages used for the Matrix Control will be received. If the
SonicCell is set up such that reception of MIDI messages is disabled, then the Matrix Control will
not function.

Parameter	Value	Explanation
	Control. The followi	ination selects the tone parameter that is to be controlled when using the Matrix ng parameters can be controlled. When not controlling parameters with the Mato "OFF." Up to four parameters can be specified for each Matrix Control, and easyly.
	In this manual, Para	ameters that can be controlled using the Matrix Control are marked with a "★."
	• If you're not usi OFF:	ng Matrix Control Matrix Control will not be used.
	Changing the Pi PITCH:	Changes the pitch.
	Opening and Cl	osina the Filter
	CUTOFF: RESONANCE:	Changes the cutoff frequency. Emphasizes the overtones in the region of the cutoff frequency, adding character to the sound.
	● Changing the V	olume and Pan
	LEVEL: PAN:	Changes the volume level. Changes the pan.
	• Changing How	the Effects Are Applied
	OUTPUT LEVEL:	Changes the volume of output levels.
	CHORUS SEND:	Changes the amount of chorus.
	REVERB SEND:	Changes the amount of reverb.
Dest (Control Destination)	• Applying LFO to LFO1/LFO2 PCH DE LFO1/LFO2 TVF DEI LFO1/LFO2 TVA DE LFO1/LFO2 PAN DE LFO1/LFO2 RATE:	PTH: Changes the wah depth. PTH: Changes the tremolo depth.
	• Changing the B	
	 Changing the P PIT ENV A-TIME: 	Changes the Env Time 1 of the pitch envelope.
	PIT ENV D-TIME:	Changes the Env Time 2 and Env Time 3 of the pitch envelope.
	PIT ENV R-TIME:	Changes the Env Time 4 of the pitch envelope.
	 Changing the T 	VF Envelope
	TVF ENV A-TIME:	Changes the Env Time 1 of the TVF envelope.
	TVF ENV D-TIME:	Changes the Env Time 2 and Env Time 3 of the TVF envelope.
	TVF ENV R-TIME:	Changes the Env Time 4 of the TVF envelope.
	 Changing the T TVA ENV A-TIME: TVA ENV D-TIME: TVA ENV R-TIME: 	VF Envelope Changes the Env Time 1 of the TVA envelope. Changes the Env Time 2 and Env Time 3 of the TVA envelope. Changes the Env Time 4 of the TVA envelope.
	 Splitting Tones 1 TMT 	hat Are Played
	If the Matrix Control Control Switch (p. 1 If the Matrix Con "+63." Selecting reverse the effect	I is used to split tones, set the TMT Velo Ctrl (p. 112) to "OFF," and the TMT 112) to "ON." strol is used to split tones, we recommend setting the Matrix Control Sens to a lower value may prevent switching of the tones. Furthermore, if you want to t, set the value to "-63." e matrix control to switch smoothly between tones, use the Velo Fade Lower and
	Velo Fade Upper tones.	r (p. 113). The higher the values set, the smoother the switch is between the

Parameter	Value	Explanation				
	● Changing the De FXM DEPTH	pth of Frequency Modulation for FXM				
Dest (Control Destination)	Changing Specific Multi-Effects Parameters MFX CTRL1-4: Change the parameter that was specified by MFX Control 1–4 Assign parameter.					
		e the necessary settings for using the multi-effect, the multi-effect will not be attempt to control it as a Matrix Control destination.				
Sens (Control Sensitivity)	-63-+63	Sets the amount of the Matrix Control's effect that is applied. If you wish to modify the selected parameter in a positive (+) direction – i.e., a higher value, toward the right, or faster etc. – from its current setting, select a positive (+) value. If you wish to modify the selected parameter in a negative (-) direction – i.e., a lower value, toward the left, or slower etc. – from its current setting, select a negative (-) value. For either positive or negative settings, greater absolute values will allow greater amounts of change. Set this to "0" if you don't want to apply the effect.				
Sw1-T1-T4-Sw4-T1-T4 (Tone Control Switch T1-T4)	OFF, ON, REVS	Matrix Control Tone selects the tone to which the effect is applied when using the Matrix Control. OFF: The effect will not be applied. ON: The effect will be applied. REVS: The effect will be applied in reverse.				

■ Cautions When Selecting a Waveform

The sounds of the SonicCell are based on complex PCM waveforms, and if you attempt to make settings that are contrary to the type of the original waveform, the results will not be as you expect.

The internal waveforms of the SonicCell fall into the following two groups.

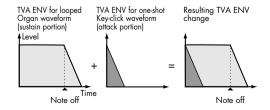
One-shot:

These waveforms contain sounds that have short decays. A one-shot waveform records the initial rise and fall of the sound. Some of the SonicCell's one-shot waveforms are sounds that are complete in themselves, such as percussive instrument sounds. The SonicCell also contains many other one-shot waveforms that are elements of other sounds. These include attack components such as piano-hammer sounds and guitar fret noises.

Looped

These waveforms include sounds with long decays as well as sustained sounds. Loop waveforms repeatedly play back (loop) the portion of the waveform after the sound has reached a relatively steady state. The SonicCell's looped waveforms also include components of other sounds, such as piano-string resonant vibrations and the hollow sounds of brass instruments.

The following diagram shows an example of sound (electric organ) that combines one-shot and looped waveforms.

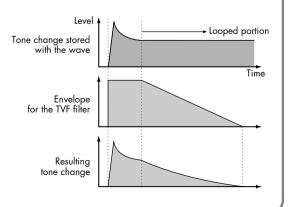


Cautions When Using a One-shot Waveform

It is not possible to use the envelope to modify a one-shot waveform to create a decay that is longer than the original waveform, or to turn it into a sustaining sound. If you were to program such an envelope, you would be attempting to shape a portion of the sound that simply doesn't exist, and the envelope would have no effect.

Cautions When Using a Loop Waveform

With many acoustic instruments such as piano and sax, extreme timbral changes occur during the first few moments of each note. This initial attack is what defines much of the instrument's character. For such waveforms, it is best to use the complex tonal changes of the attack portion of the waveform just as they are, and to use the envelope only to modify the decay portion. If you attempt to use the envelope to modify the attack portion as well, the characteristics of the original waveform may prevent you from getting the sound that you intend.



Waveform-related settings (Patch WG/Patch Pitch Env screen)

■ Patch WG screen

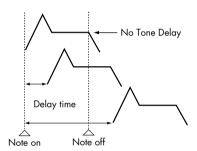


Parameter	Value	Explanation				
Wave Group	INT, EXP	Selects the group for the waveform that is to be the basis of the tone. INT: Waveforms stored in internal memory EXP: Waveform stored in a Wave Expansion Board (SRX series) installed in EXP slots. * It's not possible to select EXP unless a wave expansion board is inserted into the corresponding slot.				
Wave Bank	A, B	Selects the wave bank when the wave group is set to "EXP." A: Wave Expansion Board A B: Wave Expansion Board B * When the wave group is set to "INT," the "" message appears and you cannot select a wave bank. * You cannot select a wave bank of a Wave Expansion Board that is not installed.				
Wave No. L (MONO)		Chooses the desired waveform. You can choose a separate waveform for				
Wave No. R	1–1401	the SonicCell's left and right channels. * For mono tones, assign a waveform to the L channel. No sound will be heard if a waveform is set for only the R channel. * In the case of a wave from a wave expansion board, the range (number of waveforms) will depend on the board you've selected.				
Wave Gain	-6, 0, +6, +12	Sets the gain (amplification) of the waveform. The value changes in 6 dB				
Wave Tempo Sync	OFF, ON	When you wish to synchronize a Phrase Loop to the clock (tempo), set this to "ON." This is valid only when a separately sold wave expansion board is installed, and a waveform that indicates a tempo (BPM) is selected as the sample for a tone. NOTE If a waveform from a wave expansion board is selected for the tone, turning the Wave Tempo Sync parameter "ON" will cause pitch-related settings and FXM-related settings to be ignored. • When the Wave Tempo Sync is set to "ON," set the Tone Delay Time (p. 100) to "0." With other settings, a delay effect will be applied, and you will be not be able to play as you expect. Phrase Loop Phrase Loop Phrase Loop refers to the repeated playback of a phrase that's been pulled out of a song (e.g., by using a sampler). One technique involving the use of				
		Phrase Loops is the excerpting of a Phrase from a pre-existing song in a certain genre, for example dance music, and then creating a new song with that Phrase used as the basic motif. This is referred to as "Break Beats." This sets whether FXM will be used (ON) or not (OFF). FXM				
FXM Switch	OFF, ON	FXM (Frequency Cross Modulation) uses a specified waveform to apply frequency modulation to the currently selected waveform, creating complex overtones. This is useful for creating dramatic sounds or sound effects.				

Parameter	Value	Explanation
FXM Color	1–4	Specifies how FXM will perform frequency modulation. Higher settings result in a grainier sound, while lower settings result in a more metallic sound.
FXM Depth ★	0–16	Specifies the depth of the modulation produced by FXM. ★You can use matrix control to modify this. (p. 95)
Tone Delay Mode	NORM, HOLD, OFFN, OFFD	Tone Delay This produces a time delay between the moment a key is pressed (or released), and the moment the tone actually begins to sound. You can also make settings that shift the timing at which each tone is sounded. This differs from the Delay in the internal effects, in that by changing the sound qualities of the delayed tones and changing the pitch for each tone, you can also perform arpeggio-like passages just by pressing one key. You can also synchronize the tone delay time to the tempo of the external MIDI sequencer.

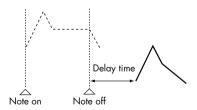
NORM:

The tone begins to play after the time specified in the Delay Time parameter has elapsed.



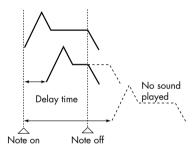
OFFN:

Rather than being played while the key is pressed, the tone begins to play once the period of time specified in the Delay Time parameter has elapsed after release of the key. This is effective in situations such as when simulating noises from guitars and other instruments.



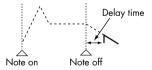
HOLD:

Although the tone begins to play after the time specified in the Delay Time parameter has elapsed, if the key is released before the time specified in the Delay Time parameter has elapsed, the tone is not played.



OFFD:

Rather than being played while the key is pressed, the tone begins to play once the period of time specified in the Delay Time parameter has elapsed after release of the key. Here, however, changes in the TVA Envelope begin while the key is pressed, which in many cases means that only the sound from the release portion of the envelope is heard.



- If you have selected a waveform that is a decay-type sound (i.e., a sound that fades away naturally even if the key is not released), selecting "OFFN" or "OFFD" may result in no sound being heard.
- If you don't wish to use Tone Delay, set Tone Delay to "NORM" and Tone Delay Time to "0."

MEMO

If the Str Type (p. 93) set in the range of "2"—"10," the output of tones 1 and 2 will be combined into tone 2, and the output of tones 3 and 4 will be combined into tone 4. For this reason, tone 1 will follow the settings of tone 2, and tone 3 will follow the settings of tone 4.

Parameter	Value	Explanation					
Tone Delay Time	0127, Note (* 1)	Specifies the time from when the key is pressed (or if the Delay Mode parameter is set to "OFF-N" or "OFF-D," the time from when the key is released) until when the tone will sound. Tone Delay Time specifies the beat length for the synchronized tempo when the tempo that specifies the elapsed time until the tone is sounded (Patch Tempo) is synchronized with the tempo set in an external MIDI sequencer. (Example) For a tempo of 120 (120 quarter notes occur in 1 minute (60 seconds)) J (half note) 1 second (60/60= 1 (second)) J (quarter note) 0.5 seconds (60/120= 0.5 (seconds))					
Tone Coarse Tune ★	-48+48	Adjusts the pitch of the tone's sound up or down in semitone steps (+/-4 octaves). **You can use matrix control to modify this. (p. 95)					
Tone Fine Tune ★	-50-+50	Adjusts the pitch of the tone's sound up or down in 1-cent steps (+/-50 cents). * One cent is 1/100th of a semitone. * You can use matrix control to modify this. (p. 95)					
Random Pch Dpth (Random Pitch Depth)	0–9, 10–90, 100–1200	0–90, a key is pressed. If you do not want the pitch to change randomly, set this					
Pitch Keyfollow	-200-+200	This specifies the amount of pitch change that will occur when you play a key one octave higher (i.e., 12 keys upward on the keyboard). If you want the pitch to rise one octave as on a conventional keyboard, set this to "+100." If you want the pitch to rise two octaves, set this to "+200." Conversely, set this to a negative value if you want the pitch to fall. With a setting of "0," all keys will produce the same pitch. Pitch +200 +100 +50 0 C1 C2 C3 C4 C5 C6 C7 Key					
Bend Range Up	0-+48	Specifies the degree of pitch change in semitones when the Pitch Bend lever is all the way right. For example, if this parameter is set to "12," the pitch will rise one octave when the pitch bend lever is moved to the right-most position.					
Bend Range Down	048	Specifies the degree of pitch change in semitones when the Pitch Bend lever is all the way left. For example if this is set to "-48" and you move the pitch bend lever all the way to the left, the pitch will fall 4 octaves.					

*1 Note values

∌₃	Sixty-fourth-note triplet	♪	Sixty-fourth note	\mathbb{A}_3	Thirty-second-note triplet	A	Thirty-second note	\mathbb{N}_3	Sixteenth-note triplet	A	Dotted thirty-second note
1	Sixteenth note	\mathcal{J}_3	Eighth-note triplet	A	Dotted sixteenth note	Þ	Eighth note	-3	Quarter-note triplet	₽.	Dotted eighth note
J	Quarter note	3	Half-note triplet]	Dotted quarter note	J	Half note	03	Whole-note triplet	-0	Dotted half note
0	Whole note	liol(3	Double-note triplet	o	Dotted whole note	lioil	Double note				

■ Patch Pitch Env screen.....



Parameter	Value	Explanation
P-Env Depth (Pitch Envelope Depth)	-12-+12	Adjusts the effect of the Pitch Envelope. Higher settings will cause the pitch envelope to produce greater change. Negative (-) settings will invert the shape of the envelope.
P-Env V-Sens (Pitch Envelope Velocity Sensi- tivity)	-63-+63	Keyboard playing dynamics can be used to control the depth of the pitch envelope. If you want the pitch envelope to have more effect for strongly played notes, set this parameter to a positive (+) value. If you want the pitch envelope to have less effect for strongly played notes, set this to a negative (-) value.
P-Env T1 V-Sens (Pitch Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the Pitch envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
P-Env T4 V-Sens (Pitch Envelope Time 4 Velocity Sensitivity)	-63-+63	Use this parameter when you want key release speed to affect the Time 4 value of the pitch envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
P-Env Time KF (Pitch Envelope Time Keyfollow)	-100-+100	Use this setting if you want the pitch envelope times (Time 2–Time 4) to be affected by the keyboard location. Based on the pitch envelope times for the C4 key, positive (+) settings will cause notes higher than C4 to have increasingly shorter times, and negative (-) settings will cause them to have increasingly longer times. Larger settings will produce greater change. Time -100 -50 -50 -50 -50 -50 -50 -5
P-Env Time 1−4 ★ (Pitch Envelope Time 1−4)	0–127	Specify the pitch envelope times (Time 1–Time 4). Higher settings will result in a longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.) The pitch lower settings will result in a longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.) The pitch lower settings will result in a longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.) The pitch lower settings will result in a longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.)

Parameter	Value	Explanation
P-Env Level 0-4 (Pitch Envelope Level 0-4)	-63-+63	Specify the pitch envelope levels (Level 0–Level 4). It determines how much the pitch changes from the reference pitch (the value set with Coarse Tune or Fine Tune on the Pitch screen) at each point. Positive (+) settings will cause the pitch to be higher than the standard pitch, and negative (-) settings will cause it to be lower.

TVF settings (Patch TVF/Patch TVF Env screen)

■ Patch TVF screen



Parameter	Value	Explanation
Filter Type	 Selects the type of filter. A filter cuts or boosts a specific frequency region to change a sound's brigness, thickness, or other qualities. OFF: No filter is used. LPF: Low Pass Filter. This reduces the volume of all frequencies above the Cutoff Frequency in order to round off, or un-brighten the sound. This is the most common filter used in synthesizers. BPF: Band Pass Filter. This leaves only the frequencies in the region of the cutoff frequency (Cutoff Frequency), and cuts the rest. This can be useful when creating distinctive sounds. HPF: High Pass Filter. This cuts the frequencies in the region below the Cutoff Frequency. This is suitable for creating percussive sounds emphasizing their higher tones. PKG: Peaking Filter. This emphasizes the frequencies in the region of the Cutoff Frequency. You can use this to create wah-wah effects by employing an LFO to change the cutoff frequency cyclically. LPF2: Low Pass Filter 2. Although frequency components above the Cutoff Frequency are cut, the sensitivity of this filter is half that of the LPF. This makes it a comparatively warmer low pass filter. This filter is good for use with simulated instrument sounds such as the acoustic piano. LPF3: Low Pass Filter 3. Although frequency components above the Cutoff Frequency are cut, the sensitivity of this filter changes according to the Cutoff frequency. While this filter is also good for use with simulated acoustic instrument sounds, the nuance it exhibits differs from the of the LPF2, even with the same TVF Envelope settings. NOTE If you set "LPF2" or "LPF3," the setting for the Resonance (p. 103). 	
Cutoff Frequency ★	0–127	Selects the frequency at which the filter begins to have an effect on the waveform's frequency components. • With "LPF/LPF2/LPF3" selected for the Filter Type, lower cutoff frequency settings reduce a tone's upper harmonics for a more rounded, warmer sound. Higher settings make it sound brighter. • If "BPF" is selected, harmonic components will change depending on the TVF Cutoff Frequency setting. This can be useful when creating distinctive sounds. • With "HPF" selected, higher Cutoff Frequency settings will reduce lower harmonics to emphasize just the brighter components of the sound. • With "PKG" selected, the harmonics to be emphasized will vary depending on Cutoff Frequency setting. ■ TIP To edit the overall patch while preserving the relative differences in the Cutoff Frequency values set for each tone, set the Cutoff Offset (p. 90). ★ You can use matrix control to modify this. (p. 95)

Parameter	Value	Explanation
Resonance ★	0–127	Emphasizes the portion of the sound in the region of the cutoff frequency, adding character to the sound. Excessively high settings can produce oscillation, causing the sound to distort. To edit the overall patch while preserving the relative differences in the Resonance values set for each tone, set the Resonance Offset (p. 91). Level LPF BPF HPF PKG High Prequency Low *You can use matrix control to modify this. (p. 95)
Cutoff Freq KF (Cutoff Frequency keyfollow)	-200-+200	Use this parameter if you want the cutoff frequency to change according to the key that is pressed. Relative to the cutoff frequency at the C4 key (center C), positive (+) settings will cause the cutoff frequency to rise for notes higher than C4, and negative (-) settings will cause the cutoff frequency to fall for notes higher than C4. Larger settings will produce greater change. Cutoff frequency (Octave) 100 100 110 110 110 110 110 1
Cutoff V-Curve (Cutoff Frequency Velocity Curve)	FIXED, 1–7	Selects one of the following seven curves that determine how keyboard playing dynamics (velocity) influence the cutoff frequency. Set this to "FIXED" if you don't want the Cutoff frequency to be affected by the keyboard velocity.
Cutoff V-Sens (Cutoff frequency Velocity Sensitivity)	-63-+63	Use this parameter when changing the cutoff frequency to be applied as a result of changes in playing velocity. If you want strongly played notes to raise the cutoff frequency, set this parameter to positive (+) settings. If you want strongly played notes to lower the cutoff frequency, use negative (-) settings. To edit the overall patch while preserving the relative differences in the Cutoff V-Sens values set for each tone, set the Velocity Sens (p. 91). However, this setting is shared by the Level V-Sens (p. 105).
Resonance V-Sens (Resonance Velocity Sensi- tivity)	-63-+63	This allows keyboard velocity to modify the amount of Resonance. If you want strongly played notes to have a greater Resonance effect, set this parameter to positive (+) settings. If you want strongly played notes to have less Resonance, use negative (-) settings.

■ Patch TVF Env screen

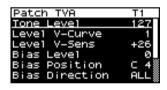


Parameter	Value	Explanation
F-Env Depth (TVF Envelope Depth)	-63-+63	Specifies the depth of the TVF envelope. Higher settings will cause the TVF envelope to produce greater change. Negative (-) settings will invert the shape of the envelope.
F-Env V-Curve (TVF Envelope Velocity Curve)	FIX, 1–7	Selects one of the following 7 curves that will determine how keyboard playing dynamics will affect the TVF envelope. Set this to "FIX" if you don't want the TVF Envelope to be affected by the keyboard velocity.
F-Env V-Sens (TVF Envelope Velocity Sensitivity)	-63-+63	Specifies how keyboard playing dynamics will affect the depth of the TVF envelope. Positive (+) settings will cause the TVF envelope to have a greater effect for strongly played notes, and negative (-) settings will cause the effect to be less.
F-Env T1 V-Sens (TVF Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the TVF envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
F-Env T4 V-Sens (TVF Envelope Time 4 Velocity Sensitivity)	-63-+63	The parameter to use when you want key release speed to control the Time 4 value of the TVF envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
F-Env Time KF (TVF Envelope Time Keyfol- low)	-100-+100	Use this setting if you want the TVA envelope times (Time 2–Time 4) to be affected by the keyboard location. Based on the TVF envelope times for the C4 key (center C), positive (+) settings will cause notes higher than C4 to have increasingly shorter times, and negative (-) settings will cause them to have increasingly longer times. Larger settings will produce greater change. Time -100 -50 -50 Key

Parameter	Value	Explanation	
		Specify the TVF envelope times (Time 1–Time 4). Higher settings will lengthen the time until the next cutoff frequency level is reached. (For example, Time 2 is the time over which Level 1 will change to Level 2.)	
F-Env Time 1−4 ★ (TVF Envelope Time 1−4)	0-127	Cutoff Frequency A L1 L2 L3 A L4 Time Note off T: Time L: Level	
		★ You can use matrix control to modify this. (p. 95)	
F-Env Level0–4 (TVF Envelope Level 0–4)	0–127	Specify the TVF envelope levels (Level 0–Level 4). These settings specify how the cutoff frequency will change at each point, relative to the standard cutoff frequency (the cutoff frequency value specified in the TVF screen).	

TVA settings (Patch TVA/Patch TVA Env screen)

■ Patch TVA screen.....

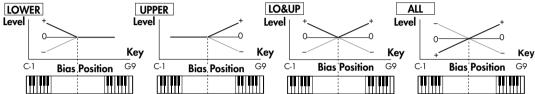


Parameter	Value	Explanation		
Tone Level ★	0–127	Sets the volume of the tone. This setting is useful primarily for adjusting the volume balance between tones. ★ You can use matrix control to modify this. (p. 95)		
Level V-Curve (TVA Level Velocity Curve)	FIX, 1–7	You can select from seven curves that determine how keyboard playing strength will affect the volume. If you do not want the volume of the tone to be affected by the force with which you play the key, set this to "FIX."		
Level V-Sens (TVA Level Velocity Sensitivity)	-63-+63	Set this when you want the volume of the tone to change depending on the force with which you press the keys. Set this to a positive (+) value to have the changes in tone volume increase the more forcefully the keys are played; to make the tone play more softly as you play harder, set this to a negative (-) value. If you wish to make adjustments to the entire patch while maintaining the relative values of Level V-Sens among tones, adjust the Velocity Sens (p. 91). However, this setting is shared by the Cutoff V-Sens (p. 103).		
Bias Level	-100-+100	Adjusts the angle of the volume change that will occur in the selected Bias Direction. Larger settings will produce greater change. Negative (-) values will invert the change direction.		
Bias Position	C-1-G9	Specifies the key relative to which the volume will be modified.		

Parameter	Value	Explanati	on
Bias Direction	LOWER, UPPER, LO&UP, ALL	Selects the tion. LOWER: UPPER: LO&UP: ALL:	e direction in which change will occur starting from the Bias Posi- The volume will be modified for the keyboard area below the Bias Point. The volume will be modified for the keyboard area above the Bias Point. The volume will be modified symmetrically toward the left and right of the Bias Point. The volume changes linearly with the bias point at the center.

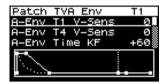
Bias

Bias causes the volume to be affected by the keyboard position. This is useful for changing volume through keyboard position (pitch) when playing acoustic instruments.



Tone Pan ★	L64-0-63R	Sets the pan of the tone. "L64" is far left, "0" is center, and "63R" is far right. ★ You can use matrix control to modify this. (p. 95)
Pan Keyfollow	-100-+100	Use this parameter if you want key position to affect panning. Positive (+) settings will cause notes higher than C4 key (center C) to be panned increasingly further toward the right, and negative (-) settings will cause notes higher than C4 key (center C) to be panned toward the left. Larger settings will produce greater change. Pitch +200 +100 -50 C1 C2 C3 C4 C5 C6 C7 Key
Random Pan Depth	0–63	Use this parameter when you want the stereo location to change randomly each time you press a key. Higher settings will produce a greater amount of change.
Alter (Alternate) Pan Depth	L63-63R	This setting causes panning to be alternated between left and right each time a key is pressed. Higher settings will produce a greater amount of change. "L" or "R" settings will reverse the order in which the pan will alternate between left and right. For example if two tones are set to "L" and "R" respectively, the panning of the two tones will alternate each time they are played. NOTE When any value from Type "2"-"10" is selected for the Str Type (p. 93) in the Pan Keyfollow, Random Pan Depth, Alter Pan Depth settings, the output of tones 1 and 2 are joined in tone 2, and the output of tones 3 and 4 are joined in tone 4. For this reason, tone 1 will follow the settings of tone 2, and tone 3 will follow the settings of tone 4.

■ Patch TVA Env screen.....



Parameter	Value	Explanation
A-Env T1 V-Sens (TVA Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the TVA envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
A-Env T4 V-Sens (TVA Envelope Time 4 Velocity Sensitivity)	-63-+63	The parameter to use when you want key release speed to control the Time 4 value of the TVA envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
A-Env Time KF (TVA Envelope Time Keyfollow)	-100-+100	Use this setting if you want the TVA envelope times (Time 2–Time 4) to be affected by the keyboard location. Based on the TVA envelope times for the C4 key (center C), positive (+) settings will cause notes higher than C4 to have increasingly shorter times, and negative (-) settings will cause them to have increasingly longer times. Larger settings will produce greater change. Time 100 100 Key
A-Env Time1-4 ★ (TVA Envelope Time 1-4)	0–127	Specify the TVA envelope times (Time 1–Time 4). Higher settings will lengthen the time until the next volume level is reached. (For example, Time 2 is the time over which Level 1 will change to Level 2.) *You can use matrix control to modify this. (p. 95)
A-Env Level1–3 (TVA Envelope Level 1–3)	0–127	Specify the TVA envelope levels (Level 1–Level 3). These settings specify how the volume will change at each point, relative to the standard volume (the Tone Level value specified in the TVA screen). Total Table 1: Level Total Table 2: Level Total Table 3: Time 1: Level

Patch/Tone output-related settings (Patch Output screen)



Parameter	Value	Explanation
Pat Out Assign (Patch Output Assign)	MFX, L+R, L, R, TONE	Specifies how the direct sound of each patch will be output. MFX: Output in stereo through multi-effects. You can also apply chorus or reverb to the sound that passes through multi-effects. L+R: Output to the OUTPUT jacks in stereo without passing through multi-effects. L, R: Output to the OUTPUT L jack or OUTPUT R jack in mono without passing through multi-effects. TONE: Outputs according to the settings for each tone. * If you've made settings so that sounds are separately routed to the OUT-PUT L jack and OUTPUT R jack, but no plug is actually inserted in the OUT-PUT R jack, the sounds routed to OUTPUT L and OUTPUT R will be mixed and output from the OUTPUT L jack.
Tone Out (Output) Assign	MFX, L+R, L, R	Specifies how the direct sound of each tone will be output. MFX: Output in stereo through multi-effects. You can also apply chorus or reverb to the sound that passes through multi-effects. L+R: Output to the OUTPUT jacks in stereo without passing through multi-effects. L, R: Output to the OUTPUT L jack or OUTPUT R jack in mono without passing through multi-effects. * If the Pat Out Assign is set to anything other than "TONE," these settings will be ignored. * When the Str Type has a setting of Type "2"-"10," the outputs of tones 1 and 2 will be combined with tone 2, and the outputs of tones 3 and 4 will be combined with tone 4. For this reason, tone 1 will follow the settings. * If you've made settings so that sounds are separately routed to the OUT-PUT L jack and OUTPUT R jack, but no plug is actually inserted in the OUT-PUT R jack, the sounds routed to OUTPUT L and OUTPUT R will be mixed and output from the OUTPUT L jack. * Sounds are output to chorus and reverb in mono at all times. * The output destination of the signal after passing through the chorus is set with the Output Select (p. 135).
Tone Out (Output) Level	0–127	Set the level of the signal that is sent to the output destination specified by Tone Out Assign.
Cho Send (MFX) (Tone Chorus Send Level (Output=MFX))	0–127	Specifies the level of the signal sent to the chorus for each tone if the tone is sent through MFX.
Rev Send (MFX) (Tone Reverb Send Level (Output=MFX))	0–127	Specifies the level of the signal sent to the reverb for each tone if the tone is sent through MFX.
Cho Send (nonMFX) (Tone Chorus Send Level (Output=non MFX))	0–127	Sets the level of the signal sent to chorus for each tone if the tone is not sent through MFX.
Rev Send (nonMFX) (Tone Reverb Send Level (Output=non MFX))	0–127	Sets the level of the signal sent to reverb for each tone if the tone is not sent through MFX.

LFO settings (Patch LFO1, 2/Patch Step LFO screen)

Value

■ Patch LFO1, 2 screens.....

Parameter



MEMO

Explanation

An LFO (Low Frequency Oscillator) causes change over a cycle in a sound. Each tone has two LFOs (LFO1/LFO2), and these can be used to cyclically change the pitch, cutoff frequency and volume to create modulation-type effects such as vibrato, wah and tremolo. Both LFOs have the same parameters so only one explanation is needed.

	Selects the wavel		
		ne wave	
		iangle wave	
		awtooth wave	
		awtooth wave (negative polarity)	
	1	quare wave	
		indom wave	
	stc	nce the attack of the waveform output by the LFO is allowed to develop in andard fashion, the waveform then continues without further change.	
	BND-D: O	Once the decay of the waveform output by the LFO is allowed to develop in	
Waveform	stc	andard fashion, the waveform then continues without further change.	
	TRP: Tro	apezoidal wave	
	S&H: So	ample & Hold wave (one time per cycle, LFO value is changed)	
		naos wave	
		odified sine wave. The amplitude of the sine wave is randomly varied once ich cycle of the waveform.	
		waveform generated by the data specified in LFO Step 1–16. This produces a	
		red pattern of stepwise change, like that created by a step modulator.	
	If you set this to " will have no effect	* · _	
		Adjusts the modulation rate, or speed, of the LFO. LFO Rate sets the beat length for the synchronized tempo is synchronized with the tempo set in an external MIDI sequencer.	
	0–127, Note	(Example) For a tempo of 120 (120 quarter notes occur in 1 minute (60 seconds))	
Rate ★	(Refer to p. 100 fo	Setting LFO Rate	
	available note vo	$\frac{1}{1}$ $\frac{1}{2}$ (half note) 1 second (60/60= 1 (second))	
	ues.)	J (quarter note) 0.5 seconds (60/120= 0.5 (seconds))	
		(eighth note) 0.25 seconds (60/240= 0.25 (seconds))	
		NOTE	
		This setting will be ignored if the Waveform parameter is set to "CHAOS."	
		★ You can use matrix control to modify this. (p. 95)	
Rate Detune	0–127	LFO Rate Detune makes subtle changes in the LFO cycle rate (Rate parameter) each time a key is pressed. Higher settings will cause greater change. This parameter is invalid when Rate is set to "note."	
Offset	-100, -50, 0, +50 +100	Raises or lowers the LFO waveform relative to the central value (pitch or cutoff frequency). Positive (+) settings will move the waveform so that modulation will occur from the central value upward. Negative (-) settings will move the waveform so that modulation will occur from the central value downward.	

Parameter	Value	Explanation
Delay Time	0–127	Delay Time (LFO Delay Time) specifies the time elapsed before the LFO effect is applied (the effect continues) after the key is pressed (or released). **TIP** When using violin, wind, or certain other instrument sounds in a performance, rather than having vibrato added immediately after the sounds are played, it can be effective to add the vibrato after the note is drawn out somewhat. If you set the Delay Time in conjunction with the Pitch Depth and Rate, the vibrato will be applied automatically following a certain interval after the key is pressed. This effect is called Delay Vibrato. **Effect of the CFO
Delay Time KF (Keyfollow)	-100–100	Adjusts the value for the Delay Time parameter depending on the key position, relative to the C4 key (center C). To decrease the time that elapses before the LFO effect is applied (the effect is continuous) with each higher key that is pressed in the upper registers, select a positive value; to increase the elapsed time, select a negative value. Larger settings will produce greater change. If you do not want the elapsed time before the LFO effect is applied (the effect is continuous) to change according to the key pressed, set this to "0." Time -100 -50 -50 -50 Key
Fade Mode	ON <, ON >, OFF <, OFF >	Specifies how the LFO will be applied. cf. After referring to "How to Apply the LFO" (p. 111), change the setting until the desired effect is achieved.
Fade Time	0-127	Specifies the time over which the LFO amplitude will reach the maximum (minimum). cf. After referring to "How to Apply the LFO" (p. 111), change the setting until the desired effect is achieved.

Parameter Value Explanation

How to Apply the LFO

• Apply the LFO gradually after the key is pressed

Fade Mode: ON <

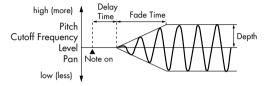
Delay Time: The time from when the keyboard is played

until the LFO begins to be applied.

 $\textbf{Fade Time:} \hspace{0.5cm} \textbf{The time over which the LFO amplitude will} \\$

reach the maximum after the Delay Time has

elapsed.



• Apply the LFO gradually after the key is released

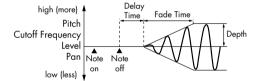
Fade Mode: OF

Delay Time: The time from when the keyboard is released

until the LFO begins to be applied.

Fade Time: The time over which the LFO amplitude will

reach the maximum after the Delay Time has elapsed.



Apply the LFO immediately when the key is pressed, and then gradually begin to decrease the effect

Fade Mode: ON >

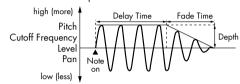
Delay Time: The time that the LFO will continue after the

keyboard is played.

Fade Time: The time over which the LFO amplitude will

reach the minimum after the Delay Time has

elapsed.



Apply the LFO from when the key is pressed until it is released, and gradually begin to decrease the effect when the key is released

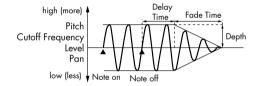
Fade Mode: OFF >

Delay Time: The time that the LFO will continue after the

keyboard is released.

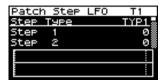
Fade Time: The time over which the LFO amplitude will reach the minimum after the Delay Time has

elapsed.



Key Trigger	OFF, ON	This specifies whether the LFO cycle will be synchronized to begin when the key is pressed (ON) or not (OFF).
Pitch Depth ★	-63-+63	Specifies how deeply the LFO will affect pitch.
·		★ You can use matrix control to modify this. (p. 95)
TVF Depth ★	-63-+63	Specifies how deeply the LFO will affect the cutoff frequency.
·		★ You can use matrix control to modify this. (p. 95)
TVA Depth ★	-63-+63	Specifies how deeply the LFO will affect the volume.
14A Depili A	-03-+03	★ You can use matrix control to modify this. (p. 95)
		Specifies how deeply the LFO will affect the pan.
Pan Depth ★	-63-+63	Positive (+) and negative (-) settings for the Depth result in differing kinds of change in pitch and volume. For example, if you set the Depth to a positive (+) value for one tone, and set another tone to the same numerical value, but make it negative (-), the modulation phase for the two tones will be the reverse of each other. This allows you to shift back and forth between two different tones, or combine it with the Pan setting to cyclically change the location of the sound image.
		When the Str Type (p. 93) is set to any value from "2" through "10," the output of tones 1 and 2 will be combined into tone 2, and the output of tones 3 and 4 will be combined into tone 4. This applies to the Pan Depth settings. For this reason, tone 1 will follow the settings of tone 2, and tone 3 will follow the settings of tone 4. *You can use matrix control to modify this. (p. 95)

■ Patch Step LFO screen.....



Parameter	Value	Explanation
Step Type	TYP1, TYP2	When generating an LFO waveform from the data specified in LFO Step1–16, specify whether the level will change abruptly at each step (TYP1) or will be connected linearly (TYP2).
Step 1-16	-36-+36	Specifies the data for the Step LFO. If the LFO Pitch Depth is $+63$, each $+1$ unit of the step data corresponds to a pitch of $+50$ cents.

Specifies how the tones will be heard (Patch TMT screen)

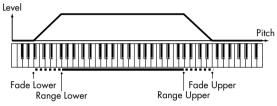


MEMO

You can vary the way in which each tone will sound depending on the force with which you play the keyboard, the range of notes on the keyboard, and via MIDI messages. These settings are collectively called the "Tone Mix Table (TMT)."

Parameter	Value	Explanation
Parameters common to all tones		
TMT Velo Ctrl (TMT Velocity Control Switch)	OFF, ON, RANDOM, CYCLE	TMT Velo Ctrl determines whether a different tone is played (ON) or not (OFF) depending on the force with which the key is played (velocity). When set to "RANDOM," the patch's constituent tones will sound randomly, regardless of any Velocity messages. When set to "CYCLE," the patch's constituent tones will sound consecutively, regardless of any Velocity messages.
		You can also switch between tones by using matrix control (p. 95) as an alternative to using TMT Velo Ctrl. However, you can't use TMT Velo Ctrl and matrix control at the same time. If you want to use matrix control, turn TMT Velo Ctrl "OFF." If you want to use TMT Velo Control, turn matrix control "OFF."
TMT Ctrl Switch (TMT Control Switch)	OFF, ON	Use the Matrix Control to enable (ON), or disable (OFF) sounding of different tones. NOTE Alternatively, you can switch tones on/off by using TMT Velo Ctrl. However, you can't use TMT Velo Ctrl and matrix control at the same time. If you want to use matrix control, turn TMT Velo Ctrl "OFF." If you want to use TMT Velo Control, turn matrix control "OFF."
Parameters set on an individual tone basis		
Key Fade Lower (Keyboard Fade Width Lower)	0–127	This determines what will happen to the tone's level when a note that's lower than the tone's specified keyboard range is played. Higher settings produce a more gradual change in volume. If you don't want the tone to sound at all when a note below the keyboard range is played, set this parameter to "0."
Key (Keyboard) Range Lower	C-1-UPPER	Specifies the lowest note that the tone will sound for each tone.

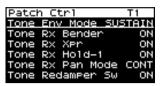
Parameter	Value	Explanation
Key (Keyboard) Range Upper		Specifies the highest note that the tone will sound for each tone.
	Lower–G9	If you attempt to raise the lower key higher than the upper key, or to lower the upper key below the lower key, the other value will be automatically modified to the same setting.
Key Fade Upper (Keyboard Fade Width Upper)	0–127	This determines what will happen to the tone's level when a note that's higher than the tone's specified keyboard range is played. Higher settings produce a more gradual change in volume. If you don't want the tone to sound at all when a note below the keyboard range is played, set this parameter to "0."



Velo Fade Lower (Velocity Fade Width Lower)	0–127	This determines what will happen to the tone's level when the tone is played at a velocity lower than its specified velocity range. Higher settings produce a more gradual change in volume. If you want notes played outside the specified key velocity range to not be sounded at all, set this to "0."
Velo (Velocity) Range Lower	1-UPPER	This sets the lowest velocity at which the tone will sound. Make these settings when you want different tones to sound in response to notes played at different strengths.
Velo (Velocity) Range upper	LOWER-127	This sets the highest velocity at which the tone will sound. Make these settings when you want different tones to sound in response to notes played at different strengths.
		If you attempt to set the Lower velocity limit above the Upper, or the Upper below the Lower, the other value will automatically be adjusted to the same setting.
		When using the Matrix Control to have different tones played, set the lowest value (Lower) and highest value (Upper) of the value of the MIDI message used.
Velo Fade Upper (Velocity Fade Width Upper)	0–127	This determines what will happen to the tone's level when the tone is played at a velocity greater than its specified velocity range. Higher settings produce a more gradual change in volume. If you want notes played outside the specified key velocity range to not be sounded at all, set this to "0."



Controller-related settings (Patch Ctrl screen)



Parameter	Value	Explanation
Tone Env (Envelope) Mode	NO-SUS, SUSTAIN	When a loop waveform (p. 97) is selected, the sound will normally continue as long as the key is pressed. If you want the sound to decay naturally even if the key remains pressed, set this to "NO-SUS." NOTE If a one-shot type Wave (p. 97) is selected, it will not sustain even if this parameter is set to "SUSTAIN."
Tone Rx Bender (Tone Receive Pitch Bend Switch)	OFF, ON	For each tone, specify whether MIDI Pitch Bend messages will be received (ON), or not (OFF).
Tone Rx Xpr (Tone Receive Expression Switch)	OFF, ON	For each tone, specify whether MIDI Expression messages will be received (ON), or not (OFF).
Tone Rx Hold-1 (Tone Receive Hold Switch)	OFF, ON	For each tone, specify whether MIDI Hold-1 messages will be received (ON), or not (OFF). NOTE If "NO-SUS" is selected for Tone Env Mode, this setting will have no effect.
Tone Rx Pan Mode (Tone Receive Pan Mode)	CONT, K-ON	For each tone, specify how pan messages will be received. CONT: Whenever Pan messages are received, the stereo position of the tone will be changed. K-ON: The pan of the tone will be changed only when the next note is played. If a pan message is received while a note is sounding, the panning will not change until the next key is pressed. NOTE The channels cannot be set so as not to receive Pan messages.
Tone Redamper Sw (Switch)	OFF, ON	You can specify, on an individual tone basis, whether or not the sound will be held when a Hold 1 message is received after a key is released, but before the sound has decayed to silence. If you want to sustain the sound, set this "ON." When using this function, also set the Rx Hold-1 "ON." This function is effective for piano sounds.

Tone Copy

This operation copies tone settings from a patch to one of the tones in the currently selected patch.

From the Patch Edit menu screen (p. 88), select "Tone Copy." The Patch Tone Copy screen will appear.



1. Select the copy-source tone and copy-destination tone.

Parameter	
(1)	Group of the copy-source patch
(2)	Copy-source patch
(3)	Copy-source tone
(4)	Copy-destination tone

- * The copy-destination patch is the patch that's selected in the temporary area (p. 57).
- Move the cursor to "COPY" and press [CURSOR/VALUE]. A confirmation message will appear.



To execute the copy, select "OK" and press [CURSOR/ VALUE].

If you decide not to execute the copy, select "CANCEL" and press [CURSOR/VALUE].

Once the copy has been completed, you'll be returned to the previous screen.

Patch Initialize

Returns the current patch settings to their initial values.

From the Patch Edit menu screen (p. 88), select "Patch Init." A confirmation message will appear.



 To execute the initialization, select "OK" and press [CURSOR/VALUE].

If you decide not to initialize, select "CANCEL" and press [CURSOR/VALUE].

When initialization is finished, you'll be returned to the previous screen.

Patch Write

Saves the current patch as user data.

From the Patch Edit menu screen (p. 88), select "Write" to access the Patch Name screen.

In this screen you can assign a name (patch name) of up twelve characters to the patch you're going to save.



- Move the cursor to the location where you want to enter a character, and press [CURSOR/VALUE].
- Turn [CURSOR/VALUE] to select the desired character, then press [CURSOR/VALUE] to enter that character.

You can press [MENU] to view convenient functions for text entry.

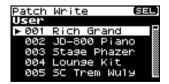
Press [MENU] once again to return to the previous screen.



Function	Explanation
INSERT	Press [CURSOR/VALUE] to insert a space (blank) at the cursor location.
DELETE	Press [CURSOR/VALUE] to delete the character at the cursor location; subsequent characters will move forward.
UNDO	Revert to the unedited patch name.

- 3. Repeat steps 1 and 2 as many times as necessary.
- When you've finished entering the patch name, move the cursor to "WRITE" and press [CURSOR/VALUE].

The Patch Write screen will appear.



Turn [CURSOR/VALUE] to select the save-destination patch, then press [CURSOR/VALUE].

A confirmation message will appear.



To write the patch into memory, select "OK" and press [CURSOR/VALUE].

If you decide you don't want to carry out the write, select "CANCEL" and press [CURSOR/VALUE].

Once the data has been written, you'll be returned to the previous screen.

Editing rhythm sets (Rhythm Edit screen)

1. Press [MIDI INST].

[MIDI INST] and [PART VIEW] will light, and the Patch Play screen will appear.

If the patch type is set to "Patch," change it to "Rhythm."

2. Turn [CURSOR/VALUE] to select "EDIT," then press [CURSOR/VALUE].

The Rhythm Edit screen will appear.



Turn [CURSOR/VALUE] to select the item you want to edit, then press [CURSOR/VALUE].

The editing screen for the selected item will appear.

 Turn [CURSOR/VALUE] to select the parameter you want to edit, then press [CURSOR/VALUE].

The value of the selected parameter will be highlighted.

Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].

■ Menu screens during rhythm editing.....

If you press [MENU] while editing a patch, the menu screen will appear.

The Menu screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.





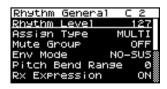
Parameter	Explanation		
Sel 1–4 (Wave Select 1–4)	Changes the current wave (the one targeted for editing), and returns to the previous screen.		
Sw 1-4 (Wave Switch 1-4)	Used to individually specify whether waves 1-4 will be used (ON) or not used (OFF).		
Key Select	Selects the key that you'll be editing.		
TON COPY (Rhythm Tone Copy)	Copies the settings of a rhythm tone to a rhythm tone in the currently selected rhythm set. Press [CURSOR/VALUE] to access the Rhythm Tone Copy screen (p. 130).		
TON INIT (Rhythm Tone Initialize)	Returns the settings of just a specific key in the current rhythm set to their initial values (p. 130).		
RHY INIT (Rhythm Set Initialize)	Returns the settings of the current rhythm set to their initial values (p. 130).		
Write (Rhythm Set Write)	Saves the current rhythm set as user data. Press [CURSOR/VALUE] to access the Rhythm Set Name screen (p. 131).		
System	Press [CURSOR/VALUE] to access the System screen (p. 176).		
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).		
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.		
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).		
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).		

■ Rhythm Edit screen



Parameter	Explanation
General	Edits overall settings for the entire rhythm set. Press [CURSOR/VALUE] to access the Rhythm General screen.
WG	Edits waveform-related settings. Press [CURSOR/VALUE] to access the Rhythm Wave screen (p. 120).
WMT	Specifies how each rhythm tone will sound. Press [CURSOR/VALUE] to access the Rhythm WMT screen (p. 122).
PCH	Edits pitch-related settings for each rhythm tone. Press [CURSOR/VALUE] to access the Rhythm Pitch screen (p. 122).
PCH / (Pitch Envelope)	Edits pitch envelope settings. By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Rhythm Pitch Env screen (p. 123).
TVF	Edits TVF settings. Press [CURSOR/VALUE] to access the Rhythm TVF screen (p. 124).
TVF A	Edits TVF envelope settings. By moving the cursor to A and pressing [CURSOR/VALUE] you can move to the Rhythm TVF Env screen (p. 126).
TVA	Edits TVA settings. Press [CURSOR/VALUE] to access the Rhythm TVA screen (p. 127).
TVA /— (TVA Envelope)	Edits TVA envelope settings. By moving the cursor to A and pressing [CURSOR/VALUE] you can move to the Rhythm TVA Env screen (p. 128).
OUT (Output)	Edits output-related settings for the rhythm set/rhythm tones. Press [CURSOR/VALUE] to access the Rhythm Output screen (p. 129).

Edits overall settings for the entire rhythm set (Rhythm General screen)



Parameter	Value	Explanation
		Sets the volume of the rhythm set.
Rhythm Level (Rhythm Set Level)	0–127	The volume levels of the tones from which the rhythm set is composed is set with the Tone Level (p. 127). The volume levels of the Waves from which the rhythm tone is composed is set with the Wave Level (p. 121).
Assign Type	MULTI, SINGLE	Specifies how sounds are to be produced when you press the same key successively. MULTI: New sounds will be layered onto the currently playing sounds.
		SINGLE: The currently playing sound will be stopped before the new sound begins.

Parameter	Value	Explanation
Mute Group	OFF, 1–31	On an actual acoustic drum set, an open hi-hat and a closed hi-hat sound can never occur simultaneously. To reproduce the reality of this situation, you can set up a Mute Group. The Mute Group function allows you to designate two or more rhythm tones that are not allowed to sound simultaneously. Up to 31 Mute Groups can be used. rhythm tones that are not belong to any such group should be set to "OFF."
Env Mode (Rhythm Tone Envelope Mode)	NO-SUS, SUSTAIN	When a loop waveform (p. 97) is selected, the sound will normally continue as long as the key is pressed. If you want the sound to decay naturally even if the key remains pressed, set this to "NO-SUS." NOTE If the One Shot Mode (p. 97) is ON, it will not sustain even if this parameter is set to "SUSTAIN."
Pitch Bend Range (Rhythm Tone Pitch Bend Range)	0–48	Specifies the amount of pitch change in semitones (4 octaves) that will occur when the Pitch Bend Lever is moved. The amount of change when the lever is tilted is set to the same value for both left and right sides.
Rx Expression (Rhythm Tone Receive Expression Switch)	OFF, ON	For each rhythm tone, specify whether MIDI Expression messages will be received (ON), or not (OFF).
Rx Hold-1 (Rhythm Tone Receive Hold-1 Switch)	OFF, ON	For each rhythm tone, specify whether MIDI Hold-1 messages will be received (ON), or not (OFF). NOTE If "NO-SUS" is selected for Env Mode, this setting will have no effect.
Rx Pan (Rhythm Tone Receive Pan Mode)	CONTINUOUS, KEY-ON	For each rhythm tone, specify how pan messages will be received. CONTINUOUS: Whenever Pan messages are received, the stereo position of the tone will be changed. KEY-ON: The pan of the tone will be changed only when the next note is played. If a pan message is received while a note is sounding, the panning will not change until the next key is pressed. NOTE The channels cannot be set so as not to receive Pan messages.
One Shot Mode	OFF, ON	The sound will play back until the end of the waveform (or the end of the envelope, whichever comes first). The result will be the same as when the envelope's Tone Env Mode is set to NO-SUS.
Relative Level	-64-+63	Corrects for the volume of the rhythm tone. This parameter is set by the key-based controller system exclusive message. Normally, you should leave it set to 0. NOTE If the rhythm tone level is set to 127, the volume will not increase beyond that point.
Rhythm Tone Name	12 characters	You can assign a name of up to twelve characters to the currently selected rhythm tone. 1. Move the cursor to the location at which you want to enter a character, then press [CURSOR/VALUE]. 2. Turn [CURSOR/VALUE] to select the character you want to enter, then press [CURSOR/VALUE].

Waveform-related settings (Rhythm Wave screen)



Parameter	Value	Explanation
Wave Group	INT, EXP	Select the groups containing the Waves comprising the rhythm tone. INT: Waveforms stored in internal memory EXP: Waveform stored in a Wave Expansion Board (SRX series) installed in EXP slots. * It's not possible to select EXP unless a wave expansion board is inserted into the corresponding slot.
Wave Bank	A, B	Selects the wave bank when the wave group is set to "EXP." A: Wave Expansion Board A B: Wave Expansion Board B * When the wave group is set to "INT," the "" message appears and you cannot select a wave bank. * You cannot select a wave bank of a Wave Expansion Board that is not installed.
Wave No. L (MONO)		This selects the Waves comprising the rhythm tone. You can choose a sep-
Wave No. R	1–1401	arate waveform for the SonicCell ^T s left and right channels. * For mono tones, assign a waveform to the L channel. No sound will be heard if a waveform is set for only the R channel. * In the case of a wave from a wave expansion board, the range (number of waveforms) will depend on the board you've selected.
Wave Gain	-6, 0, +6, +12	Sets the gain (amplification) of the waveform. The value changes in 6 dB (decibel) steps—an increase of 6 dB doubles the waveform's gain.
Wave Tempo Sync	OFF, ON	When you wish to synchronize a Phrase Loop to the clock (tempo), set this to "ON." This is valid only when a separately sold wave expansion board is installed, and a waveform that indicates a tempo (BPM) is selected as a rhythm tone. NOTE If a waveform from a wave expansion board is selected for the tone, turning the Wave Tempo Sync parameter "ON" will cause pitch-related settings and FXM-related settings to be ignored. Phrase Loop Phrase Loop Phrase loop refers to the repeated playback of a phrase that's been pulled out of a song (e.g., by using a sampler). One technique involving the use of Phrase Loops is the excerpting of a Phrase from a pre-existing song in a certain genre, for example dance music, and then creating a new song with that Phrase used as the basic motif. This is referred to as "Break Beats."
FXM Switch	OFF, ON	This sets whether FXM will be used (ON) or not (OFF). FXM FXM (Frequency Cross Modulation) uses a specified waveform to apply frequency modulation to the currently selected waveform, creating complex overtones. This is useful for creating dramatic sounds or sound effects.
FXM Color	1–4	Specifies how FXM will perform frequency modulation. Higher settings result in a grainier sound, while lower settings result in a more metallic sound.

Parameter	Value	Explanation
FXM Depth	0–16	Specifies the depth of the modulation produced by FXM. NOTE When the Tempo Sync is set to "ON," settings related to Pitch (p. 122) and FXM are disabled.
Wave Coarse Tune	-48-+48	Adjusts the pitch of the waveform's sound up or down in semitone steps (+/-4 octaves). TIP The Coarse Tune of the entire rhythm tone is set by the Tone Coarse Tune (p. 122).
Wave Fine Tune	-50-+50	Adjusts the pitch of the waveform's sound up or down in 1-cent steps (+/-50 cents). * One cent is 1/100th of a semitone. TIP The Fine Tune of the entire rhythm tone is set by the Tone Fine Tune (p. 123).
Wave Level	0–127	You can set the volume of the waveform. TIP The volume level of each rhythm tone is set with the Tone Level; the volume levels of the entire rhythm set is set with the Rhythm Level (p. 118).
Wave Pan	L64-0-63R	This specifies the pan of the waveform. "L64" is far left, "0" is center, and "63R" is far right.
Wave Rnd Pan Sw (Wave Random Pan Switch)	OFF, ON	Use this setting to cause the waveform's panning to change randomly each time a key is pressed (ON) or not (OFF). * The range of the panning change is set by the Random Pan Depth (p. 127).
Alter Pan Sw (Wave Alternate Pan Switch)	OFF, ON, REVS	This setting causes panning of the waveform to be alternated between left and right each time a key is pressed. Set Alter Pan Sw to "ON" to pan the Wave according to the Alter Pan Depth settings, or to "REV" when you want the panning reversed. If you do not want the panning to change each time a key is pressed, set this to "OFF."

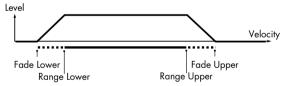
Specifying how a rhythm tone will be heard (Rhythm WMT screen)



MEMO

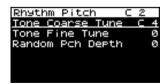
You can use your keyboard playing dynamics to control the four waveforms assigned to the rhythm tone. These settings are collectively called the "Wave Mix Table (WMT)."

Parameter	Value	Explanation
WMT Velo Ctrl (WMT Velocity Control Switch)	OFF, ON, RANDOM	WMT Velocity Control determines whether a different rhythm tone is played (ON) or not (OFF) depending on the force with which the key is played (velocity). When set to "RANDOM," the rhythm set's constituent rhythm tones will sound randomly, regardless of any Velocity messages.
Velo Fade Lower (Velocity Fade Width Lower)	0–127	This determines what will happen to the tone's level when the tone is played at a velocity lower than its specified velocity range. Higher settings produce a more gradual change in volume. If you want notes played outside the specified key velocity range to not be sounded at all, set this to "0."
Velo (Velocity) Range Lower	1-UPPER	This sets the lowest velocity at which the waveform will sound. Make these settings when you want different waveforms to sound in response to notes played at different strengths.
Velo (Velocity) Range Upper	LOWER-127	This sets the highest velocity at which the waveform will sound. Make these settings when you want different waveforms to sound in response to notes played at different strengths.
		If you attempt to set the Lower velocity limit above the Upper, or the Upper below the Lower, the other value will automatically be adjusted to the same setting.
Velo Fade Upper (Velocity Fade Width Upper)	0–127	This determines what will happen to the tone's level when the tone is played at a velocity greater than its specified velocity range. Higher settings produce a more gradual change in volume. If you want notes played outside the specified key velocity range to not be sounded at all, set this to "0."



Pitch-related rhythm tone settings (Rhythm Pitch/Rhythm Pch Env screen)

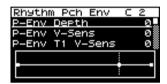
■ Rhythm Pitch screen.....



Parameter	Value	Explanation
Tone Coarse Tune (Rhythm Tone Coarse Tune)	C-1-G9	Selects the pitch at which a rhythm tone sounds. Set the coarse tuning for Waves comprising the rhythm tones with the Wave Coarse Tune (p. 121).

Parameter	Value	Explanation
Tone Fine Tune (Rhythm Tone Fine Tune)	-50-+50	Adjusts the pitch of the rhythm tone's sound up or down in 1-cent steps (+/-50 cents). * One cent is 1/100th of a semitone. TIP Set the fine tuning for Waves comprising the rhythm tones with the Wave Fine Tune (p. 121).
Random Pch Dpth (Random Pitch Depth)	0–9, 10–90, 100–1200	This specifies the width of random pitch deviation that will occur each time a key is pressed. If you do not want the pitch to change randomly, set this to "0." These values are in units of cents (1/100th of a semitone).

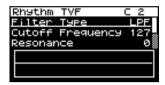
■ Rhythm Pch Env screen



Parameter	Value	Explanation
P-Env Depth (Pitch Envelope Depth)	-12-+12	Adjusts the effect of the Pitch Envelope. Higher settings will cause the pitch envelope to produce greater change. Negative (-) settings will invert the shape of the envelope.
P-Env V-Sens (Pitch Envelope Velocity Sensitivity)	-63-+63	Keyboard playing dynamics can be used to control the depth of the pitch envelope. If you want the pitch envelope to have more effect for strongly played notes, set this parameter to a positive (+) value. If you want the pitch envelope to have less effect for strongly played notes, set this to a negative (-) value.
P-Env T1 V-Sens (Pitch Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the Pitch envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
P-Env T4 V-Sens (Pitch Envelope Time 4 Velocity Sensitivity)	-63-+63	Use this parameter when you want key release speed to affect the Time 4 value of the pitch envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
P-Env Time 1–4 (Pitch Envelope Time 1–4)	0-127	Specify the pitch envelope times (Time 1–Time 4). Higher settings will result in a longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.) The pitch longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.) The pitch longer time until the next pitch is reached. (For example, Time 2 is the time over which the pitch changes from Level 1 to Level 2.)
P-Env Level 0–4 (Pitch Envelope Level 0–4)	-63-+63	Specify the pitch envelope levels (Level 0–Level 4). It determines how much the pitch changes from the reference pitch (the value set with Coarse Tune or Fine Tune on the Pitch screen) at each point. Positive (+) settings will cause the pitch to be higher than the standard pitch, and negative (-) settings will cause it to be lower.

TVF settings (Rhythm TVF/Rhythm TVF Env screen)

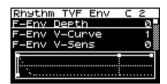
■ Rhythm TVF screen



Parameter	Value	Explanation
Filter Type	brightness, thickness OFF: No filter is us LPF: Low Pass Filte order to roun synthesizers. BPF: Band Pass Filt (Cutoff Frequ HPF: High Pass Filte suitable for c PKG: Peaking Filter can use this t frequency cy LPF2: Low Pass Filte the sensitivity pass filter. Th piano. LPF3: Low Pass Filte the sensitivity also good for from that of t	ted. er. This reduces the volume of all frequencies above the Cutoff Frequency in d off, or un-brighten the sound. This is the most common filter used in the cutoff frequency ency), and cuts the rest. This can be useful when creating distinctive sounds. For this cuts the frequencies in the region below the Cutoff Frequency. This is reating percussive sounds emphasizing their higher tones. This emphasizes the frequencies in the region of the Cutoff Frequency. You ocreate wah-wah effects by employing an LFO to change the cutoff
Cutoff Frequency	0–127	 Selects the frequency at which the filter begins to have an effect on the waveform's frequency components. With "LPF/LPF2/LPF3" selected for the Filter Type, lower cutoff frequency settings reduce a tone's upper harmonics for a more rounded, warmer sound. Higher settings make it sound brighter. If "BPF" is selected, harmonic components will change depending on the TVF Cutoff Frequency setting. This can be useful when creating distinctive sounds. With "HPF" selected, higher Cutoff Frequency settings will reduce lower harmonics to emphasize just the brighter components of the sound. With "PKG" selected, the harmonics to be emphasized will vary depending on Cutoff Frequency setting.

Parameter	Value	Explanation
Resonance	0–127	Emphasizes the portion of the sound in the region of the cutoff frequency, adding character to the sound. Excessively high settings can produce oscillation, causing the sound to distort. Level LPF BPF HPF PKG
		High Frequency Cutoff frequency
		parameter value A parameter value A parameter value A parameter value A parameter value
		Low Low Low
Cutoff V-Curve (Cutoff Frequency Velocity Curve)	FIXED, 1–7	Selects one of the following seven curves that determine how keyboard playing dynamics (velocity) influence the cutoff frequency. Set this to "FIXED" if you don't want the Cutoff frequency to be affected by the keyboard velocity.
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Cutoff V-Sens (Cutoff frequency Velocity Sensitivity)	-63-+63	Use this parameter when changing the cutoff frequency to be applied as a result of changes in playing velocity. If you want strongly played notes to raise the cutoff frequency, set this parameter to positive (+) settings. If you want strongly played notes to lower the cutoff frequency, use negative (-) settings.
Resonance V-Sens (Resonance Velocity Sensitivi- ty)	-63-+63	This allows keyboard velocity to modify the amount of Resonance. If you want strongly played notes to have a greater Resonance effect, set this parameter to positive (+) settings. If you want strongly played notes to have less Resonance, use negative (-) settings.

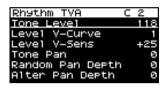
■ Rhythm TVF Env screen



Parameter	Value	Explanation
F-Env Depth (TVF Envelope Depth)	-63-+63	Specifies the depth of the TVF envelope. Higher settings will cause the TVF envelope to produce greater change. Negative (-) settings will invert the shape of the envelope.
F-Env V-Curve (TVF Envelope Velocity Curve)	FIX, 1–7	Selects one of the following 7 curves that will determine how keyboard playing dynamics will affect the TVF envelope. Set this to "FIX" if you don't want the TVF Envelope to be affected by the keyboard velocity.
F-Env V-Sens (TVF Envelope Velocity Sensitivity)	-63-+63	Specifies how keyboard playing dynamics will affect the depth of the TVF envelope. Positive (+) settings will cause the TVF envelope to have a greater effect for strongly played notes, and negative (-) settings will cause the effect to be less.
F-Env T1 V-Sens (TVF Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the TVF envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
F-Env T4 V-Sens (TVF Envelope Time 4 Velocity Sensitivity)	-63-+63	The parameter to use when you want key release speed to control the Time 4 value of the TVF envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
F-Env Time 1–4 (TVF Envelope Time 1–4)	0–127	Specify the TVF envelope times (Time 1–Time 4). Higher settings will lengthen the time until the next cutoff frequency level is reached. (For example, Time 2 is the time over which Level 1 will change to Level 2.) Cutoff Frequency L1 L2 L3 L4 Time Note on T: Time L: Level
F-Env Level0–4 (TVF Envelope Level 0–4)	0–127	Specify the TVF envelope levels (Level 0–Level 4). These settings specify how the cutoff frequency will change at each point, relative to the standard cutoff frequency (the cutoff frequency value specified in the TVF screen).

TVA settings (Rhythm TVA/Rhythm TVA Env screen)

■ Rhythm TVA screen.....



Parameter	Value	Explanation
Tone Level	0–127	Sets the volume of the rhythm tone. This setting is useful primarily for adjusting the volume balance between rhythm tones. TIP The volume levels of the Waves from which the rhythm tone is composed is set with the Wave Level (p. 121).
Level V-Curve	FIX, 1–7	You can select from seven curves that determine how keyboard playing strength will affect the volume. If you do not want the volume of the tone to be affected by the force with which you play the key, set this to "FIXED."
(TVA Level Velocity Curve)		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Level V-Sens (TVA Level Velocity Sensitivity)	-63-+63	Set this when you want the volume of the tone to change depending on the force with which you press the keys. Set this to a positive (+) value to have the changes in tone volume increase the more forcefully the keys are played; to make the tone play more softly as you play harder, set this to a negative (-) value.
Tone Pan	L64-0-63R	Sets the pan of the tone. "L64" is far left, "0" is center, and "63R" is far right. TIP Set the Pan for Waves comprising the rhythm tones with the Wave Pan (p. 121).
Random Pan Depth	0-63	Use this parameter when you want the stereo location to change randomly each time you press a key. Higher settings will produce a greater amount of change. NOTE This will affect only waves whose Wave Rnd Pan Sw (p. 121) is ON.
Alter (Alternate) Pan Depth	L63-63R	This setting causes panning to be alternated between left and right each time a key is pressed. Higher settings will produce a greater amount of change. "L" or "R" settings will reverse the order in which the pan will alternate between left and right. For example if two tones are set to "L" and "R" respectively, the panning of the two tones will alternate each time they are played. NOTE This will affect only waves whose Alter Pan Sw (p. 121) is ON or REVS.

■ Rhythm TVA Env screen



Parameter	Value	Explanation
A-Env T1 V-Sens (TVA Envelope Time 1 Velocity Sensitivity)	-63-+63	This allows keyboard dynamics to affect the Time 1 of the TVA envelope. If you want Time 1 to be speeded up for strongly played notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
A-Env T4 V-Sens (TVA Envelope Time 4 Velocity Sensitivity)	-63-+63	The parameter to use when you want key release speed to control the Time 4 value of the TVA envelope. If you want Time 4 to be speeded up for quickly released notes, set this parameter to a positive (+) value. If you want it to be slowed down, set this to a negative (-) value.
A-Env Time 1–4 (TVA Envelope Time 1–4)	0–127	Specify the TVA envelope times (Time 1–Time 4). Higher settings will lengthen the time until the next volume level is reached. (For example, Time 2 is the time over which Level 1 will change to Level 2.)
A-Env Level 1–3 (TVA Envelope Level 1–3)	0–127	Specify the TVA envelope levels (Level 1–Level 3). These settings specify how the volume will change at each point, relative to the standard volume (the Tone Level value specified in the TVA screen). + Level Time Time

Output-related settings for the rhythm set and rhythm tones (Rhythm Output screen)



Parameter	Value	Explanation
Rhy Out Assign (Rhythm Output Assign)	MFX, L+R, L, R, TONE	Specifies for each rhythm set how the direct sound will be output. MFX: Output in stereo through multi-effects. You can also apply chorus or reverb to the sound that passes through multi-effects. L+R: Output to the OUTPUT jacks in stereo without passing through multi-effects. L, R: Output to the OUTPUT L jack or OUTPUT R jack in mono without passing through multi-effects. TONE: Outputs according to the settings for each tone. * If you've made settings so that sounds are separately routed to the OUTPUT L jack and OUTPUT R jack, but no plug is actually inserted in the OUTPUT R jack, the sounds routed to OUTPUT L and OUTPUT R will be mixed and output from the OUTPUT L jack.
Tone Out (Output) Assign	MFX, L+R, L, R	 Specifies how the direct sound of each tone will be output. MFX: Output in stereo through multi-effects. You can also apply chorus or reverb to the sound that passes through multi-effects. L+R: Output to the OUTPUT jacks in stereo without passing through multi-effects. L, R: Output to the OUTPUT L jack or OUTPUT R jack in mono without passing through multi-effects. * If the Rhy Out Assign is set to anything other than "TONE," these settings will be ignored. * When the Str Type has a setting of Type "2"-"10," the outputs of tones 1 and 2 will be combined with tone 2, and the outputs of tones 3 and 4 will be combined with tone 4. For this reason, tone 1 will follow the settings. * If you've made settings so that sounds are separately routed to the OUT-PUT L jack and OUTPUT R jack, but no plug is actually inserted in the OUT-PUT R jack, the sounds routed to OUTPUT L and OUTPUT R will be mixed and output from the OUTPUT L jack. * Sounds are output to chorus and reverb in mono at all times. * The output destination of the signal after passing through the chorus is set with the Output Select (p. 135).
Tone Out Level (Rhythm Tone Output Level)	0–127	Set the level of the signal that is sent to the output destination specified by Tone Out Assign.
Cho Send (MFX) (Rhythm Tone Chorus Send Level (Output=MFX))	0–127	Specifies the level of the signal sent to the chorus for each rhythm tone if the rhythm tone is sent through MFX.
Rev Send (MFX) (Rhythm Tone Reverb Send Level (Output=MFX))	0–127	Specifies the level of the signal sent to the reverb for each rhythm tone if the rhythm tone is sent through MFX.
Cho Send (nonMFX) (Rhythm Tone Chorus Send Level (Output=non MFX))		Sets the level of the signal sent to chorus for each rhythm tone if the rhythm tone is not sent through MFX.
Rev Send (nonMFX) (Tone Reverb Send Level (Output=non MFX))	0–127	Sets the level of the signal sent to reverb for each rhythm tone if the rhythm tone is not sent through MFX.

Rhythm Tone Copy

Copies the settings of a rhythm tone to a rhythm tone in the currently selected rhythm set.

From the Rhythm Edit menu screen (p. 117), select "TON COPY." The Rhythm Tone Copy screen will appear.



1. Select the copy-source tone and copy-destination tone.

Parameter	
(1)	Group of the copy-source rhythm set
(2)	Copy-source rhythm set
(3)	Copy-source rhythm tone
(4)	Copy-destination rhythm tone

- The copy-destination rhythm set is the rhythm set that's selected in the temporary area (p. 57).
- Move the cursor to "COPY" and press [CURSOR/VALUE]. A confirmation message will appear.



 To execute the copy, select "OK" and press [CURSOR/ VALUE].

If you decide not to execute the copy, select "CANCEL" and press [CURSOR/VALUE].

Once the copy has been completed, you'll be returned to the previous screen.

Rhythm Tone Initialize

Returns the settings of just a specific key in the current rhythm set to their initial values

From the Rhythm Edit menu screen (p. 117), select "TON INIT." The Rhythm Tone Init screen will appear.



- Turn [CURSOR/VALUE] to select the key (A0–C8) that you want to initialize.
- 2. Move the cursor to "INIT" and press [CURSOR/VALUE].
 A confirmation message will appear.



To execute the initialization, select "OK" and press [CURSOR/VALUE].

If you decide not to initialize, select "CANCEL" and press [CURSOR/VALUE].

When initialization is finished, you'll be returned to the previous screen.

Rhythm Set Initialize

Returns the settings of the current rhythm set to their initial values

From the Rhythm Edit menu screen (p. 117), select "RHY INIT." A confirmation message will appear.



 To execute the initialization, select "OK" and press [CURSOR/VALUE].

If you decide not to initialize, select "CANCEL" and press [CURSOR/VALUE].

When initialization is finished, you'll be returned to the previous screen.

Rhythm Set Write

Saves the current rhythm set as user data.

From the Rhythm Edit menu screen (p. 117), select "Write" to access the Rhythm Set Name screen.

In this screen you can assign a name (rhythm set name) of up twelve characters to the rhythm set you're going to save.



- Move the cursor to the location where you want to enter a character, and press [CURSOR/VALUE].
- 2. Turn [CURSOR/VALUE] to select the desired character, then press [CURSOR/VALUE] to enter that character.

You can press [MENU] to view convenient functions for text entry.

Press [MENU] once again to return to the previous screen.



Function	Explanation
INSERT	Press [CURSOR/VALUE] to insert a space (blank) at the cursor location.
DELETE	Press [CURSOR/VALUE] to delete the character at the cursor location; subsequent characters will move forward.
UNDO	Revert to the unedited rhythm set name.

- 3. Repeat steps 1 and 2 as many times as necessary.
- When you've finished entering the rhythm set name, move the cursor to "WRITE" and press [CURSOR/VALUE].

The Rhythm Set Write screen will appear.



5. Turn [CURSOR/VALUE] to select the save-destination rhythm set, then press [CURSOR/VALUE].

A confirmation message will appear.



To write the rhythm set into memory, select "OK" and press [CURSOR/VALUE].

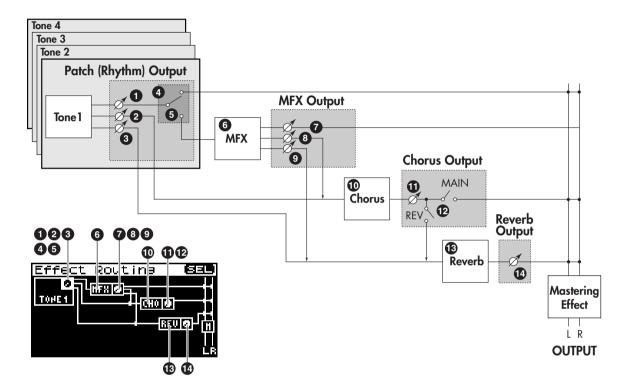
If you decide you don't want to carry out the write, select "CANCEL" and press [CURSOR/VALUE].

Once the data has been written, you'll be returned to the previous screen.

Editing the effects (Patch/Rhythm Set)

In Patch mode you can use multi-effects, chorus, and reverb.

■ Signal flow......

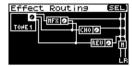


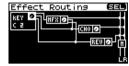
0.0	If the patch type is Patch, make these settings in the Patch Output screen. ①: Tone Out Level, ②: Cho Send (MFX) / Cho Send (non MFX), ③: Rev Send (MFX) / Rev Send (non MFX), ③: Pat Out Assign, ⑤: Tone Out Assign	p. 108
0-6	If the patch type is Rhythm, make these settings in the Rhythm Output screen. ①: Tone Out Level, ②: Cho Send (MFX) / Cho Send (non MFX), ③: Rev Send (MFX) / Rev Send (non MFX), ④: Rhy Out Assign, ⑤: Tone Out Assign	p. 129
6	Make these settings in the MFX screen. • Select the multi-effect type and edit the parameters.	p. 134
7 -9	Make these settings in the MFX Output screen. ② : Output Level, ③ : Chorus Send Level, ④ : Reverb Send Level	p. 135
•	Make these settings in the Chorus screen. • Select the chorus type and edit the parameters.	p. 135
O - O	Make these settings in the Chorus Output screen. ●: Output Level, ●: Output Select	p. 135
®	Make these settings in the Reverb screen. • Select the reverb type and edit the parameters.	р. 136
•	Make these settings in the Reverb Output screen. Output Level	p. 136

■ Procedure

1. In the Patch Edit screen, press [EFFECTS].

The [EFFECTS] indicator will light, and the Effect Routing screen will appear.





- Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.
- Press [CURSOR/VALUE] to highlight the value.
 If a parameter has a "SELECT" indication in the value field, you can press [CURSOR/VALUE] to access the setting screen.
- Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].
- **5.** When you've finished editing, press [EXIT]. The Patch Edit screen will appear.

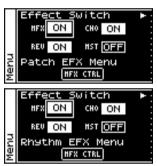
■ Menu screens for effect editing.

From the Effect Edit screen, you can press [MENU] to access the Patch Effect menu screen or Rhythm Effect menu screen

The Patch Effect menu screen and Rhythm Effect menu screen are structured as shown at the right.

You can turn [CURSOR/VALUE] to the right or left to switch between screens.

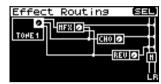
Press [MENU] once again to return to the previous screen.

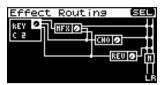




Parameter	Value	Explanation
MFX (MFX Switch)	OFF, ON	Specifies whether MFX will be used (ON) or not used (OFF).
CHO (Chorus Switch)	OFF, ON	Specifies whether chorus will be used (ON) or not used (OFF).
REV (Reverb Switch)	OFF, ON	Specifies whether Reverb will be used (ON) or not used (OFF).
MST (Mastering Effect Switch)	OFF, ON	Specifies whether Mastering Effect will be used (ON) or not used (OFF).
MFX CTRL (MFX Control)		Edits MFX control settings. Press [CURSOR/VALUE] to access the MFX Control screen (p. 137).
Write (Patch/Rhythm Set Write)		Saves the current patch or rhythm set as user data. Press [CURSOR/VALUE] to access the Patch Name screen (p. 116) or Rhythm Set Name screen (p. 131).
System		Press [CURSOR/VALUE] to access the System screen (p. 176).
Utility		Press [CURSOR/VALUE] to access the Utility screen (p. 182).
Demo Play		When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.
SRX Info (SRX Information)		Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).
Version (Version Information)		Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).

Selecting the item to edit (Effect Routing screen)

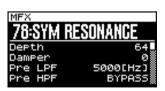




Parameter	Explanation		
Tone (Tone Output)	Edits output-related settings for the patch/tone.		
* Patch Type: Patch	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Patch Output screen (p. 108).		
Vos. [7] (Dhadhan Oudand)	Edits output-related settings for the rhythm set/rhythm tone.		
Key ☑ (Rhythm Output) * Patch Type: Rhythm	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Rhythm Output screen (p. 129).		
MFX	Edits multi-effect settings. Press [CURSOR/VALUE] to access the MFX screen (p. 134).		
MEY 🗖	Edits settings for the multi-effect output.		
MFX Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the MFX Output screen (p. 135).		
СНО	Edits chorus settings.		
(Chorus)	Press [CURSOR/VALUE] to access the Chorus screen (p. 135).		
cuo 🗖	Edits settings for the chorus output.		
CHO (Chorus Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Chorus Output screen (p. 135).		
REV	Edits reverb settings.		
(Reverb)	Press [CURSOR/VALUE] to access the Reverb screen (p. 136).		
DEV/	Edits settings for the reverb output.		
REV (Reverb Output)	By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Reverb Output screen (p. 136).		
M	Edits mastering effect settings.		
(Mastering Effect)	Press [CURSOR/VALUE] to access the Mastering Effect screen (p. 181).		

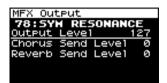
Multi-effect settings (MFX/MFX Output screen)

■ MFX screen



Parameter	Value	Explanation
00: THRU-78: SYMRESONANCE (MFX Type)		Selects the type of multi-effect used by MFX. Choose "00: THRU" if you don't want to apply a multi-effect.
Parameters for each MFX type		Edit the parameters for the selected MFX type. Refer to "Multi-Effects Parameter (MFX1–3, MFX)" (p. 192).

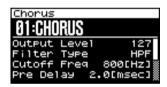
■ MFX Output screen



Parameter	Value	Explanation
Output Level	0–127	Adjusts the volume of the sound that has passed through the multi-effects. If you're applying a multi-effect, this specifies the depth of the multi-effect. If you're not applying a multi-effect, this specifies the volume of the original sound.
Chorus Send Level	0–127	Adjusts the amount of chorus for the sound that passes through multi-effects. If you don't want to add the Chorus effect, set it to "0.'
Reverb Send Level	0–127	Adjusts the amount of reverb for the sound that passes through multi-effects. If you don't want to add the Reverb effect, set it to "0."

Chorus settings (Chorus/Chorus Output screens)

■ Chorus screen.....



Parameter	Value	Explanation
00: OFF-03: GM2 CHORUS (Chorus Type)		Selects the types of chorus. Choose "00: OFF" if you don't want to apply a chorus.
Parameters for each chorus type		Edit the parameters for the selected chorus type. Refer to "Chorus Parameters" (p. 219).

■ Chorus Output screen



Parameter	Value	Explanation
Output Level	0–127	Adjusts the volume of the sound that has passed through chorus.
Output Select	MAIN, REV, M+R	Specifies how the sound routed through chorus will be output. MAIN: Output to the OUTPUT jacks in stereo. REV: Output to reverb in mono. M+R: Output to the OUTPUT jacks in stereo, and to reverb in mono.

Reverb settings (Reverb/Reverb Output screens)

■ Reverb screen.....



Parameter	Value	Explanation
00: OFF-03: GM2 REVERB (Reverb Type)		Selects the types of reverb. Choose "00: OFF" if you don't want to apply a reverb.
Parameters for each reverb type		Edit the parameters for the selected reverb type. Refer to "Reverb Parameters" (p. 220).

■ Reverb Output screen



Parameter	Value	Explanation
Output Level	0–127	Adjusts the volume of the sound that has passed through reverb.

Controlling the multi-effects via MIDI (MFX Control screen)

Multi-Effects Control

If you wanted to change the volume of multi-effects sounds, the delay time of Delay, and the like, using an external MIDI device, you would need to send System Exclusive messages-MIDI messages designed exclusively for the SonicCell. However, System Exclusive messages tend to be complicated, and the amount of data that needs to be transmitted can get quite large.

For that reason, a number of the more typical of the SonicCell's multi-effects parameters have been designed so they accept the use of Control Change (or other) MIDI messages for the purpose of making changes in their values. For example, you can use the Pitch Bend lever to change the amount of distortion, or use the keyboard's touch to change the delay time of Delay. The parameters that can be changed are predetermined for each type of multi-effect; among the parameters described in "Multi-Effects Parameter (MFX1–3, MFX)" (p. 192), these are indicated by a "#."

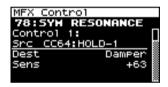
The function that allows you use MIDI messages to make these changes in realtime to the multi-effects parameters is called the Multi-effects Control.

You can use up to four multi-effect controls in a patch or rhythm set.

When the multi-effects control is used, you can select the amount of control (Sens) applied, the parameter selected (Dest), and the MIDI message used (Source).

TIP

By using the Matrix Control (p. 95) instead of the Multi-effects Control, you can also change the parameters of some popular multi-effects in realtime.



Parameter	Value	Explanation	
Control 1–4 Src (Source)	OFF, CC01–CC31, CC33–95, PITCH BEND, AFTERTOUCH, SYS CTRL1–4	Sets the MIDI message used to control the multi-effects parameter with the multi-effects control. OFF: Multi-effects control will not be used. CC01-31, 33-95: Controller numbers 1-31, 33-95 PITCH BEND: Pitch Bend AFTERTOUCH: Aftertouch SYS CTRL1-4: Use the System Control setting (p. 179).	
Control 1–4 Dest (Destination)	Refer to "Multi-Effects Pa- rameter" (p. 192)	Sets the multi-effects parameters to be controlled with the multi-effects control. The multi-effects parameters available for control will depend on the multi-effects type.	
Control 1–4 Sens	-63-+63	Sets the amount of the multi-effects control's effect that is applied. If you wish to modify the selected parameter in a positive (+) direction—i.e., a higher value, toward the right, or faster, etc.—from its current setting, select a positive (+) value. If you wish to modify the selected parameter in a negative (-) direction—i.e., a lower value, toward the left, or slower, etc.—from its current setting, select a negative (-) value. Higher numbers produce a greater amount of change.	

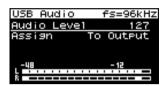
MEMO

Audio Connections

Using the SonicCell with your computer (USB AUDIO)

Basic operation

Press [USB AUDIO] so its indicator is lit.
 The USB Audio screen will appear.



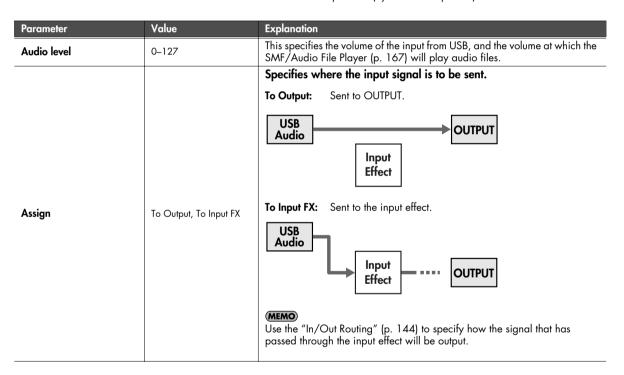
Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit. 3. Press [CURSOR/VALUE] to highlight the value.



- 4. Turn [CURSOR/VALUE] to edit the value.
- When you've finished editing the value, press [CURSOR/ VALUE].

(MEMO)

To save the setting, press [MENU] to access the menu screen, and choose "Write" (System Write) to execute the Write operation (System Write: p. 150).



NOTE

Input/output of USB audio and MIDI messages cannot be used at the same time that the SMF/Audio File Player (p. 167) is playing.

Using the SonicCell with your computer (USB AUDIO)

Accessing the Menu screen



From the USB Audio screen, press [MENU] to access the Menu screen. Press [MENU] once again to return to the USB Audio screen.

Parameter	Explanation	
Write (System Write)	Saves the current settings as system settings (p. 150).	
System	Press [CURSOR/VALUE] to access the System screen (p. 176).	
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).	
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.	
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).	
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).	

Inputting sound from an external device (INPUT)

Basic operation

1. Press [INPUT] so its indicator is lit.
The Input screen will appear.



- Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.
- 3. Press [CURSOR/VALUE] to highlight the value.



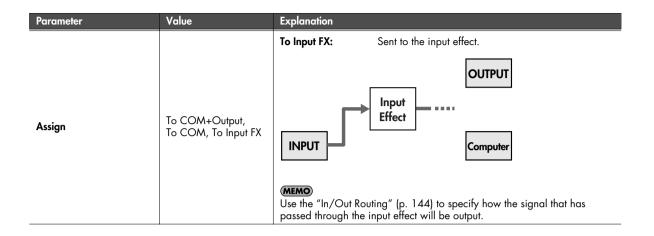
- 4. Turn [CURSOR/VALUE] to edit the value.
- When you've finished editing the value, press [CURSOR/ VALUE].

(MEMO)

To save the setting, press [MENU] to access the menu screen, and choose "Write" (System Write) to execute the Write operation (System Write: p. 150).

Parameter	Value	Explanation
Phantom Power		Turns phantom power on/off. Turn this "ON" if you've connected a phantom-powered condenser mic to the MIC INPUT jack.
	OFF, ON	You must turn phantom power "OFF" unless a condenser mic that requires phantom power is connected. Supplying phantom power to a dynamic mic will cause malfunctions. For details on mic specifications, refer to the owner's manual for the mic you're using.
		 Before you switch phantom power on/off, you must turn the front panel [VOLUME] knob to "0." If you turn phantom power on/off with the volume raised, high-volume noise will be produced, possibly damaging your amp or speakers. When you turn the power on, the phantom power will always be OFF.
		Specifies where the input signal is to be sent.
		To COM+ Output: Sent to computer and OUTPUT.
Assign	To COM+Output, To COM, To Input FX	INPUT Computer
		To COM: Output to the computer.
		ОИТРИТ
		Input Effect
		INPUT

Inputting sound from an external device (INPUT)



Accessing the Menu screen



From the Input screen, press [MENU] to access the Menu screen. Press [MENU] once again to return to the Input screen.

Parameter	Explanation	
Write (System Write)	Saves the current settings as system settings (p. 150).	
System	Press [CURSOR/VALUE] to access the System screen (p. 176).	
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).	
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.	
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).	
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).	

Input/output and effect settings (In/Out Routing)

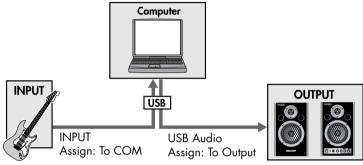
You can specify how the input signal from an external source or USB will be processed by the effects and then output when the [INPUT] or [USB AUDIO] indicator is lit. These settings are called "In/Out Routing."

Here are some examples of what you can do.

You can use your computer to apply an effect to the audio received via INPUT

You can use an effect on your computer to process the sound of your guitar, and listen to the resulting sound from monitors (speakers) connected to OUTPUT.

(Example)



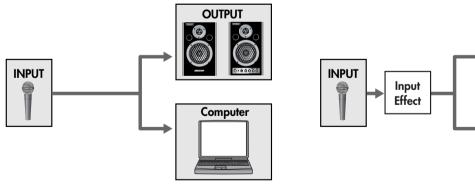
Settings

INPUT: Assign (p. 142) = To COM USB Audio: Assign (p. 140) = To Output

Use an "input effect" that's dedicated to INPUT/USB

The sound that's received at INPUT or USB can be sent directly out without change, or processed by a dedicated "input effect."

(Example)



Settings

INPUT: Assign (p. 142) = To COM+ Output

Assign (p. 142) = To Input FX Input Effect (p. 147)

OUTPUT

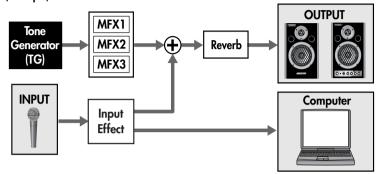
Computer

Listen to the effect-processed sound from your speakers, while recording the unprocessed sound on your computer

You can use the chorus/reverb that's assigned to a performance/patch. In other words, the effect will depend on the performance/patch that's selected.

You can also use the mastering effect. In addition, you can choose how the signal that passes through the input effect will be output. For example, you could listen to the vocal with reverb, while recording the vocal "dry" (without reverb) for later processing.

(Example)



Settings

Tone Generator: Performance mode INPUT: Assign (p. 142) = To Input FX To Computer: Type (p. 148) = Input FX

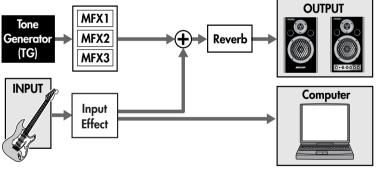
Input Effect (p. 147) MFX1-3 (p. 78) Reverb (p. 79)

Applying an effect such as distortion to the sound of a guitar connected to INPUT

When using the sound module in Performance mode, the MFX3 (multi-effect 3) of the performance can be used as an effect for the INPUT/USB input. Since the multi-effects provided include guitar-type effects, such as distortion, overdrive, and guitar amp simulator, this is convenient when you want to apply an effect to the guitar that's connected to INPUT.

You can also record the distorted guitar sound on your computer, or apply reverb as well.

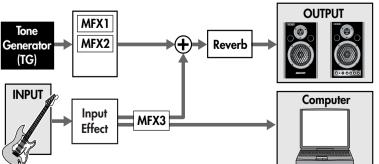




Settings

Tone Generator: Performance mode INPUT: Assign (p. 142) = To Input FX To Computer: Type (p. 148) = Input FX MFX3 Location: Type (p. 149) = TG

Input Effect (p. 147) MFX1-3 (p. 78) Reverb (p. 79)



Settings

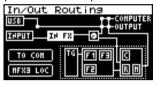
Tone Generator: Performance mode INPUT: Assign (p. 142) = To Input FX To Computer: Type (p. 148) = Input FX MFX3 Location: Type (p. 149) = Input FX

Input Effect (p. 147) MFX1-3 (p. 78) Reverb (p. 79)

■ Procedure

- Press [INPUT] or [USB AUDIO] so its indicator is lit.
 The Input screen or USB Audio screen will appear.
- 2. Press [EFFECTS] so its indicator is lit.
 The In/Out Routing screen will appear.

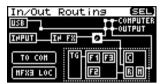
(Performance mode)



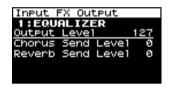
(Patch mode)



Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.



Turn [CURSOR/VALUE] to move the cursor to the parameter you want to edit.



- 5. Press [CURSOR/VALUE] to highlight the value.
- 6. Turn [CURSOR/VALUE] to edit the value.
- When you've finished editing, press [CURSOR/VALUE].
 Press [EXIT] or [EFFECTS] to access the In/Out Routing screen.

■ Menu screens when editing In/Out Routing

If you're in a screen that's related to the In/Out routing, pressing [MENU] will bring up the Effect Switch screen. The Effect Switch screen is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left.

Press [MENU] once again to return to the previous screen.





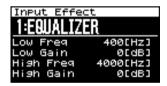
Parameter	Value	Explanation
Input Effect (Input Effect Switch)	OFF, ON	Specifies whether input effects will be used (ON) or not used (OFF).
Write (System Write)		Saves the current settings as system settings (p. 150).
System		Press [CURSOR/VALUE] to access the System screen (p. 176).
Utility		Press [CURSOR/VALUE] to access the Utility screen (p. 182).
Demo Play		When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.
SRX Info (SRX Information)		Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).
Version (Version Information)		Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).

Selecting the item to edit (In/Out Routing screen)

Parameter	Explanation	
IN FX (Input Effect)	Edits the input effect settings. Press [CURSOR/VALUE] to access the Input Effect screen.	
[Input Effect output)	Edits the output settings for the input effect. By moving the cursor to and pressing [CURSOR/VALUE] you can move to the Input FX Output screen (p. 148).	
F3 (MFX3)	Edits the MFX3 settings. Press [CURSOR/VALUE] to access the MFX 3 screen (p. 78). * This is not shown in Patch mode. * This is not shown if the MFX 3 Location "Type" (p. 149) is set to TG.	
TO COM (To Computer)	Selects the signal that is sent to the computer. Press [CURSOR/VALUE] to access the To Computer screen (p. 148).	
MFX3 LOC (MFX3 Location)	Specifies how MFX3 will be used. Press [CURSOR/VALUE] to access the MFX 3 Location screen (p. 149). * This is not shown in Patch mode.	

Input effect settings (Input Effect/Input FX Output screen)

■ Input Effect screen.....



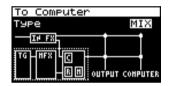
Parameter	Value	Explanation	
	Selects the input effect type.		
	1: EQUALIZER Adjusts the tone of the low-frequency and high-frequency ranges.		
	2: ENHANCER Modifies the harmonic content of the high-frequency range to add sparkle to the sound.		
Input effect type	3: COMPRESSOR Restrains high levels and boosts low levels to ma	ske the overall volume more consistent.	
	4: LIMITER Compresses the sound when it exceeds a specifi	ied volume, to keep distortion from occurring.	
	5: NOISE SUPPRESSOR Suppresses noise during periods of silence.		
	6: CENTER CANCELER Removes the sounds that are localized at the center of the stereo input. This is a convenient way to eliminate a vocal.		
Parameters for each input effect type	Here you can edit the parameters of the selected input effect type. Refer to "Input Effect Parameters" (p. 221).		

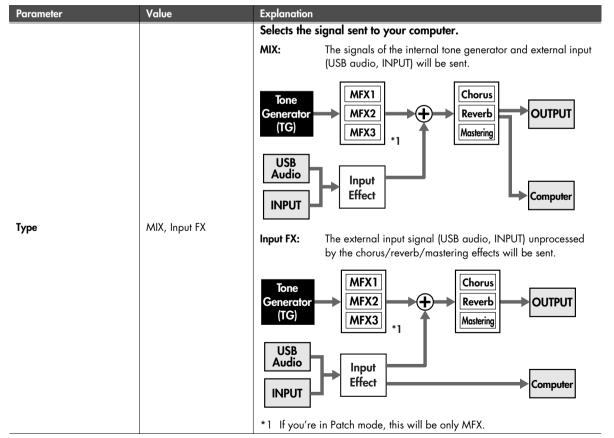
■ Input FX Output screen



Parameter	Value	Explanation
Output Level	0-127 Set the level of the signal that is sent to the OUTPUT.	
Chorus Send Level	0–127	Adjusts the amount of chorus for the sound. If you don't want to add the Chorus effect, set it to "0."
Reverb Send Level	0–127	Adjusts the amount of reverb for the sound. If you don't want to add the Reverb effect, set it to "0."

Selecting the signal sent to your computer (To Computer screen)



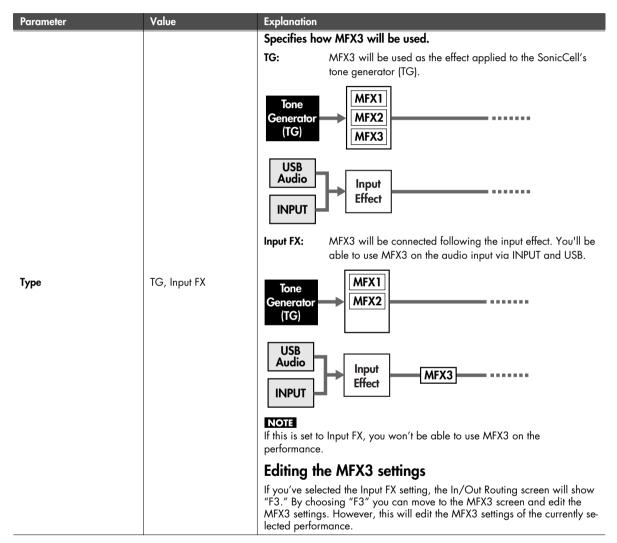


Specifies how MFX3 will be used (MFX3 Location screen)



NOTE

This screen won't appear in Patch mode.



Saving the MFX3 settings

If you've edited the MFX3 effect type or parameter values, those settings will be saved as settings of the **currently selected performance**.

To save the settings, from the MFX3 screen, press [MENU] to access the menu screen, and then choose "Write" (Performance Write). (Performance Write: p. 73)

* In/Out routing settings are saved as system settings. (System Write: p. 150)

System Write

This saves the current system settings.

In the menu screen (p. 141, p. 143, p. 146), choose "Write" (System Write) and you'll see a confirmation message.



 If you want to write the settings, select "OK" and press [CURSOR/VALUE].

If you decide not to write the settings, select "CANCEL" and press [CURSOR/VALUE].

Once the settings have been written, you'll be returned to the previous screen.

Using the plug-in version of SonicCell Editor

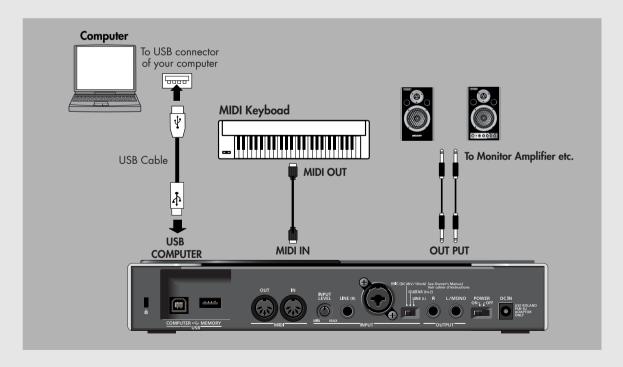
This chapter explains how to use the plug-in version of SonicCell Editor as a plug-in module in your VSTi or AU compatible host application.

The plug-in version of SonicCell Editor is a plug-in module that lets you edit the SonicCell's parameters from within your host application. The results of your editing can be saved in a project file of your host application.

NOTE

- In Performance mode, part 'n' of the SonicCell will normally be MIDI channel 'n'.
- In Patch mode, the SonicCell's MIDI channel will normally be 1.
- If you've changed the MIDI channel setting, please substitute the actual channel for any MIDI channel appearing in this
 explanation.
- Functionality may be limited depending on the host application you're using. For details, refer to the owner's manual of your host application.
- You can't use the stand-alone version and plug-in version of SonicCell Editor at the same time.
- The SonicCell Editor plug-in version cannot be plugged into multiple tracks of the same project at the same time.
- The SonicCell Editor plug-in version cannot be plugged into multiple projects at the same time.

Connection example



SONAR LE

Installing the driver and SonicCell Editor

Before you continue, install the driver, SonicCell Editor, Librarian, and Playlist Editor as described on p. 33-p. 36.

- The stand-alone version of the editor, the librarian, and the playlist editor will be installed in C:\Program Files\Roland\SonicCellEditor.
- The plug-in version of the editor (subsequently referred to as "the plug-in") will be copied to C:\Program Files\Roland.

Installing SONAR LE

Here's how to install the included SONAR LE into your computer.

NOTE

In order to perform the following procedure, you'll need to log onto Windows as a user whose account type is Administrator.

 Place the SONAR LE installation CD-ROM into your CD-ROM drive.

The installer will start up automatically. Proceed with the installation as directed by the on-screen instructions.

- If the installer doesn't start up automatically, please start it up using the following procedure.
 - From the Windows Start menu, choose "My Computer."
 - The drives detected by your computer will be displayed; double-click the CD-ROM drive.

Windows Vista users:

The message "An unidentified program wants access to your computer" will appear. Click [Allow].

* When the "Installation Complete" dialog box appears, clear the "Launch SONAR LE" check box, and click [Finish]. If you failed to clear the check box and the program started up, close SONAR LE.

Windows Vista users:

If you're using SONAR LE on Windows Vista, you'll need to make user account control settings after installing SONAR LE.

- After installing SONAR LE, right-click the "SONAR LE" icon that was created on your desktop, and choose "Properties" from the menu that appears.
- Click the "Compatibility" tab to open the Compatibility page.
- 3. In the "Privilege level" area, select "Run this program as an administrator."
- 4. Click "OK" to close Properties.

NOTE

When you start up SONAR LE on Windows Vista, a message of "An unidentified program wants access to your computer" will appear. Click [Allow] to start up SONAR LE.

Updating the VST Adapter

In order to register the software in SONAR LE, you'll need to update VST Adapter.

NOTE

In order to perform the following procedure, you'll need to log onto Windows as a user whose account type is Administrator.

- 1. Close all currently running software.
- In the SonicCell Editor CD, navigate to the "Sonar Utility\VST Adapter updater" folder and double-click "VSTAdapter453Update E.exe" to start up the installer.

Windows Vista users:

The message "An unidentified program wants access to your computer" will appear; click [Allow].

- Proceed with the installation as directed by the on-screen instructions.
- When the update is complete, the "Wrap VST Plugins" will run automatically.
 In this case, click [Cancel] to exit the wizard.

Initial MIDI and audio device settings for SONAR LE

 Double-click the SONAR LE icon on your desktop to start up SONAR LE.

The "Wave Profiler (WDM Kemel Streaming)" dialog box will appear.

- Click [Yes] to execute audio device detection. When the process has been completed, click [Close].
 - * If the "Wave Profiler(WDM Kemel Streaming)" dialog box does not open automatically, select the SONAR LE "Options" menu command "Audio" to open the "Audio Options" dialog box, and in the "General" tab, click [Wave Profiler (WDM Kemel Streaming)].
- The "Online Registration" dialog box will open. Select "Please remind me to register later.," and click [OK].
 For details on activation, refer to online Help for SONAR LE.
- 4. The "Tip of the Day" will appear; click [Close] to close the dialog box.

- A message telling you that "No MIDI Outputs Selected"; click [Choose MIDI Outputs Now] to open the "MIDI Devices" dialog box.
 - * If the message "No MIDI Outputs Selected" does not appear, select SONAR LE's Option menu command "MIDI Devices" to open the "MIDI Devices" dialog box.
- In the MIDI Devices dialog box, click to make only the following items highlighted.

Input	Output
Roland SonicCell	Roland SonicCell

- Once you've made the above selections, click [OK] to close the dialog box.
- 8. The "Quick Start" dialog box will open; click "Close." SONAR LE has now started up. Next, you need to make the audio device settings.
- From the "Options" menu, select the "Audio" command to open the "Audio Options" dialog box.
- 10. Open the "Drivers" tab.

For both "Input Drivers" and "Output Drivers," click the device names so that only "Roland SonicCell" is highlighted for each.

- Once you've made the device settings, click [OK] to close the dialog box.
 - If a message suggests that you restart SONAR LE, restart SONAR LE.
- 12. Once again, select the "Options" menu command "Audio" to open the "Audio Options" dialog box.
- 13. In the "General" tab, set "Audio Driver Bit Depth" to "24."
 This completes the device settings.
- 14. In the "Audio Options" dialog box, click [OK] to close the dialog box.
 - If a message suggests that you restart SONAR LE, restart SONAR LE.

Registering the plug-in in SONAR LE

For details about registering a plug-in in SONAR LE, refer to the online help for Cakewalk VST Adapter.

 Open the "Cakewalk VST Configuration Wizard: Search Paths" dialog box.

Windows XP users

From the Start menu, choose "All Programs" - "Cakewalk" - "Cakewalk VST Adapter 4" - "Cakewalk VST Adapter 4," and click [Next].

Windows Vista users

From the Start menu, choose "All Programs" - "Cakewalk" - "Cakewalk VST Adapter 4," and then inside it right-click "Cakewalk VST Adapter 4."

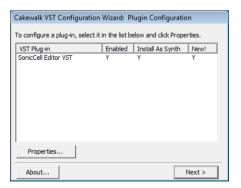
From the menu that appears, choose [Run as administrator].

A message stating that "An unidentified program wants access to your computer" will appear; click [Allow] and click [Next].

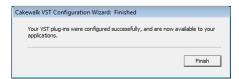
Click [Add], add "(the folder to which you copied the plugin)\Roland," and then click [Next].

Normally, this will be C:\Program Files\Roland. If a message indicates "MIDI devices aren't set up correctly," click [OK].

3. When the "Cakewalk VST Configuration Wizard: Plugin Configuration" dialog box opens, click [Next].



 When the "Cakewalk VST Configuration Wizard: Finished" dialog box appears, click [Finish].



Connections and settings

- 1. Use a USB cable to connect the SonicCell to your computer.
- If necessary, use a MIDI cable to connect your MIDI keyboard to the SonicCell.
- 3. Turn on the power of the SonicCell.

If the SonicCell is not connected correctly, SonicCell Editor may not operate correctly.

Make sure that you switch on the SonicCell's power before you start up SONAR LE.

* Don't disconnect the USB cable connected to the SonicCell while SONAR LE is running.

Settings for the SonicCell

If you've connected a MIDI keyboard or other MIDI device to the SonicCell's MIDI IN, set the USB-MIDI Thru (p. 177) setting on the SonicCell module to ON.

If this is ON, MIDI messages arriving at MIDI IN will be sent without change to your computer via USB MIDI.

Settings for SONAR LE

Here we will use the SonicCell as a USB-MIDI interface for SONAR LE. Turn on the MIDI Thru setting.

If this is on, the MIDI messages received by SONAR LE will be sent back to the SonicCell's sound generator.

For details on SONAR LE settings, refer to th online help for SONAR LE.

- 1. Start up SONAR LE.
- 2. Specify the SonicCell as the USB-MIDI interface for SONAR IF

For details on how to make this setting, refer to the online help for SONAR LE.

- 3. From the menu, choose "Options" "Global" to open the "Global Options" dialog box.
- 4. Select the "General" tab.
- Select the "Always Echo Current MIDI Track" check box, and click [OK].

Starting up SonicCell Editor

- 1. Start up SONAR LE.
- From the menu, choose "File" "Close" to close the project that was loaded at start-up.
- From the menu, choose "File" "New" to open the "New Project File" dialog box.
- Choose "Blank (no tracks or buses)" as the template, and click [OK].
- From the menu, choose "Insert" "Audio Track" to add an audio track.
- Right-click the FX field located at the right of the Track Pane of the audio track.
- From the menu that appears, choose "DXi Synth" "VST SonicCell Editor VST."

The plug-in version of SonicCell Editor will start up.

- If a message indicates "MIDI devices aren't set up correctly," click [OK].
- In SonicCell Editor, select the menu button "Setup" "Set Up MIDI Devices" to open the "Set Up MIDI Devices" dialog box.
- 10. In SonicCell Input/Output, choose "Roland SonicCell" and click [OK].
- 11. In SonicCell Editor, click [READ].

This will load the settings from the SonicCell into the editor.

NOTE

Steps 8–11 are needed only when starting the editor for the first time. The second and subsequent times, the SonicCell settings will be loaded into the editor from the port you specified.

Adding a MIDI track

- From the menu, choose "Insert" "MIDI Track" to add a MIDI track.
- 2. Specify the channel of the MIDI track.

If using Performance mode:

As the MIDI track's input, choose "Roland SonicCell" - "MIDI Ch. n (the number of the part you will record)." As the MIDI track's output, choose "Roland SonicCell." As the MIDI track's MIDI Ch, choose 'n' (the number of the part you will record).

If using Patch mode:

As the MIDI track's input, choose "Roland SonicCell" - "MIDI Ch.1."

As the MIDI track's output, choose "Roland SonicCell." As the MIDI track's MIDI Ch, choose "1."

3. Click the record-enable button in the track view.

Selecting a patch

If using Performance mode:

- In the upper part of SonicCell Editor's main window, click "PART" [n (number of the part to record)].
- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 3. Choose the desired patch from the menu that appears.

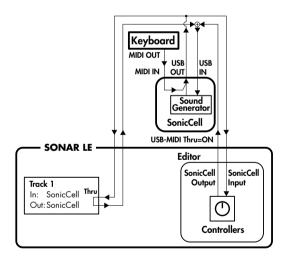
If using Patch mode:

- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 2. Choose the desired patch from the menu that appears.

Editing patch parameters

You can edit the patch parameters as desired.

The following illustration shows the relationship between the SonicCell module, your MIDI keyboard, SonicCell Editor, and SONAR LE.



You can edit the values by clicking (and dragging) the buttons, sliders, and knobs.

For details on editing the parameters, refer to "SonicCell Editor Manual."

Select the menu button "Help" - "SonicCell Editor Manual" SONAR LE's "Track 2" (the MIDI track you added) corresponds to "Track 1" in the illustration.

MEMO

If playing the keyboard does not produce sound, make sure that you've selected the MIDI track you added. MIDI Thru is enabled for the selected MIDI track.

Recording MIDI data

Here's how to record your playing.

If you connect a MIDI keyboard to the SonicCell, you'll be able to record musical data from the keyboard.

If using Performance mode:

Set the MIDI channel of your MIDI keyboard to match the number of the part you want to record.

If using Patch mode:

Set the MIDI channel of your MIDI keyboard to 1.

- Click the record button in the Transport Toolbar, and play your MIDI keyboard.
- Click the stop button in the Transport Toolbar to stop recording.

Saving the project file

The SONAR LE project file also includes SonicCell Editor's performance data and patch data.

This means that if you save your project file, you normally won't need to save data in SonicCell Editor.

From the menu, choose "File" - "Save."

Opening a project file

SONAR LE project files include SonicCell Editor's performance data and patch data.

This means that when you open a project file, you normally won't need to open data in SonicCell Editor.

If using Performance mode:

- 1. Close SONAR LE.
- On the SonicCell module, select a different performance than the one you're currently using.

This is so you can verify that the performance data is reproduced when you open a project.

Double-click the project file you saved earlier; SONAR LE will start up.

SonicCell Editor will start up along with the project. The performance data saved in the project file will be reproduced on the SonicCell module.

If using Patch mode:

- 1. Close SONAR LE.
- On the SonicCell module, select a different patch than the one you're currently using.

This is so you can verify that the patch data is reproduced when you open a project.

Double-click the project file you saved earlier; SONAR LE will start up.

SonicCell Editor will open along with the project. The patch data saved in the project file will be reproduced on the SonicCell module.

NOTE

If you're using Windows Vista and you double-click a project file to start up SONAR LE, the following error message will appear.

"Windows cannot find '(project file path)'. Make sure you typed the name correctly, and then try again." Simply close the error message that was displayed, and continue using SONAR LE.

Recording multiple parts

If you're using Performance mode, you can edit and save the parameters for multiple SonicCell parts.

- 1. Repeat the following steps for the desired number of parts.
 - "Adding a MIDI track" (p. 154)
 - "Selecting a patch" (p. 155)
 - "Editing patch parameters" (p. 155)
 - "Recording MIDI data" (p. 155)
- Finally, execute "Save the project file" to save the multiple SonicCell parts along with the musical data.

SONAR 6.2

Installing the driver and SonicCell Editor

Before you continue, install the driver, SonicCell Editor, Librarian, and Playlist Editor as described on p. 33-p. 36.

- The stand-alone version of the editor, the librarian, and the playlist editor will be installed in C:\Program Files\Roland\SonicCellEditor.
- The plug-in version of the editor (subsequently referred to as "the plug-in") will be copied to C:\Program Files\Roland.

Registering the plug-in in SONAR 6.2

For details about registering a plug-in in SONAR 6.2, refer to the SONAR 6.2 owner's manual.

- 1. Start up SONAR 6.2.
- From the menu, choose "Tools" "Cakewalk Plug-in Manager" to open the "Cakewalk Plug-in Manager" dialog box.
- 3. In the "VST Configuration" group box, click [Options] to open the "Cakewalk VST Scan Paths" dialog box.
- Click [Add], and add "(the folder to which you copied the plug-in)\Roland."

Normally, this will be C:\Program Files\Roland.

- Click [OK] to close the [Cakewalk VST Scan Paths] dialog box.
- In the "VST Settings" group box, click [Scan VST Plug-ins] to register the plug-in version of SonicCell Editor. Then click |Close|.

Connections and settings

- 1. Use a USB cable to connect the SonicCell to your computer.
- 2. If necessary, use a MIDI cable to connect your MIDI keyboard to the SonicCell.
- 3. Turn on the power of the SonicCell.

If the SonicCell is not connected correctly, SonicCell Editor may not operate correctly.

Make sure that you switch on the SonicCell's power before you start up SONAR 6.2.

* Don't disconnect the USB cable connected to the SonicCell while SONAR 6.2 is running.

Settings for the SonicCell

If you've connected a MIDI keyboard or other MIDI device to the SonicCell's MIDI IN, set the USB-MIDI Thru (p. 177) setting on the SonicCell module to ON.

If this is ON, MIDI messages arriving at MIDI IN will be sent without change to your computer via USB MIDI.

Settings for SONAR 6.2

Here we will use the SonicCell as a USB-MIDI interface for SONAR 6.2. Turn on the MIDI Thru setting. If this is on, the MIDI messages received by SONAR 6.2 will be sent back to the SonicCell's sound generator.

- 1. Start up SONAR 6.2.
- 2. Specify the SonicCell as the USB-MIDI interface for SONAR 6.2

For details on how to make this setting, refer to the SONAR 6.2 owner's manual.

- 3. From the menu, choose "Options" "Global" to open the "Global Options" dialog box.
- 4. Select the "General" tab.
- Select the "Always Echo Current MIDI Track" check box, and click [OK].

Starting up SonicCell Editor

- 1. Start up SONAR 6.2.
- From the menu, choose "File" "New" to open the "New Project File" dialog box.
- Choose "Blank (no tracks or buses)" as the template, assign a name, and click [OK].
- From the menu, choose "Insert" "Audio Track" to add an audio track.
- Right-click the FX field located at the right of the Track Pane of the audio track.
- From the menu that appears, choose "Soft Synths" -"roland" - "SonicCell Editor VST."
- If a message indicates "MIDI devices aren't set up correctly.," click [OK].
- In SonicCell Editor, select the menu button "Setup" "Set Up MIDI Devices" to open the "Set Up MIDI Devices" dialog box.
- In SonicCell Input/Output, choose "Roland SonicCell" and click IOK1
- 10. In SonicCell Editor, click [READ].

This will load the settings from the SonicCell into the editor.

NOTE

Steps 7–10 are needed only when starting the editor for the first time. The second and subsequent times, the SonicCell settings will be loaded into the editor from the port you specified.

Adding a MIDI track

- From the menu, choose "Insert" "MIDI Track" to add a MIDI track.
- 2. Specify the channel of the MIDI track.

If using Performance mode:

As the MIDI track's input, choose "Roland SonicCell" - "MIDI Ch. n (the number of the part you will record)." As the MIDI track's output, choose "Roland SonicCell."

If using Patch mode:

As the MIDI track's input, you will normally choose "Roland SonicCell" - "MIDI Ch.1."

As the MIDI track's output, choose "Roland SonicCell."

3. Click the record-enable button in the track view.

Selecting a patch

If using Performance mode:

- In the upper part of SonicCell Editor's main window, click "PART" [n (number of the part to record)].
- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 3. Choose the desired patch from the menu that appears.

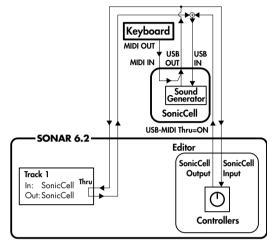
If using Patch mode:

- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 2. Choose the desired patch from the menu that appears.

Editing patch parameters

You can edit the patch parameters as desired.

The following illustration shows the relationship between the SonicCell module, your MIDI keyboard, SonicCell Editor, and SONAR 6.2.



You can edit the values by clicking (and dragging) the buttons, sliders, and knobs.

For details on editing the parameters, refer to "SonicCell Editor Manual."

Select the menu button "Help" - "SonicCell Editor Manual" "Track 2" (the MIDI track you added) in SONAR 6.2 corresponds to "Track 1" in the illustration.

MEMO

If playing the keyboard does not produce sound, make sure that you've selected the MIDI track you added. MIDI Thru is enabled for the selected MIDI track.

Recording MIDI data

Here's how to record your playing. If you connect a MIDI keyboard to the SonicCell, you'll be able to record musical data from the keyboard.

If using Performance mode:

Set the MIDI channel of your MIDI keyboard to match the number of the part you want to record.

If using Patch mode:

Set the MIDI channel of your MIDI keyboard to 1.

- Click the record button in the Transport Toolbar, and play your MIDI keyboard.
- Click the stop button in the Transport Toolbar to stop recording.

Saving the project file

The SONAR 6.2 project file also includes SonicCell Editor's performance data and patch data.

This means that if you save your project file, you normally won't need to save data in SonicCell Editor.

From the menu, choose "File" - "Save."

Opening a project file

SONAR 6.2 project files include SonicCell Editor's performance data and patch data.

This means that when you open a project file, you normally won't need to open data in SonicCell Editor.

If using Performance mode:

- 1. Close SONAR 6.2.
- 2. On the SonicCell module, select a different performance than the one you're currently using.

This is so you can verify that the performance data is reproduced when you open a project.

Double-click the project file you saved earlier; SONAR 6.2 will start up.

SonicCell Editor will open together with the project. The performance data saved in the project file will be reproduced on the SonicCell module.

If using Patch mode:

- 1. Close SONAR 6.2.
- 2. On the SonicCell module, select a different patch than the one you're currently using.

This is so you can verify that the patch data is reproduced when you open a project.

Double-click the project file you saved earlier; SONAR 6.2 will start up.

SonicCell Editor will open together with the project. The patch data saved in the project file will be reproduced on the SonicCell module.

NOTE

If you're using Windows Vista and you double-click a project file to start up SONAR 6.2, the following error message will appear.

"Windows cannot find '(project file path)'. Make sure you typed the name correctly, and then try again." Simply close the error message that was displayed, and continue using SONAR 6.2.

Recording multiple parts

If you're using Performance mode, you can edit and save the parameters for multiple SonicCell parts.

- 1. Repeat the following steps for the desired number of parts.
 - "Adding a MIDI track" (p. 158)
 - "Selecting a patch" (p. 158)
 - "Editing patch parameters" (p. 158)
 - "Recording MIDI data" (p. 158)
- Finally, execute "Save the project file" to save the multiple SonicCell parts along with the musical data.

Cubase 4

Installing the driver and SonicCell Editor

Before you continue, install the driver, SonicCell Editor, Librarian, and Playlist Editor as described on p. 33-p. 39.

Windows:

- The stand-alone version of the editor, the librarian, and the playlist editor will be installed in C:\Program Files\Roland\SonicCellEditor.
- The plug-in version of the editor (subsequently referred to as "the plug-in") will be copied to C:\Program Files\Roland.

Mac:

- The stand-alone version of the editor, the librarian, and the playlist editor will be installed in \Applications\Roland\SonicCell Editor.
- The VSTi version of the plug-in module will be copied to \Library\Audio\Plug-Ins\VST\Roland.

Registering the plug-in in Cubase 4

For details about registering a plug-in in Cubase 4, refer to the owner's manual of Cubase 4.

Windows:

- 1. Start up Cubase 4.
- From the menu, choose "Devices" "Plug-in Information" to open the "Plug-in Information" window.
- 3. Select the "VST PlugIns" tab.
- Click "VST 2.x Plug-in Paths" to open the [VST 2.x Plug-in Paths] dialog box.
- 5. Click [Add], add "(folder to which you copied the plugin)\Roland"), and click [OK].

Normally, this will be C:\Program Files\Roland.

6. Click [Update].

If SonicCell Editor VST does not appear in the list, try restarting Cubase 4.

Mac:

Normally, the plug-in will be registered automatically when you start up Cubase 4.

Connections and settings

- 1. Use a USB cable to connect the SonicCell to your computer.
- If necessary, use a MIDI cable to connect your MIDI keyboard to the SonicCell.
- 3. Turn on the power of the SonicCell.

If the SonicCell is not connected correctly, SonicCell Editor may not operate correctly.

Make sure that you switch on the SonicCell's power before you start up Cubase 4.

* Don't disconnect the USB cable connected to the SonicCell while Cubase 4 is running.

Settings for the SonicCell

If you've connected a MIDI keyboard or other MIDI device to the SonicCell's MIDI IN, set the USB-MIDI Thru (p. 177) setting on the SonicCell module to ON.

If this is ON, MIDI messages arriving at MIDI IN will be sent without change to your computer via USB MIDI.

Settings for Cubase 4

Here we will use the SonicCell as a USB-MIDI interface for Cubase 4. Turn on the MIDI Thru setting. If this is on, the MIDI messages received by Cubase 4 will be sent back to the SonicCell's sound generator.

- Start up Cubase 4.
- Specify the SonicCell as the USB-MIDI interface for Cubase

For details on how to make this setting, refer to the Cubase 4 owner's manual.

3. Open the "Preferences" dialog box.

Windows:

From the menu, choose "File" - "Preferences."

Mac:

From the menu, choose "Cubase" - "Preferences."

- In the list at left, choose "MIDI" to see the MIDI preferences.
- 5. Select the "MIDI Thru Active" check box, and click [OK].

Starting up SonicCell Editor

- 1. Start up Cubase 4.
- From the menu, choose "File" "New Project" to open the "New Project" dialog box.
- **3.** Select "Empty" as the template, and click [OK]. The "Set Project Folder" dialog box will open.
- 4. Specify the desired project folder and click [OK].
- 5. From the menu, choose "Devices" "VST Instruments" to open the "VST Instruments" window.
- 6. Click the first slot and select "SonicCell Editor VST."
- If a message indicates "MIDI devices aren't set up correctly.," click [OK].
- If a message asks "Do you want to create a MIDI track assigned to plugin "SonicCell Editor VST"?", click [Cancel].
- In SonicCell Editor, select the menu button "Setup" "Set Up MIDI Devices" to open the "Set Up MIDI Devices" dialog box.
- 10. In SonicCell Input/Output, choose "Roland SonicCell" and click [OK].
- 11. In SonicCell Editor, click [READ].

This will load the settings from the SonicCell into the editor.

* Steps 7 and 9–11 are needed only when starting the editor for the first time. The second and subsequent times, the SonicCell settings will be loaded into the editor from the port you specified.

Adding a MIDI track

- From the menu, choose "Project" "Add Track" "MIDI" to add a MIDI track.
- Select "Roland SonicCell" as the input/output of the MIDI track.
- 3. Specify the channel of the MIDI track.

If using Performance mode:

As the channel of the MIDI track, specify the number of the part you want to record.

If using Patch mode:

Specify channel 1 for the MIDI track.

Selecting a patch

If using Performance mode:

- In the upper part of SonicCell Editor's main window, click "PART" [n (number of the part to record)].
- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 3. Choose the desired patch from the menu that appears.

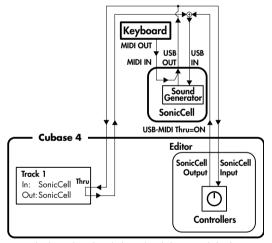
If using Patch mode:

- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 2. Choose the desired patch from the menu that appears.

Editing patch parameters

You can edit the patch parameters as desired.

The following illustration shows the relationship between the SonicCell module, your MIDI keyboard, SonicCell Editor, and Cubase 4.



You can edit the values by clicking (and dragging) the buttons, sliders, and knobs.

For details on editing the parameters, refer to "SonicCell Editor Manual."

Select the menu button "Help" - "SonicCell Editor Manual."

MFMO

If playing the keyboard does not produce sound, make sure that you've selected the MIDI track you added. MIDI Thru is enabled for the selected MIDI track.

Recording MIDI data

Here's how to record your playing. If you connect a MIDI keyboard to the SonicCell, you'll be able to record musical data from the keyboard.

If using Performance mode:

Set the MIDI channel of your MIDI keyboard to match the number of the part you want to record.

If using Patch mode:

Set the MIDI channel of your MIDI keyboard to 1.

- Click the record button in the Transport Panel, and play your MIDI keyboard.
- Click the stop button in the Transport Panel to stop recording.

Saving the project file

The Cubase 4 project file also includes SonicCell Editor's performance data and patch data.

This means that if you save your project file, you normally won't need to save data in SonicCell Editor.

- From the menu, choose "File" "Save" to open the "Save As" dialog box.
- 2. Assign the desired name, and click [Save].

Opening a project file

Cubase 4 project files include SonicCell Editor's performance data and patch data.

This means that when you open a project file, you normally won't need to open data in SonicCell Editor.

If using Performance mode:

- 1. Close Cubase 4.
- On the SonicCell module, select a different performance than the one you're currently using.

This is so you can verify that the performance data is reproduced when you open a project.

 Double-click the project file you saved earlier; Cubase 4 will start up.

SonicCell Editor will open together with the project. The patch data saved in the project file will be reproduced on the SonicCell module.

If using Patch mode:

- 1. Close Cubase 4.
- On the SonicCell module, select a different patch than the one you're currently using.

This is so you can verify that the patch data is reproduced when you open a project.

 Double-click the project file you saved earlier; Cubase 4 will start up.

SonicCell Editor will open together with the project. The performance data saved in the project file will be reproduced on the SonicCell module.

Recording multiple parts

If you're using Performance mode, you can edit and save the parameters for multiple SonicCell parts.

- 1. Repeat the following steps for the desired number of parts.
 - "Adding a MIDI track" (p. 161)
 - "Selecting a patch" (p. 161)
 - "Editing patch parameters" (p. 161)
 - "Recording MIDI data" (p. 162)
- Finally, execute "Save the project file" to save the multiple SonicCell parts along with the musical data.

Logic Pro 7.2

Installing the driver and SonicCell Editor

Before you continue, install the driver, SonicCell Editor, Librarian, and Playlist Editor as described on p. 37–p. 39.

- The stand-alone version of the editor, the librarian, and the playlist editor will be installed in \Applications\Roland\SonicCell Editor.
- The AU version of the plug-in module will be copied to \Library\Audio\Plug-Ins\Components.

Registering the plug-in in Logic Pro 7.2

For details about registering a plug-in in Logic Pro 7.2, refer to the owner's manual of Logic Pro 7.2.

Normally, the plug-in will be registered automatically when you start up Logic Pro 7.2.

Connections and settings

- 1. Use a USB cable to connect the SonicCell to your computer.
- 2. If necessary, use a MIDI cable to connect your MIDI keyboard to the SonicCell.
- 3. Turn on the power of the SonicCell.

If the SonicCell is not connected correctly, SonicCell Editor may not operate correctly.

Make sure that you switch on the SonicCell's power before you start up Logic Pro 7.2.

* Don't disconnect the USB cable connected to the SonicCell while Logic Pro 7.2 is running.

Settings for the SonicCell

If you've connected a MIDI keyboard or other MIDI device to the SonicCell's MIDI IN, set the USB-MIDI Thru (p. 177) setting on the SonicCell module to ON.

If this is ON, MIDI messages arriving at MIDI IN will be sent without change to your computer via USB MIDI.

Settings for Logic Pro 7.2

Specify the SonicCell as the USB-MIDI interface for Logic Pro 7.2.

For details on making this setting, refer to the Logic Pro $7.2\,$ owner's manual.

Starting up SonicCell Editor

- 1. Start up Logic Pro 7.2.
- From the menu, choose "File" "Close" to close the song that was loaded at start-up.
- From the menu, choose "File" "New" to open the "New" dialog box, and turn the "Use song template" check box [ON].
- As the template, choose "Power Book 15" "Basic Production" and click [OK].
- 5. Click (select) track "Inst 1."

 An "audio instrument" object is assigned to track "Inst 1."
- From the Arrange window's sub-menu, choose "Track" -"Delete Unused."

Only the track "Inst 1" will remain.

- In the channel strip at the lower left of the Arrange window, click the [I/O] button.
- 8. From the menu that appears, choose "Stereo" "AU Instruments" "Roland" "SonicCell Editor AU."
- If a message indicates "MIDI devices aren't set up correctly.," click [OK].
- 10. In SonicCell Editor, select the menu button "Setup" "Set Up MIDI Devices" to open the "Set Up MIDI Devices" dialog box.
- In SonicCell Input/Output, choose "SonicCell" and click [OK].
- 12. In SonicCell Editor, click [READ].

This will load the settings from the SonicCell into the editor

NOTE

Steps 9–12 are needed only when starting the editor for the first time. The second and subsequent times, the SonicCell settings will be loaded into the editor from the port you specified.

Adding a MIDI track

- From the menu, choose "Windows" "Environment" to open the Environment window.
- In the layer list at the left of the Environment window, choose the "MIDI Instr." layer.
- 3. Choose the following menu item.

If using Performance mode:

From the Environment window's sub-menu, choose "New" - "Multi Instrument."

If using Patch mode:

From the Environment window's sub-menu, choose "New" - "Instrument."

4. Change the instrument name.

If using Performance mode:

In the left side of the Environment window, click "(Multi instr.)" in "▼ (Multi instr.)," and rename it to "SonicCell."

If using Patch mode:

In the left side of the Environment window, click "(Instrument)" in "▼ (Instrument)," and rename it to "SonicCell."

5. Close the Environment window.

If using Performance mode:

In "SonicCell" at the right side of the Environment window, click [n (number of the part to record)] to close the Environment window.

If using Patch mode:

Close the Environment window.

From the Arrange window's sub-menu, choose "Track" -"Create."

An identical track "Inst 1" will be added below the track "Inst 1."

- 7. Click and hold near the added track "Inst 1" icon.
- 8. Specify the channel of the MIDI track.

If using Performance mode:

From the menu that appears, choose "MIDI Instr." "SonicCell" - "n (number of the part to record)."
The track "SonicCell n (number of the part to record)" has

The track "SonicCell n (number of the part to record)" ha a "MIDI instrument" object assigned to it.

If using Patch mode:

From the menu that appears, chose "MIDI Instr." - "SonicCell"

The track "SonicCell" has a "MIDI instrument" object assigned to it.

9. Select the port.

If using Performance mode:

In the track "SonicCell n (number of the part to record)" at the left side of the Arrange window, set the "Port" parameter to SonicCell.

If using Patch mode:

In the track "SonicCell" at the left side of the Arrange window, set the "Port" parameter to SonicCell.

(MEMO)

If the parameter "port" is not shown, click the [▶] located at the left of the track "SonicCell n" (or "SonicCell") in the left side of the Arrange window.

Selecting a patch

If using Performance mode:

- In the upper part of SonicCell Editor's main window, click "PART" [n (number of the part to record)].
- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 3. Choose the desired patch from the menu that appears.

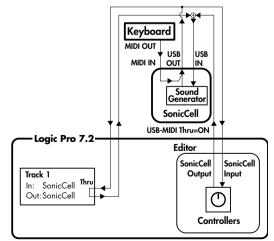
If using Patch mode:

- In the upper part of SonicCell Editor's main window, click "PATCH NAME" [▼].
- 2. Choose the desired patch from the menu that appears.

Editing patch parameters

You can edit the patch parameters as desired.

The following illustration shows the relationship between the SonicCell module, your MIDI keyboard, SonicCell Editor, and Logic Pro 7.2.



You can edit the values by clicking (and dragging) the buttons, sliders, and knobs.

For details on editing the parameters, refer to online manual. Select the menu button "Help" - "SonicCell Editor Manual."

NOTE

If using Performance mode:

- Logic Pro 7.2 track "SonicCell n (number of the part to record)" corresponds to "Track 1" of the illustration.
- The Physical Input setting in the "Click & Ports" layer of the Logic Pro 7.2 Environment window corresponds to "in: SonicCell" of the illustration. You may leave the Physical Input setting at the default setting of "SUM."
- "port: SonicCell" of the Logic Pro 7.2 track "SonicCell n (number of the part to record)" corresponds to "out: SonicCell" of the illustration.

If using Patch mode:

- Logic Pro 7.2 track "SonicCell" corresponds to "Track 1" of the illustration.
- The Physical Input setting in the "Click & Ports" layer of the Logic Pro 7.2 Environment window corresponds to "in: SonicCell" of the illustration. You may leave the Physical Input setting at the default setting of "SUM."
- "port: SonicCell" of the Logic Pro 7.2 track "SonicCell" corresponds to "out: SonicCell" of the illustration.

For details, refer to the Logic Pro 7.2 owner's manual.

MEMO

If you don't hear sound when you play the keyboard, make sure that the [R] button is on for the track "SonicCell."

Recording MIDI data

Here's how to record your playing.

If you connect a MIDI keyboard to the SonicCell, you'll be able to record musical data from the keyboard.

If using Performance mode:

Set the MIDI channel of your MIDI keyboard to match the number of the part you want to record.

If using Patch mode:

Set the MIDI channel of your MIDI keyboard to 1.

- Click the record button in the Transport window, and play your MIDI keyboard.
- 2. Click the stop button in the Transport window to stop recording.

Saving the song file

The Logic Pro 7.2 song file also includes SonicCell Editor's performance data and patch data.

This means that if you save your song file, you normally won't need to save data in SonicCell Editor.

From the menu, choose "File" - "Save."

Opening a song file

Logic Pro 7.2 song files include SonicCell Editor's performance data and patch data.

This means that when you open a song file, you normally won't need to open data in SonicCell Editor.

If using Performance mode:

- 1. Close Logic Pro 7.2.
- On the SonicCell module, select a different performance than the one you're currently using.

This is so you can verify that the performance data is reproduced when you open a song.

Double-click the song file you saved earlier; Logic Pro 7.2 will start up.

SonicCell Editor will open together with the song. The patch data saved in the song file will be reproduced on the SonicCell module.

If using Patch mode:

- 1. Close Logic Pro 7.2.
- 2. On the SonicCell module, select a different patch than the one you're currently using.

This is so you can verify that the patch data is reproduced when you open a song.

Double-click the song file you saved earlier; Logic Pro 7.2 will start up.

SonicCell Editor will open together with the song. The performance data saved in the song file will be reproduced on the SonicCell module.

Recording multiple parts

If you're using Performance mode, you can edit and save the parameters for multiple SonicCell parts.

- 1. Repeat the following steps for the desired number of parts.
 - "Adding a MIDI track" (p. 164)
 - "Selecting a patch" (p. 164)
 - "Editing patch parameters" (p. 164)
 - "Recording MIDI data" (p. 165)
- 2. Finally, execute "Save the song file" to save the multiple SonicCell parts along with the musical data.

MEMO

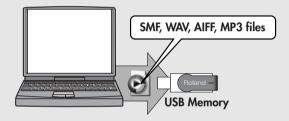
SMF/Audio File Player

SonicCell also has "SMF/Audio File Player" functionality.

"Songs" (SMF or audio files) and "playlists" that specify the playback order can be transferred from your computer via USB memory and used by SonicCell.

You can play back songs in the order specified by a "playlist," or you can select and play back an individual song from a playlist.

Copy your data to USB Memory



Connect your USB Memory to the SonicCell



MEMO

Use only USB memory sold by Roland. Operation cannot be guaranteed when products other than there is used. Proper operation cannot be guaranteed if other USB memory products is used.

NOTE

- Connect the USB memory after the SonicCell's power is turned on.
- If, after a USB memory device has been removed, you decide that you want to connect it again, you'll need to switch the SonicCell's power off, then switch it back on again.

Creating a playlist

Start up SonicCell Playlist Editor and create a playlist.

* For details on creating a playlist, refer to "SonicCellPlaylistEditorManualE.pdf," which is installed together with "SonicCell Playlist Editor."

NOTE

- Use the included "Sonic Playlist Editor" to create playlists. You cannot create playlists on SonicCell itself.
- You can play back individual songs even without creating a playlist. To do this, place the SMF or audio files in the root directory of your USB memory.
- Only audio files that have the same sampling rate as the SonicCell's own setting can be played.
 When you add audio files to a playlist, we recommend that you keep the sampling rate the same for all files.

Playing back songs

SMF/audio files that can be played

SMF		
	Format	0 or 1 * With format 1 SMFs, there are limitations on the tracks that will be played.
	File Size	240 KB maximum (Note that this will vary slightly based on the SMF content.)
	System Exclusive	Packet sizes of 512 bytes or less
Audio File		
Sampling Rate		44.1/48/96kHz
WAV/AIFF	Bit depth	8/16/24 bits
	Format	MPEG-1 audio layer 3
МР 3	Sampling Rate	44.1/48kHz
	Bit Rates	32/40/48/56/64/80/96/112/128/160/192/224/256/320kbps, VBR (Variable Bit Rate)

Song playback

NOTE

- You can't use the SMF/Audio File Player to play songs while also using USB audio/MIDI message input/output (p. 140).
- If you play back a demo song or SMF while editing a performance or patch, the contents of the temporary area will be
 rewritten, causing your edits to be lost. If you want to keep your edited data, you must write it before you play back a demo
 song or SMF data.
- Use the SonicCell in Performance mode when you're playing back SMF data.
- You can't execute the Write operation or use Utility functions (p. 182) while a song is playing back.
- The SonicCell can handle up to a maximum of 99 songs and playlists. (99 items in the root directory, and 99 items inside the SonicCell folder. The Playlist Editor can also handle up to 99 playlists.)
- Connect the USB memory containing play lists and songs to SonicCell.

2. Press [SMF/AUDIO PLAYER].

The button's indicator will light, and the Playlist Select screen will appear.

```
Playlist Select
@ USB Memory
-@ Playlist Library
-@ NewPlaylist1
-@ NewPlaylist2
-@ NewPlaylist3
@ Demo Sonss
```

NOTE

Playlists that show a
at the left of the name don't allow you to edit the playlist settings or the settings of the songs in the playlist.

3. Move the cursor to the playlist that you want to play.

 If you want to select and play a song from within the selected playlist, proceed to "Selecting and playing a song from within a playlist" (p. 171).

4. Press [►/II].

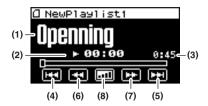
The player screen will appear, and the song will begin playing.

- If the song is an audio file, it will play only if its sampling rate matches the setting of the SonicCell.
- If the sampling rate of the first song (audio file) in the playlist does not match the SonicCell's sampling rate, none of the songs in that playlist will play.



5. If you want to stop song playback, press [►/II].

The next time you press [>/III], playback will start from the point at which you stopped.



Indication	Content		
(1)	Name of the currently playing song		
(2)	SMF: Currently-playing measure, Audio file: Playback time * This is displayed correctly only if you c		
(3)	Length of the currently-playing song ated the playlist using Playlist Edito		
(4)	Move the cursor here and press [CURSOR/VALUE] to move to the beginning of the current song.		
(5)	Move the cursor here and press [CURSOR/VALUE] to move to the next song.		
(6)	Move the cursor here and press [CURSOR/VALUE] to rewind the song.		
(7)	Move the cursor here and press [CURSOR/VALUE] to fast-forward the song.		
	Move the cursor here and press [CURSOR/VALUE] to view the current playback volume. Turn [CURSOR/VALUE] to adjust the volume. Range: 0-127		
(8)	The parameter whose volume you're adjusting will depend on the type of file.		
	If an SMF is selected: System setting "Master Level" (p. 176)		
	If an audio file is selected: USB Audio "Audio Level" (p. 140)		

■ Menu screen.....

If you press [MENU] while the Playlist Select screen is displayed, the Playlist Menu screen will appear. The Playlist Menu is structured as shown in the illustration at right. You can switch between screens by turning [CURSOR/VALUE] to the right or left. Press [MENU] once again to return to the Playlist Select screen.



Parameter	Explanation		
Show Info (Playlist Information)	Shows the contents of the selected playlist. Press [CURSOR/VALUE] to access the Playlist Information screen (p. 170).		
Write (Playlist Write)	Saves the current playlist settings. (p. 173) * This will not appear if you've selected Demo Songs/USB Memory/Playlist Library.		
System	Press [CURSOR/VALUE] to access the System screen (p. 176).		
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).		
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.		
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).		
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).		

Playing back songs

■ Playlist Information screen



Indication	Content		
Name	The name of the playlist.		
	Specifies how the song will play.		
	Chain Play		
	If you move the cursor to this item and press [CURSOR/VALUE] to add a check mark (*), Chain Play will be turned on. If this is on, the songs in the playlist will play consecutively. Playback will stop when the last song has ended.		
N 1 1 1 1 1 1	Repeat All		
Playback Mode	If you move the cursor to this item and press [CURSOR/VALUE] to add a check mark (*), Repeat All will be turned on. If this is on, the songs in the playlist will play consecutively, and when the last song has ended, the unit returns to the first song and enters pause mode. If Chain Play is on, consecutive playback will continue repeating.		
	* This item will not appear for a playlist that has the 📵 indication at the left of the name.		
	If you want to save the modified setting, execute Playlist Write.		
Total Time	Total time (minutes: seconds) of the songs in the playlist		
Toral Time	* This item will not appear for a playlist that has the 📵 indication at the left of the name.		
Total Manage (Manager)	The total number of measures in the playlist.		
Total Meas (Measure)	* This item will not appear for a playlist that has the 📵 indication at the left of the name.		
Memo	A comment, etc.		

MEMO

If you press [MENU] when the Playlist Information screen is shown, the screen shown at the right will appear. If you want to execute Playlist Write, select "OK" and press [CURSOR/VALUE].

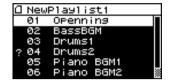
If you decide to cancel, select "CANCEL" and press [CURSOR/VALUE].



Selecting and playing a song from within a playlist

4. Press [CURSOR/VALUE].

The songs in the selected playlist will be listed.



NOTE

A "?" mark is shown if the song's sampling rate differs from the setting of the SonicCell module, or if the song is not in a file type that the SonicCell can play. This song cannot be played.

Move the cursor to the song that you want to play, and press [CURSOR/VALUE].

The player screen will appear.



6. Press [►/II].

The song will begin playing.

■ Menu screen.....

When the song list screen or the player screen is shown, you can press [MENU] to access the Song Menu screen.

You can switch between screens by turning [CURSOR/VALUE] to the right or left.

Press [MENU] once again to return to the song list screen or the player screen.





Parameter	Explanation	
Song Info (Song Information)	Shows information about the selected song. Press [CURSOR/VALUE] to access the Song Information screen (p. 172).	
Playlist (Playlist Information)	Shows the contents of the selected playlist. Press [CURSOR/VALUE] to access the Playlist Information screen (p. 170).	
Change (Change Order)	Lets you change the order of songs in the playlist. Press [CURSOR/VALUE] to access the Change Order screen (p. 173). * This will not appear if you've selected Demo Songs/USB Memory/Playlist Library.	
Delete (Song Delete)	Deletes the currently selected song from the playlist (p. 173). * This will not appear if you've selected Demo Songs/USB Memory/Playlist Library.	
Write (Playlist Write)	Saves the current playlist settings. (p. 173) * This will not appear if you've selected Demo Songs/USB Memory/Playlist Library.	
System	Press [CURSOR/VALUE] to access the System screen (p. 176).	
Utility	Press [CURSOR/VALUE] to access the Utility screen (p. 182).	
Demo Play	When you press [CURSOR/VALUE], the demo song list will appear. * For details on how to play the demo songs, refer to p. 15 and p. 168.	
SRX Info (SRX Information)	Press [CURSOR/VALUE] to access the System SRX Info screen (p. 180).	
Version (Version Information)	Press [CURSOR/VALUE] to access the System Version Info screen (p. 180).	

Playing back songs

■ Song Information screen



Indication	Content		
Title	Name of the song.		
Artist	Name of the artist.		
Level Edit	Lets you adjust the volume of the song. Press [CURSOR/VALUE] to access the Song Info (Level) screen.		
	* This item is not shown for songs in the USB Memory or Demo Songs playlist.		
Meas (Measure)/Time	Number of measures in the song (for SMF)/Song length (for an audio file) * This item is not shown for songs in the USB Memory or Demo Songs playlist.		
File Name	File name * This item is not shown for songs in the Demo Songs playlist.		
File Type	The type of file (SMF/WAV/AIFF/MP3) * This item is not shown for songs in the Demo Songs playlist.		
Sampling Rate	Sampling rate * This item is not shown for WAV/AIFF/MP3 file types.		
File Size	Size of the file * This item is not shown for songs in the Demo Songs playlist.		
Memo	A comment, etc. * This item is not shown for songs in the USB Memory playlist.		

Song Info (Level) screen

For an SMF song



For an audio file song



MEMO

This adjusts the volume of each song.

NOTE

If you want to keep the adjusted volume setting, you must write it (Playlist Write). If you select a different playlist without writing your settings, the settings will revert to their original state.

Parameter	Value	Explanation
Level Adjust	-12-0-+12	Assuming that the original volume (the volume of the song in USB memory) is 0, you can adjust the volume within this range: -12-0-+12.
Part 1–16 Level	0–127	If the song's file type is SMF, you can adjust the volume individually for parts 1–16. Move the cursor to the part number shown at the bottom of the screen and press [CURSOR/VALUE], and you'll be able to adjust the volume of that part.

(MEMO)

If you press [MENU] when the Song Information/Song Info (Level) screen is shown, the screen shown at the right will appear.

If you want to execute Playlist Write, select "OK" and press [CURSOR/VALUE]. If you decide to cancel, select "CANCEL" and press [CURSOR/VALUE].



Playlist Write

Here's how to write the current playlist settings.

From the Song Menu screen (p. 171), choose "Write" to access the following screen.



 To write the data, choose "OK" and press [CURSOR/ VALUE].

If you decide to cancel, choose "CANCEL" and press [CURSOR/VALUE].

You will return to the previous screen.

Changing the song order

Here's how to change the order of the currently selected song. From the Song Menu screen (p. 171), choose "Change" to access the Change Order screen.



- Turn [CURSOR/VALUE] to specify the desired position of the currently selected song.
- When you've specified the desired position, press [CURSOR/VALUE].

The song order will be changed.

* If you move to a different screen without pressing [CURSOR/VALUE], the song order won't be changed.

NOTE

If you want to keep the settings you changed, execute the Write operation (Playlist Write).

If you select a different playlist without writing your settings, they will revert to their original state.

Deleting a song from the playlist

Here's how to delete the currently selected song from the playlist.

From the Song Menu screen (p. 171), choose "Delete" to access the following screen.



 To delete the song, choose "OK" and press [CURSOR/ VALUE].

If you decide not to delete, choose "CANCEL" and press [CURSOR/VALUE].

When the deletion is completed, you're returned to the Play List screen.

NOTE

If you want to keep the settings you changed, execute the Write operation (Playlist Write).

If you select a different playlist without writing your settings, they will revert to their original state.

MEMO

Other Settings

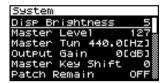
System Settings

In the menu screen, choose "SYSTEM" to access the System screen.

Here you can make settings for the "system functions," which affect the operation of the entire SonicCell, such as the tuning, and how MIDI messages are received.

 In the Menu screen, move the cursor to "SYSTEM" and press [CURSOR/VALUE].

The System screen will appear.



Turn [CURSOR/VALUE] to select the parameter you want to edit, then press [CURSOR/VALUE].

The value of the selected parameter will be highlighted.



If the value field shows the "SELECT" indication, you can press [CURSOR/VALUE] to move to the setting screen for that parameter.

- 3. Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].
- When you've finished editing, press [MENU] to write the system settings.

The following message will appear.



If you want to write the settings, select "OK" and press [CURSOR/VALUE].

If you decide not to write the settings, select "CANCEL" and press [CURSOR/VALUE].

Once the settings have been written, you'll be returned to the System screen.

General settings (System screen)

Parameter	Value	Explanation	
Disp (Display) Brigtness	1–10	This adjusts the contrast/brightness of the display. Higher values will make the characters darker.	
Master Level	0–127	Adjusts the volume of the entire SonicCell.	
Master Tun (Tune)	415.3– 466.2 Hz	Adjusts the overall tuning of the SonicCell. The display shows the frequency of the A4 note (center A).	
Output Gain	-12-+12 dB	This adjusts the output gain from the SonicCell's Analog Out and Digital Out. When, for example, there are relatively few voices being sounded, boosting the output gain can let you attain the most suitable output level for recording and other purposes.	
Master Key Shift	-24-+24	Shifts the overall pitch of the SonicCell in semitone steps.	
Patch Remain (Patch Remain Switch)	OFF, ON	Specifies whether currently sounding notes will continue sounding when another patch or rhythm set is selected (ON), or not (OFF). Also, when this is "ON," changes produced by incoming MIDI messages such as Volume or Pan (CC 5, 7, 10, 65, 68, 71–74, RPN 0, 1, 2, MONO ON, POLY ON), as well as tonal quality and volume changes produced by the various controllers will be inherited. NOTE Effects settings change as soon as you switch to a new patch or rhythm set, without being influenced by the Patch Remain setting. Because of this, certain effects settings can cause notes that were until then sounding to no longer be heard, even though Patch Remain has been set to on.	
Sync Mode	MASTER, SLAVE	Specifies the synchronization message that the SonicCell will use for operation. MASTER: The SonicCell will be the master. Choose this setting when using the SonicCell by itself without synchronizing to another device. SLAVE: The SonicCell will be the slave. Choose this setting when you want the SonicCell to synchronize to MIDI Clock messages received from another MIDI device.	

Parameter	Value	Explanation	
System Tempo	5–300	Sets the system tempo. * When Sync Mode is set to "SLAVE," the tempo will synchronize to the clock messages received from an external MIDI device, so the tempo value will be ignored. * The tempo value is not saved even if you save the System settings.	
Tempo Override	OFF, ON	Specify whether the system tempo will change (ON), or will not change (OFF) when you switch performance.	
Device ID (Device ID Number)	1 <i>7</i> –32	When you want to transmit or receive System Exclusive messages, set this parameter to match the Device ID number of the other MIDI device.	
Perform Ctrl Ch (Performance Control Channel)	1–16, OFF	Performance Ctrl Ch selects the MIDI receive channel used during switching of performances when MIDI messages (Program Change/Bank Select) are sent from an external MIDI device. Set this to "OFF" if performances are not to be switched from an external MIDI device. NOTE If only a program change is received, and if the Perform Ctrl Ch setting coincides with the MIDI receive channel of a part, priority will be given to switching the performance.	
Patch Rx Ch (Patch Mode Receive Channel)	1–16	Specifies the channel used to receive MIDI messages in Patch mode.	
USB-MIDI Thru (USB-MIDI Thru Switch)	OFF, ON	Determines the MIDI signal flow from the MIDI IN connector to the SonicCell's sound generator. OFF: Directly transmits the MIDI signals arriving at the MIDI IN connector to the sound generator, and plays the SonicCell's sound. ON: Transmits the MIDI signals arriving at the MIDI IN connector to the computer via the USB connector. Via its USB connector, the SonicCell receives the signals that have been THRU'ed by the computer's sequencer software, and uses them to produce sound with its sound generator. MIDI OUT MIDI IN USB OUT USB IN Generator Section SonicCell USB-MIDI Thru=OFF USB-MIDI Thru=ON	
Powerup Mode	PATCH, PERFORM	This setting allows you to choose the mode that you want the SonicCell to be in when it is powered up. PATCH: The SonicCell will be in Patch mode when you turn on the power. PERFORM: The SonicCell will be in Performance mode when you turn on the power.	
Screen Saver	OFF, 5, 10–60 (min)	Set the time (minutes) until the screen saver begins working. If this is "OFF," the screen saver will not appear.	
Screen Saver Type	1–6	Select the type of screen saver.	
Scale Tune Sw (Switch)	OFF, ON	Turn this on when you wish to use a tuning scale other than equal temperament. One set of Scale Tune settings can be created in Patch mode. In Performance mode, this can be set for each part of the performance (p. 72). The SonicCell allows you to play the keyboard using temperaments other than equal temperament. The pitch is specified in one-cent units relative to the equal tempered pitch. * One-cent is 1/100th of a semitone.	
Scale Tune	[SELECT]	Specifies the scale tuning of the patch. Press [CURSOR/VALUE] to access the Patch Scale Tune screen (p. 178).	
Preview	[SELECT]	Makes settings for the Preview function. Press [CURSOR/VALUE] to access the Preview screen (p. 179).	
System Control	[SELECT]	Makes settings for the Control function. Press [CURSOR/VALUE] to access the System Control screen (p. 179).	
System MIDI	[SELECT]	Makes MIDI-related settings. Press [CURSOR/VALUE] to access the System MIDI screen (p. 180).	

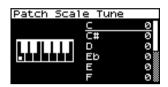
System Settings

Patch Scale Tune settings

Here's how to make scale tune settings for Patch mode. These settings are shared by all patches.

MEMO

For details on scale tune settings for Performance mode, refer to p. 72.



Parameter	Value	Explanation
C, C#, D, Eb, E, F, F#, G, G#, A, Bb, B	-64-+63	Adjusts the pitch of each note in one-cent steps (1/100th of a semitone) relative to its equal-tempered pitch.

• Equal Temperament

This tuning divides the octave into 12 equal parts, and is the most widely used method of temperament used in Western music.

• Just Temperament (Tonic of C)

Compared with equal temperament, the principle triads sound pure in this tuning. However, this effect is achieved only in one key, and the triads will become ambiguous if you transpose.

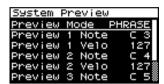
• Arabian Scale

In this scale, E and B are a quarter note lower and C#, F# and G# are a quarter-note higher compared to equal temperament. The intervals between G and B, C and E, F and G#, Bb and C#, and Eb and F# have a natural third-the interval between a major third and a minor third. On the SonicCell, you can use Arabian temperament in the three keys of G, C and F.

<Example>

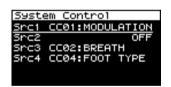
Note name	Equal Temperament	Just Temperament (tonic C)	Arabian Scale
С	0	0	-6
C#	0	-8	+45
D	0	+4	-2
Eb	0	+16	-12
Е	0	-14	-51
F	0	-2	-8
F#	0	-10	+43
G	0	+2	-4
G#	0	+14	+47
A	0	-16	0
Bb	0	+14	-10
В	0	-12	-49

Settings for the Preview function (System Preview screen)



Parameter	Value	Explanation		
Preview Mode	SINGLE, CHORD, PHRASE	SINGLE:	The notes specified by Note Number 1–4 parameter will sound successively one by one.	
		CHORD:	The notes specified by Note Number 1–4 parameter will sound simultaneously.	
		PHRASE:	The Phrase associated with the patch's type/category is played.	
Preview 1–4 Note (Preview 1–4 Note Number)	C-1-G9	Specify the pitch of the four notes that will sound when the Preview Mode parameter is set to "SINGLE" or "CHORD."		
		NOTE If "PHRASE" effect.	is selected for the Preview Mode, these settings will have no	
Preview 1-4 Velo (Preview 1-4 Note Velocity)	OFF, 0–127	Specify the velocity of the four notes that will sound when the Preview Mode parameter is set to "SINGLE" or "CHORD."		
		NOTE If "PHRASE" effect.	is selected for the Preview Mode, these settings will have no	

Settings for Control-related functions (System Control screen)



Parameter	Value	Explanation	
Src 1–4 (System Control 1–4 Source)	OFF, CC01–31, 33–95, PITCH BEND AFTERTOUCH	System Control Assi	gn selects the MIDI message used as the System Control.
		OFF: CC01-31, 33-95: PITCH BEND: AFTERTOUCH:	The system control knob will not be used. Controller numbers 1–31, 33–95 Pitch Bend Aftertouch
		For details on contro 246).	ol change messages, refer to "MIDI Implementation" (p.

System Control

System Control settings apply to the entire SonicCell, and specify how MIDI messages will control the volume and sounds. You can specify up to four MIDI messages for control purposes.

If you want to make individual settings for each performance, patch, or rhythm set to specify how sounds and effects will be controlled in real time, use "Matrix Control" (p. 95) or "Multi-effects Control" (p. 81, p. 137).

MIDI-related settings (System MIDI screen)



Parameter	Value	Explanation
Soft Through (Soft Through Switch)	OFF, ON	Specifies whether MIDI messages received at MIDI IN will be re-transmitted without change from MIDI OUT (the ON setting), or will not be re-transmitted (the OFF setting).
Tx Edit Data (Transmit Edit Data Switch)	OFF, ON	Specify whether changes you make in the settings of a patch, performance will be transmitted as system exclusive messages (ON), or will not be transmitted (OFF).
Rx Program Change (Receive Program Change Switch)	OFF, ON	Specifies whether Program Change messages will be received (ON) or not (OFF).
Rx Bank Select (Receive Bank Select Switch)	OFF, ON	Specifies whether Bank Select messages will be received (ON) or not (OFF).
Rx Exclusive (Receive System Exclusive Switch)	OFF, ON	Specifies whether System Exclusive messages will be received (ON) or not (OFF).
Rx GM System On (Receive GM System On Switch)	OFF, ON	Specifies whether General MIDI System On messages will be received (ON) or not (OFF).
Rx GM2 System On (Receive GM2 System On Switch)	OFF, ON	Specifies whether General MIDI 2 System On messages will be received (ON) or not (OFF).
Rx GS Reset (Receive GS Reset Switch)	OFF, ON	Specifies whether GS Reset messages will be received (ON) or not (OFF).

Viewing information about SonicCell (System SRX Info/System Version Info screens)

From the Menu screen, selecting "SRX Info" will access the System SRX Info screen, where you can view information about the expansion boards connected to the SonicCell.

From the MENU screen, selecting "Version" will access the System Version Info screen, where you can view the version of the SonicCell system software.

 * You can turn [CURSOR/VALUE] to move between these two screens.



Press [EXIT] to return to the previous screen.

Editing the mastering effect (Mastering Effect screen)

In Performance mode or Patch mode, select "M" in the Effect Routing screen to access the Mastering Effect screen.



It has independent high, mid, and low ranges. Independently for the high-frequency, mid-frequency, and low-frequency regions, this compresses any sounds that exceed the specified level, making the volume more consistent.

When you procedure your own original audio CD, this lets you master at an optimized level.

NOTE

Mastering effect settings apply to the entire SonicCell. These settings are not for individual patches or performances.

Parameter	Value	Explanation	
Split Freq L (Split Frequency Low)	200–800 Hz	Frequency at which the low-frequency (Low) and mid-frequency (Mid) bands are split.	
Split Freq H (Split Frequency High)	2000–8000 Hz	Frequency at which the high-frequency (High) and mid-frequency (Mid) bands are split.	
Low/Mid/High Attack	0-100 ms	Time from when the volume goes up the threshold level until the compressor effect applies.	
Low/Mid/High Release	50-5000 ms	Time from when the volume falls below the threshold level until the compressor effect no longer applies.	
Low/Mid/High Threshold	-36–0 dB	Specifies the volume levels at which compression will begin for the low-frequency (Low), midfrequency (Mid), and high-frequency (High) ranges. About THRESHOLD and RATIO As shown in the diagram below, these parameters determine how the volume is to be compressed.	
Low/Mid/High Ratio	1.00:1– INF:1 (INF: infinity)	Specifies the compression ratios for the low-frequency (Low), mid-frequency (Mid), and high-frequency (High) ranges. RATIO 2:1 4:1 INF:1 THRESHOLD Input Level	
Low/Mid/High Level	0–24 dB	Specifies the output volume for the low-frequency (Low), mid-frequency (Mid), and high-frequency (High) ranges.	

■ Menu screen.....



From the Mastering Effect screen, you can press [MENU] to access the Mastering Type screen.

Press [MENU] once again to return to the Mastering Effect screen.

Parameter	Explanation	
Write (System Write)	Saves the current settings as user settings. (p. 150).	
Hard Comp, Soft Comp, Lo Boost, Mid Boost, Hi Boost	Recalls preset settings of the type you select.	
User	Recalls user settings you've saved.	

Utility functions

In the menu screen, choose "Utility" to access the Utility Menu screen.

Here you can save user data to USB memory, or restore (reload) data from USB memory into SonicCell.



Backing up user data (User Backup)

You can save the user data to USB memory. This operation is called "User Backup."

From the Utility screen, choose "User Backup" to access the following screen.



 To carry out the backup, choose "OK" and press [CURSOR/VALUE].

If you decide not to perform the backup, choose "CANCEL" and press [CURSOR/VALUE].

When the backup is completed, you're returned to the Utility screen.

(MEMO)

Use only USB memory sold by Roland. Operation cannot be guaranteed when products other than there is used.

Proper operation cannot be guaranteed if other USB memory products is used.

Restoring backed-up data into the SonicCell (User Restore)

You can return the user data previously backed up to USB memory into the SonicCell. This operation is called "User Restore."

From the Utility screen, choose "User Restore" to access the following screen.



 To carry out the restoration, choose "OK" and press [CURSOR/VALUE].

If you decide that you don't want to carry out the restoration, choose "CANCEL" and press [CURSOR/VALUE].

Once the restoration has been completed, the following screen will appear.

Completed. Turn the Power off and on again.

2. Switch off the SonicCell's power, then switch it on again.

Returning to the factory settings (Factory Reset)

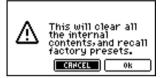
You can return all of SonicCell's settings to the factory-set state. This is called "Factory Reset."

NOTE

If SonicCell's internal memory already contains important data that you've created, all of this data will be lost when you execute a factory reset.

If you want to keep your data, you must save it to USB memory.

In the Utility screen, choose "Factory Reset" to access the following screen.



 To execute the factory reset, choose "OK" and press [CURSOR/VALUE].

If you decide not to execute, choose "CANCEL" and press [CURSOR/VALUE].

Once the factory reset is completed, the following screen will appear.

Completed. Turn the Power off and on again.

2. Switch off the SonicCell's power, then switch it on again.

Initializing USB memory (USB Memory Format)

Here's how to initialize the USB memory. This operation is called "USB Memory Format."

NOTE

This operation will erase all data on your USB memory. Use this operation with caution.

In the Utility screen, choose "USB Memory Format" to access the Utility screen.



 To execute the USB memory format, choose "OK" and press [CURSOR/VALUE].

If you decide not to execute, choose "CANCEL" and press [CURSOR/VALUE].

Once the USB memory format is completed, you'll be returned to the Utility screen.

Adjusting the overall tone of the audio output (Master Equalizer)

Here's how to make final adjustments to the overall tone of SonicCell's audio output (OUTPUT jacks and PHONS jack).

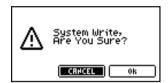
 Get the indicators for [MIDI INST], [USB AUDIO], and [INPUT] to all go out.

The Master EQ screen will appear.



- 2. Turn [CURSOR/VALUE] to select the parameter that you want to edit, then press [CURSOR/VALUE].
 - The value of the selected parameter will be highlighted.
- Turn [CURSOR/VALUE] to edit the value, then press [CURSOR/VALUE].
 - * If the output volume is excessive, the "CLIP" indication will appear in the upper right of the screen. Adjust the volume so that distortion does not occur.

- When you've finished editing, press [MENU] to write the settings.
- Choose "Write," and press [CURSOR/VALUE]. The following message will appear.



To write the edited settings, choose "OK" and press [CURSOR/VALUE].

If you decide not to keep the changes you made, select "CANCEL" and press [CURSOR/VALUE].

Once the settings have been written, you'll be returned to the Master EQ screen.

Parameter		Value	Explanation
IOW	.OW		Specifies the center frequency of the low-frequency range.
LOW			Adjusts the volume of the low-frequency range.
MID	Frequency	200–8000 Hz	Specifies the center frequency of the mid-frequency range.
Gain -15 dB-+15 dB		-15 dB-+15 dB	Adjusts the volume of the mid-frequency range.
HIGH	Frequency 2000 Hz, 4000 Hz, 8000 Hz		Specifies the center frequency of the high-frequency range.
Gain -15 dB-+15 dB		-15 dB-+15 dB	Adjusts the volume of the high-frequency range.
Q	•	0.5–8.0	Specifies the width of the mid-frequency range.
Total Gain		-15 dB-+15 dB	Adjusts the overall volume of all frequency bands (low, mid, and high).

Appendices

Troubleshooting

If the SonicCell does not function in the way you expect, first check the following points. If this does not resolve the problem, consult your dealer or a nearby Roland Service Station.

* If any sort of message is being displayed on the screen during an operation, refer to Error Messages (p. 191).

Problems Concerning the Entire SonicCell

Q The power does not turn on.

Make sure that the SonicCell's AC adaptor is correctly connected to the AC outlet and to the SonicCell itself. (p. 18)

Q Moving the SAMPLING RATE switch does not change the sampling rate

A he sampling rate will not change if you simply move the SAMPLING RATE switch while the power is on. You must turn the power off, then on again.

Then use the INPUT screen or USB Audio screen to verify that the sampling rate has changed. (p. 140, p. 142)

Issues Related to Sound

Q There is no sound.

A Check the following points.

- Is the power for connected amps and speakers turned on? Is the volume turned all the way down?
- Is the INPUT LEVEL knob turned all the way down?
- Have connections been made correctly?
- Can you hear sound through headphones?
 If there is sound in the headphones, it is possible that the connection cables are broken, or that your amp/mixer has malfunctioned. Check your cables and amp/mixer system once again.
- Is the MIDI receive channel correct?
 Make sure that the MIDI transmit channel of the connected device matches the receive channel of the SonicCell (p. 177).
- Have all tones in the patch been turned off?
 Turn on "Tone Switch." (p. 88)
- The Part level settings may be too low.
 Access the Level parameter, and check the level of each part (p. 69).
- Are the Effect settings correct?
 Check the Effect settings ON or OFF, the Effect Balance or Level. (p. 75, p. 132)
- Is the Wave Expansion Board properly installed?
 When selecting the settings that stipulate the use of EXP-A,
 B waves, Patches, or Rhythm Sets, check that the specified Wave Expansion Board is installed properly in the specified slot (p. 48, p. 51).

- Has the volume been lowered by MIDI messages (volume messages or expression messages) received from an external MIDI device?
- Is USB MIDI THRU set to ON?
 When USB MIDI THRU is ON, there will be sound if the sequencer software on the computer that is connected by a USB cable is set to THRU (p. 177).

Q A specific Part does not sound

A Check the following points.

- Has the volume level of the part been lowered?
 Adjust the Level to raise the volume of the part that is not heard (p. 69).
- Could the part be set to "M" (mute)? Set this to "-". (p. 58)

Q Specific pitch ranges do not sound

A Has a restricted range of notes been set? If a specific range of notes does not sound, check the Key Range settings for the Patch Tone and the Performance Part.

- Part Key Range Key Range Lower/Upper (p. 71)
- Tone Key Range Key Range Lower/Upper (p. 112, p. 113)

Q Audio signals from the computer are not heard

A Could the audio signal from the computer have a different sampling rate than the SonicCell itself?

Change the SAMPLING RATE switch of the SonicCell to match the sampling rate of the audio signal.

* If you change the setting of the SAMPLING RATE switch while the power is on, you'll need to turn the power off, then on again.

Q The sound is distorted.

A Check the following points.

- Is an effect which distorts the sound being applied?
 If the sound for a specific patch or part is distorted, lower the volume level on that part.
 If the overall sound is distorted, adjust Master Level and Master EQ to lower the volume.
- Use the Sound Parameter in the System to lower the Output Gain (p. 176).

Q Pitch is incorrect.

A Check the following points.

- Is the tuning of the SonicCell incorrect? Check the Master Tune setting (p. 176).
- Has the pitch been changed by Pitch Bend messages received from an external MIDI device?

 Have the Coarse Tune or Fine Tune been set for specific Parts?
 Clubble Coarse Tune 15: Tune 15: (4.40)

Check the Coarse Tune and Fine Tune settings (p. 69).

Q The sound is interrupted.

- A Sounds will be interrupted if more than 128 voices are used simultaneously.
 - Reduce the number of Tones that you are using.
 - Increase the Voice Reserve setting for parts that must not drop out. (p. 71)
- **Q** The sound cuts off when I switch Patches in Patch mode.
- A Although you can apply a wide variety of multi-effects with the SonicCell's multi-effects, switching the Patch also switches the type of multi-effects used.

 In such instances, discrepancies between the sound being produced and the multi-effects type can arise, which may result in sounds being different than intended, so sounds produced when Patches are switched may be muted when factory settings are in effect. In certain situations, such as when not using multi-effects that have a great influence on the sound, remembering to set Patch Remain (p. 176) to "ON" allows you to switch Patches without sounds being muted.
- When switching Patches in Patch mode, the volume and other parameters set with Control Changes end up being reset.
- A Set Patch Remain (p. 176) to "ON."

 Even once they have switched Patches, Control Change messages that have been received are carried forward, so even when switching a Patch whose level is turned all the way down by a Control Change volume message, the level remains unchanged.
- Q If the Tone Delay time value is set to the note, then does the delay time not change beyond a fixed length when the tempo is slowed down?
- A There is a maximum permissible value for the Tone Delay Time (p. 100). So, if the time setting is specified in terms of a note value, and the tempo is slowed down, this maximum permissible value will be reached, and it cannot be increased further. The upper time limit for each is the maximum value that can be set other than the numerical value for the beat.
- Q Even when I set the Pan for a Patch completely to one side, sound still comes from the other channel.
- A The SonicCell's internal effects are in stereo, so if you have effects applied to a Patch, even if the Pan is set all the way to one side, you will still be able to hear sounds of the effect component from the other channel.

Q Sometimes, when playing legato, the pitch won't rise. Why is this?

A When the Legato Switch (p. 91) is "ON," and the Legato Retriger (p. 91) is "OFF," and you hold down keys in the high register to play legato, the upper pitch limit of the wave may be exceeded, so that the pitch does not rise as far as you expect, but will stop rising at a certain point. Additionally, if differing upper pitch limits are used for the waves of a Patch that uses multiple tones, it may stop being heard in MONO. When making large pitch changes, set the Legato Retrigger to "ON."

Q The notes sound strange in the upper registers of the keyboard.

A Sometimes when playing the keys in the upper part of the SonicCell's keyboard, the sound may stop, or the pitch may stop rising; or with certain keys, there may be intermittent noise. This occurs mainly when the SonicCell's upper pitch limit is exceeded, so this issue doesn't arise in the ranges normally used. But, in any case, it does not indicate a malfunction.

Q Although the same Patch is selected, it sounds different when I listen to it in the Performance.

A In Performance mode, the parameters of each part of the performance can apply further modification to parameters such as pan, octave, and filter, relative to the settings specified by the patch. Thus, Patches in a Performance may sound different than they do when heard in Patch mode. To return these settings to their initial conditions, select the Patch after execute Factory Reset Temporary for the Performance. (p. 183)
Additionally, although a Patch may comprise tones created with the use of the multi-effects. the multi-effects

Additionally, although a Patch may comprise tones created with the use of the multi-effects, the multi-effects used in the Performance may differ from the multi-effects selected by the Patch. Check the multi-effect settings of the performance. Also do the same for the Chorus and Reverb settings.

Q The volume level of the instrument connected to SonicCell's INPUT is too low.

A Could you be using a connection cable that contains a resistor?

Use a connection cable that does not contain a resistor.

Troubleshooting

Issues Related to Effects

Q Effects not applied.

- A Check the following points.
- The "MFX," "Chorus," "Reverb" or "Mastering" effect switches may have been turned off.
 Turn the Effect Switch ON. (p. 76, p. 133)
- Are the various effect settings correct? (p. 75, p. 132, p. 144)
- If the send level of each effect is set to 0, the effect will not be applied. Check the settings.
- Even with send levels to each effect set at 0, effects are not applied if the Multi-effects Output Level, the Chorus Level, or the Reverb Level is set to 0. Check each setting.
- If Output Assign is set to other than "MFX," the Multieffects sound will not be output.
- If Output Assign is set to "PATCH" for each Part of the Performance, the sound will be output according to the Output Assign settings of the Patch (for each Tone) which is assigned to those Parts. This means that if Output Assign for the Patch (each Tone) is set to other than "MFX," the Multi-effects sound will not be output.
- **Q** The Modulation or other controller is always on.
- A Check the Matrix Controller settings. (p. 95)
 The SonicCell allows you to use the Matrix Control to control Patches in real time. The Matrix Control functions as the control source for the Control Change and other MIDI messages received by the SonicCell, and makes changes to the various Patch parameters based on these messages.

Depending on these settings, the SonicCell may be responding to MIDI messages sent from external MIDI devices, and may result the Patches sounding different than intended.

- Q Raising the chorus or reverb send level for each part of a performance still does not cause the effect to be applied sufficiently.
- A Although you can make Send level settings to the Chorus and Reverb for each individual Part in a Performance, these values only set the upper limit of the Chorus and Reverb Send levels for the Patch used. Accordingly, even when the value is set to the maximum of 127, if the Send level is lowered in the Patch being used, there will be no effect. In addition, different Patch Chorus and Reverb Send level settings can be used according to whether or not the multi-effects are used.
- Q Using the Matrix Control or other such means to control the LFO results in noise when the Pan is changed suddenly.
- A Lower the change in speed (LFO Rate).

 Due to the specialized processing used for the Pan, which alters the volume level in each of the left and right sides, sudden Pan movements causing rapid changes in these levels creates large changes in volume, and noise from this may be audible as a result.

- Q Multi-effect 43: TAP DELAY or other delay time value is set to the note, and then the tempo is slowed down, does the delay time not change beyond a fixed length?
- A Such Delay time settings have an upper limit, so if the upper limit of a value set to the note is exceeded when the tempo is retarded, that upper value cannot rise any further. The upper time limit for each is the maximum value that can be set other than the numerical value for the beat.
- Q I've saved (written) the effect settings of a performance, but they don't seem to be applied.
- A Could you be using the effect settings of the patch? If the MFX 1-3 Source, Chorus Source, or Reverb Source setting is set to "P1-P16," the performance's effect settings will not be used; the effect settings of the patch/rhythm set assigned to the specified part will be used instead. If you want to use the performance's effect settings, set this to "PFM" (p. 80).

Issues Related to Saving Data

- Q The Performance sounds different than when it was written.
- A Check the following points.
- If you have modified the settings of a patch used by a performance, or if the temporary patch of the performance has been modified by an external MIDI device, these patches must also be saved. If patches used by a performance have been edited when you write that performance, the SonicCell will display a message asking whether you want to discard these patches. In such cases, first save the patch (p. 116) or rhythm set (p. 131), and then save the performance (p. 73) again.
- The Mastering Effect settings may have changed. (These settings are not stored as part of a performance.)
- Q Patches sound different than when written.
- A Check the following points.
- The write operation cannot be used to save Patches as changed in Patch mode using Control Change messages from an external MIDI device.

cf.

Refer to "MIDI Implementation" (p. 246) for more on the Control Change messages that are received.

- The Mastering Effect settings may have changed. (These settings are not stored as part of a patch.)
- Q Data backed up to USB memory cannot be restored to the SonicCell.
- It is possible that the USB memory was not formatted correctly. The SonicCell can use USB memory that has been formatted as FAT. If your USB memory was formatted using any other method, please re-format it using FAT.

Issues Related to MIDI and External Devices

Q Performances of the external sequencer are sluggish, or have interruptions.

A Problems of sluggish and interrupted performances can crop up very easily when the sequencer or sound generator used for the performance has to handle heavy data loads.

Main causes and possible corrective measures are considered below.

- Are more than 128 voices playing simultaneously? Reduce the number of voices. The composition of SonicCell Patches is such that up to eight Waves may be used for one Patch. When using such Patches, even though only one sound may be heard, it is actually eight sounds that are being played simultaneously. In addition, with certain sounds like continuous sounds with long releases, even though the actual sound may not be audible to you, processing for playing the sound is still underway, so in these cases as well, the performance data can differ from the actual number of voices being played.
- Are you using a Patch that uses a lot of LFO?
 Try changing to a different Patch. LFO processing
 invariably places a big load on the machine, so heavy
 use of the LFO slows down processing for the SonicCell
 overall, which can end up having affecting the expression
 of sounds themselves.
- Is the data concentrated at the beginning of the beats in the sequence data? Avoid overlapping data with the same timing by setting an offset of 1-2 clocks instead. Data may easily become concentrated at the beginning of the beats in the song data when, for example, the song data is input using Step Recording, or if the data is quantized after being input with a keyboard in real time. Because of this, large amounts of data are sent to the SonicCell, and the processing for expressing sounds becomes bogged down.
- Is there a Program Change at the point where the song performance is sluggish?
 Change the position of the Program Change. When Program Changes are inserted in songs, processing time for switching patches increases, which may then cause the performance to become sluggish.
- Is there a System Exclusive message at the point where the song performance is sluggish?
 Move the location of the data. System Exclusive messages contain large amounts of data, thus placing a heavy burden on sequencers and sound modules. Try repositioning data and changing System Exclusive messages to Control Changes for any data for which Control Changes can be substituted.
- Is there an Aftertouch or other such large Control Change
 at the point where the song performance is sluggish?
 Move the location of the data. If the data is no longer
 needed, delete the data. In some cases, when using a
 keyboard that features aftertouch to input data, you may
 end up inputting huge amounts of data before realizing
 this is happening. Such large amounts of data can place
 an excessive load on your sequencer and sound module.

Q Can't receive MIDI messages correctly.

A Check the following points.

Is the SonicCell set to receive MIDI messages?

- Performance mode
 The performance part's Receive Channel (p. 71)
 The performance part's Receive Switch (p. 72)
- Patch mode
 Patch Rx Ch (p. 177)

Q Exclusive messages are not received.

- A Check the following points.
 - Is the instrument set to receive Exclusive messages?
 Set the Rx Exclusive to "ON" (p. 180).
 - Does the Device ID number of the transmitting device match the Device ID number of the SonicCell? Check the Device ID (p. 177).
- Q I connected an external sequencer or MIDI keyboard to the MIDI IN connector, and attempted to play a SonicCell rhythm set, but there was no sound. Why?
- A Check to make sure that the MIDI Transmit channel of the external MIDI device and the SonicCell's MIDI Receive channel are matched. The MIDI Receive channel used by the SonicCell in Patch mode is set with the Patch Rx Ch (p. 177). Rhythm Set performance data is generally received on MIDI Channel 10.
- When the Bend Range for a Patch is increased (48), the pitch does not rise sufficiently, even when a MIDI Pitch Bend message is received.
- A While Patch Bend Ranges can be set anywhere between 0 and 48, when certain Waves in which the pitch is raised (in the + direction) are used, the pitch may stop rising at a fixed point, rather than continuing to go up. Although a value of 12 is ensured for the upper limit of raised pitches, use caution when setting the Bend Range above this figure.

Issues related to external input

Q The device connected to INPUT is inaudible or is not loud enough

- A Check the following points.
 - Are the audio cables connected correctly? Check the connections.
 - Could an audio cable be broken?
 Could you be using a connection cable that contains a resistor? Use a connection cable that does not contain a resistor.
 - Could the INPUT LEVEL knob be set to "MIN"? Adjust the knob to an appropriate level.
 - Is the INPUT gain select switch in the appropriate position?
 Set the INPUT gain select switch as appropriate for the equipment that is connected.

Q No sound from the mic

- A Could you have connected a condenser mic?

 If you're using a condenser mic, you'll need to provide phantom power.

 Turn Phantom Power "ON." (p. 142)
 - Could the mic cable be broken?
 - Could the INPUT gain select switch be in a position other than "MIC"?
 Set the INPUT gain select switch to "MIC."

Issues related to USB memory

- Q USB memory is not detected. The files are not shown.
- A Check the format of your USB memory.
 The SonicCell can use USB memory that has been formatted as FAT. If your USB memory was formatted using any other method, please re-format it using FAT.
- Q Can't back up to USB memory
- A Check the following points.
 - Could the USB memory be write protected?
 - Is there sufficient free space on the USB memory?

Issues related to songs

Q Playlists are not shown

- A This may be due to the following reasons.
- Playlists may not be shown if you directly add/delete/ modify the song data in the SonicCell folder without using Playlist Editor.
- For some reason the USB memory is not recognized.
- It is possible that the USB memory was not formatted correctly. The SonicCell can use USB memory that has been formatted as FAT. If your USB memory was formatted using any other method, please re-format it using FAT.

Q Songs are not shown

- A This may be due to the following reasons.
 - Are the songs placed in the root directory?
 Songs may not be shown if you directly add/delete/modify the song data in the SonicCell folder without using Playlist Editor.
 - It is possible that the USB memory was not formatted correctly. The SonicCell can use USB memory that has been formatted as FAT. If your USB memory was formatted using any other method, please re-format it using FAT.

Q Songs won't play

- A This may be due to the following reasons.
 - Could a "?" symbol be shown in the song list of the playlist?

 The symbol is the symbol be shown in the song list of the playlist?

The sampling rate of the song (audio file) differs from the sampling rate of the SonicCell itself.

Change the SAMPLING RATE switch of the SonicCell to match the sampling rate of the song.

- If you move the SAMPLING RATE switch while the power is on, you'll need to turn the power off and on again.
- The file type of the song is not one of the file types that the SonicCell can play.
- It may be that the song data is damaged.
- Songs cannot be played if you directly add/delete/ modify the song data in the SonicCell folder without using Playlist Editor.

Q Can't hear the playback sound

A ls the playback volume set correctly? Adjust the playback volume in the player screen. (p. 169)

Issues related to USB connection

Q The SonicCell is not recognized by my computer

A You must connect the SonicCell to a computer whose USB port supports USB 2.0 Hi-Speed connections.

Error Messages

If an incorrect operation is performed, or if processing could not be performed as you specified, an error message will appear. Refer to the explanation for the error message that appears, and take the appropriate action.

Message	Meaning	Action	
USB Memory Not Ready!	USB memory is not connected.	Connect USB memory.	
	Failed to load data from USB memory.	Make sure that USB memory is correctly connected.	
Read Error!	It may be that the file is damaged.	Do not use this file.	
	This file cannot be loaded since its format is incorrect.	Do not use this file.	
	Failed to write data to USB memory.	Make sure that USB memory is correctly connected.	
Write Error!	Data cannot be written because the USB memory has no more free space.	Delete unneeded files from the USB memory. Alternatively, use a different USB memory device, one that has more free space available.	
	The file or the USB memory itself is write protected.	Make sure that the file or the USB memory is not write protected.	
	This is a file that the SonicCell is unable to play.	Do not use this file.	
Incorrect File/ Sampling Rate.	This song has not been transferred from Playlist Editor to USB memory.	Select the song for transfer from Playlist Editor, and transfer the data once again to USB memory.	
	The sampling rate of the song does not match the setting of the SonicCell.	Set the sampling rate of the SonicCell to match the sampling rate of the song, and then restart it.	
System Memory Damaged! It is possible that the contents of system memory have been damaged.		Please execute a Factory Reset. If this does not resolve the problem, contact your dealer or a nearby Roland service center.	
File Not Found!	The file was not found in USB memory.	Save the file once again in USB memory.	
Checksum Error!	The checksum value of the received system exclusive message was incorrect.	Please correct the checksum value.	
MIDI Buffer Full! An unusually large amount of MIDI data was received, and could not be processed.		Reduce the amount of MIDI messages that are being transmitted.	
MIDI Offline!	The MIDI IN connection was broken.	Check that there is no problem with the MIDI cable connected to the SonicCell's MIDI IN, and that the MIDI cable was not disconnected.	
USB Offline!	The USB cable is not connected.	Check that there is no problem with the USB cable connected to the SonicCell, and that the USB cable was not disconnected.	
Now Playing! The SMF/Audio File Player is currently playing.		Either stop playback, or wait until playback has ended.	

Effects List

Multi-Effects Parameter (MFX1-3, MFX)

The multi-effects feature 78 different kinds of effects. Some of the effects consist of two or more different effects connected in series. Parameters marked with a sharp "#" can be controlled using a Multi-Effecs Control (p. 81, p. 137) or Matrix Control (p. 95). (Two setting items will change simultaneously for "#1" and "#2").

FILTE	FILTER (10 types)			
01	EQUALIZER	P.194		
02	SPECTRUM	P.194		
03	ISOLATOR	P.194		
04	LOW BOOST	P.194		
05	SUPER FILTER	P.195		
06	STEP FILTER	P.195		
07	ENHANCER	P.195		
08	AUTO WAH	P.196		
09	HUMANIZER	P.196		
10	SPEAKER SIMULATOR	P.196		
MOD	ULATION (12 types)			
11	PHASER	P.197		
12	STEP PHASER	P.197		
13	MLT STAGE PHASER	P.197		
14	INFINITE PHASER	P.198		
15	RING MODULATOR	P.198		
16	STEP RING MOD	P.198		
17	TREMOLO	P.198		
18	AUTO PAN	P.199		
19	STEP PAN	P.199		
20	SLICER	P.199		
21	ROTARY	P.200		
22	VK ROTARY	P.200		
	RUS (12 types)			
23	CHORUS	P.200		
24	FLANGER	P.201		
25	STEP FLANGER	P.201		
26	HEXA-CHORUS	P.201		
27	TREMOLO CHORUS	P.202		
28	SPACE-D	P.202		
29	3D CHORUS	P.202		
30	3D FLANGER	P.203		
31	3D STEP FLANGER	P.203		
32	2BAND CHORUS	P.203		
33	2BAND FLANGER	P.204		
34	2BAND STEP FLNGR	P.204		
	DYNAMICS (8 types)			
	OVERDRIVE	P.205		
36	DISTORTION	P.205		
37	VS OVERDRIVE	P.205		
38	VS DISTORTION	P.205		
39	GUITAR AMP SIMULATOR	P.205		
40	COMPRESSOR	P.206		
41	LIMITER	P.206		
42	GATE	P.206		

DELA	DELAY (13 types)			
43	DELAY	P.207		
44	LONG DELAY	P.207		
45	SERIAL DELAY	P.208		
46	MODULATION DELAY	P.208		
47	3TAP PAN DELAY	P.209		
48	4TAP PAN DELAY	P.209		
49	MULTI TAP DELAY	P.209		
50	REVERSE DELAY	P.210		
51	SHUFFLE DELAY	P.210		
52	3D DELAY	P.211		
53	TIME CTRL DELAY	P.211		
54	LONG T CTL DELAY	P.211		
55	TAPE ECHO	P.212		
LO-F	l (5 types)	,		
56	LOFI NOISE	P.212		
57	LOFI COMPRESS	P.213		
58	LOFI RADIO	P.213		
59	TELEPHONE	P.213		
60				
PITCH (3 types)				
	PITCH SHIFTER	P.214		
-	2VOI PCH SHIFTER	P.214		
63	STEP PCH SHIFTER	P.214		
REVERB (2 types)				
-	REVERB	P.215		
	GATED REVERB	P.215		
	IBINATION (12 types)			
66	OD → CHORUS	P.215		
67	OD → FLANGER	P.215		
68	$OD \rightarrow DELAY$	P.216		
69	DST → CHORUS	P.216		
70	DST → FLANGER	P.216		
71	DST → DELAY P.216			
72	ENH → CHORUS P.216			
73	ENH → FLANGER P.217			
74	ENH → DELAY P.217			
75	CHORUS → DELAY	P.217		
76		P.217		
	77 CHORUS → FLANGER P.218 PIANO (1 type)			
78	SYMPATHETIC RESO	P.218		
78	STAINETIC KESO	r.∠18		

About Note

Some effect parameters (such as Rate or Delay Time) can be set in terms of a note value.

Such parameters have a num/note switch that lets you specify whether you will set the value as a note value or as a numerical value.

If you want to set Rate (Delay Time) as a numerical value, set the num/note switch to "Hz" ("msec"). If you want to set it as a note value, set the num/note switch to "NOTE."

num/note switch



 If the Rate is specified as a note value, the modulation will be synchronized with the tempo when you play back SMF song data.

note:

∌₃	Sixty-fourth-note triplet	4	Sixty-fourth note	$ best_3$	Thirty-second-note triplet
A	Thirty-second note	\mathbb{N}_3	Sixteenth-note triplet	A	Dotted thirty-second note
A	Sixteenth note	$ ho_3$	Eighth-note triplet	A	Dotted sixteenth note
Þ	Eighth note	3	Quarter-note triplet	Ŋ.	Dotted eighth note
J	Quarter note	23	Half-note triplet]	Dotted quarter note
J	Half note	03	Whole-note triplet	٥	Dotted half note
o	Whole note	lioil3	Double-note triplet	٥	Dotted whole note
lioil	Double note				

NOTE

If a parameter whose num/note switch is set to "NOTE" is specified as a destination for multi-effect control, you will not be able to use multi-effect control to control that parameter.

NOTE

If you specify the delay time as a note value, slowing down the tempo will not change the delay time beyond a certain length. This is because there is an upper limit for the delay time; if the delay time is specified as a note value and you slow down the tempo until this upper limit is reached, the delay time cannot change any further. This upper limit is the maximum value that can be specified when setting the delay time as a numerical value.

When Using 3D Effects

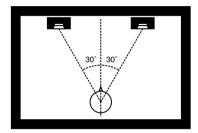
The following 3D effects utilize RSS (Roland Sound Space) technology to create a spaciousness that cannot be produced by delay, reverb, chorus, etc.

52: 3D DELAY 29: 3D CHORUS

30: 3D FLANGER

31: 3D STEP FLANGER

When using these effects, we recommend that you place your speakers as follows. Also, make sure that the speakers are at a sufficient distance from the walls on either side.



If the left and right speakers are too far apart, or if there is too much reverberation, the full 3D effect may not appear.

Each of these effects has an "Output Mode" parameter. If the sound from the OUTPUT jacks is to be heard through speakers, set this parameter to "SPEAKER." If the sound is to be heard through headphones, set it to "PHONES." This will ensure that the optimal 3D effect will be heard. If this parameter is not set correctly, the full 3D effect may not appear.

About the STEP RESET function

06: STEP FILTER

16: STEP RING MOD

19: STEP PAN

20: SLICER

63: STEP PCH SHIFTER

The above five types contain a sixteen-step sequencer. For these types, you can use a multi-effect control (p. 81, p. 137) to reset the sequence to play from the first step. To do this, set the multi-effect control Destination to "Step Reset."

For example if you are using the modulation lever to control the effect, you would make the following settings.

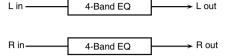
Source: CC01: MODULATION

Destination: Step Reset **Sens:** +63

With these settings, the sequence will play back from the first step whenever you operate the modulation lever.

01: EQUALIZER

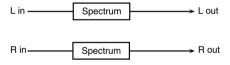
This is a four-band stereo equalizer (low, $mid \times 2$, high).



Parameter	Value	Description
Low Freq	200, 400 Hz	Frequency of the low range
Low Gain #	-15- +15 dB	Gain of the low range
Mid1 Freq	200–8000 Hz	Frequency of the middle range 1
Mid1 Gain	-15- +15 dB	Gain of the middle range 1
Mid1 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the middle range 1 Set a higher value for Q to narrow the range to be affect- ed.
Mid2 Freq	200–8000 Hz	Frequency of the middle range 2
Mid2 Gain	-15- +15 dB	Gain of the middle range 2
Mid2 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the middle range 2 Set a higher value for Q to narrow the range to be affected.
High Freq	2000, 4000, 8000 Hz	Frequency of the high range
High Gain #	-15- +15 dB	Gain of the high range
Level #	0–127	Output Level

02: SPECTRUM

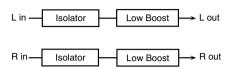
This is a stereo spectrum. Spectrum is a type of filter which modifies the timbre by boosting or cutting the level at specific frequencies.



Parameter	Value	Description		
Band1 (250Hz)				
Band2 (500Hz)				
Band3 (1000Hz)				
Band4 (1250Hz)	-15- +15 dB	Caia af anah faransanah anah		
Band5 (2000Hz)	1-13-+13 db	Gain of each frequency band		
Band6 (3150Hz)				
Band7 (4000Hz)				
Band8 (8000Hz)				
Q	0.5, 1.0, 2.0, 4.0, 8.0	Simultaneously adjusts the width of the adjusted ranges for all the fre- quency bands.		
Level #	0–127	Output Level		

03: ISOLATOR

This is an equalizer which cuts the volume greatly, allowing you to add a special effect to the sound by cutting the volume in varying ranges.



Parameter	Value	Description	
Boost/ Cut Low #		These boost and cut each of the High,	
Boost/ Cut Mid #	-60- +4 dB	Middle, and Low frequency ranges. At -60 dB, the sound becomes inaudible. 0 dB is equivalent to the input lev-	
Boost/ Cut High #		el of the sound.	
Anti Phase Low Sw	OFF, ON	Turns the Anti-Phase function on and off for the Low frequency ranges. When turned on, the counter-channel of stereo sound is inverted and added to the signal.	
Anti Phase Low Level	0–127	Adjusts the level settings for the Low frequency ranges. Adjusting this level for certain frequencies allows you to lend emphasis to specific parts. (This is effective only for stereo source.)	
Anti Phase Mid Sw	OFF, ON	Settings of the Anti-Phase function for the Middle frequency ranges	
Anti Phase Mid Level	0–127	The parameters are the same as for the Low frequency ranges.	
Low Boost Sw	OFF, ON	Turns Low Booster on/off. This emphasizes the bottom to create a heavy bass sound.	
Low Boost Level	0-127	Increasing this value gives you a heavier low end. * Depending on the Isolator and filter settings this effect may be hard to distinguish.	
Level	0-127	Output Level	

04: LOW BOOST

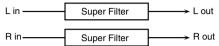
Boosts the volume of the lower range, creating powerful lows.



Parameter	Value	Description
Boost Frequency #	50–125 Hz	Center frequency at which the lower range will be boosted
Boost Gain #	0- +12 dB	Amount by which the lower range will be boosted
Boost Width	WIDE, MID, NARROW	Width of the lower range that will be boosted
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Level	0-127	Output level

05: SUPER FILTER

This is a filter with an extremely sharp slope. The cutoff frequency can be varied cyclically.



Parameter	Value	Description
Filter Type	LPF, BPF, HPF, NOTCH	Filter type Frequency range that will pass through each filter IPF: frequencies below the cutoff BPF: frequencies in the region of the cutoff HPF: frequencies above the cutoff NOTCH: frequencies other than the re- gion of the cutoff
Filter Slope	-12, -24, -36 dB	Amount of attenuation per octave -36 dB: extremely steep -24 dB: steep -12 dB: gentle
Filter Cutoff #	0–127	Cutoff frequency of the filter Increasing this value will raise the cutoff frequency.
Filter Resonance #	0–127	Filter resonance level Increasing this value will emphasize the region near the cutoff frequency.
Filter Gain	0-+12 dB	Amount of boost for the filter output
Modulation Sw	OFF,ON	On/off switch for cyclic change
Modulation	TRI, SQR, SIN, SAW1, SAW2 SW1, SAW2 TRI, SQR, SIN, SAW1: square wave SIN: sine wave SAW1: sawtooth wave (upward) SAW2: sawtooth wave (downward)	
Wave	SAW1	SAW2
Rate #	0.05-10.00 Hz, note	Rate of modulation
Depth	0-127	Depth of modulation
Attack #	0–127	Speed at which the cutoff frequency will change This is effective if Modulation Wave is SQR, SAW1, or SAW2.
Level	0–127	Output level

06: STEP FILTER

This is a filter whose cutoff frequency can be modulated in steps. You can specify the pattern by which the cutoff frequency will change.



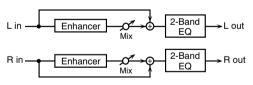
Parameter	Value	Description	
Step 01-16	0–127	Cutoff frequency at each step	
Rate #	0.05-10.00 Hz, note	Rate of modulation	
Attack #	0–127	Speed at which the cutoff frequency changes between steps	
Filter Type	LPF, BPF, HPF, NOTCH	Filter type Frequency range that will pass through each filter LPF: frequencies below the cutoff BPF: frequencies in the region of the cutoff HPF: frequencies above the cutoff NOTCH: frequencies other than the re- gion of the cutoff	
Filter Slope	-12, -24, -36 dB	Amount of attenuation per octave -12 dB: gentle -24 dB: steep -36 dB: extremely steep	
Filter Resonance #	0–127	Filter resonance level Increasing this value will emphasize the region near the cutoff frequency.	
Filter Gain	0- +12 dB	Amount of boost for the filter output	
Level	0–127	Output level	

MEMO

You can use multi-effect control to make the step sequence play again from the beginning (p. 193).

07: ENHANCER

Controls the overtone structure of the high frequencies, adding sparkle and tightness to the sound.



Parameter	Value	Description
Sens #	0-127	Sensitivity of the enhancer
Mix #	0–127	Level of the overtones generat- ed by the enhancer
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0-127	Output Level

08: AUTO WAH

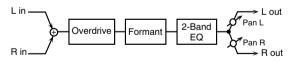
Cyclically controls a filter to create cyclic change in timbre.



Parameter	Value	Description
Filter Type	LPF, BPF	Type of filter IPF: The wah effect will be applied over a wide frequency range. BPF: The wah effect will be applied over a narrow frequency range.
Manual #	0–127	Adjusts the center frequency at which the effect is applied.
Peak	0–127	Adjusts the amount of the wah effect that will occur in the range of the center frequency. Set a higher value for Q to narrow the range to be affected.
Sens #	0–127	Adjusts the sensitivity with which the filter is controlled.
Polarity	UP, DOWN	Sets the direction in which the frequency will change when the auto-wah filter is modulated. UP: The filter will change toward a higher frequency. DOWN: The filter will change toward a lower frequency.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth #	0-127	Depth of modulation
Phase #	0–180 deg	Adjusts the degree of phase shift of the left and right sounds when the wah effect is applied.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

09: HUMANIZER

Adds a vowel character to the sound, making it similar to a human voice.

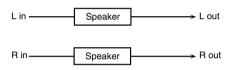


Parameter	Value	Description
Drive Sw	OFF, ON	Turns Drive on/off.
Drive #	0–127	Degree of distortion Also changes the volume.
Vowel1	a, e, i, o, u	Selects the vowel.
Vowel2	a, e, i, o, u	Selects the vower.
Rate #	0.05-10.00 Hz, note	Frequency at which the two vowels switch
Depth #	0-127	Effect depth
Input Sync Sw	OFF, ON	Determines whether the LFO for switching the vowels is reset by the input signal (ON) or not (OFF).
Input Sync Threshold	0–127	Volume level at which reset is applied

Parameter	Value	Description	
Manual #	0–100	Point at which Vowel 1/2 switch 49 or less; Vowel 1 will have a longer duration. 50: Vowel 1 and 2 will be of equal duration. 51 or more: Vowel 2 will have a longer duration.	
Low Gain	-15- +15 dB	Gain of the low frequency range	
High Gain	-15- +15 dB	Gain of the high frequency range	
Pan #	L64-63R	Stereo location of the output	
Level	0-127	Output level	

10: SPEAKER SIMULATOR

Simulates the speaker type and mic settings used to record the speaker sound.



Parameter	Value	Description
Speaker Type	(See the table right.)	Type of speaker
Mic Setting	1, 2, 3	Adjusts the location of the mic that is recording the sound of the speaker. This can be adjusted in three steps, with the mic becoming more distant in the order of 1, 2, and 3.
Mic Level #	0–127	Volume of the microphone
Direct Level #	0–127	Volume of the direct sound
Level #	0–127	Output Level

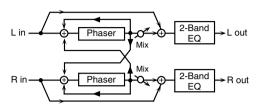
Specifications of each Speaker Type

The speaker column indicates the diameter of each speaker unit (in inches) and the number of units.

Туре	Cabinet	Speaker	Micro- phone
SMALL 1	small open-back enclosure	10	dynamic
SMALL 2	small open-back enclosure	10	dynamic
MIDDLE	open back enclosure	12 x 1	dynamic
JC-120	open back enclosure	12 x 2	dynamic
BUILT-IN 1	open back enclosure	12 x 2	dynamic
BUILT-IN 2	open back enclosure	12 x 2	condenser
BUILT-IN 3	open back enclosure	12 x 2	condenser
BUILT-IN 4	open back enclosure	12 x 2	condenser
BUILT-IN 5	open back enclosure	12 x 2	condenser
BG STACK 1	sealed enclosure	12 x 2	condenser
BG STACK 2	large sealed enclosure	12 x 2	condenser
MS STACK 1	large sealed enclosure	12 x 4	condenser
MS STACK 2	large sealed enclosure	12 x 4	condenser
METAL STACK	large double stack	12 x 4	condenser
2-STACK	large double stack	12 x 4	condenser
3-STACK	large triple stack	12 x 4	condenser

11: PHASER

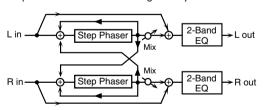
A phase-shifted sound is added to the original sound and modulated.



Parameter	Value	Description
Mode	4-STAGE, 8-STAGE, 12- STAGE	Number of stages in the phaser
Manual #	0–127	Adjusts the basic frequency from which the sound will be modulated.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Polarity	INVERSE, SYNCHRO	Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source.
Resonance #	0-127	Amount of feedback
Cross Feedback	-98- +98%	Adjusts the proportion of the phaser sound that is fed back into the effect. Negative (-) settings will invert the phase.
Mix #	0-127	Level of the phase-shifted sound
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

12: STEP PHASER

The phaser effect will be varied gradually.

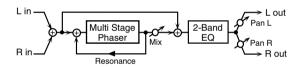


Parameter	Value	Description
Mode	4-STAGE, 8-STAGE, 12- STAGE	Number of stages in the phaser
Manual #	0–127	Adjusts the basic frequency from which the sound will be modulated.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0-127	Depth of modulation

Parameter	Value	Description
Polarity	INVERSE, SYNCHRO	Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source.
Resonance #	0–127	Amount of feedback
Cross Feedback	-98- +98%	Adjusts the proportion of the phaser sound that is fed back into the effect. Negative (-) settings will invert the phase.
Step Rate #	0.10-20.00 Hz, note	Rate of the step-wise change in the phaser effect
Mix #	0–127	Level of the phase-shifted sound
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

13: MLT STAGE PHASER (MULTI STAGE PHASER)

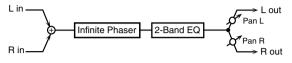
Extremely high settings of the phase difference produce a deep phaser effect.



Parameter	Value	Description
Mode	4-STAGE, 8-STAGE, 12-STAGE, 16-STAGE, 20-STAGE, 24-STAGE	Number of phaser stages
Manual #	0–127	Adjusts the basic frequency from which the sound will be modulated.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Resonance #	0–127	Amount of feedback
Mix #	0–127	Level of the phase-shifted sound
Pan #	L64-63R	Stereo location of the output sound
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

14: INFINITE PHASER

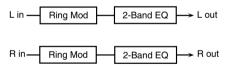
A phaser that continues raising/lowering the frequency at which the sound is modulated.



Parameter	Range	Explanation
Mode	1, 2, 3, 4	Higher values will produce a deeper phaser effect.
Speed #	-100- +100	Speed at which to raise or lower the frequency at which the sound is modulated (+: upward / -: downward)
Resonance #	0–127	Amount of feedback
Mix #	0–127	Volume of the phase-shifted sound
Pan #	L64-63R	Panning of the output sound
Low Gain	-15- +15 dB	Amount of boost/cut for the low-frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high- frequency range
Level	0–127	Output volume

15: RING MODULATOR

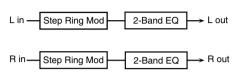
This is an effect that applies amplitude modulation (AM) to the input signal, producing bell-like sounds. You can also change the modulation frequency in response to changes in the volume of the sound sent into the effect.



Parameter	Value	Description
Frequency #	0–127	Adjusts the frequency at which modulation is applied.
Sens #	0–127	Adjusts the amount of frequency modulation applied.
Polarity	UP, DOWN	Determines whether the frequency modula- tion moves towards higher frequencies (UP) or lower frequencies (DOWN).
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

16: STEP RING MOD (STEP RING MODULATOR)

This is a ring modulator that uses a 16-step sequence to vary the frequency at which modulation is applied.



Parameter	Range	Explanation
Step 01-16	0–127	Frequency of ring modulation at each step
Rate #	0.05-10.00 Hz, note	Rate at which the 16-step sequence will cycle
Attack #	0–127	Speed at which the modulation fre- quency changes between steps
Low Gain	-15- +15 dB	Amount of boost/cut for the low- frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high- frequency range
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and effect sound (W)
Level	0-127	Output volume

MEMO

You can use multi-effect control to make the step sequence play again from the beginning (p. 193).

17: TREMOLO

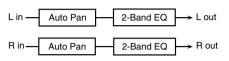
Cyclically modulates the volume to add tremolo effect to the sound.



Parameter	Value	Description
	TRI, SQR, SIN, SAW1, SAW2	Modulation Wave TRI: triangle wave SQR: square wave SIN: sine wave SAW1/2: sawtooth wave
Mod Wave	SAW1	SAW2
Rate #	0.05-10.00 Hz, note	Frequency of the change
Depth #	0–127	Depth to which the effect is applied
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

18: AUTO PAN

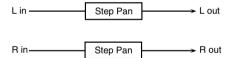
Cyclically modulates the stereo location of the sound.



Parameter	Value	Description
	TRI, SQR, SIN, SAW1, SAW2	Modulation Wave TRI: triangle wave SQR: square wave SIN: sine wave SAW1/2: sawtooth wave
Mod Wave	SAW1 R	SAW2 R
Rate #	0.05-10.00 Hz, note	Frequency of the change
Depth #	0-127	Depth to which the effect is applied
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level	0–127	Output Level

19: STEP PAN

This uses a 16-step sequence to vary the panning of the sound.



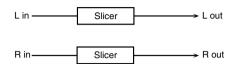
Parameter	Range	Explanation
Step 01-16	L64-63R	Pan at each step
Rate #	0.05-10.00 Hz, note	Rate at which the 16-step sequence will cycle
Attack #	0-127	Speed at which the pan changes between steps
Input Sync Sw	OFF, ON	Specifies whether an input note will cause the sequence to resume from the first step of the sequence (ON) or not (OFF)
Input Sync Threshold	0–127	Volume at which an input note will be detected
Level	0-127	Output volume

MEMO

You can use multi-effect control to make the step sequence play again from the beginning (p. 193).

20: SLICER

By applying successive cuts to the sound, this effect turns a conventional sound into a sound that appears to be played as a backing phrase. This is especially effective when applied to sustain-type sounds.



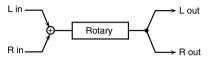
n .	W.I	B	
Parameter	Value	Description	
Step 01-16	L64-63R	Level at each step	
Rate #	0.05-10.00 Hz, note	Rate at which the 16-step sequence will cycle	
Attack #	0–127	Speed at which the level changes between steps	
Input Sync Sw	OFF, ON	Specifies whether an input note will cause the sequence to resume from the first step of the sequence (ON) or not (OFF)	
Input Sync Threshold	0–127	Volume at which an input note will be detected	
Mode	LEGATO, SLASH	Sets the manner in which the volume changes as one step progresses to the next. LEGATO: The change in volume from one step's level to the next remains unaltered. If the level of a following step is the same as the one preceding it, there is no change in volume. SIASH: The level is momentarily set to 0 before progressing to the level of the next step. This change in volume occurs even if the level of the following step is the same as the preceding step.	
Shuffle #	0–127	Timing of volume changes in levels for even- numbered steps (step 2, step 4, step 6). The higher the value, the later the beat progresses.	
Level	0-127	Output level	

MEMO

You can use multi-effect control to make the step sequence play again from the beginning (p. 193).

21: ROTARY

The Rotary effect simulates the sound of the rotary speakers often used with the electric organs of the past. Since the movement of the high range and low range rotors can be set independently, the unique type of modulation characteristic of these speakers can be simulated quite closely. This effect is most suitable for electric organ Patches.

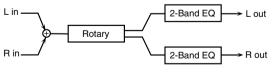


Parameter	Value	Description
Speed #	SLOW, FAST	Simultaneously switch the rotational speed of the low frequency rotor and high frequency rotor. SLOW: Slows down the rotation to the Slow Rate. FAST: Speeds up the rotation to the Fast Rate.
Wf Slow Speed	0.05–10.00 Hz	Slow speed (SLOW) of the low frequency rotor
Wf Fast Speed	0.05–10.00 Hz	Fast speed (FAST) of the low fre- quency rotor
Wf Acceleration	0–15	Adjusts the time it takes the low fre- quency rotor to reach the newly se- lected speed when switching from fast to slow (or slow to fast) speed. Lower values will require longer times.
Wf Level	0–127	Volume of the low frequency rotor
Tw Slow Speed	0.05-10.00 Hz	
Tw Fast Speed	0.05-10.00 Hz	Settings of the high frequency rotor The parameters are the same as
Tw Acceleration	0–15	for the low frequency rotor
Tw Level	0–127	1,
Separation	0–127	Spatial dispersion of the sound
Level #	0-127	Output Level

22: VK ROTARY

This type provides modified response for the rotary speaker, with the low end boosted further.

This effect features the same specifications as the VK-7's builtin rotary speaker.

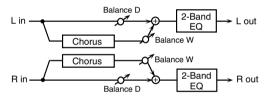


Parameter	Value	Description
Speed #	SLOW, FAST	Rotational speed of the rotating speaker
Brake #	OFF, ON	Switches the rotation of the rotary speaker. When this is turned on, the rotation will gradually stop. When it is turned off, the rotation will gradually resume.
Wf Slow Speed	0.05–10.00 Hz	Low-speed rotation speed of the woofer
Wf Fast Speed	0.05–10.00 Hz	High-speed rotation speed of the woofer

Parameter	Value	Description
Wf Trans Up	0–127	Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Slow to Fast.
Wf Trans Down	0–127	Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Fast to Slow.
Wf Level	0-127	Volume of the woofer
Tw Slow Speed	0.05-10.00 Hz	
Tw Fast Speed	0.05-10.00 Hz	Settings of the tweeter
Tw Trans Up	0–127	The parameters are the same
Tw Trans Down	0–127	as for the woofer.
Tw Level	0–127	7
Spread	0–10	Sets the rotary speaker stereo image. The higher the value set, the wider the sound is spread out.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level #	0–127	Output Level

23: CHORUS

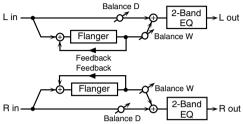
This is a stereo chorus. A filter is provided so that you can adjust the timbre of the chorus sound.



Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the di- rect sound until the chorus sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0-127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the chorus sound (W)
Level	0–127	Output Level

24: FLANGER

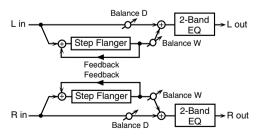
This is a stereo flanger. (The LFO has the same phase for left and right.) It produces a metallic resonance that rises and falls like a jet airplane taking off or landing. A filter is provided so that you can adjust the timbre of the flanged sound.



Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the flanger sound (W)
Level	0-127	Output Level

25: STEP FLANGER

This is a flanger in which the flanger pitch changes in steps. The speed at which the pitch changes can also be specified in terms of a note-value of a specified tempo.

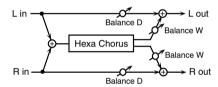


Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq

Parameter	Value	Description
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0–180 deg	Spatial spread of the sound
Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.
Step Rate #	0.10-20.00 Hz, note	Rate (period) of pitch change
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the di- rect sound (D) and the flanger sound (W)
Level	0–127	Output Level

26: HEXA-CHORUS

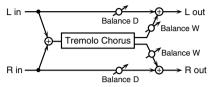
Uses a six-phase chorus (six layers of chorused sound) to give richness and spatial spread to the sound.



Parameter	Value	Description
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the di- rect sound until the chorus sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Pre Delay Deviation	0–20	Adjusts the differences in Pre Delay between each chorus sound.
Depth Deviation	-20- +20	Adjusts the difference in modulation depth between each chorus sound.
Pan Deviation	0–20	Adjusts the difference in stereo location between each chorus sound. 0: All chorus sounds will be in the center. 20: Each chorus sound will be spaced at 60 degree intervals relative to the center.
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the chorus sound (W)
Level	0–127	Output Level

27: TREMOLO CHORUS

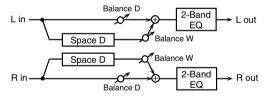
This is a chorus effect with added Tremolo (cyclic modulation of volume).



Parameter	Value	Description
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the di- rect sound until the chorus sound is heard.
Chorus Rate #	0.05-10.00 Hz, note	Modulation frequency of the chorus effect
Chorus Depth	0–127	Modulation depth of the chorus effect
Tremolo Rate #	0.05-10.00 Hz, note	Modulation frequency of the trem- olo effect
Tremolo Separation	0–127	Spread of the tremolo effect
Tremolo Phase	0-180 deg	Spread of the tremolo effect
Balance #	D100:0W-D0:100W	Volume balance between the di- rect sound (D) and the tremolo chorus sound (W)
Level	0-127	Output Level

28: SPACE-D

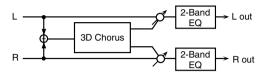
This is a multiple chorus that applies two-phase modulation in stereo. It gives no impression of modulation, but produces a transparent chorus effect.



Parameter	Value	Description
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the chorus sound (W)
Level	0-127	Output Level

29: 3D CHORUS

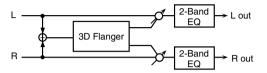
This applies a 3D effect to the chorus sound. The chorus sound will be positioned 90 degrees left and 90 degrees right.



Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Modulation depth of the chorus effect
Phase	0-180 deg	Spatial spread of the sound
Output Mode	SPEAKER, PHONES	Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. The optimal 3D effect will be achieved if you select SPEAKER when using speakers, or PHONES when using headphones.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the chorus sound (W)
Level	0-127	Output Level

30: 3D FLANGER

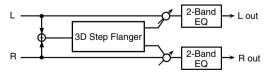
This applies a 3D effect to the flanger sound. The flanger sound will be positioned 90 degrees left and 90 degrees right.



Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.
Output Mode	SPEAKER, PHONES	Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. The optimal 3D effect will be achieved if you select SPEAKER when using speakers, or PHONES when using headphones.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the di- rect sound (D) and the flanger sound (W)
Level	0–127	Output Level

31: 3D STEP FLANGER

This applies a 3D effect to the step flanger sound. The flanger sound will be positioned 90 degrees left and 90 degrees right.

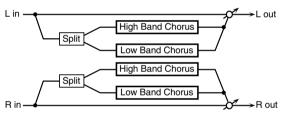


Parameter	Value	Description
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.

Parameter	Value	Description
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.
Step Rate #	0.10-20.00 Hz, note	Rate (period) of pitch change
Output Mode	SPEAKER, PHONES	Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. The optimal 3D effect will be achieved if you select SPEAKER when using speakers, or PHONES when using headphones.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the di- rect sound (D) and the flanger sound (W)
Level	0–127	Output Level

32: 2BAND CHORUS

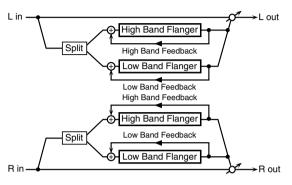
A chorus effect that lets you apply an effect independently to the low-frequency and high-frequency ranges.



Parameter	Range	Explanation
Split Freq	200–8000 Hz	Frequency at which the low and high ranges will be divided
Low Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the low-range chorus sound is heard
Low Rate #	0.05-10.00 Hz, note	Rate at which the low-range cho- rus sound is modulated
Low Depth	0–127	Modulation depth for the low- range chorus sound
Low Phase	0–180 deg	Spaciousness of the low-range chorus sound
High Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the high-range chorus sound is heard
High Rate #	0.05-10.00 Hz, note	Rate at which the low-range cho- rus sound is modulated
High Depth	0–127	Modulation depth for the high- range chorus sound
High Phase	0–180 deg	Spaciousness of the high-range chorus sound
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and chorus sound (W)
Level	0–127	Output volume

33: 2BAND FLANGER

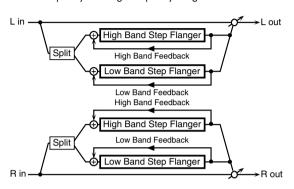
A flanger that lets you apply an effect independently to the low-frequency and high-frequency ranges.



Parameter	Range	Explanation
Split Freq	200–8000 Hz	Frequency at which the low and high ranges will be divided
Low Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the low-range flanger sound is heard
Low Rate #	0.05-10.00 Hz, note	Rate at which the low-range flanger sound is modulated
Low Depth	0–127	Modulation depth for the low- range flanger sound
Low Phase	0–180 deg	Spaciousness of the low-range flanger sound
Low Feedback #	-98- +98%	Proportion of the low-range flanger sound that is to be re- turned to the input (negative val- ues invert the phase)
High Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the high-range flanger sound is heard
High Rate #	0.05-10.00 Hz, note	Rate at which the high-range flanger sound is modulated
High Depth	0–127	Modulation depth for the high- range flanger sound
High Phase	0–180 deg	Spaciousness of the high-range flanger sound
High Feedback #	-98- +98%	Proportion of the high-range flanger sound that is to be re- turned to the input (negative val- ues invert the phase)
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and flanger sound (W)
Level	0-127	Output volume

34: 2BAND STEP FLNGR (2BAND STEP FLANGER)

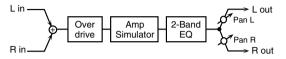
A step flanger that lets you apply an effect independently to the low-frequency and high-frequency ranges.



Parameter	Range	Explanation
Split Freq	200–8000 Hz	Frequency at which the low and high ranges will be divided
Low Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the low-range flanger sound is heard
Low Rate #	0.05-10.00 Hz, note	Rate at which the low-range flanger sound is modulated
Low Depth	0–127	Modulation depth for the low- range flanger sound
Low Phase	0–180 deg	Spaciousness of the low-range flanger sound
Low Feedback #	-98- +98%	Proportion of the low-range flanger sound that is to be re- turned to the input (negative val- ues invert the phase)
Low Step Rate #	0.10-20.00 Hz, note	Rate at which the steps will cycle for the low-range flanger sound
High Pre Delay	0.0-100.0 ms	Delay time from when the origi- nal sound is heard to when the high-range flanger sound is heard
High Rate #	0.05-10.00 Hz, note	Rate at which the high-range flanger sound is modulated
High Depth	0–127	Modulation depth for the high- range flanger sound
High Phase	0–180 deg	Spaciousness of the high-range flanger sound
High Feedback #	-98- +98%	Proportion of the high-range flanger sound that is to be re- turned to the input (negative val- ues invert the phase)
High Step Rate #	0.10-20.00 Hz, note	Rate at which the steps will cycle for the high-range flanger sound
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and flanger sound (W)
Level	0–127	Output volume

35: OVERDRIVE

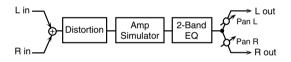
Creates a soft distortion similar to that produced by vacuum tube amplifiers.



Parameter	Value	Description
Drive #	0–127	Degree of distortion Also changes the volume.
Атр Туре	SMALL, BUILT-IN, 2-STACK, 3-STACK	Type of guitar amp SMALL: small amp BUILT-IN: single-unit type amp 2-STACK: large double stack amp 3-STACK: large triple stack amp
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Pan #	L64-63R	Stereo location of the output sound
Level	0–127	Output Level

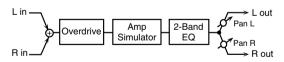
36: DISTORTION

Produces a more intense distortion than Overdrive. The parameters are the same as for "35: OVERDRIVE."



37: VS OVERDRIVE

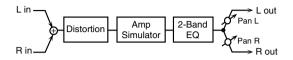
This is an overdrive that provides heavy distortion.



Parameter	Value	Description
Drive #	0–127	Degree of distortion Also changes the volume.
Tone #	0–127	Sound quality of the Overdrive effect
Amp Sw	OFF, ON	Turns the Amp Simulator on/off.
Amp Type	SMALL, BUILT-IN, 2- STACK, 3-STACK	Type of guitar amp SMALL: small amp BUILT-IN: single-unit type amp 2-STACK: large double stack amp 3-STACK: large triple stack amp
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Pan #	L64-63R	Stereo location of the output sound
Level	0–127	Output Level

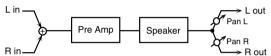
38: VS DISTORTION

This is a distortion effect that provides heavy distortion. The parameters are the same as for "37: VS OVERDRIVE."



39: GUITAR AMP SIMULATOR

This is an effect that simulates the sound of a guitar amplifier.



R in—/		V→ R out
Parameter	Value	Description
Pre Amp Sw	OFF, ON	Turns the amp switch on/off.
Pre Amp Type	JC-120, CLEAN TWIN, MATCH DRIVE, BG LEAD, MS1959I, MS1959II, MS1959I+II, SIDN LEAD, METAL5150, METAL LEAD, OD-1, OD- 2 TURBO, DISTORTION, FUZZ	Type of guitar amp
Pre Amp Volume #	0–127	Volume and amount of distortion of the amp
Pre Amp Master #	0–127	Volume of the entire pre-amp
Pre Amp Gain	LOW, MIDDLE, HIGH	Amount of pre-amp distortion
Pre Amp Bass Pre Amp Middle Pre Amp Treble	0–127	Tone of the bass/mid/treble fre- quency range * Middle cannot be set if "Match Drive" is selected as the Pre Amp Type.
Pre Amp Presence	0–127	Tone for the ultra-high frequency range
Pre Amp Bright	OFF, ON	Turning this "On" produces a sharper and brighter sound. * This parameter applies to the "JC-120," "Clean Twin," and "BG Lead" Pre Amp Types.
Speaker Sw	OFF, ON	Determines whether the signal passes through the speaker (ON), or not (OFF).
Speaker Type	(See the table below.)	Type of speaker
Mic Setting	1, 2, 3	Adjusts the location of the mic that's capturing the sound of the speaker. This can be adjusted in three steps, from 1 to 3, with the mic becoming more distant as the value increases.
Mic Level	0–127	Volume of the microphone
Direct Level	0–127	Volume of the direct sound
Pan #	L64-63R	Stereo location of the output
Level #	0–127	Output level

Effects List

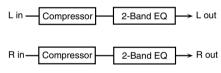
Specifications for each Speaker Type

The speaker column indicates the diameter of each speaker unit (in inches) and the number of units.

Туре	Cabinet	Speak- er	Micro- phone
SMALL 1	small open-back enclosure	10	dynamic
SMALL 2	small open-back enclosure	10	dynamic
MIDDLE	open back enclosure	12 x 1	dynamic
JC-120	open back enclosure	12 x 2	dynamic
BUILT-IN 1	open back enclosure	12 x 2	dynamic
BUILT-IN 2	open back enclosure	12 x 2	condenser
BUILT-IN 3	open back enclosure	12 x 2	condenser
BUILT-IN 4	open back enclosure	12 x 2	condenser
BUILT-IN 5	open back enclosure	12 x 2	condenser
BG STACK 1	sealed enclosure	12 x 2	condenser
BG STACK 2	large sealed enclosure	12 x 2	condenser
MS STACK 1	large sealed enclosure	12 x 4	condenser
MS STACK 2	large sealed enclosure 12 x 4 cond		condenser
METAL STACK	large double stack	12 x 4	condenser
2-STACK	large double stack 12 x 4 condense		condenser
3-STACK	large triple stack 12 x 4 condense		condenser

40: COMPRESSOR

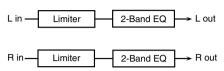
Flattens out high levels and boosts low levels, smoothing out fluctuations in volume.



Parameter	Value	Description
Attack #	0-127	Sets the speed at which compression starts
Threshold #	0–127	Adjusts the volume at which compression begins
Post Gain	0-+18 dB	Adjusts the output gain.
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Level #	0-127	Output level

41: LIMITER

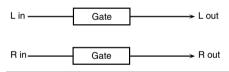
Compresses signals that exceed a specified volume level, preventing distortion from occurring.



Parameter	Value	Description
Release #	0–127	Adjusts the time after the signal volume falls below the Threshold Level until compression is no longer applied.
Threshold #	0–127	Adjusts the volume at which compression begins
Ratio	1.5:1, 2:1, 4:1, 100:1	Compression ratio
Post Gain	0-+18 dB	Adjusts the output gain.
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Level #	0–127	Output level

42: GATE

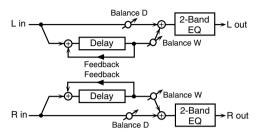
Cuts the reverb's delay according to the volume of the sound sent into the effect. Use this when you want to create an artificial-sounding decrease in the reverb's decay.



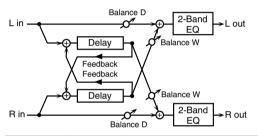
Parameter	Value	Description
Threshold #	0-127	Volume level at which the gate begins to close
Mode	GATE, DUCK	Type of gate GATE: The gate will close when the vol- ume of the original sound decreases, cut- ting the original sound. DUCK (Ducking): The gate will close when the volume of the original sound increas- es, cutting the original sound.
Attack	0–127	Adjusts the time it takes for the gate to fully open after being triggered.
Hold	0–127	Adjusts the time it takes for the gate to start closing after the source sound falls beneath the Threshold.
Release	0–127	Adjusts the time it takes the gate to fully close after the hold time.
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

43: DELAY

This is a stereo delay. When Feedback Mode is NORMAL:



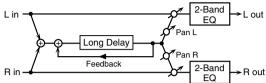
When Feedback Mode is CROSS:



Parameter	Value	Description
Delay Left	0-1300 ms,	Adjusts the time until the delay sound is
Delay Right	note	heard.
Phase Left	NORMAL,	Phase of the delay sound
Phase Right	INVERSE	Fridse of the delay sound
Feedback Mode	NORMAL, CROSS	Selects the way in which delay sound is fed back into the effect. (See the figures above.)
Feedback #	-98- +98%	Adjusts the amount of the delay sound that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS.
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0-127	Output level

44: LONG DELAY

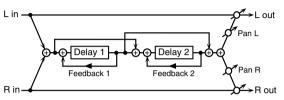
A delay that provides a long delay time.



		LQ
Parameter	Range	Explanation
Delay Time	0-2600 ms, note	Delay time from when the origi- nal sound is heard to when the delay sound is heard
Phase	NORMAL, INVERSE	Phase of the delay (NORMAL: non-inverted, INVERT: inverted)
Feedback #	-98- +98%	Proportion of the delay sound that is to be returned to the input (negative values invert the phase)
HF Damp	200–8000 Hz, BYPASS	Frequency at which the high-fre- quency content of the delayed sound will be cut (BYPASS: no cut)
Pan #	L64-63R	Panning of the delay sound
Low Gain	-15- +15 dB	Amount of boost/cut for the high- frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high-frequency range
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and delay sound (W)
Level	0–127	Output volume

45: SERIAL DELAY

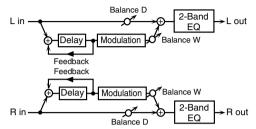
This delay connects two delay units in series. Feedback can be applied independently to each delay unit, allowing you to produce complex delay sounds.



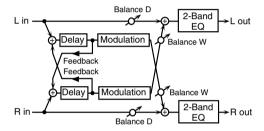
Parameter	Range	Explanation
Delay1 Time	0-1300 ms, note	Delay time from when sound is input to delay 1 until the delay sound is heard
Delay1 Feedback #	-98- +98%	Proportion of the delay sound that is to be returned to the input of delay 1 (negative values invert the phase)
Delay1 HF Damp	200–8000 Hz, BYPASS	Frequency at which the high-fre- quency content of the delayed sound of delay 1 will be cut (BY- PASS: no cut)
Delay2 Time	0-1300 ms, note	Delay time from when sound is input to delay 2 until the delay sound is heard
Delay2 Feedback #	-98- +98%	Proportion of the delay sound that is to be returned to the input of delay 2 (negative values invert the phase)
Delay2 HF Damp	200–8000 Hz, BYPASS	Frequency at which the high-frequency content of the delayed sound of delay 2 will be cut (BY-PASS: no cut)
Pan #	L64-63R	Panning of the delay sound
Low Gain	-15- +15 dB	Amount of boost/cut for the low- frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high- frequency range
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and delay sound (W)
Level	0-127	Output volume

46: MODULATION DELAY

Adds modulation to the delayed sound. When Feedback Mode is NORMAL:



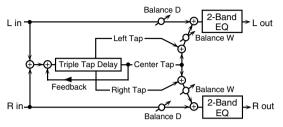
When Feedback Mode is CROSS:



Parameter	Value	Description
Delay Left	0-1300 ms,	Adjusts the time until the delay sound is
Delay Right	note	heard.
Feedback Mode	NORMAL, CROSS	Selects the way in which delay sound is fed back into the effect (See the figures above.)
Feedback #	-98- +98%	Adjusts the amount of the delay sound that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS.
Rate #	0.05-10.00 Hz, note	Frequency of modulation
Depth	0-127	Depth of modulation
Phase	0-180 deg	Spatial spread of the sound
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0–127	Output level

47: 3TAP PAN DELAY

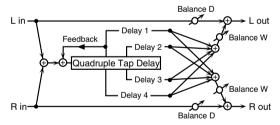
Produces three delay sounds; center, left and right.



Parameter	Value	Description
Delay Left/ Right/Center	0-2600 ms, note	Adjusts the time until the delay sound is heard.
Center Feedback #	-98- +98%	Adjusts the amount of the delay sound that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you do not want to filter out any high frequen- cies, set this parameter to BYPASS.
Left/Right/ Center Level	0-127	Volume of each delay
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0–127	Output level

48: 4TAP PAN DELAY

This effect has four delays.



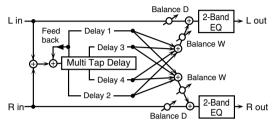


Stereo location of each delay

Parameter	Value	Description
Delay 1–4 Time	0-2600 ms, note	Adjusts the time until the delay sound is heard.
Delay 1 Feed- back #	-98- +98%	Adjusts the amount of the delay sound that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you do not want to filter out any high frequencies, set this parameter to BYPASS.
Delay 1-4 Level	0-127	Volume of each delay
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0–127	Output level

49: MULTI TAP DELAY

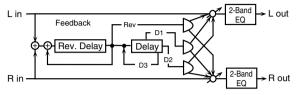
This effect provides four delays. Each of the Delay Time parameters can be set to a note length based on the selected tempo. You can also set the panning and level of each delay sound.



Parameter	Value	Description
Delay 1–4 Time	0-2600 ms, note	Adjusts the time until Delays 1–4 are heard.
Delay 1 Feed- back #	-98- +98%	Adjusts the amount of the delay sound that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any the high frequencies, set this parameter to BYPASS.
Delay 1-4 Pan	L64-63R	Stereo location of Delays 1-4
Delay 1-4 Level	0-127	Output level of Delays 1-4
Low Gain	-15-+15 dB	Gain of the low frequency range
High Gain	-15-+15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

50: REVERSE DELAY

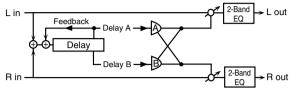
This is a reverse delay that adds a reversed and delayed sound to the input sound. A tap delay is connected immediately after the reverse delay.



Parameter	Range	Explanation
Threshold	0–127	Volume at which the reverse de- lay will begin to be applied
Rev Dly Time	0-1300 ms, note	Delay time from when sound is input into the reverse delay until the delay sound is heard
Rev Dly Feedback #	-98- +98%	Proportion of the delay sound that is to be returned to the input of the reverse delay (negative values invert the phase)
Rev Dly HF Damp	200–8000 Hz, BYPASS	Frequency at which the high-fre- quency content of the reverse-de- layed sound will be cut (BYPASS: no cut)
Rev Dly Pan	L64-63R	Panning of the reverse delay sound
Rev Dly Level	0–127	Volume of the reverse delay sound
Delay 1 – 3 Time	0-1300 ms, note	Delay time from when sound is input into the tap delay until the delay sound is heard
Delay 3 Feedback #	-98- +98%	Proportion of the delay sound that is to be returned to the input of the tap delay (negative values invert the phase)
Delay HF Damp	200–8000 Hz, BYPASS	Frequency at which the low-fre- quency content of the tap delay sound will be cut (BYPASS: no cut)
Delay 1 Pan', 'Delay 2 Pan	L64-63R	Panning of the tap delay sounds
Delay 1 Level', 'Delay 2 Level	0–127	Volume of the tap delay sounds
Low Gain	-15- +15 dB	Amount of boost/cut for the low- frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high- frequency range
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and delay sound (W)
Level	0-127	Output volume

51: SHUFFLE DELAY

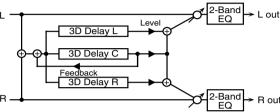
Adds a shuffle to the delay sound, giving the sound a bouncy delay effect with a swing feel.



Parameter	Value	Description
Delay Time #	0-2600 ms, note	Adjusts the time until the delay sound is heard.
Shuffle Rate #	0–100%	Adjusts the ratio (as a percentage) of the time that elapses before Delay B sounds relative to the time that elapses before the Delay A sounds. When set to 100%, the delay times are the same.
Acceleration	0–15	Adjusts the speed which the Delay Time changes from the current setting to its specified new setting.
Feedback #	-98- +98%	Adjusts the amount of the delay that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS.
Pan A/B	0-127	Stereo location of Delay A/B
Level A/B	0-127	Volume of delay A/B
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

52: 3D DELAY

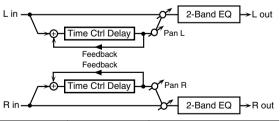
This applies a 3D effect to the delay sound. The delay sound will be positioned 90 degrees left and 90 degrees right.



Parameter	Value	Description
Delay Left Delay Right Delay Center	0-2600 ms, note	Adjusts the delay time from the direct sound until the delay sound is heard.
Center Feedback #	-98- +98%	Adjusts the proportion of the de- lay sound that is fed back into the effect. Negative (-) settings will invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.
Left Level		
Right Level	0–127	Output level of the delay sound
Center Level		
Output Mode	SPEAKER, PHONES	Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. The optimal 3D effect will be achieved if you select SPEAKER when using speakers, or PHONES when using headphones.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0–127	Output Level

53: TIME CTRL DELAY

A stereo delay in which the delay time can be varied smoothly.

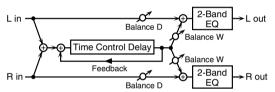


Parameter	Value	Description
Delay Time #	0-1300 ms, note	Adjusts the time until the delay is heard.
Acceleration	0–15	Adjusts the speed which the Delay Time changes from the current setting to a specified new setting. The rate of change for the Delay Time directly affects the rate of pitch change.

Parameter	Value	Description
Feedback #	-98- +98%	Adjusts the amount of the delay that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you do not want to filter out any high frequencies, set this parameter to BYPASS.
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0-127	Output level

54: LONG T CTL DELAY (LONG TIME CONTROL DELAY)

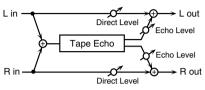
A delay in which the delay time can be varied smoothly, and allowing an extended delay to be produced.



Parameter	Value	Description
Delay Time #	0-2600 ms, note	Adjusts the time until the delay is heard.
Acceleration	0–15	Adjusts the speed which the Delay Time changes from the current setting to a specified new setting. The rate of change for the Delay Time directly affects the rate of pitch change.
Feedback #	-98- +98%	Adjusts the amount of the delay that's fed back into the effect. Negative (-) settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you do not want to filter out any high frequencies, set this parameter to BYPASS.
Pan #	L64-63R	Stereo location of the delay
Low Gain	-15- +15 dB	Gain of the low frequency range
High Gain	-15- +15 dB	Gain of the high frequency range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the delay sound (W)
Level	0–127	Output level

55: TAPE ECHO

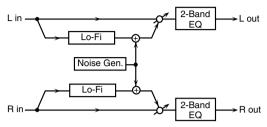
A virtual tape echo that produces a realistic tape delay sound. This simulates the tape echo section of a Roland RE-201 Space Echo.



Parameter	Value	Description
Mode	S, M, L, S+M, S+L, M+L, S+M+L	Combination of playback heads to use Select from three different heads with dif- ferent delay times. S: short, M: middle, L: long
Repeat Rate #	0–127	Tape speed Increasing this value will shorten the spac- ing of the delayed sounds.
Intensity #	0-127	Amount of delay repeats
Bass	-15- +15 dB	Boost/cut for the lower range of the echo sound
Treble	-15- +15 dB	Boost/cut for the upper range of the echo sound
Head S Pan		
Head M Pan	L64-63R	Independent panning for the short, middle, and long playback heads
Head L Pan	1	
Tape Distortion	0–5	Amount of tape-dependent distortion to be added This simulates the slight tonal changes that can be detected by signal-analysis equipment. Increasing this value will increase the distortion.
Wow/Flutter Rate	0–127	Speed of wow/flutter (complex variation in pitch caused by tape wear and rotational irregularity)
Wow/Flutter Depth	0-127	Depth of wow/flutter
Echo Level #	0-127	Volume of the echo sound
Direct Level #	0-127	Volume of the original sound
Level	0-127	Output level

56: LOFI NOISE

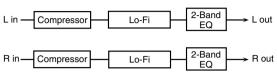
In addition to a lo-fi effect, this adds various types of noise such as white noise and disc noise.



_		
Parameter	Value	Description
LoFi Type	1–9	Degrades the sound quality. The sound quality grows poorer as this value is increased.
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff HPF: cuts the frequency range below the Cutoff
Filter Cutoff	200-8000 Hz	Center frequency of the filter
W/P Noise Type	WHITE, PINK	Switch between white noise and pink noise.
W/P Noise LPF	200–8000 Hz, BYPASS	Center frequency of the low pass filter applied to the white/pink noise (BYPASS: no cut)
W/P Noise Level #	0–127	Volume of the white/pink noise
Disc Noise Type	LP, EP, SP, RND	Type of record noise The frequency at which the noise is heard depends on the selected type.
Disc Noise LPF	200–8000 Hz, BYPASS	Adjusts the cutoff frequency of the low pass filter applied to the record noise. If you don't want to filter out any high frequencies, set this parameter to BYPASS.
Disc Noise Level #	0–127	Volume of the record noise
Hum Noise Type	50 Hz, 60 Hz	Frequency of the hum noise
Hum Noise LPF	200–8000 Hz, BYPASS	Center frequency of the low pass filter applied to the hum noise (BYPASS: no cut)
Hum Noise Level #	0–127	Volume of the hum noise
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0–127	Output level

57: LOFI COMPRESS

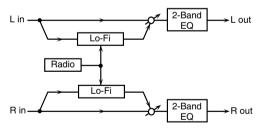
This is an effect that intentionally degrades the sound quality for creative purposes.



Parameter	Value	Description
Pre Fil Type	1-6	Selects the type of filter applied to the sound before it passes through the Lo-Fi effect. 1: Compressor off 2–6: Compressor on
LoFi Type	1–9	Degrades the sound quality. The sound quality grows poorer as this value is increased.
Post Fil Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff HPF: cuts the frequency range below the Cutoff
Post Fil Cutoff	200–8000 Hz	Basic frequency of the Post Filter
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level #	0-127	Output level

58: LOFI RADIO

In addition to a Lo-Fi effect, this effect also generates radio noise.



Parameter	Value	Description
LoFi Type	1–9	Degrades the sound quality. The sound quality grows poorer as this value is increased.
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff HPF: cuts the frequency range below the Cutoff
Filter Cutoff	200-8000 Hz	Basic frequency of the Post Filter
Radio Detune #	0–127	Simulates the tuning noise of a radio. As this value is raised, the tuning drifts further.
Radio Noise Level #	0–127	Volume of the radio noise
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

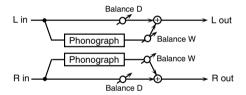
59: TELEPHONE



Parameter	Value	Description
Voice Quality #	0–15	Audio quality of the telephone voice
Treble	-15- +15 dB	Bandwidth of the telephone voice
Balance #	D100:0- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0–127	Output level

60: PHONOGRAPH

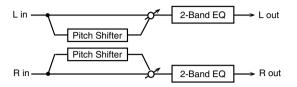
Simulates a sound recorded on an analog record and played back on a record player. This effect also simulates the various types of noise that are typical of a record, and even the rotational irregularities of an old turntable.



Parameter	Value	Description
Signal Distortion	0-127	Depth of distortion
Frequency Range	0–127	Frequency response of the playback system Decreasing this value will produce the im- pression of an old system with a poor fre- quency response.
Disc Type	LP, EP, SP	Rotational speed of the turntable This will affect the frequency of the scratch noise.
Scratch Noise Level	0–127	Amount of noise due to scratches on the record
Dust Noise Lev- el	0–127	Volume of noise due to dust on the record
Hiss Noise Lev- el	0-127	Volume of continuous "hiss"
Total Noise Lev- el #	0-127	Volume of overall noise
Wow	0-127	Depth of long-cycle rotational irregularity
Flutter	0-127	Depth of short-cycle rotational irregularity
Random	0–127	Depth of indefinite-cycle rotational irregularity
Total Wow/ Flutter #	0–127	Depth of overall rotational irregularity
Balance #	D100:0W- D0:100W	Volume balance between the direct sound (D) and the effect sound (W)
Level	0-127	Output level

61: PITCH SHIFTER (Feedback Pitch Shifter)

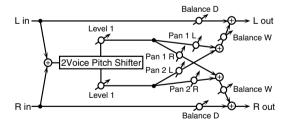
A stereo pitch shifter.



Parameter	Value	Description
Coarse #1	-24- +12 semi	Adjusts the pitch of the pitch shifted sound in semitone steps.
Fine #1	-100- +100 cent	Adjusts the pitch of the pitch shifted sound in 2-cent steps.
Delay Time	0-1300 ms, note	Adjusts the delay time from the direct sound until the pitch shifted sound is heard.
Feedback #	-98- +98%	Adjusts the proportion of the pitch shifted sound that is fed back into the effect. Negative (-) settings will invert the phase.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the pitch shifted sound (W)
Level	0-127	Output Level

62: 2VOI PCH SHIFTER (2VOICE PITCH SHIFTER)

Shifts the pitch of the original sound. This 2-voice pitch shifter has two pitch shifters, and can add two pitch shifted sounds to the original sound.

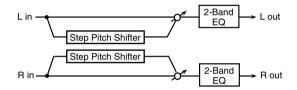


Parameter	Value	Description
Pitch 1: Coarse #1	-24-+12 semi	Adjusts the pitch of Pitch Shift 1 in semitone steps.
Pitch 1:Fine #1	-100-+100 cent	Adjusts the pitch of Pitch Shift Pitch 1 in 2-cent steps.
Pitch 1:Delay	0-1300 ms, note	Adjusts the delay time from the direct sound until the Pitch Shift 1 sound is heard.
Pitch 1:Feedback#	-98- +98%	Adjusts the proportion of the pitch shifted sound that is fed back into the effect. Negative (-) settings will invert the phase.
Pitch 1:Pan #	L64-63R	Stereo location of the Pitch Shift 1 sound
Pitch 1:Level	0–127	Volume of the Pitch Shift1 sound

Parameter	Value	Description
Pitch 2: Coarse #2	-24-+12 semi	
Pitch 2:Fine #2	-100-+100 cent	Settings of the Pitch Shift 2
Pitch 2:Delay	0-1300 ms, note	sound.
Pitch 2:Feedback #	-98- +98%	The parameters are the same as for the Pitch Shift 1 sound.
Pitch 2:Pan #	L64-63R	
Pitch 2:Level	0–127	
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Level Balance	A100:0B-A0:100B	Volume balance between the Pitch Shift 1 and Pitch Shift 2 sounds
Balance	D100:0W-D0:100W	Volume balance between the direct sound (D) and the pitch shifted sound (W)
Level	0-127	Output Level

63: STEP PCH SHIFTER (STEP PITCH SHIFTER)

A pitch shifter in which the amount of pitch shift is varied by a 16-step sequence.



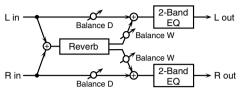
Parameter	Range	Explanation
Step 01-16	-24-+12 semi	Amount of pitch shift at each step (semitone units)
Rate #	0.05-10.00 Hz, note	Rate at which the 16-step sequence will cycle
Attack #	0–127	Speed at which the amount of pitch shift changes between steps
Gate Time #	0–127	Duration of the pitch shifted sound at each step
Fine	-100- +100 cent	Pitch shift adjustment for all steps (2-cent units)
Delay Time	0–1300 ms, note	Delay time from the original sound until the pitch-shifted sound is heard
Feedback #	-98- +98%	Proportion of the pitch-shifted sound that is to be returned to the input (negative values invert the phase)
Low Gain	-15- +15 dB	Amount of boost/cut for the low- frequency range
High Gain	-15- +15 dB	Amount of boost/cut for the high-frequency range
Balance #	D100:0W-D0:100W	Volume balance of the original sound (D) and pitch-shifted sound (W)
Level	0-127	Output volume

MEMO

You can use multi-effect control to make the step sequence play again from the beginning (p. 193).

64: REVERB

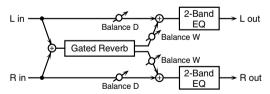
Adds reverberation to the sound, simulating an acoustic space.



Parameter	Value	Description
Туре	ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2	Type of reverb ROOM1: dense reverb with short decay ROOM2: sparse reverb with short decay STAGE1: reverb with greater late reverberation STAGE2: reverb with strong early reflections HALL1: reverb with clear rever- berance HALL2: reverb with rich rever- berance
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the reverb sound is heard.
Time #	0–127	Time length of reverberation
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which the reverberant sound will be cut. As the frequency is set lower, more of the high frequencies will be cut, resulting in a softer and more muted reverberance. If you do not want to cut the high frequencies, set this parameter to BYPASS.
Low Gain	-15- +15 dB	Gain of the low range
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the reverb sound (W)
Level	0-127	Output Level

65: GATED REVERB

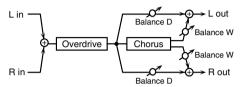
This is a special type of reverb in which the reverberant sound is cut off before its natural length.



Parameter	Value	Description
Туре	NORMAL, REVERSE, SWEEP1, SWEEP2	Type of reverb NORMAL: conventional gated reverb REVERSE: backwards reverb SWEEP1: the reverberant sound moves from right to left SWEEP2: the reverberant sound moves from left to right
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the reverb sound is heard.
Gate Time	5-500 ms	Adjusts the time from when the reverb is heard until it disappears.
Low Gain	-15- +15 dB	Gain of the low range

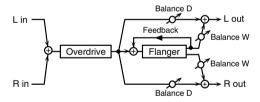
Parameter	Value	Description
High Gain	-15- +15 dB	Gain of the high range
Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the reverb sound (W)
Level #	0-127	Output Level

66: OD → CHORUS (OVERDRIVE → CHORUS)



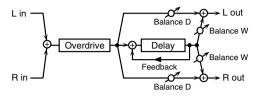
Parameter	Value	Description
Od Drive #	0–127	Degree of distortion Also changes the volume.
Od Pan #	L64-63R	Stereo location of the overdrive sound
Cho Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Cho Rate #	0.05-10.00 Hz, note	Frequency of modulation
Cho Depth	0–127	Depth of modulation
Cho Balance #	D100:0W-D0:100W	Adjusts the volume balance be- tween the sound that is sent through the chorus (W) and the sound that is not sent through the chorus (D).
Level	0–127	Output Level

67: OD → FLANGER (OVERDRIVE → FLANGER)



Parameter	Value	Description
Od Drive #	0–127	Degree of distortion Also changes the volume.
Od Pan #	L64-63R	Stereo location of the overdrive sound
Fln Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.
Fln Rate #	0.05-10.00 Hz, note	Frequency of modulation
Fln Depth	0–127	Depth of modulation
Fln Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.
Fin Balance #	D100:0W-D0:100W	Adjusts the volume balance be- tween the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D).
Level	0–127	Output Level

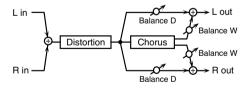
68: OD → DELAY (OVERDRIVE → DELAY)



Parameter	Value	Description
Od Drive #	0–127	Degree of distortion Also changes the volume.
Od Pan #	L64-63R	Stereo location of the overdrive sound
Delay Time	0-2600 ms, note	Adjusts the delay time from the direct sound until the delay sound is heard.
Delay Feedback #	-98- +98%	Adjusts the proportion of the de- lay sound that is fed back into the effect. Negative (-) settings will invert the phase.
Delay HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.
Delay Balance #	D100:0W-D0:100W	Adjusts the volume balance be- tween the sound that is sent through the delay (W) and the sound that is not sent through the delay (D).
Level	0–127	Output Level

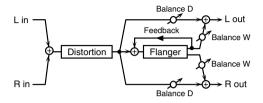
69: DST → CHORUS (DISTORTION → CHORUS)

The parameters are essentially the same as in "66: OD \rightarrow CHORUS," with the exception of the following two. OD Drive \rightarrow Dst Drive, OD Pan \rightarrow Dst Pan



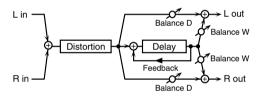
70: $DST \rightarrow FLANGER$ (DISTORTION \rightarrow FLANGER)

The parameters are essentially the same as in "67: OD \rightarrow FLANGER," with the exception of the following two. OD Drive \rightarrow Dst Drive, OD Pan \rightarrow Dst Pan

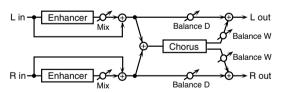


71: $DST \rightarrow DELAY$ (DISTORTION $\rightarrow DELAY$)

The parameters are essentially the same as in "68: OD \rightarrow DELAY," with the exception of the following two. OD Drive \rightarrow Dst Drive, OD Pan \rightarrow Dst Pan

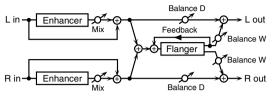


72: $ENH \rightarrow CHORUS$ (ENHANCER \rightarrow CHORUS)



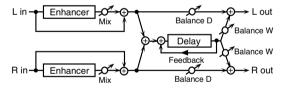
Parameter	Value	Description
Enh Sens #	0–127	Sensitivity of the enhancer
Enh Mix #	0–127	Level of the overtones generated by the enhancer
Cho Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Cho Rate #	0.05–10.00 Hz, note	Frequency of modulation
Cho Depth	0-127	Depth of modulation
Cho Balance #	D100:0W- D0:100W	Adjusts the volume balance between the sound that is sent through the cho- rus (W) and the sound that is not sent through the chorus (D).
Level	0–127	Output Level

73: ENHANCER → FLANGER (ENH → FLANGER)



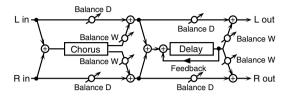
Parameter	Value	Description	
Enh Sens #	0–127	Sensitivity of the enhancer	
Enh Mix #	0–127	Level of the overtones generated by the enhancer	
Fln Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.	
Fln Rate #	0.05-10.00 Hz, note	Frequency of modulation	
Fln Depth	0-127	Depth of modulation	
Fln Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.	
Fln Balance #	D100:0W- D0:100W	Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D).	
Level	0-127	Output Level	

74: $ENH \rightarrow DELAY$ (ENHANCER \rightarrow DELAY)



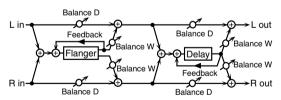
Parameter	Value	Description	
Enh Sens #	0–127	Sensitivity of the enhancer	
Enh Mix #	0–127	Level of the overtones generated by the enhancer	
Delay Time	0-2600 ms, note	Adjusts the delay time from the direct sound until the delay sound is heard.	
Delay Feedback #	-98- +98%	Adjusts the proportion of the de- lay sound that is fed back into the effect. Negative (-) settings will invert the phase.	
Delay HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.	
Delay Balance #	D100:0W-D0:100W	Adjusts the volume balance be- tween the sound that is sent through the delay (W) and the sound that is not sent through the delay (D).	
Level	0–127	Output Level	

75: CHORUS → DELAY



Parameter	Value	Description	
Cho Pre Delay	0.0-100.0 ms	Adjusts the delay time from the di- rect sound until the chorus sound is heard.	
Cho Rate #	0.05-10.00 Hz, note	Frequency of modulation	
Cho Depth	0-127	Depth of modulation	
Cho Balance #	D100:0W-D0:100W	Volume balance between the di- rect sound (D) and the chorus sound (W)	
Delay Time	0-2600 ms, note	Adjusts the delay time from the direct sound until the delay sound is heard.	
Delay Feedback #	-98- +98%	Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase.	
Delay HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.	
Delay Balance #	D100:0W-D0:100W	Adjusts the volume balance be- tween the sound that is sent through the delay (W) and the sound that is not sent through the delay (D).	
Level	0–127	Output Level	

76: FLANGER → DELAY

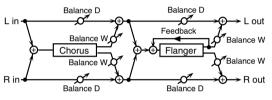


Parameter Value		Description	
Fln Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.	
Fln Rate #	0.05-10.00 Hz, note	Frequency of modulation	
Fln Depth	0–127	Depth of modulation	
Fln Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.	
Fln Balance #	Volume balance between rect sound (D) and the flat sound (W)		
Delay Time 0–2600 ms, note		Adjusts the delay time from the direct sound until the delay sound is heard.	

Effects List

Parameter	Value	Description	
Delay Feedback #	-98– +98%	Adjusts the proportion of the de- lay sound that is fed back into the effect. Negative (-) settings will in- vert the phase.	
Delay HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.	
Delay Balance #	D100:0W-D0:100W	Adjusts the volume balance between the sound that is sent through the de- lay (W) and the sound that is not sent through the delay (D).	
Level	0-127	Output Level	

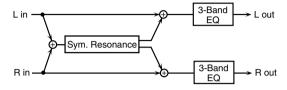
77: CHORUS → FLANGER



Parameter	Value	Description	
Cho Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.	
Cho Rate #	0.05-10.00 Hz, note	Modulation frequency of the chorus effect	
Cho Depth	0–127	Modulation depth of the chorus effect	
Cho Balance #	D100:0W-D0:100W	Volume balance between the direct sound (D) and the chorus sound (W)	
Fln Pre Delay	0.0-100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.	
Fln Rate #	0.05-10.00 Hz, note	Modulation frequency of the flanger effect	
Fln Depth	0–127	Modulation depth of the flanger effect	
Fln Feedback #	-98- +98%	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.	
Fln Balance #	D100:0W-D0:100W	Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D).	
Level	0–127	Output Level	

78: SYMPATHETIC RESO (SYMPATHETIC RESONANCE)

On an acoustic piano, holding down the damper pedal allows other strings to resonate in sympathy with the notes you play, creating rich and spacious resonances. This effect simulates these sympathetic resonances.



Parameter	Range	Explanation	
Depth #	0-127	Depth of the effect	
Damper #	0–127	Depth to which the damper pedal is pressed (controls the resonant sound)	
Pre LPF	16–15000 Hz, BYPASS	Frequency of the filter that cuts the high-frequency content of the input sound (BYPASS: no cut)	
Pre HPF	BYPASS, 16–15000 Hz	Frequency of the filter that cuts the low-frequency content of the input sound (BYPASS: no cut)	
Peaking Freq	200–8000 Hz	Frequency of the filter that boosts/ cuts a specific frequency region of the input sound	
Peaking Gain	-15- +15 dB	Amount of boost/cut produced by the filter at the specified frequency region of the input sound	
Peaking Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the frequency region boosted/cut by the 'Peaking Gain' parameter (larger values make the region narrower)	
HF Damp	16–15000 Hz, BYPASS	Frequency at which the high-fre- quency content of the resonant sound will be cut (BYPASS: no cut)	
LF Damp	BYPASS, 16–15000 Hz	Frequency at which the low-frequency content of the resonant sound will be cut (BYPASS: no cut)	
Lid	1–6	This simulates the actual changes in sound that occur when the lid of a grand piano is set at different heights.	
EQ Low Freq	200, 400 Hz	Frequency of the low-range EQ	
EQ Low Gain	-15- +15 dB	Amount of low-range boost/cut	
EQ Mid Freq	200–8000 Hz	Frequency of the midrange EQ	
EQ Mid Gain	-15- +15 dB	Amount of midrange boost/cut	
EQ Mid Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of midrange (larger values make the region narrower)	
EQ High Freq	2000, 4000, 8000 Hz	Frequency of the high-range EQ	
EQ High Gain	-15-+15 dB	Amount of high-range boost/cut	
Level	0-127	Output Level	

Chorus Parameters

The SonicCell's Chorus effect unit can also be used as a stereo delay unit.

These settings allow you to select chorus or delay, and the characteristics of the selected effect type.

_		I=		
Parameter	Value	Description		
Chorus Type	0 (OFF), 1 (CHORUS), 2 (DELAY), 3 (GM2 CHORUS)	Selects either Chorus or Delay. 0 (OFF): Neither Chorus or Delay is used. 1 (CHORUS): Chorus is used. 2 (DELAY): Delay is used. 3 (GM2 CHORUS): GM2 Chorus is used.		
01: CHORU	JS			
Rate	0.05-10.00 Hz, note	Frequency of modulation		
Depth	0-127	Depth of modulation		
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.		
Feedback	0–127	Adjusts the amount of the chorus sound that is fed back into the effect.		
Filter Type	OFF, LPF, HPF	Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range be- low the Cutoff Freq		
Cutoff Freq	200-8000 Hz	Basic frequency of the filter		
Phase	0-180°	Spatial spread of the sound		
02: DELAY				
Delay Left		Adjusts the delay time from the direct		
Delay Right	0-1000 ms, note	sound until the delay sound is heard.		
Delay Center				
Center Feed- back	-98-+98%	Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase.		
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high fre- quencies, set this parameter to BY- PASS.		
Left Level Right Level Center Level	0–127	Volume of each delay sound		
03: GM2 CHORUS				
		Cuts the high frequency range of the		
Pre-LPF	0–7	Sound coming into the chorus. Higher values will cut more of the high frequencies.		
Level	0–127	Volume of the chorus sound		
Feedback	0–127	Adjusts the amount of the chorus sound that is fed back into the effect.		
Delay	0–127	Adjusts the delay time from the direct sound until the chorus sound is heard.		
Rate	0–127	Frequency of modulation		
Depth	0–127	Depth of modulation		
Send Level To Reverb	0–127	Adjusts the amount of chorus sound that will be sent to the reverb.		

NOTE

If you specify the delay time as a note value, slowing down the tempo will not change the delay time beyond a certain length. This is because there is an upper limit for the delay time; if the delay time is specified as a note value and you slow down the tempo until this upper limit is reached, the delay time cannot change any further. This upper limit is the maximum value that can be specified when setting the delay time as a numerical value.

note:

\Rightarrow_3	Sixty-fourth-note triplet	4	Sixty-fourth note	\mathbb{N}_3	Thirty-second-note triplet
A	Thirty-second note	\mathbb{A}_3	Sixteenth-note triplet	M.	Dotted thirty-second note
Ą	Sixteenth note	$ ho_3$	Eighth-note triplet	A	Dotted sixteenth note
)	Eighth note	-3	Quarter-note triplet	Þ.	Dotted eighth note
J	Quarter note	23	Half-note triplet	_	Dotted quarter note
J	Half note	03	Whole-note triplet	-0	Dotted half note
0	Whole note	lioli3	Double-note triplet	o	Dotted whole note
lioli	Double note				

Reverb Parameters

These settings allow you to select the desired type of reverb, and its characteristics.

Parameter	Value	Description		
Reverb Type	0 (OFF), 1 (REVERB), 2 (SRV ROOM), 3 (SRV HALLI), 4 (SRV PLATE), 5 (GM2 REVERB)	Type of reverb O (OFF): Reverb is not used. 1 (REVERB): Normal reverb 2 (SRV ROOM): This simulates typical room acoustic reflections. 3 (SRV HALL): This simulates typical concert hall acoustic reflections. 4 (SRV PLATE): This simulates a reverb plate, a popular type of artificial reverb unit that derives its sound from the vibration of a metallic plate. 5 (GM2 REVERB): GM2 Reverb		
01: REV	ERB			
Туре	ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY	Type of reverb/delay ROOM1: short reverb with high density ROOM2: short reverb with low density STAGE1: reverb with greater late reverberation STAGE2: reverb with strong early reflections HALL1: very clear-sounding reverb HALL2: rich reverb DELAY: conventional delay effect PAN-DELAY: delay effect with echoes that pan left and right		
Time	0–127	Time length of reverberation (Type: ROOM1-HALL2) Delay time (Type: DELAY, PAN-DELAY)		
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which the high-fre- quency content of the reverb sound will be cut, or "damped." If you do not want to cut the high frequencies, set this parameter to BYPASS.		
Delay Feedback	0–127	Adjusts the amount of delay feedback when the Type setting is DELAY or PAN-DELAY. Amount of delay sound returned to the input (this setting is valid only if Type is DELAY or PAN-DELAY)		
03: SRV	02: SRV ROOM 03: SRV HALL 04: SRV PLATE			
Pre Delay	0.0-100.0 ms	Adjusts the delay time from the direct sound until the reverb sound is heard.		
Time	0–127	Time length of reverberation		
Size High Cut	1-8 160 Hz-12.5 kHz, BYPASS	Size of the simulated room or hall Adjusts the frequency above which the high- frequency content of the reverb will be re- duced. If you do not want to reduce the high frequencies, set this parameter to BYPASS.		
Density	0-127	Density of reverb		
Diffusion	0–127	Adjusts the change in the density of the reverb over time. The higher the value, the more the density increases with time. (The effect of this setting is most pronounced with long reverb times.)		
LF Damp Freq	50–4000 Hz	Adjusts the frequency below which the low-fre- quency content of the reverb sound will be re- duced, or "damped."		
LF Damp Gain	-36–0 dB	Adjusts the amount of damping applied to the frequency range selected with LF Damp. With a setting of "0," there will be no reduction of the reverb's low-frequency content.		
HF Damp Freq	4000 Hz–12.5 kHz	Adjusts the frequency above which the high- frequency content of the reverb sound will be reduced, or "damped."		
HF Damp Gain	-36–0 dB	Adjusts the amount of damping applied to the frequency range selected with HF Damp. With a setting of "O," there will be no reduction of the reverb's high-frequency content.		

Parameter	Value Description		
05: GM	05: GM2 REVERB		
Character	0–7	Type of reverb 0–5: reverb 6, 7: delay	
Pre-LPF	0–7 Cuts the high frequency range of the sol coming into the reverb. Higher values will cut more of the hig quencies.		
Level	0-127	Output level of reverberation	
Time	0-127	Time length of reverberation	
Delay Feedback	0–127	Adjusts the amount of the delay sound that is fed back into the effect when the Reverb Character setting is 6 or 7.	

Input Effect Parameters

Selects the type of effect that will be applied to the external input source.

01: EQUALIZER

Adjusts the tone of the low-frequency and high-frequency ranges.

Parameter	Range	Explanation
Low Freq	200, 400 Hz	Center frequency of the low-frequency range
Low Gain	-15-+15 dB	Amount of low-frequency boost/cut
High Freq	2000, 4000, 8000 Hz	Center frequency of the high-frequency range
High Gain	-15-+15 dB	Amount of high-frequency boost/cut

02: ENHANCER

Modifies the harmonic content of the high-frequency range to add sparkle to the sound.

Parameter	Range	Explanation
Sens	0-127	Depth of the enhancer effect
Mix	0-127	Volume of the harmonics that are generated

03: COMPRESSOR

Restrains high levels and boosts low levels to make the overall volume more consistent.

Parameter	Range	Explanation
Attack	0–127	Time from when the input exceeds the Threshold until the volume begins to be compressed
Threshold	0-127	Volume level at which compression will begin
Post Gain	0-+18 dB	Level of the output sound

04: LIMITER

Compresses the sound when it exceeds a specified volume, to keep distortion from occurring.

Parameter	Range	Explanation
Release	0–127	Time from when the input falls below the Threshold until compression ceases
Threshold	0–127	Volume level at which compression will begin
Post Gain	0-+18 dB	Level of the output sound

05: NOISE SUPPRESSOR

Suppresses noise during periods of silence.

Parameter	Range	Explanation
Threshold	0–127	Volume at which noise suppression will begin
Release	0–127	Time from when noise suppression begins until the volume reaches zero.

06: CENTER CANCELER

Removes the sounds that are localized at the center of the stereo input. This is a convenient way to eliminate a vocal.

Parameter	Range	Explanation
Ch Balance	-50- +50	Volume balance of the L (left) and R (right) channels for removing the sound
Range Low	16-15000 Hz	Lower frequency limit of the band to be removed
Range High	16–15000 Hz	Upper frequency limit of the band to be removed

Performance List

USER (USER GROUP)

No	Name	
1	Seq:Template	
2	Seq:Temp 2	
3	Seq:Temp 3	
4	Seq:Temp 4	
5	Seq:Temp 5	
6	Seq:Temp 6	
7	Seq:Temp 7	
8	Seq:Temp 8	
9	Seq:Temp 9	
10	Seq:Temp 10	
11	Seq:Temp 11	
12	Seq:Temp 12	
13	Seq:Temp 13	
14	Seq:Temp 14	
15	Seq:Temp 15	
16	Seq:Temp 16	
1 <i>7</i>	Seq:Temp 17	
18	Seq:Temp 18	
19	Seq:Temp 19	
20	Seq:Temp 20	
21	Seq:Temp 21	
22	Seq:Temp 22	
23	Seq:Temp 23	
24	Seq:Temp 24	
25	Seq:Temp 25	
26	Seq:Temp 26	
27	Seq:Temp 27	
28	Seq:Temp 28	
29	Seq:Temp 29	
30	Seq:Temp 30	
31	Seq:Temp 31	
32	Seq:Temp 32	

No	Name
33	GM2 Template
34	SuperRichPNO
35	Bs/Piano
36	Brite Piano
3 <i>7</i>	CrystalGrand
38	SuperPhaseEP
39	D50 Memories
40	RockOrg
41	Delicate
42	SuperStrings
43	Braves
44	Orchestral
45	Sonic
46	Pole
47	Twilight
48	3AM
49	Ocean
50	Jupiters
51	Blizzard
52	
53	Buzz
54	80s
55	TripTo80s
56	80s Stack
57	AutoNoise
58	World Lead
59	XyloSawLead
60	WoodyFltLd
61	Saturn
62	Tale
63	Synchronize
64	Gramophone

PRST(PRESET GROUP)

No	Name
1	Seq:Template
2	Seq:Temp 2
3 4	Seq:Temp 3
	Seq:Temp 4
5	Seq:Temp 5
6	Seq:Temp 6
7	Seq:Temp 7
8	Seq:Temp 8
9	Seq:Temp 9
10	Seq:Temp 10
11	Seq:Temp 11
12	Seq:Temp 12
13	Seq:Temp 13
14	Seq:Temp 14
15	Seq:Temp 15
16	Seq:Temp 16
17	Seq:Temp 17
18	Seq:Temp 18
19	Seq:Temp 19
20	Seq:Temp 20
21	Seq:Temp 21
22	Seq:Temp 22
23	Seq:Temp 23
24	Seq:Temp 24
25	Seq:Temp 25
26	Seq:Temp 26
27	Seq:Temp 27
28	Seq:Temp 28
29	Seq:Temp 29
30	Seq:Temp 30
31	Seq:Temp 31
32	Seq:Temp 32

No	Name
33	GM2 Template
34	· · P · · · · · · · · · · · · · · · · ·
35	• •
36	Brite Piano
37	
38	
39	
40	
41	Delicate
42	
43	
	Orchestral
	Sonic
	Pole
47	Twilight
48	
	Ocean
50	4 · [· · ·
51	
52	
53	
	80s
55	F 1 1 1 1
	80s Stack
	AutoNoise
58	World Lead
59	
60	/
61	
62 63	
	Synchronize
64	Gramophone

Patch List

USER(User Group)

User 1-128 (CC#0 = 87, CC#32 = 0) User129-256 (CC#0 = 87, CC#32 = 1)

No	Name	Category	Voice
1	Rich Grand	AC.PIANO	2
2	JD-800 Piano	AC.PIANO	1
3	Stage Phazer	EL.PIANO	2
4	Lounge Kit	COMBINATION	2
5	SC Trem Wuly	EL.PIANO	1
6	FM-777	EL.PIANO	5
7	SA EPiano	EL.PIANO	3
8	HardRockORG1	ORGAN	4
9	Rocky Organ	ORGAN	2
10	FullStop Org	ORGAN	3
11	R&B Organ 2	ORGAN	4
12	X Perc Organ	ORGAN	3
13	Smoky Organ	ORGAN	1
14	Crummy Organ	ORGAN	2
15	Chapel Organ	ORGAN	2
16	Mid Pipe Org	ORGAN	4
1 <i>7</i>	VntgClav	KEYBOARDS	3
18	Phase Clavi	KEYBOARDS	2
19	Funky Line	KEYBOARDS	2
20	Harpsy Clavi	KEYBOARDS	2
21	SonicStrings	STRINGS	8
22		STRINGS	3
23	Wind & Str 1	ORCHESTRA	7
24	Soft Orch 2	ORCHESTRA	7
25	SC Hollow	SOFT PAD	4
26	Heaven Pad	SOFT PAD	3
27	Soft OB Pad	SOFT PAD	3
28	Reso Pad	SOFT PAD	3
29	Slow Saw Str	SOFT PAD	2
30	JP Strings 2	SOFT PAD	5
31	Cell Comb	BRIGHT PAD	3
32	Super SynStr	BRIGHT PAD	2
33	80s Str	BRIGHT PAD	8
34	Polar Night	BRIGHT PAD	4
35	Distant Sun	BRIGHT PAD	4
36	SC Brt Brass	AC.BRASS	4
37	Horny Sax	SAX	2
38	80s Brass 1	SYNTH BRASS	6
39	Juno-106 Brs	SYNTH BRASS	1
40	Poly Brass	SYNTH BRASS	2

No	Name	Category	Voice
41	JP8000 Brass	SYNTH BRASS	6
42	Sonic Brass	SYNTH BRASS	4
43	SuperSawSlow	OTHER SYNTH	2
44	Cell Trance	OTHER SYNTH	3
45	Trancy Synth	OTHER SYNTH	2
46	Stacc Heaven	OTHER SYNTH	4
47	Sugar Synth	OTHER SYNTH	5
48	Himalaya Ice	BELL	2
49		BELL	4
50	Synergy MLT	MALLET	2
51	AirPluck	MALLET	4
52	SC Marimba	MALLET	1
	Cmp'd Fng Bs	BASS	3
	FingerMaster	BASS	2
55	Return2Base!	BASS	1
	Chicken Bass	BASS	3
57	SC Fretnot 1	BASS	2
	Got Pop?	BASS	1
59	Sonic Ac Bs	BASS	1
60	Low Bass	SYNTH BASS	3
61	Foundation	SYNTH BASS	2
62		SYNTH BASS	3
63		SYNTH BASS	2
64	SC GarageBs2	SYNTH BASS	2
65	SC AcidPunch	SYNTH BASS	2
66	Loco Voco	SYNTH BASS	2
	VirtualHuman	PULSATING	4
68	Strobot	PULSATING	2
69		PULSATING	4
_	HPF Slicer	PULSATING	3
	Choir Aahs 1	VOX	4
	Choir Aahs 2	VOX	4
	Angels Choir	VOX	4
74	. / .	VOX	4
75	Choir&Str	VOX	7
	Terra Nostra	SOFT PAD	8
	Aah Vox	VOX	2
	Cell SquLead	SOFT LEAD	4
79		SOFT LEAD	3
80	Windy Synth	SOFT LEAD	3

No	Name	Category	Voice
81	Sinetific	SOFT LEAD	2
82	SoloNzPeaker	SOFT LEAD	1
83	Juno SftLd	SOFT LEAD	1
84	R&B TriLead	SOFT LEAD	1
85	X-Pulse Lead	SOFT LEAD	2
86	Theramax	SOFT LEAD	1
87	GR Lead	SOFT LEAD	2
88	Chubby Lead	SOFT LEAD	2
89	Shaku Lead	SOFT LEAD	5
90	Porta SoloLd	HARD LEAD	2
91	Wind Syn Ld	HARD LEAD	2
92	Follow Me	HARD LEAD	2
93	SC Saw Ld 1	HARD LEAD	2
94	Sync Ld Mono	HARD LEAD	1
95	SC Brt Nylon	AC.GUITAR	1
96	So good!	AC.GUITAR	2
97	SC 12str Gtr	AC.GUITAR	3
98	Jazz Guitar	EL.GUITAR	1
99	Strat Gtr	EL.GUITAR	1
	Trem-o-Vibe	DIST.GUITAR	2
101	Searing COSM	DIST.GUITAR	2
102	Larsen /Aft	DIST.GUITAR	2
103	SC Loud Gtr	DIST.GUITAR	3
104	Sitar on C	PLUCKED	6
105	Pat is away	PLUCKED	5
106	Bosporus	PLUCKED	3
	Aerial Harp	PLUCKED	2
	Nice Kalimba	PLUCKED	1
	SC Flute	FLUTE	2
110	Andes Mood	FLUTE	1
	LongDistance	ETHNIC	1
	Ambi Shaku	ETHNIC	3
	Soprano Sax	SAX	1
	Solo AltoSax	SAX	1
	XP TnrBrethy	SAX	1
	Good Old Day	WIND	3
	BluesHrp V/S	HARMONICA	1
	Squeeze Me!	ACCRDION	4
	Solo Tp	AC.BRASS	2
120	SC Violin	STRINGS	1

No	PatchName	PatchCategory \	/oice
121	SC Cello	STRINGS	1
122	Juno-D Maj7	TECHNO SYNTH	4
123	Sweet House	TECHNO SYNTH	4
124	ElectroDisco	BEAT&GROOVE	5
125	Groove 007	BEAT&GROOVE	4
126	Autotrance	BEAT&GROOVE	4
127	Compusonic 2	BEAT&GROOVE	4
128	Passing by	SYNTH FX	4

User129-256: "INIT PATCH"

PR-A (Preset A Group)

(CC#0 = 87, CC#32 = 64)

No	Name	Category	Voice	(Preset#)
1	Rich Grand	AC.PIANO	2	PR-A001
2	88ConcertPno	AC.PIANO	2	PR-A002
3	UltimatGrand	AC.PIANO	2	PR-A003
4	X Pure Grand	AC.PIANO	2	PR-A004
5	So true	AC.PIANO	2	PR-A005
6	ConcertPiano	AC.PIANO	3	PR-A006
7	Warm Piano	AC.PIANO	2	PR-A007
8	ConcertGrand	AC.PIANO	2	PR-A008
9	Hall Concert	AC.PIANO	2	PR-A009
10	Bright Tune	AC.PIANO	2	PR-A010
11	Mellow Tune	AC.PIANO	2	PR-A011
12	Studio Grand	AC.PIANO	2	PR-A012
13	DryStudio88	AC.PIANO	4	PR-A013
14	First Choice	AC.PIANO	2	PR-A014
15	Rokkin' pF	AC.PIANO	2	PR-A015
16	Dark Grand	AC.PIANO	4	PR-A016
1 <i>7</i>	SC Grand+Pad	AC.PIANO	4	PR-A017
18	Warm Pad Pno	AC.PIANO	4	PR-A018
19	SC Grand+Vox	AC.PIANO	4	PR-A019
20	Cicada Piano	AC.PIANO	4	PR-A020
21	X Piano +Str	AC.PIANO	4	PR-A021
22	Warm Str Pno	AC.PIANO	6	PR-A022
23	Grand Hall	AC.PIANO	5	PR-A023
24	Rapsody	AC.PIANO	7	PR-A024
25	JD-800 Piano	AC.PIANO	1	PR-A025
26	SA Dance Pno	AC.PIANO	2	PR-A026
27	SC E-Grand	AC.PIANO	4	PR-A027
28	Back E-Grand	AC.PIANO	2	PR-A028
29	SC Grand+FM	AC.PIANO	4	PR-A029
30	SC Blend Pno	AC.PIANO	5	PR-A030
31	Piano Oz	AC.PIANO	4	PR-A031
32	FX Piano	AC.PIANO	4 4	PR-A032
33	AmbientPiano	AC.PIANO	1	PR-A033
34	SC Pure EP	EL.PIANO	i	PR-A034
35	SC Trem EP	EL.PIANO		PR-A035
36 37	SC Phase EP	EL.PIANO	1 3	PR-A036
	PhaseEPLayer	EL.PIANO		PR-A037
38 39	SC E.Piano	EL.PIANO	5 2	PR-A038
39 40	StageEP Trem Back2the60s	El.PIANO El.PIANO	2	PR-A039 PR-A040
41	Stage EP	EL.PIANO	4	PR-A041
42	Stage Phazer	EL.PIANO	2	PR-A042
43	StageCabinet	EL.PIANO	2	PR-A043
43	Tine EP	EL.PIANO	1	
45	LEO EP	EL.PIANO	4	PR-A044 PR-A045
46	LonesomeRoad	EL.PIANO	2	PR-A046
47	Age'n'Tines	EL.PIANO	2	PR-A047
48	Brill TremEP	EL.PIANO	2	PR-A048
49	Crystal EP	EL.PIANO	2	PR-A049
50	Vintage Tine	EL.PIANO	1	PR-A050
51	Celestial EP	EL.PIANO	4	PR-A051
52	Psycho EP	EL.PIANO	4	PR-A052
53	Mk2 Stg phsr	EL.PIANO	3	PR-A053
54	Dreaming EP	EL.PIANO	4	PR-A054
55	Balladeer	EL.PIANO	3	PR-A055
56	Remember	EL.PIANO	2	PR-A056
57	Vibe EP	EL.PIANO	1	PR-A057
58	sin(EP)	EL.PIANO	2	PR-A058
59	SC Pure Wuly	EL.PIANO	ī	PR-A059
60	SC Trem Wuly	EL.PIANO	1	PR-A060
61	Super Wurly	EL.PIANO	3	PR-A061
62	Wurly Trem	EL.PIANO	3	PR-A062
63	VelSpdWurly	EL.PIANO	2	PR-A063
64	Fonky Fonky	EL.PIANO	2	PR-A064

No	Name	Category	Voice	(Preset#)
65	FM EP mix	EL.PIANO	6	PR-A065
66	FM-777	EL.PIANO	5	PR-A066
67	FM EPad	EL.PIANO	3	PR-A067
68	EP Stack	EL.PIANO	4	PR-A068
69	EP Belle	EL.PIANO	3	PR-A069
70	80s EP	EL.PIANO	4	PR-A070
71	SA EPiano	EL.PIANO	3	PR-A071
72	BrillClav DB	KEYBOARDS	2	PR-A072
73	Cell Clav	KEYBOARDS	1	PR-A073
74	VntgClav	KEYBOARDS	3	PR-A074
75 74	Cutter Clavi	KEYBOARDS	2 2	PR-A075
76 77	Funky D Phase Clavi	KEYBOARDS KEYBOARDS	2	PR-A076 PR-A077
78	BPF Clavi Ph	KEYBOARDS	2	PR-A078
<i>7</i> 9	Pulse Clavi	KEYBOARDS	2	PR-A079
80	PWM Clav	KEYBOARDS	1	PR-A080
81	Funky Line	KEYBOARDS	2	PR-A081
82	Biting Clav	KEYBOARDS	2	PR-A082
83	Analog Clavi	KEYBOARDS	1	PR-A083
84	Reso Clavi	KEYBOARDS	2	PR-A084
85	Snappy Clav	KEYBOARDS	2	PR-A085
86	Over-D6	KEYBOARDS	3	PR-A086
87	Harpsy Clavi	KEYBOARDS	2 4	PR-A087
88 89	SC Harpsi Amadeus	KEYBOARDS KEYBOARDS	8	PR-A088 PR-A089
90	SC Celesta	KEYBOARDS	1	PR-A090
				_
91 92	Himalaya Ice	BELL	2 4	PR-A091
93	FM Syn Bell D-50 Fantsia	BELL BELL	3	PR-A092 PR-A093
94	Wine Glass	BELL	4	PR-A094
95	MuBox Pad	BELL	4	PR-A095
96	SC Bell 1	BELL	4	PR-A096
97	FM Heaven	BELL	4	PR-A097
98	SC Glocken	BELL	1	PR-A098
99	Music Bells	BELL	2	PR-A099
100	SC Musicbox	BELL	1	PR-A100
101	Music Box 2	BELL	2	PR-A101
102	Kalimbells	BELL	2	PR-A102
103 104	Step Ice SC Bell 2	BELL BELL	4 2	PR-A103 PR-A104
105	Candy Bell	BELL	2	PR-A105
106	SC Chime	BELL	ī	PR-A106
107	Bell Ring	BELL	4	PR-A107
108	Tubular Bell	BELL	1	PR-A108
109	5th Key	BELL	2	PR-A109
110	Bell Monitor	BELL	2	PR-A110
111	TubyRuesday	BELL	2	PR-A111
112	Vibrations	MALLET	2	PR-A112
113	SC Vibe	MALLET	1	PR-A113
114	Ringy Vibes	MALLET	2	PR-A114
115 116	Airie Vibez SC Marimba	MALLET MALLET	4 1	PR-A115 PR-A116
117	FM Wood	MALLET	4	PR-A117
118	SC Xylo	MALLET	1	PR-A118
119	Ethno Keys	MALLET	2	PR-A119
120	Synergy MLT	MALLET	2	PR-A120
121	Icy Keys	MALLET	4	PR-A121
122	Steel Drums	MALLET	2	PR-A122
123	50`SteelDrms	MALLET	4	PR-A123
124	Xylosizer	MALLET	2	PR-A124
125	Toy Box	MALLET	3	PR-A125
126	AirPluck	MALLET	4	PR-A126
127 128	HardRockORG1 HardRockORG2	ORGAN ORGAN	4 5	PR-A127 PR-A128
120	i idi di d	CKOAIN	J	1177120

PR-B (Preset B Group)

(CC#0 = 87, CC#32 = 65)

No	Name	Category	Voice	(Preset#)
129	SuperDistORG	ORGAN	4	PR-B001
130	SuperDistLd2	ORGAN	4	PR-B002
131	FullDraw Org	ORGAN	3	PR-B003
132	StakDraw Org	ORGAN	4	PR-B004
133	FullStop Org	ORGAN	3	PR-B005
134	SC Perc Org	ORGAN	4	PR-B006
135	VKHold4Speed	ORGAN	4 3	PR-B007
136 137	X Perc Organ Rocky Organ	ORGAN ORGAN	2	PR-B008 PR-B009
138	Euro Organ	ORGAN	2	PR-B010
139	Rhythm'n'B	ORGAN	4	PR-BO11
140	Phono Organ	ORGAN	2	PR-B012
141	LoFi PercOrg	ORGAN	1	PR-B013
142	Rochno Org	ORGAN	4	PR-B014
143 144	R&B Organ 1	ORGAN	2 4	PR-B015
144	R&B Organ 2 SC Dist Bee	ORGAN ORGAN	1	PR-B016 PR-B01 <i>7</i>
146	60's Org 1	ORGAN	2	PR-B018
147	60's Org 2	ORGAN	2	PR-B019
148	Smoky Örgan	ORGAN	1	PR-B020
149	SC SoapOpera	ORGAN	1	PR-B021
150	Crummy Organ	ORGAN	2	PR-B022
151	Chapel Organ	ORGAN	2	PR-B023
152	Grand Pipe	ORGAN	3	PR-B024
153	Pipe Org/Mod	ORGAN	6	PR-B025
154 155	Masked Opera Mid Pipe Org	ORGAN ORGAN	6 4	PR-B026 PR-B027
156	Vodkakordion	ACCRDION	3	PR-B028
157	Squeeze Me!	ACCRDION	4	PR-B029
158	Guinguette	ACCRDION	3	PR-B030
159	HarWonderca	HARMONICA	2	PR-BO31
160	BluesHrp V/S	HARMONICA	1	PR-B032
161	Green Bullet	HARMONICA	2	PR-B033
162	SC Brt Nylon	AC.GUITAR	1 2	PR-B034
163 164	SoftNyln Gtr SC Nylon Gt	AC.GUITAR AC.GUITAR	2	PR-B035 PR-B036
165	Wet Nyln Gtr	AC.GUITAR	3	PR-B037
166	Pre Mass Hum	AC.GUITAR	4	PR-BO38
167	Thick Steel	AC.GUITAR	2	PR-B039
168	Uncle Martin	AC.GUITAR	2	PR-BO40
169	Wide Ac Gtr	AC.GUITAR	4	PR-BO41
170	Comp Stl Gtr	AC.GUITAR	2	PR-B042
171	Stl Gtr Duo	AC.GUITAR AC.GUITAR	2	PR-B043
1 <i>7</i> 2 1 <i>7</i> 3	SC 12str Gtr So good !	AC.GUITAR AC.GUITAR	3 2	PR-BO44 PR-BO45
174	StratSeq'nce	EL.GUITAR	3	PR-B046
175	Jazz Guitar	EL.GUITAR	i	PR-BO47
176	DynoJazz Gtr	EL.GUITAR	1	PR-BO48
1 <i>77</i>	Clean Gtr	EL.GUITAR	1	PR-B049
178	Crimson Gtr	EL.GUITAR	2	PR-B050
179	Plug n' Gig	EL.GUITAR	1 2	PR-B051
180	Kinda Kurt	EL.GUITAR		PR-B052
181 182	Nice Oct Gtr Strat Gtr	EL.GUITAR El.GUITAR	2 1	PR-B053 PR-B054
182	Touch Drive	DIST.GUITAR	i	PR-B054 PR-B055
184	SC Chunk	DIST.GUITAR	4	PR-B056
185	Trem-o-Vibe	DIST.GUITAR	2	PR-B057
186	LP Dist	DIST.GUITAR	2	PR-B058
18 <i>7</i>	Hurtling Gtr	DIST.GUITAR	3	PR-B059
188	Searing COSM	DIST.GUITAR	2	PR-B060
189	SC Loud Gtr	DIST.GUITAR	3	PR-B061
190 191	SC Plugged!! Punker 1	DIST.GUITAR DIST.GUITAR	1 2	PR-B062 PR-B063
191	SC PowerChd	DIST.GUITAR DIST.GUITAR	2	PR-B064
			-	

No	Name	Category	Voice	(Preset#)
193	Punker 2	DIST.GUITAR	2	PR-B065
194	Larsen /Aft	DIST.GUITAR	2	PR-B066
195	Rockin' Dly	DIST.GUITAR	3	PR-B067
196	Sonic Ac Bs	BASS	ī	PR-B068
197	Ulti Ac Bass	BASS	2	PR-B069
198	Downright Bs	BASS	3	PR-B070
199	Cmp'd Fng Bs	BASS	3	PR-BO71
200	Sonic Fng Bs	BASS	3	PR-B072
201 202	Ultimo Bass	BASS	2	PR-B073
202	Roomy Bass	BASS BASS	2	PR-B074 PR-B075
203	FingerMaster All Round Bs	BASS	2	PR-B076
205	R&B Bs/Slide	BASS	2	PR-B077
206	Sonic Pck Bs	BASS	3	PR-B078
207	Thumb Up!	BASS	1	PR-B079
208	Tubby Mute	BASS	2	PR-B080
209	Chicken Bass	BASS	3	PR-B081
210	Snug Bass	BASS	2	PR-B082
211	Return2Base!	BASS	1	PR-BO83
212	Chorus Bass	BASS	2	PR-B084
213	A Big Pick	BASS	3	PR-B085
214	Basement	BASS	1	PR-B086
215	SC Fretnot 1	BASS	2	PR-B087
216	SC Fretnot 2	BASS	3	PR-B088
217	RichFretless	BASS	2	PR-B089
218	NewAge Frtls	BASS	3	PR-B090
219	SlapBass 1	BASS	1	PR-B091
220	Slap2 w/Fx	BASS	1	PR-B092
221	Got Pop?	BASS	1	PR-B093
222	JBass v/Thmb	BASS	2	PR-B094
223	SC Slap Bass	BASS	2	PR-B095
224	X Slap Bass	BASS	3	PR-B096
225	Low Bass	SYNTH BASS	3	PR-B097
226	Mini Like!	SYNTH BASS	2	PR-B098
227	MC-404 Bass	SYNTH BASS	3	PR-B099
228 229	SC Rubber Bs SH-101 Bs 1	SYNTH BASS SYNTH BASS	2	PR-B100 PR-B101
230	SC Syn Bass1	SYNTH BASS	3	PR-B102
231	Juno-106 Bs	SYNTH BASS	2	PR-B103
232	Smooth Bass	SYNTH BASS	2	PR-B104
233	SC Flat Bs	SYNTH BASS	3	PR-B105
234	Foundation	SYNTH BASS	2	PR-B106
235	Punch MG 2	SYNTH BASS	2	PR-B107
236	Electro Rubb	SYNTH BASS	2	PR-B108
237	R&B Bass 1	SYNTH BASS	2	PR-B109
238	Enorjizor	SYNTH BASS	2	PR-B110
239	LowFat Bass	SYNTH BASS	3	PR-B111
240	Doze Bass	SYNTH BASS	1	PR-B112
241 242	DCO Bass Virtual RnBs	SYNTH BASS SYNTH BASS	4 2	PR-B113 PR-B114
242	Saw&MG Bass	SYNTH BASS	4	PR-B115
244	MG+SubOsc Bs	SYNTH BASS	2	PR-B116
245	R&B Bass 2	SYNTH BASS	1	PR-B117
246	R&B Bass 3	SYNTH BASS	2	PR-B118
247	Not a Bass	SYNTH BASS	2	PR-B119
248	ResoSyn Bs 1	SYNTH BASS	2	PR-B120
249	SH-1 Bass	SYNTH BASS	2	PR-B121
250	SH-101 Bs 2	SYNTH BASS	2	PR-B122
251	Punch MG 1	SYNTH BASS	2	PR-B123
252	MKS-50 SynBs	SYNTH BASS	1	PR-B124
253	Gashed Bass	SYNTH BASS	2	PR-B125
254	Q Bass	SYNTH BASS	3	PR-B126
255	Super-G DX	SYNTH BASS	3	PR-B127
256	Kickin' Bass	SYNTH BASS	2	PR-B128

PR-C (Preset C Group)

(CC#0 = 87, CC#32 = 66)

No Name Category Voice (Preset#) 257 OilDrum Bass SYNTH BASS 3 PR-C001 258 Dust Bass SYNTH BASS 4 PR-C002 259 Glide-iator SYNTH BASS 2 PR-C004 260 SC AcidPunch SYNTH BASS 2 PR-C004 261 TBasic SYNTH BASS 2 PR-C004 262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C007 264 Lo Bass SYNTH BASS 2 PR-C007 265 SC GarageBs1 SYNTH BASS 3 PR-C008 265 SC GarageBs2 SYNTH BASS 2 PR-C010 266 SC GarageBs2 SYNTH BASS 2 PR-C011 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 267 Sub Sonic SYNTH BASS<	
258 Dust Bass SYNTH BASS 4 PR-C002 259 Glide-iator SYNTH BASS 2 PR-C003 260 SC AcidPunch SYNTH BASS 2 PR-C004 261 TBasic SYNTH BASS 1 PR-C005 262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C006 264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 3 PR-C009 266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C011 269 R&B Bass 4 SYNTH BASS 2 PR-C012 269 R&B Bass SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS	
259 Glide-iator SYNTH BASS 2 PR-C003 260 SC AcidPunch SYNTH BASS 2 PR-C004 261 TBasic SYNTH BASS 2 PR-C005 262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C007 264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 3 PR-C009 266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C011 271 Beepin Bass SYNTH BASS 2 PR-C013 272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BA	
260 SC AcidPunch SYNTH BASS 2 PR-C004 261 TBasic SYNTH BASS 1 PR-C005 262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C007 264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 3 PR-C009 266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C012 269 R&B Bass SYNTH BASS 2 PR-C012 270 Simply Basic SYNTH BASS 2 PR-C012 271 Beepin Bass SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C016 273 Acdg Bass	
262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C007 264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 2 PR-C010 266 SC GarageBs2 SYNTH BASS 2 PR-C011 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C012 270 Simply Basic SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH	
262 SC Unison Bs SYNTH BASS 2 PR-C006 263 Detune Bass SYNTH BASS 2 PR-C007 264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 2 PR-C010 266 SC GarageBs2 SYNTH BASS 2 PR-C011 267 Sub Sonic SYNTH BASS 2 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C012 270 Simply Basic SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH	
264 Lo Bass SYNTH BASS 3 PR-C008 265 SC GarageBs1 SYNTH BASS 3 PR-C009 266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 4 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C021 276 S&H Bass SYNTH BASS 2 PR-C021 277 Destroyed Bs	
265 SC GarageBs1 SYNTH BASS 3 PR-C009 266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 4 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 2 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C021 276 S&H Bass SYNTH BASS 2 PR-C021 277 Destroyed Bs	
266 SC GarageBs2 SYNTH BASS 2 PR-C010 267 Sub Sonic SYNTH BASS 4 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 1 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C015 272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C020 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 3 PR-C022 281 Big Mini SYNTH BASS <td></td>	
267 Sub Sonic SYNTH BASS 4 PR-C011 268 SC Jungle Bs SYNTH BASS 2 PR-C012 269 R&B Bass 4 SYNTH BASS 1 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C014 271 MC-TB Bass SYNTH BASS 2 PR-C015 272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 3 PR-C022 280 Drop Bass SYNTH BASS	
269 R&B Bass 4 SYNTH BASS 1 PR-C013 270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C015 272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 2 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 2 PR-C022 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C024 282 Muffled MG SYNTH BASS	
270 Simply Basic SYNTH BASS 2 PR-C014 271 Beepin Bass SYNTH BASS 2 PR-C015 272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 1 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 2 PR-C022 280 Drop Bass SYNTH BASS 3 PR-C022 281 Big Mini SYNTH BASS 3 PR-C025 282 Muffled MG SYNTH BASS <td></td>	
271 Beepin Bass SYNTH BASS 2 PR-C015	
272 MC-TB Bass SYNTH BASS 2 PR-C016 273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 1 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C022 280 Drop Bass SYNTH BASS 3 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 2 PR-C025 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS	
273 Acdg Bass SYNTH BASS 2 PR-C017 274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 1 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C030 286 Juno-60 Bass SYNTH BASS <td></td>	
274 Loco Voco SYNTH BASS 2 PR-C018 275 Unplug it! SYNTH BASS 1 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 2 PR-C024 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C026 284 Alpha SynBs SYNTH BASS 2 PR-C027 285 TransistorBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 2 PR-C031 288 Alpha ResoBs SYNTH BASS<	
275 Unplug it! SYNTH BASS 1 PR-C019 276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 2 PR-C024 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C026 284 Alpha SynBs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C028 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BAS	
276 S&H Bass SYNTH BASS 2 PR-C020 277 Destroyed Bs SYNTH BASS 2 PR-C021 278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 2 PR-C024 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C026 284 Alpha SynBs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C027 285 TransistorBs SYNTH BASS 2 PR-C028 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 4 PR-C032 289 SH-101 Vibe SYNTH BA	
278 SC Acid Bs SYNTH BASS 2 PR-C022 279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C025 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C027 285 TransistorBs SYNTH BASS 2 PR-C028 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 2 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C031 289 SH-101 Vibe SYNTH BASS 2 PR-C032 289 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS<	
279 Lo-Fi TB SYNTH BASS 1 PR-C023 280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C025 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C029 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C037 294 Viola STRINGS	
280 Drop Bass SYNTH BASS 3 PR-C024 281 Big Mini SYNTH BASS 3 PR-C025 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C027 285 TransistorBs SYNTH BASS 2 PR-C028 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C037 294 Viola STRINGS 1 PR-C038 295 SC Cello STRINGS	
281 Big Mini SYNTH BASS 3 PR-C025 282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C029 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 1 PR-C039 295 SC Cello STRINGS	
282 Muffled MG SYNTH BASS 2 PR-C026 283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 2 PR-C029 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Viola STRINGS 1 PR-C038 294 Viola STRINGS 1 PR-C038 295 SC Cello STRINGS 1 PR-C040 296 Cello STRINGS 1	_
283 Intrusive Bs SYNTH BASS 2 PR-C027 284 Alpha SynBs SYNTH BASS 2 PR-C028 285 TransistorBs SYNTH BASS 3 PR-C029 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
285 TransistorBs SYNTH BASS 3 PR-C029 286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C040 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
286 Juno-60 Bass SYNTH BASS 2 PR-C030 287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C030 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
287 Storm Bass SYNTH BASS 4 PR-C031 288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
288 Alpha ResoBs SYNTH BASS 2 PR-C032 289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
289 SH-101 Vibe SYNTH BASS 4 PR-C033 290 Fazee Bass SYNTH BASS 4 PR-C034 291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
291 Hi-Energy Bs SYNTH BASS 2 PR-C035 292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
292 SC Violin STRINGS 1 PR-C036 293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
293 Violin STRINGS 1 PR-C037 294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
294 Viola STRINGS 3 PR-C038 295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
295 SC Cello STRINGS 1 PR-C039 296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
296 Cello STRINGS 1 PR-C040 297 Contrabass STRINGS 4 PR-C041	
298 Dolce Qrt STRINGS 2 PR-C042	
299 Chamber Str STRINGS 3 PR-C043 300 Small Str STRINGS 7 PR-C044	
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301 Marcato STRINGS 2 PR-C045 302 Bright Str STRINGS 2 PR-C046	
303 String Ens STRINGS 3 PR-C047	
304 SonicStrings STRINGS 8 PR-C048	
305 Stringz 101 STRINGS 2 PR-C049	
306 Crossed Bows STRINGS 5 PR-C050	
307 Warm Strings STRINGS 5 PR-C051 308 Stacc mp Str STRINGS 4 PR-C052	
309 Movie Scene STRINGS 4 PR-C053	
310 Hybrid Str 1 STRINGS 6 PR-C054	
311 Gang Strangs STRINGS 6 PR-C055	_
312 Clustered!?! STRINGS 8 PR-C056	
313 Full Strings STRINGS 4 PR-C057	
314 X StrSection STRINGS 4 PR-C058 315 Oct Strings STRINGS 6 PR-C059	
316 Sahara Str STRINGS 4 PR-C060	
317 Random Mood STRINGS 6 PR-C061	
318 X Hall Str STRINGS 8 PR-C062	
319 SC Slow Str STRINGS 8 PR-C063	
320 Hybrid Str 2 STRINGS 7 PR-C064	

No	Name	Category	Voice	(Preset#)
321	Biggie Bows	STRINGS	6	PR-C065
322	Staccato VS	STRINGS	4	PR-C066
323	So Staccato	STRINGS	4	PR-C067
324	DelicatePizz	STRINGS	4	PR-C068
325	VIs PizzHall	STRINGS	8	PR-C069
326	Orch Pizz	STRINGS	4	PR-C070
327	Pizz'Stac VS	STRINGS	6	PR-C071
328	Mellow Tron	STRINGS	3	PR-C072
329	Tronic Str	STRINGS	2	PR-C073
330	Tape Memory	STRINGS	2	PR-C074
331	Wind & Str 1 Wind & Str 2	ORCHESTRA ORCHESTRA	<i>7</i> 5	PR-C075 PR-C076
333	Farewell	ORCHESTRA	6	PR-C077
334	Orch & Horns	ORCHESTRA	5	PR-C078
335	Soft Orch 1	ORCHESTRA	4	PR-C079
336	Soft Orch 2	ORCHESTRA	7	PR-C080
337	Henry IX	ORCHESTRA	4	PR-C081
338	Ending Scene	ORCHESTRA	4	PR-C082
339	Symphonika	ORCHESTRA	8	PR-C083
340	Mix Hit 2	HIT&STAB	4	PR-C084
341	Cheezy Movie	HIT&STAB	4	PR-C085
342	Philly Hit	HIT&STAB	1	PR-C086
343	Smear Hit 1	HIT&STAB	2	PR-C087
344	Smear Hit 2	HIT&STAB	2 4	PR-C088
345	Good Old Hit	HIT&STAB	4	PR-C089
346	Mix Hit 1	HIT&STAB	4	PR-C090
348	Lo-Fi Hit 2ble Action	HIT&STAB HIT&STAB	2	PR-C091 PR-C092
349	In da Cave	HIT&STAB	2	PR-C092 PR-C093
350	Housechord	HIT&STAB	3	PR-C093
351	Mod Chord		2	PR-C095
352	Dance Steam	HIT&STAB HIT&STAB	2	PR-C095 PR-C096
353	Good Old Day	WIND	3	PR-C097
354	SC WindWood	WIND	3	PR-C098
355	Clarence.net	WIND	2	PR-C099
356	SC Oboe	WIND	ī	PR-C100
357	Hall Oboe	WIND	i	PR-C101
358	English Horn	WIND	1	PR-C102
359	Bassoon	WIND	1	PR-C103
360	SC Flute	FLUTE	2	PR-C104
361	Piccolo	FLUTE	2	PR-C105
362	Andes Mood	FLUTE	1	PR-C106
363	HimalayaPipe	FLUTE	4	PR-C107
364	Solo Tp	AC.BRASS	2	PR-C108
365 366	Horn Chops	AC.BRASS AC.BRASS	1	PR-C109 PR-C110
367	Flugel Horn Spit Flugel	AC.BRASS	3	PR-C111
368	Mute Tp /Mod	AC.BRASS	3	PR-C111
369	Harmon Mute	AC.BRASS	1	PR-C113
370	Soft Tb	AC.BRASS	2	PR-C114
371	Solo Tb	AC.BRASS	1	PR-C115
372	Solo Bone	AC.BRASS	2	PR-C116
373	XP Horn	AC.BRASS	1	PR-C117
374	Grande Tuba	AC.BRASS	2	PR-C118
375	SC Tuba	AC.BRASS	1	PR-C119
376	StackTp Sect	AC.BRASS	4	PR-C120
377	Tb Section	AC.BRASS	5	PR-C121
378	TpTb Sect.	AC.BRASS	2	PR-C122
379	SC Brt Brass	AC.BRASS	4	PR-C123
380	SC BrsSect 1	AC.BRASS	7	PR-C124
381	SC BrsSect 2	AC.BRASS	8	PR-C125
382	Tpts & Tmbs	AC.BRASS	2	PR-C126
383 384	Brass & Sax BrassPartOut	AC.BRASS AC.BRASS	5 6	PR-C127 PR-C128
304	Pigga dilOn	AC.DKAGG	U	1 N-C 1 Z U

PR-D (Preset D Group)

(CC#0 = 87, CC#32 = 67)

No	Name	Category	Voice	(Preset#)
385	Simple Tutti	AC.BRASS	2	PR-D001
386	F.Horns Sect	AC.BRASS	3	PR-D002
387	Full sForza	AC.BRASS	4 4	PR-D003
388 389	Stereo Brass Wide SynBrss	AC.BRASS SYNTH BRASS	2	PR-D004 PR-D005
390	DetuneSawBrs	SYNTH BRASS	2	PR-D006
391	J-Pop Brass	SYNTH BRASS	6	PR-D007
392	80s Brass 1	SYNTH BRASS	6	PR-D008
393	80s Brass 2	SYNTH BRASS	4	PR-D009
394 395	Ana Brass Soft Brass	SYNTH BRASS SYNTH BRASS	5 3	PR-D010 PR-D011
396	JP8000 Brass	SYNTH BRASS	6	PR-D011
397	Sonic Brass	SYNTH BRASS	4	PR-D013
398	Syn Brass	SYNTH BRASS	4	PR-D014
399	Syn Brass 2	SYNTH BRASS	4	PR-D015
400	Xpand Brass	SYNTH BRASS	2	PR-D016
401 402	Xpand Brass2 Super Saw	SYNTH BRASS SYNTH BRASS	4 4	PR-D017 PR-D018
403	SoftSynBrass	SYNTH BRASS	2	PR-D019
404	Silky JP	SYNTH BRASS	2	PR-D020
405	Silk Brs Pad	SYNTH BRASS	1	PR-D021
406	80s Brass 3	SYNTH BRASS	8	PR-D022
407	X-Saw Brass 1	SYNTH BRASS	2	PR-D023
408	Cheesy Brass	SYNTH BRASS	4	PR-D024
409 410	Dual Saw Brs Juno-106 Brs	SYNTH BRASS SYNTH BRASS	2 1	PR-D025 PR-D026
411	Poly Brass	SYNTH BRASS	2	PR-D027
412	Stacked Brs	SYNTH BRASS	4	PR-D028
413	Soprano Sax	SAX	1	PR-D029
414	Solo Sop Sax	SAX	1	PR-D030
415	Alto mp	SAX	1	PR-D031
416 417	Alto Sax Solo AltoSax	SAX SAX	1 1	PR-D032 PR-D033
418	AltoLead Sax	SAX	i	PR-D033
419	XP TnrBrethy	SAX	i	PR-D035
420	Tenor Sax	SAX	2	PR-D036
421	Fat TenorSax	SAX	3	PR-D037
422 423	Baritone Sax Sax Sect. 1	SAX SAX	1 3	PR-D038
423	Sax Sect. 2	SAX	4	PR-D039 PR-D040
425	Horny Sax	SAX	2	PR-D041
426	FXM Alto Sax	SAX	1	PR-D042
427	Porta SoloLd	HARD LEAD	2	PR-D043
428	Porta Lead	HARD LEAD	2	PR-D044
429	Wind Syn Ld	HARD LEAD	2 2	PR-D045
430	SC Saw Ld 1	HARD LEAD		PR-D046
431 432	SC Saw Ld 2 Juno Lead	HARD LEAD HARD LEAD	2	PR-D047 PR-D048
433	Follow Me	HARD LEAD	2	PR-D049
434	DC Triangle	HARD LEAD	2	PR-D050
435	Sqr-Seqence	HARD LEAD	1	PR-D051
436	Pure Square	HARD LEAD	2	PR-D052
437 438	Griggley SC LegatoSaw	HARD LEAD HARD LEAD	2 2	PR-D053 PR-D054
436	Lone Prophat	HARD LEAD	1	PR-D054 PR-D055
440	Dual Profs	HARD LEAD	2	PR-D056
441	Gwyo Press	HARD LEAD	2	PR-D057
442	"Q" DualSaws	HARD LEAD	2	PR-D058
443	Mogulator Ld	HARD LEAD	2	PR-D059
444 445	DirtyVoltage Clean?	HARD LEAD HARD LEAD	2 2	PR-D060 PR-D061
446	Distortion	HARD LEAD	4	PR-D062
447	SC Syn Ld	HARD LEAD	2	PR-D063
448	SynLead 0322	HARD LEAD	2	PR-D064

449 X.Sink Delay HARD LEAD 2 PR-D065 450 Destroyed Ld HARD LEAD 2 PR-D066 451 Synch Ld Mono HARD LEAD 1 PR-D067 452 Sync Ld Mono HARD LEAD 1 PR-D068 453 SyncModulate HARD LEAD 1 PR-D070 454 Distorted MG HARD LEAD 2 PR-D070 455 Shioted MG HARD LEAD 2 PR-D071 456 Blue Meanie HARD LEAD 2 PR-D073 457 SC Dist Lead HARD LEAD 2 PR-D073 458 Ringmod Lead HARD LEAD 2 PR-D073 459 Stimulation HARD LEAD 4 PR-D074 460 BodyElectric HARD LEAD 4 PR-D075 461 Classic Lead HARD LEAD 4 PR-D076 462 Feat Lead HARD LEAD 2 PR-D078 463 Wire Sync HARD LE	No	Name	Category	Voice	(Preset#)
Synchro Lead					
ASS Synch Ld Mono					_
4534 SyncModulate HARD LEAD 3 PR-D070 454 Distorted MG HARD LEAD 1 PR-D070 455 SonicVampire HARD LEAD 2 PR-D071 456 Blue Meanie HARD LEAD 2 PR-D072 457 SC Dist Lead HARD LEAD 4 PR-D074 458 Ringmod Lead HARD LEAD 4 PR-D075 460 BodyElectric HARD LEAD 4 PR-D075 461 Classic Lead HARD LEAD 3 PR-D076 462 Feat Lead HARD LEAD 2 PR-D078 463 Wire Sync HARD LEAD 2 PR-D078 464 Epic Lead HARD LEAD 2 PR-D078 465 Wezcoast HARD LEAD 3 PR-D080 466 Wezcoast HARD LEAD 3 PR-D081 467 HyperJupiter HARD LEAD 3 PR-D082 467 HyperJupiter HARD LEAD					
455 SonicVampire HARD LEAD 2 PR-D072		SyncModulate			
456 Blue Meanie HARD LEAD 2 PR.D072 457 SC Dist Lead HARD LEAD 2 PR.D073 458 Ringmod Lead HARD LEAD 4 PR.D074 458 Ringmod Lead HARD LEAD 4 PR.D074 460 BodyElectric HARD LEAD 4 PR.D075 460 BodyElectric HARD LEAD 3 PR.D076 461 Classic Lead HARD LEAD 2 PR.D078 462 Feat Lead HARD LEAD 3 PR.D079 463 Wire Sync HARD LEAD 3 PR.D079 464 Epic Lead HARD LEAD 2 PR.D080 465 Bag Lead HARD LEAD 3 PR.D079 466 Wezcoast HARD LEAD 2 PR.D081 467 Hyperlupiter HARD LEAD 2 PR.D082 468 Vintagolizer HARD LEAD 2 PR.D084 469 C64 Lead HARD LEAD 2 PR.D085 470 303 NRG HARD LEAD 2 PR.D085 471 Cell SquLead SOFT LEAD 2 PR.D086 472 SC Sqr Lead SOFT LEAD 2 PR.D086 473 SH Sqr Lead SOFT LEAD 2 PR.D088 474 Round SQR SOFT LEAD 2 PR.D089 475 Windy Synth SOFT LEAD 2 PR.D090 476 Sqr Diamond SOFT LEAD 2 PR.D091 477 Sinetific SOFT LEAD 2 PR.D093 478 PeakArpSine SOFT LEAD 2 PR.D093 479 Howards Lead SOFT LEAD 2 PR.D093 479 Howards Lead SOFT LEAD 2 PR.D094 479 Howards Lead SOFT LEAD 3 PR.D091 479 Howards Lead SOFT LEAD 1 PR.D096 481 Juno Sftld SOFT LEAD 1 PR.D096 482 R&B Tritlead SOFT LEAD 1 PR.D096 483 R&B Trit Lead SOFT LEAD 1 PR.D097 484 Jupiter Lead SOFT LEAD 1 PR.D099 485 Dign-Duke SOFT LEAD 1 PR.D099 486 SC Softlead SOFT LEAD 1 PR.D099 487 Mid Saw Ld SOFT LEAD 1 PR.D099 488 X-Pulse Lead SOFT LEAD 1 PR.D099 489 Mid 2-SawLd SOFT LEAD 1 PR.D100 490 Mew Lead SOFT LEAD 1 PR.D100 491 Shy Soloist SOFT LEAD 1 PR.D100 492 Theramax SOFT LEAD 1 PR.D100 493 Therasqu SOFT LEAD 1 PR.D101 494 GR Lead SOFT LEAD 1 PR.D101 495 Hold Soft LEAD 1 PR.D101 496 SC Resolead SOFT LEAD 1 PR.D110 500 Pulstar SOFT LEAD 1 PR.D1115 501					
458 Ringmod Lead HARD LEAD 4 PR-D074 459 Stimulation HARD LEAD 4 PR-D075 460 BodyElectric HARD LEAD 3 PR-D076 461 Classic Lead HARD LEAD 2 PR-D078 462 Feat Lead HARD LEAD 2 PR-D079 463 Wire Sync HARD LEAD 3 PR-D079 464 Epic Lead HARD LEAD 3 PR-D080 465 Bag Lead HARD LEAD 2 PR-D081 466 Wezcoast HARD LEAD 2 PR-D082 467 Hyperlupiter HARD LEAD 2 PR-D083 468 Vintagolizer HARD LEAD 2 PR-D084 470 303 NRG HARD LEAD 2 PR-D085 471 Cell Squlead SOFT LEAD 2 PR-D086 471 Cell Squlead SOFT LEAD 2 PR-D087 472 SC Sqr Lead SOFT LEAD					
459 Stimulation BodyElectric HARD LEAD 4 PR-D075 461 Classic Lead HARD LEAD 3 PR-D076 461 Classic Lead HARD LEAD 4 PR-D077 462 Feat Lead HARD LEAD 2 PR-D078 463 Wire Sync HARD LEAD 3 PR-D079 464 Epic Lead HARD LEAD 2 PR-D080 465 Bag Lead HARD LEAD 2 PR-D081 466 Wezcoast HARD LEAD 2 PR-D082 467 Hyperlupiter HARD LEAD 2 PR-D083 468 Vintagolizer HARD LEAD 4 PR-D083 469 C64 Lead HARD LEAD 2 PR-D084 469 C64 Lead HARD LEAD 2 PR-D085 470 303 NRG HARD LEAD 2 PR-D084 471 Cell Squlead SOFT LEAD 2 PR-D086 472 SC Sqr Lead SOFT LEAD					
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463 Wire Sync HARD LEAD 3 PR-D080 464 Epic Lead HARD LEAD 2 PR-D080 465 Bag Lead HARD LEAD 2 PR-D081 466 Wezcoast HARD LEAD 2 PR-D082 467 Hyperlupiter HARD LEAD 3 PR-D083 468 Vintagolizer HARD LEAD 4 PR-D084 469 C64 Lead HARD LEAD 2 PR-D085 470 303 NRG HARD LEAD 2 PR-D085 470 303 NRG HARD LEAD 2 PR-D085 471 Cell Squlead SOFT LEAD 2 PR-D085 472 SC Sqr Lead SOFT LEAD 2 PR-D087 473 SH Sqr Lead SOFT LEAD 2 PR-D088 474 Round SQR SOFT LEAD 2 PR-D099 475 Sinetific SOFT LEAD 3 PR-D091 476 Sqr Diamond SOFT LEAD 2					
464 Epic Lead HARD LEAD 2 PR-D080 465 Bag Lead HARD LEAD 3 PR-D081 466 Wezcoast HARD LEAD 2 PR-D082 467 HyperJupiter HARD LEAD 3 PR-D083 468 Vintagolizer HARD LEAD 4 PR-D084 469 C64 Lead HARD LEAD 2 PR-D085 470 303 NRG HARD LEAD 2 PR-D085 470 303 NRG HARD LEAD 2 PR-D086 471 Cell SquLead SOFT LEAD 2 PR-D087 472 SC Sqr Lead SOFT LEAD 2 PR-D088 473 SH Sqr Lead SOFT LEAD 2 PR-D089 474 Round SQR SOFT LEAD 2 PR-D090 475 Windy Synth SOFT LEAD 2 PR-D090 475 Windy Synth SOFT LEAD 2 PR-D090 475 Windy Synth SOFT LEAD 2 <td></td> <td></td> <td></td> <td></td> <td></td>					
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472 SC Sqr Lead SOFT LEAD 2 PR-D088 473 SH Sqr Lead SOFT LEAD 2 PR-D089 474 Round SQR SOFT LEAD 2 PR-D090 475 Windy Synth SOFT LEAD 2 PR-D091 476 Sqr Diamond SOFT LEAD 2 PR-D092 477 Sinetific SOFT LEAD 2 PR-D093 478 PeakArpSine SOFT LEAD 1 PR-D094 479 Howards Lead SOFT LEAD 1 PR-D095 480 SoloNzPeaker SOFT LEAD 1 PR-D095 481 Juno Sftld SOFT LEAD 1 PR-D096 481 Juno Sftld SOFT LEAD 1 PR-D097 482 R&B TriLead SOFT LEAD 1 PR-D098 483 R&B TriLead SOFT LEAD 1 PR-D098 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dig-n-Duke SOFT LEAD					
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475 Windy Synth SOFT LEAD 3 PR-D091 476 Sqr Diamond SOFT LEAD 2 PR-D092 477 Sinetific SOFT LEAD 2 PR-D093 478 PeakArpSine SOFT LEAD 1 PR-D094 479 Howards Lead SOFT LEAD 3 PR-D095 480 SoloNzPeaker SOFT LEAD 1 PR-D096 481 Juno SftLd SOFT LEAD 1 PR-D096 482 R&B Tri Lead SOFT LEAD 1 PR-D098 483 R&B Tri Lead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dign-Duke SOFT LEAD 2 PR-D100 485 Dign-Duke SOFT LEAD 2 PR-D103 487 Mid Saw Ld SOFT LEAD			SOFT LEAD	2	
476 Sqr Díamond SOFT LEAD 2 PR-D092 477 Sinetific SOFT LEAD 2 PR-D093 478 PeakArpSine SOFT LEAD 1 PR-D094 479 Howards Lead SOFT LEAD 3 PR-D095 480 SoloNzPeaker SOFT LEAD 1 PR-D096 481 Juno Sftld SOFT LEAD 1 PR-D097 482 R&B Tri Lead SOFT LEAD 1 PR-D098 483 R&B Tri Ld2 SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 2 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 2 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-Sawld SOFT LEAD <td></td> <td></td> <td></td> <td></td> <td></td>					
477 Sinetific SOFT LEAD 2 PR-D093 478 PeakArpSine SOFT LEAD 1 PR-D094 479 Howards Lead SOFT LEAD 3 PR-D095 480 SoloNzPeaker SOFT LEAD 1 PR-D096 481 Juno SffLd SOFT LEAD 1 PR-D097 482 R&B Tri Lead SOFT LEAD 1 PR-D098 483 R&B Tri Lead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dign-Duke SOFT LEAD 2 PR-D100 485 Dign-Duke SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D103 487 Mid Saw Ld SOFT LEAD 2 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mid 2-Sawld SOFT LEAD					
479 Howards Lead SOFT LEAD 3 PR-D095 480 SoloNzPeaker SOFT LEAD 1 PR-D096 481 Juno SftLd SOFT LEAD 1 PR-D097 482 R&B Trilead SOFT LEAD 1 PR-D098 483 R&B Trilead SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D101 486 SC Softlead SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 2 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-SawLd SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D106 492 Theramax SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD					
480 SoloNzPeaker SOFT LEAD 1 PR-D096 481 Juno SftLd SOFT LEAD 1 PR-D097 482 R&B Tri Lead SOFT LEAD 1 PR-D098 483 R&B Tri Ld2 SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 2 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-SawLd SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D106 492 Theramax SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D106 493 Therasqu SOFT LEAD	478	PeakArpSine			PR-D094
481 Juno SftLd SOFT LEAD 1 PR-D097 482 R&B TriLead SOFT LEAD 1 PR-D098 483 R&B Tri Ld2 SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D103 487 Mid Saw Ld SOFT LEAD 4 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-Sawld SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 2 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 2					
483 R&B Tri Ld2 SOFT LEAD 1 PR-D099 484 Jupiter Lead SOFT LEAD 1 PR-D100 485 Dig-n-Duke SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 4 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-Sawld SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 3					
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485 Dig-n-Duke SOFT LEAD 2 PR-D101 486 SC SoftLead SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 4 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-Sawld SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC Resolead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 1<					
486 SC SoftLead SOFT LEAD 2 PR-D102 487 Mid Saw Ld SOFT LEAD 4 PR-D103 488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-SawLd SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 3 PR-D110 497 Modulated Ld SOFT LEAD 3 PR-D111 498 Synthi Fizz SOFT LEAD 1 PR-D113 499 Waspy Lead SOFT LEAD 1 PR-D114 499 Waspy Lead SOFT LEAD 1 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
488 X-Pulse Lead SOFT LEAD 2 PR-D104 489 Mild 2-Sawld SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC ResoLead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1<					
489 Mild 2-Sawld SOFT LEAD 2 PR-D105 490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC Resolead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthir Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 2 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
490 Mew Lead SOFT LEAD 1 PR-D106 491 Shy Soloist SOFT LEAD 1 PR-D107 492 Theramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 3 PR-D111 496 SC Resolead SOFT LEAD 1 PR-D113 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Yloilin Lead SOFT LEAD 2 <td></td> <td></td> <td></td> <td></td> <td></td>					
492 Théramax SOFT LEAD 1 PR-D108 493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC Resolead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolini Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 2 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2					
493 Therasqu SOFT LEAD 1 PR-D109 494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC ResoLead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 2 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 <td></td> <td></td> <td></td> <td></td> <td></td>					
494 GR Lead SOFT LEAD 2 PR-D110 495 SH-2 Lead SOFT LEAD 2 PR-D111 496 SC Resolead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vilolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D123 509 Shaku Lead SOFT LEAD 5					
496 SC Resolead SOFT LEAD 3 PR-D112 497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD					
497 Modulated Ld SOFT LEAD 1 PR-D113 498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 2 PR-D126 511 SCResoSaw Ld SOFT LEAD					
498 Synthi Fizz SOFT LEAD 2 PR-D114 499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vilolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
499 Waspy Lead SOFT LEAD 1 PR-D115 500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
500 Pulstar Ld SOFT LEAD 1 PR-D116 501 Naked Lead SOFT LEAD 1 PR-D117 502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
502 Alpha Spit SOFT LEAD 1 PR-D118 503 Vliolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127		Pulstar Ld	SOFT LEAD		
503 VIiolin Lead SOFT LEAD 2 PR-D119 504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
504 Mod Lead SOFT LEAD 4 PR-D120 505 JP Saw Lead SOFT LEAD 2 PR-D121 506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
506 Tristar SOFT LEAD 2 PR-D122 507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127	504	Mod Lead	SOFT LEAD	4	PR-D120
507 Chubby Lead SOFT LEAD 2 PR-D123 508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
508 Sneaky Leady SOFT LEAD 2 PR-D124 509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
509 Shaku Lead SOFT LEAD 5 PR-D125 510 Legato Tkno SOFT LEAD 1 PR-D126 511 SCResoSaw Ld SOFT LEAD 2 PR-D127					
511 SCResoSaw Ld SOFT LEAD 2 PR-D127					

PR-E (Preset E Group)

(CC#0 = 87, CC#32 = 68)

No	Name	Category	Voice	(Preset#)
513	Mini Growl	SOFT LEAD	2	PR-E001
514	Evangelized	SOFT LEAD	2	PR-E002
515	Air Lead	SOFT LEAD	4	PR-E003
516	Juno-D Maj7	TECHNO SYNTH	4	PR-E004
517	Sweet House	TECHNO SYNTH	4	PR-E005
518	Periscope	TECHNO SYNTH	4	PR-E006
519	5th Voice	TECHNO SYNTH	6 2	PR-E007
520	HPF Sweep	TECHNO SYNTH	4	PR-E008
521 522	BPF Saw Moon Synth	TECHNO SYNTH TECHNO SYNTH	2	PR-E009 PR-E010
523	DelyResoSaws	TECHNO SYNTH	2	PR-E011
524	R-Trance	TECHNO SYNTH	7	PR-EO12
525	Braatz	TECHNO SYNTH	6	PR-EO13
526	AllinOneRiff	TECHNO SYNTH	7	PR-EO14
527	YZ Again	TECHNO SYNTH	7	PR-EO15
528	Flazzy Lead	TECHNO SYNTH	8	PR-E016
529	Coffee Bee	TECHNO SYNTH	2	PR-E017
530	SC-303	TECHNO SYNTH	1	PR-EO18
531 532	Dance Saws AluminmWires	TECHNO SYNTH	8 3	PR-E019 PR-E020
533	Fred&Barney	TECHNO SYNTH TECHNO SYNTH	6	PR-E020
534	Electrostars	TECHNO SYNTH	4	PR-E022
535	LoFiSequence	TECHNO SYNTH	2	PR-E023
536	MelodicDrums	TECHNO SYNTH	2	PR-E024
537	TB Wah	TECHNO SYNTH	1	PR-EO25
538	Waving TB303	TECHNO SYNTH	3	PR-E026
539	Digi Seq	TECHNO SYNTH	3	PR-E027
540	Seq Saw	TECHNO SYNTH	1	PR-E028
541	Reso Seq Saw	TECHNO SYNTH	1	PR-E029
542	DetuneSeqSaw	TECHNO SYNTH	2	PR-E030
543	Technotribe	TECHNO SYNTH	2	PR-E031
544	Teethy Grit	TECHNO SYNTH	3	PR-E032
545	Repertition	TECHNO SYNTH	4	PR-E033
546 547	Killerbeez Acid Lead	TECHNO SYNTH TECHNO SYNTH	4 2	PR-E034 PR-E035
548	Tranceformer	TECHNO SYNTH	1	PR-E035
549	Anadroid	TECHNO SYNTH	i	PR-E037
550	Shroomy	TECHNO SYNTH	3	PR-E038
551	Noize R us	TECHNO SYNTH	2	PR-E039
552	Beep Melodie	TECHNO SYNTH	4	PR-E040
553	Morpher	TECHNO SYNTH	8	PR-EO41
554	Uni-G	TECHNO SYNTH	2	PR-E042
555	Power Synth	TECHNO SYNTH	4	PR-E043
556 557	Hoover Again	TECHNO SYNTH TECHNO SYNTH	4 2	PR-E044 PR-E045
557 558	Alpha Said Ravers Awake	TECHNO SYNTH	2	PR-E046
559	Tekno Gargle	TECHNO SYNTH	2	PR-E047
560	Tranceiver	TECHNO SYNTH	4	PR-EO48
561	Techno Dream	TECHNO SYNTH	4	PR-E049
562	Techno Pizz	TECHNO SYNTH	4	PR-E050
563	VirtualHuman	PULSATING	4	PR-E051
564	Strobot	PULSATING	2	PR-E052
565	SC Strobe	PULSATING	4	PR-E053
566 567	Strobe X Rhythmic 5th	PULSATING PULSATING	5 4	PR-E054 PR-E055
568	Cell Pad	PULSATING	3	PR-E056
569	DarknessSide	PULSATING	6	PR-E057
570	Shape of X	PULSATING	5	PR-E058
571	Sonic Dance	PULSATING	5	PR-E059
572	ShapeURMusic	PULSATING	5	PR-E060
573	Synth Force	PULSATING	4	PR-E061
574 575	Trance Split	PULSATING	2	PR-E062
575 576	Step Trance Chop Synth	PULSATING PULSATING	1 2	PR-E063 PR-E064
3,0	Chop Cymin	1 SLOATII NO	4	1 N-2004

No	Name	Category	Voice	(Preset#)
577	Euro Teuro	PULSATING	6	PR-E065
578	Auto Trance	PULSATING	2	PR-E066
579	Eureggae	PULSATING	2	PR-E067
580	Sorry4theDLY	PULSATING	2	PR-E068
581	Beat Pad	PULSATING	3	PR-E069
582	TMT Seq Pad	PULSATING	4	PR-E070
583	ForYourBreak	PULSATING	4	PR-E071
584	HPF Slicer	PULSATING	3	PR-E072
585	Sliced Choir	PULSATING	6	PR-E073
586	Digi-Doo	PULSATING	2	PR-E074 PR-E075
587 588	PanningFrmnt Dirty Beat	PULSATING PULSATING	7	PR-E075 PR-E076
589	Electrons	PULSATING	1	PR-E077
590	Protons	PULSATING	2	PR-E078
591	Brisk Vortex	PULSATING	3	PR-E079
592	SC Throbulax	PULSATING	2	PR-E080
593	SC Lonizer	PULSATING	4	PR-E081
594	diGital Pad	PULSATING	4	PR-E082
595	StepPitShift	PULSATING	2	PR-E083
596 597	Pad Pulses Seg-Pad 2	PULSATING PULSATING	3 8	PR-E084 PR-E085
598	DSP Chaos	PULSATING	1	PR-E086
599	Dancefloor	PULSATING	4	PR-E087
600	Minor Thirds	PULSATING	2	PR-EO88
601	FX World	PULSATING	2	PR-E089
602	Mr. Fourier	PULSATING	3	PR-E090
603	Nu Trance X	PULSATING	2	PR-E091
604	Auto 5thSaws	PULSATING	4	PR-E092
605 606	Cross Talk	PULSATING PULSATING	1 2	PR-E093
607	Reanimation VoX Chopper	PULSATING	2	PR-E094 PR-E095
608	Trevor's Pad	PULSATING	4	PR-E096
609	Fantomas Pad	PULSATING	5	PR-E097
610	Jazzy Arps	PULSATING	4	PR-E098
611	Keep Running	PULSATING	4	PR-E099
612	Step In	PULSATING	4	PR-E100
613	Echo Echo	PULSATING	8	PR-E101
614	Keep going	PULSATING	4	PR-E102
615 616	Arposphere Voco Riff	PULSATING PULSATING	4 4	PR-E103 PR-E104
617	Pulsator	PULSATING	4	PR-E105
618	Motion Bass	PULSATING	2	PR-E106
619	Sine Magic	PULSATING	3	PR-E107
620	Juno-D Slice	PULSATING	3	PR-E108
621	Pulsatron	PULSATING	4	PR-E109
622	Mega Sync	PULSATING	2	PR-E110
623	Passing by	SYNTH FX	4	PR-E111
624 625	Lazer Points	SYNTH FX	2	PR-E112
626	Retro Sci-Fi Magic Chime	SYNTH FX SYNTH FX	4 4	PR-E113 PR-E114
627	SC Try This!	SYNTH FX	3	PR-E115
628	New Planetz	SYNTH FX	4	PR-E116
629	Jet Noise	SYNTH FX	4	PR-E11 <i>7</i>
630	Chaos 2003	SYNTH FX	4	PR-E118
631	Control Room	SYNTH FX	4	PR-E119
632	OutOf sortz	SYNTH FX	5	PR-E120
633	Scatter	SYNTH FX	7	PR-E121
634 635	Low Beat-S WaitnOutside	SYNTH FX SYNTH FX	5 2	PR-E122 PR-E123
636	Breath Echo	SYNTH FX	1	PR-E124
637	SoundStrange	SYNTH FX	3	PR-E125
638	Cosmic Pulse	SYNTH FX	2	PR-E126
639	Faked Piano	SYNTH FX	4	PR-E127
640	SC Crystal	SYNTH FX	2	PR-E128
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PR-F (Preset F Group)

(CC#0 = 87, CC#32 = 69)

No	Name	Category	Voice	(Preset#)
641	ResoSweep Dn	SYNTH FX	1	PR-FOO1
642	Zap B3 & C4	SYNTH FX	1	PR-F002
643	PolySweep Nz	SYNTH FX	4	PR-F003
644	Strange Land	SYNTH FX	6	PR-F004
645	S&H Voc	SYNTH FX	2	PR-F005
646	12th Planet	SYNTH FX	2	PR-F006
647	Scare	SYNTH FX	7	PR-F007
648	Hillside	SYNTH FX	1	PR-F008
649	Mod Scanner	SYNTH FX	2 1	PR-F009
650	SoundOnSound	SYNTH FX		PR-F010
651 652	Gasp ResoSweep Up	SYNTH FX SYNTH FX	8 1	PR-F011 PR-F012
653	Magic Wave	SYNTH FX	2	PR-F013
654	Shangri-La	SYNTH FX	5	PR-F014
655	CerealKiller	SYNTH FX	ī	PR-F015
656	Cosmic Drops	SYNTH FX	1	PR-F016
657	Space Echo	SYNTH FX	4	PR-F017
658	Robot Sci-Fi	SYNTH FX	4	PR-F018
659	Stacc Heaven	OTHER SYNTH	4	PR-F019
660	Juno Poly	OTHER SYNTH	4	PR-F020
661	DigitalDream	OTHER SYNTH	2	PR-F021
662	Jucy Saw	OTHER SYNTH	3	PR-F022
663	Cue Tip	OTHER SYNTH	1	PR-F023 PR-F024
664 665	Waspy Synth	OTHER SYNTH	2 1	PR-F024 PR-F025
666	TB-Sequence Europe Xpres	OTHER SYNTH OTHER SYNTH	2	PR-F025
667	Squeepy	OTHER SYNTH	1	PR-F027
668	DOC Stack	OTHER SYNTH	2	PR-F028
669	Sweep Lead	OTHER SYNTH	2	PR-F029
670	80s Saws 1	OTHER SYNTH	8	PR-F030
671	80s Saws 2	OTHER SYNTH	6	PR-F031
672	80s Saws 3	OTHER SYNTH	5	PR-F032
673	Digitaless	OTHER SYNTH	2	PR-F033
674	Flip Pad	OTHER SYNTH	3	PR-F034
675 676	Short Detune	OTHER SYNTH OTHER SYNTH	2	PR-F035 PR-F036
677	forSequence Memory Pluck	OTHER SYNTH	2	PR-F037
678	Metalic Bass	OTHER SYNTH	2	PR-F038
679	Aqua	OTHER SYNTH	2	PR-F039
680	Big Planet	OTHER SYNTH	2	PR-FO40
681	Wet Atax	OTHER SYNTH	2	PR-FO41
682	Houze Clavi	OTHER SYNTH	2	PR-F042
683	SuperSawSlow	OTHER SYNTH	2	PR-FO43
684	Cell Trance	OTHER SYNTH	3	PR-FO44
685	Trancy X	OTHER SYNTH	4	PR-F045
686	Trancy Synth	OTHER SYNTH	2	PR-F046
687 688	Juno Trnce Saw Stack	OTHER SYNTH OTHER SYNTH	4 2	PR-FO47 PR-FO48
689	Frgile Saws	OTHER SYNTH	2	PR-F049
690	Steamed Sawz	OTHER SYNTH	2	PR-F050
691	RAVtune	OTHER SYNTH	2	PR-F051
692	Bustranza	OTHER SYNTH	2	PR-F052
693	AftTch Ji-n	OTHER SYNTH	2	PR-F053
694	JP OctAttack	OTHER SYNTH	2	PR-F054
695	Oct Unison	OTHER SYNTH	6	PR-F055
696	Xtatic	OTHER SYNTH	4	PR-F056
697	Dirty Combo	OTHER SYNTH	2	PR-F057
698	FM's Attack	OTHER SYNTH	3	PR-F058
699 700	Digi-vox Syn Fairy Factor	OTHER SYNTH OTHER SYNTH	1 6	PR-F059 PR-F060
701	,	OTHER SYNTH	2	PR-F061
701 702	Tempest X-Racer	OTHER SYNTH	2	PR-F062
703	TB Booster	OTHER SYNTH	2	PR-F063
704	Syn-Orch/Mod	OTHER SYNTH	4	PR-F064
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No	Name	Category	Voice	(Preset#)
705	Pressyn	OTHER SYNTH	2	PR-F065
706	High Five	OTHER SYNTH	2	PR-F066
707	4DaCommonMar		4	PR-F067
708	Orgaenia	OTHER SYNTH	5	PR-F068
709	Sleeper	OTHER SYNTH	4	PR-F069
710	Sugar Synth	OTHER SYNTH	5	PR-F070
711	Ice Palace	OTHER SYNTH	4	PR-F071
712	Story Harp	OTHER SYNTH	7	PR-F072
713	LostParadise	OTHER SYNTH	5	PR-F073
714	Magnetic 5th	OTHER SYNTH	2	PR-F074
715	DigimaX	OTHER SYNTH	2	PR-F075
716	Exhale	OTHER SYNTH	2	PR-F076
<i>717</i>	X-panda	OTHER SYNTH	2	PR-F077
<i>7</i> 18	Saw Keystep	OTHER SYNTH	2	PR-F078
719	4mant Cycle	OTHER SYNTH	1	PR-F079
720	Modular	OTHER SYNTH	2	PR-F080
721	Angel Pipes	OTHER SYNTH	2	PR-FO81
722	Wired Synth	OTHER SYNTH	8	PR-F082
723	Analog Dream	OTHER SYNTH	3	PR-F083
724	DCO Bell Pad	OTHER SYNTH	4	PR-F084
725	Cell Fanta	OTHER SYNTH	3	PR-F085
726	Juno 5th	OTHER SYNTH	2	PR-F086
727	DoubleBubble	OTHER SYNTH	4	PR-F087
728	Cell Comb	BRIGHT PAD	3	PR-F088
729	Super SynStr	BRIGHT PAD	2	PR-F089
730	80s Str	BRIGHT PAD	8	PR-F090
<i>7</i> 31	PhaseStrings	BRIGHT PAD	2	PR-F091
732	Voyager	BRIGHT PAD	4	PR-F092
<i>7</i> 33	Cosmic Rays	BRIGHT PAD	4	PR-F093
734	Stringship	BRIGHT PAD	4	PR-F094
<i>7</i> 35	Fat Stacks	BRIGHT PAD	4	PR-F095
<i>7</i> 36	Strings R Us	BRIGHT PAD	2	PR-F096
737	Electric Pad	BRIGHT PAD	3	PR-F097
<i>7</i> 38	Neo RS-202	BRIGHT PAD	2	PR-F098
739	OB Rezo Pad	BRIGHT PAD	3	PR-F099
740	Synthi Ens	BRIGHT PAD	4	PR-F100
741 742	Giant Sweep	BRIGHT PAD	2 4	PR-F101
742	Mod Dare	BRIGHT PAD	4	PR-F102
743 744	Cell Space	BRIGHT PAD	3	PR-F103
744 745	Digi-Swell Sonic Surfer	BRIGHT PAD BRIGHT PAD	2	PR-F104 PR-F105
746	New Year Day	BRIGHT PAD	4	PR-F106
747	Polar Morn	BRIGHT PAD	4	PR-F107
748	Distant Sun	BRIGHT PAD	4	PR-F108
749	PG Chimes	BRIGHT PAD	4	PR-F109
750	Saturn Rings	BRIGHT PAD	4	PR-F110
751	Brusky	BRIGHT PAD	4	PR-F111
752	"2 Point 2"	BRIGHT PAD	7	PR-F112
753	2.2 Pad	BRIGHT PAD	7	PR-F113
754	two.two Pad	BRIGHT PAD	4	PR-F114
755	SaturnHolida	BRIGHT PAD	2	PR-F115
<i>7</i> 56	Neuro-Drone	BRIGHT PAD	7	PR-F116
757	In The Pass	BRIGHT PAD	3	PR-F11 <i>7</i>
<i>7</i> 58	Polar Night	BRIGHT PAD	4	PR-F118
<i>75</i> 9	Cell 5th	BRIGHT PAD	3	PR-F119
760	MistOver5ths	BRIGHT PAD	4	PR-F120
761	Gritty Pad	BRIGHT PAD	1	PR-F121
762	India Garden	BRIGHT PAD	6	PR-F122
763	BillionStars	BRIGHT PAD	4	PR-F123
764	Sand Pad	BRIGHT PAD	2	PR-F124
765	ReverseSweep	BRIGHT PAD	2	PR-F125
766	HugeSoundMod	BRIGHT PAD	4	PR-F126
767	Metal Swell	BRIGHT PAD	5	PR-F127
768	NuSoundtrack	BRIGHT PAD	4	PR-F128

PR-G (Preset G Group)

(CC#0 = 87, CC#32 = 70)

No	Name	Category	Voice	(Preset#)
769 770	Phat Strings	BRIGHT PAD	4 3	PR-G001
770	Soft OB Pad	SOFT PAD		PR-G002
<i>77</i> 1 <i>77</i> 2	SC Hollow SC Sqr Pad	SOFT PAD SOFT PAD	4 4	PR-G003 PR-G004
773	Silk Pad	SOFT PAD	3	PR-G005
774 775	WarmReso Pad SC Soft Pad	SOFT PAD SOFT PAD	2	PR-G006 PR-G007
776	Air Pad	SOFT PAD	4	PR-G008
777	Soft Breeze	SOFT PAD	2	PR-G009
778 779	JP Strings 1	SOFT PAD SOFT PAD	3 5	PR-G010 PR-G011
780	JP Strings 2 DelayStrings	SOFT PAD	3	PR-G012
781	NorthStrings	SOFT PAD	4	PR-G013
782 783	SC Syn Str Slow Saw Str	SOFT PAD SOFT PAD	5 2	PR-G014 PR-G015
784	Syn Strings	SOFT PAD	2	PR-G016
785	OB Slow Str	SOFT PAD	2	PR-G017
786 787	Strings Pad R&B SoftPad	SOFT PAD SOFT PAD	2 2	PR-G018 PR-G019
788	Reso Pad	SOFT PAD	3	PR-G020
<i>7</i> 89	Phat Pad	SOFT PAD	2	PR-G021
790	SC PhaserPad	SOFT PAD	2	PR-G022
<i>7</i> 91 <i>7</i> 92	Mystic Str Glass Organ	SOFT PAD SOFT PAD	5 3	PR-G023 PR-G024
793	Wind Pad	SOFT PAD	4	PR-G025
794	Combination	SOFT PAD	4	PR-G026
795 796	HumanKindnes	SOFT PAD SOFT PAD	4 4	PR-G027 PR-G028
790 797	BeautyPad Atmospherics	SOFT PAD	2	PR-G026 PR-G029
798	Terra Nostra	SOFT PAD	8	PR-G030
799	OB Aaahs	SOFT PAD	4	PR-G031
800 801	Vulcano Pad Cloud #9	SOFT PAD SOFT PAD	5 3	PR-G032 PR-G033
802	Organic Pad	SOFT PAD	3	PR-G034
803	Hum Pad	SOFT PAD	4	PR-G035
804 805	Vox Pad Digital Aahs	SOFT PAD SOFT PAD	4 3	PR-G036 PR-G03 <i>7</i>
806	Tri 5th Pad	SOFT PAD	4	PR-G038
807	SC MovinPad	SOFT PAD	8	PR-G039
808	Seq-Pad 1	SOFT PAD	8	PR-G040
809 810	Follow Consolament	SOFT PAD SOFT PAD	2 3	PR-G041 PR-G042
811	Spacious Pad	SOFT PAD	4	PR-G043
812	JD Pop Pad	SOFT PAD	3	PR-G044
813 814	JP-8 Phase Nu Epic Pad	SOFT PAD SOFT PAD	4 2	PR-G045 PR-G046
815	Forever	SOFT PAD	5	PR-G047
816	Flange Dream	SOFT PAD	4	PR-G048
81 <i>7</i> 818	Evolution X Heaven Pad	SOFT PAD SOFT PAD	2	PR-G049 PR-G050
819	Angelis Pad	SOFT PAD	4	PR-G051
820	Juno-106 Str	SOFT PAD	1	PR-G052
821 822	JupiterMoves Oceanic Pad	SOFT PAD SOFT PAD	2 2	PR-G053 PR-G054
823	Fairy's Song	SOFT PAD	4	PR-G055
824	Borealis	SOFT PAD	2	PR-G056
825	JX Warm Pad	SOFT PAD	2	PR-G057
826 827	Analog Bgrnd Choir Aahs 1	SOFT PAD VOX	3 4	PR-G058 PR-G059
828	Choir Aahs 2	VOX	4	PR-G060
829	ChoirOoh/Aft	VOX	4 4	PR-G061
830 831	Angels Choir Angelique	VOX	4	PR-G062 PR-G063
832	Gospel Oohs	VOX	2	PR-G064

No	Name	Category	Voice	(Preset#)
833	Choir&Str	VOX	7	PR-G065
834	Aah Vox	VOX	2	PR-G066
835	Synvox	VOX	2	PR-G067
836	Úhmmm	VOX	8	PR-G068
837	Morning Star	VOX	3	PR-G069
838	Syn Opera	VOX	4	PR-G070
839	BeautifulOne	VOX	4	PR-G071
840	Ooze	VOX	2	PR-G072
841	Aerial Choir	VOX	4	PR-G073
842	3D Vox	VOX	3	PR-G074
843	Film Cue	VOX	4	PR-G075
844	Paradise	VOX	4	PR-G076
845	Sad ceremony	VOX	8	PR-G077
846	Lost Voices	VOX	4	PR-G078
847	Jazz Doos	VOX	4	PR-G079
848	Beat Vox	VOX	1 2	PR-G080
849 850	Talk 2 Me FM Vox	VOX VOX	4	PR-G081 PR-G082
851	Let's Talk!	VOX	3	PR-G083
852	Nice Kalimba	PLUCKED	1 4	PR-G084
853 854	Quiet River Teky Drop	PLUCKED	4	PR-G085 PR-G086
855	Pat is away	PLUCKED PLUCKED	5	PR-G087
856	SC Sitar 1	PLUCKED	4	PR-G088
857	SC Sitar 2	PLUCKED	5	PR-G089
858	Sitar on C	PLUCKED	6	PR-G090
859	Sitar Baby	PLUCKED	ī	PR-G091
860	Elec Sitar	PLUCKED	3	PR-G092
861	Neo Sitar	PLUCKED	2	PR-G093
862	SaraswatiRvr	PLUCKED	3	PR-G094
863	Bosporus	PLUCKED	3	PR-G095
864	Santur Stack	PLUCKED	4	PR-G096
865	Aerial Harp	PLUCKED	2	PR-G097
866	Harpiness	PLUCKED	2	PR-G098
867	Skydiver	PLUCKED	2	PR-G099
868	TroubadorEns	PLUCKED	4	PR-G100
869	Jamisen	PLUCKED	2 8	PR-G101
870	Koto	PLUCKED		PR-G102
871	Monsoon	PLUCKED	4	PR-G103
872	Bend Koto	PLUCKED	2	PR-G104
873 874	LongDistance	ETHNIC	1 3	PR-G105
875	Ambi Shaku SC Lochscape	ETHNIC ETHNIC	2	PR-G106 PR-G107
876	SC PipeDream	ETHNIC	4	PR-G108
877	SC Far East	ETHNIC	4	PR-G109
878	Banjo	FRETTED	2	PR-G110
879	Timpani+Low	PERCUSSION	4	PR-G111
880	Timpani Roll	PERCUSSION	2	PR-G112
881	Bass Drum	PERCUSSION	4	PR-G113
882	Ambidextrous	SOUND FX	2	PR-G114
883	En-co-re	SOUND FX	4	PR-G115
884	Mobile Phone	SOUND FX	1	PR-G116
885	ElectroDisco	BEAT&GROOVE	5	PR-G117
886 887	Groove 007 In Da Groove	BEAT&GROOVE	4 4	PR-G118 PR-G119
888	Sweet 80s	BEAT&GROOVE BEAT&GROOVE	4	PR-G120
889	Autotrance	BEAT&GROOVE	4	PR-G121
890	Juno Pop	BEAT&GROOVE	4	PR-G122
891	Compusonic 1	BEAT&GROOVE	4	PR-G123
892	Compusonic 2	BEAT&GROOVE	4	PR-G124
893	80s Combo	COMBINATION	3	PR-G125
894	Analog Days	COMBINATION	3	PR-G126
895	Techno Craft	COMBINATION	3	PR-G127
896	Lounge Kit	COMBINATION	2	PR-G128

GM (GM2 Group)

No	Name	Category	Voices	LSB	PC	No	Name	Category	Voices	LSB	PC
1	Piano 1	AC.PIANO	2	0	1	65	Chorus Gt.	EL.GUITAR	2	1	
2 3	Piano 1w	AC.PIANO	2 2	1 2		66	Mid Tone GTR	EL.GUITAR]]	2	29
3 4	European Pf Piano 2	ac.piano ac.piano	2	0	2	68	Muted Gt. Funk Pop	EL.GUITAR EL.GUITAR	i	1	29
5	Piano 2w	AC.PIANO	2	1	2	69	Funk Gt.2	EL.GUITAR	i	2	
6	Piano 3	AC.PIANO	2	0	3	70	Jazz Man	EL.GUITAR	i	3	
7	Piano 3w	AC.PIANO	2	1		71	Overdrive Gt	DIST.GUITAR	2	0	30
8	Honky-tonk	AC.PIANO	2	0	4	72	Guitar Pinch	DIST.GUITAR	ī	1	00
9 10	Honky-tonk 2 E.Piano 1	ac.piano El.piano	2 1	4 0	5	73	DistortionGt	DIST.GUITAR	1	0	31
-						74	Feedback Gt.	DIST.GUITAR	2	1	
11 12	St.Soft EP FM+SA EP	EL.PIANO EL.PIANO	3 3	1 2		75 76	Dist Rtm GTR	DIST.GUITAR El.GUITAR	2	2	32
13	Wurly	EL.PIANO	1	3		77	Gt.Harmonics Gt. Feedback	EL.GUITAR	1	1	32
14	E.Piano 2	EL.PIANO	4	0	6	78	Acoustic Bs.	BASS	i	Ö	33
15	Detuned EP 2	EL.PIANO	4	1		79	Fingered Bs.	BASS	3	0	34
16	St.FM EP	EL.PIANO	4	2		80	Finger Slap	BASS	3	1	
1 <i>7</i>	EP Legend	EL.PIANO	4 2	3 4		81	Picked Bass	BASS	3	0	35
18 19	EP Phase Harpsichord	el.Piano Keyboards	2	0	7	82	Fretless Bs.	BASS	2	0	36
20	Coupled Hps.	KEYBOARDS	7	1	,	83	Slap Bass 1	BASS	2	0	37
21		KEYBOARDS	2	2		84 85	Slap Bass 2	BASS SYNTH BASS	3 1	0	38 39
22	Harpsi.w Harpsi.o	KEYBOARDS	4	3		86	Synth Bass 1 SynthBass101	SYNTH BASS	i	1	39
23	Clav.	KEYBOARDS	2	0	8	87	Acid Bass	SYNTH BASS	i	2	
24	Pulse Clav	KEYBOARDS	2	1		88	Clavi Bass	SYNTH BASS	2	3	
25	Celesta	KEYBOARDS	1	0	9	89	Hammer	SYNTH BASS	2	4	
26 27	Glockenspiel	BELL	1 2	0	10 11	90	Synth Bass 2	SYNTH BASS	3	0	40
28	Music Box Vibraphone	BELL MALLET	1	0	12	91	Beef FM Bass	SYNTH BASS	2	1	
29	Vibraphone w	MALLET	i	1	12	92	RubberBass 2	SYNTH BASS	2	2	
30	Marimba	MALLET	i	Ö	13	93 94	Attack Pulse Violin	SYNTH BASS STRINGS	1 1	3 0	41
31	Marimba w	MALLET	1	1		95	Slow Violin	STRINGS	i	1	41
32	Xylophone	MALLET	i	Ó	14	96	Viola	STRINGS	i	Ö	42
33	Tubular-bell	BELL	i	0	15	97	Cello	STRINGS	i	0	43
34	Church Bell	BELL	1	1		98	Contrabass	STRINGS	1	0	44
35	Carillon	BELL	4	2	1.	99	Tremolo Str	STRINGS	4	0	45
36 37	Santur	PLUCKED ORGAN	4 3	0	16 17	100	PizzicatoStr	STRINGS	4	0	46
38	Organ 1 Trem. Organ	ORGAN	2	1	17	101	Harp	PLUCKED	2	0	47
39	60's Organ 1	ORGAN	ī	2		102	Yang Qin	PLUCKED	3	1	40
40	70's E.Örgan	ORGAN	2	3		103	Timpani Strings	PERCUSSION STRINGS	4 4	0	48 49
41	Organ 2	ORGAN	3	0	18	104	Orchestra	ORCHESTRA	7	1	47
42	Chorus Or.2	ORGAN	3	i		106	60s Strings	STRINGS	4	2	
43	Perc. Organ	ORGAN	4	2		107	Slow Strings	STRINGS	4	0	50
44	Organ 3	ORGAN	4	0	19	108	Syn.Strings 1	STRINGS	3	0	51
45	Church Org.1	ORGAN	2	0	20	109	Syn.Strings3	STRINGS	3	1	50
46 47	Church Org.2 Church Org.3	ORGAN ORGAN	4 6	1 2		110	Syn.Strings2	SOFT PAD	2	0	52
48	Reed Organ	ORGAN	3	0	21	111	Choir Aahs	VOX	4	0	53
49	Puff Organ	ORGAN	ī	i		112	Chorus Aahs	VOX VOX	4 4	1 0	54
50	Accordion Fr	ACCRDION	3	0	22	114	Voice Oohs Humming	VOX	4	1	34
51	Accordion It	ACCRDION	3	1		115	SynVox	VOX	4	Ö	55
52	Harmonica	HARMONICA	2	0	23	116	Analog Voice	VOX	2	1	
53	Bandoneon	ACCRDION	3	0	24	117	OrchestraHit	HIT&STAB	2	0	56
54	Nylon-str.Gt	AC.GUITAR	1	0	25	118	Bass Hit	HIT&STAB	2	1	
55 54	Ukulele	AC.GUITAR	1	1		119	6th Hit	HIT&STAB	2	2	
56 57	Nylon Gt.o Nylon Gt.2	AC.GUITAR AC.GUITAR	2 1	2		120	Euro Hit	HIT&STAB	2	3	
58	Steel-str.Gt	AC.GUITAR	4	0	26	121	Trumpet	AC.BRASS	2	0	57
59	12-str.Gt	AC.GUITAR	3	1	•	122 123	Dark Trumpet Trombone	AC.BRASS	1 1	1 0	50
60	Mandolin	AC.GUITAR	2	2		123	Trombone Trombone 2	AC.BRASS AC.BRASS	2	1	58
61	Steel + Body	AC.GUITAR	4	3		124	Bright Tb	AC.BRASS	2	2	
62	Jazz Gt.	EL.GUITAR	ī	Ö	27	126	Tuba	AC.BRASS	ī	ō	59
63	Pedal Steel	EL.GUITAR	1	1		127	MutedTrumpet	AC.BRASS	3	0	60
64	Clean Gt.	EL.GUITAR	1	0	28	128	MuteTrumpet2	AC.BRASS	1	1	

Patch List

No	Name	Category	Voices	LSB	PC	No	Name	Category	Voices	LSB	PC
129	French Horns	AC.BRASS	3	0	61	193	Sitar	PLUCKED	2	0	105
130	Fr.Horn 2	AC.BRASS	1	1		194	Sitar 2	PLUCKED	5	1	
131	Brass 1	AC.BRASS	4	0	62	195	Banjo	FRETTED	2	0	106
132	Brass 2	AC.BRASS	4	ĭ	02	196	Shamisen	PLUCKED	2	0	107
133	Synth Brass 1	SYNTH BRASS	4	0	63	197 198	Koto Taisho Koto	PLUCKED PLUCKED	4 3	0 1	108
134	JP Brass	SYNTH BRASS	4	1		199	Kalimba	PLUCKED	3 1	0	109
135	Oct SynBrass	SYNTH BRASS	4	2		200	Bagpipe	ETHNIC	3	0	110
136	Jump Brass	SYNTH BRASS	3	3		I —					
137	Synth Brass2	SYNTH BRASS	3	0	64	201	Fiddle Shanai	STRINGS	1	0	111 112
138 139	SynBrass sfz Velo Brass 1	SYNTH BRASS SYNTH BRASS	2	2		202	Tinkle Bell	ETHNIC BELL	2	0	112
140	Soprano Sax	SAX	1	Ó	65	203	Agogo	PERCUSSION	1	0	114
	'		·			205	Steel Drums	MALLET	2	Ö	115
141	Alto Sax	SAX	1 1	0	66	206	Woodblock	PERCUSSION	1	0	116
142 143	Tenor Sax Baritone Sax	SAX SAX	i	0	67 68	207	Castanets	PERCUSSION	1	1	
144	Oboe	WIND	3	Ö	69	208	Taiko	PERCUSSION	3	0	11 <i>7</i>
145	English Horn	WIND	ĩ	Ö	70	209	Concert BD	PERCUSSION	4	1	110
146	Bassoon	WIND	1	0	<i>7</i> 1	210	Melo. Tom 1	PERCUSSION	1	0	118
147	Clarinet	WIND	2	0	72	211	Melo. Tom 2	PERCUSSION	1	1	
148	Piccolo	FLUTE	2	0	73	212	Synth Drum	PERCUSSION	1	0	119
149	Flute	FLUTE	2	0	74	213	808 Tom	PERCUSSION	1	1	
150	Recorder	FLUTE	1	0	75	214	Elec Perc	PERCUSSION	1	1	100
151	Pan Flute	FLUTE	1	0	76	215	Reverse Cym.	PERCUSSION	1 1	0	120 121
152	Bottle Blow	FLUTE	2	0	77	217	Gt.FretNoise Gt.Cut Noise	AC.GUITAR AC.GUITAR	i	1	121
153	Shakuhachi	ETHNIC	2	0	78	218	String Slap	AC.GUITAR	i	2	
154	Whistle	FLUTE	2	0	79	219	Breath Noise	SYNTH FX	i	0	122
155 156	Ocarina Sauare Wave	FLUTE	3 2	0	80 81	220	Fl.Key Click	SYNTH FX	1	1	
157	MG Square	HARD LEAD HARD LEAD	1	1	01	221	Seashore	SOUND FX	2	0	123
158	2600 Sine	HARD LEAD	i	2		222	Rain	SOUND FX	2	1	125
159	Saw Wave	HARD LEAD	2	0	82	223	Thunder	SOUND FX	1	2	
160	OB2 Saw	HARD LEAD	1	1		224	Wind	SOUND FX	2	3	
161	Doctor Solo	HARD LEAD	2	2		225	Stream	SOUND FX	2	4	
162	Natural Lead	HARD LEAD	2	3		226	Bubble	SOUND FX	2	5	
163	SequencedSaw		2	4		227	Bird	SOUND FX	2	0	124
164	Syn.Calliope	SOFT LEAD	2	0	83	228	Dog	SOUND FX	1	1 2	
165	Chiffer Lead	SOFT LEAD	2	0	84	229	Horse-Gallop Bird 2	SOUND FX SOUND FX	1 1	3	
166	Charang	HARD LEAD	2	0	85						
167	Wire Lead	HARD LEAD	2	1	0.4	231	Telephone 1	SOUND FX	1	0	125
168 169	Solo Vox	SOFT LEAD	2	0	86 87	232	Telephone 2	SOUND FX	1 1	1 2	
170	5th Saw Wave Bass & Lead	HARD LEAD HARD LEAD	2 2	0	88	233	DoorCreaking Door	SOUND FX SOUND FX	i	3	
						235	Scratch	SOUND FX	i	4	
171	Delayed Lead	HARD LEAD	2	1	00	236	Wind Chimes	SOUND FX	2	5	
1 <i>7</i> 2 1 <i>7</i> 3	Fantasia Warm Pad	OTHER SYNTH SOFT PAD	4 1	0	89 90	237	Helicopter	SOUND FX	1	0	126
173	Sine Pad	SOFT PAD	2	1	90	238	Car-Engine	SOUND FX	1	1	
175	Polysynth	OTHER SYNTH	2	Ö	91	239	Car-Stop	SOUND FX	1	2	
176	Space Voice	VOX	4	Ō	92	240	Car-Pass	SOUND FX	1	3	
1 <i>77</i>	ltopia .	VOX	3	1		241	Car-Crash	SOUND FX	2	4	
1 <i>7</i> 8	Bowed Glass	SOFT PAD	3	0	93	242	Siren	SOUND FX	1	5	
179	Metal Pad	BRIGHT PAD	4	0	94	243	Train	SOUND FX	1	6	
180	Halo Pad	BRIGHT PAD	3	0	95	244	Jetplane	SOUND FX	3 4	7 8	
181	Sweep Pad	SOFT PAD	3	0	96	245 246	Starship Burst Noise	SOUND FX SOUND FX	2	9	
182	Ice Rain	OTHER SYNTH	3	0	97	247	Applause	SOUND FX	2	ó	127
183	Soundtrack	SOFT PAD	5	0	98	248	Laughing	SOUND FX	ī	i	/
184 185	Crystal Syn Mallet	BELL BELL	2 2	0 1	99	249	Screaming	SOUND FX	1	2	
186	Atmosphere	AC.GUITAR	3	0	100	250	Punch	SOUND FX	1	3	
187	Brightness	OTHER SYNTH	4	0	100	251	Heart Beat	SOUND FX	1	4	
188	Goblin	PULSATING	3	Ö	102	252	Footsteps	SOUND FX	i	5	
189	Echo Drops	BRIGHT PAD	2	Ö	103	253	Gun Shot	SOUND FX	i	Ö	128
190	Echo Bell [']	BRIGHT PAD	3	1		254	Machine Gun	SOUND FX	1	1	
191	Echo Pan	BRIGHT PAD	2	2		255	Lasergun	SOUND FX	1	2	
192	Star Theme	BRIGHT PAD	3	Õ	104	256	Explosion	SOUND FX	2	3	
	- ·-		-								

Rhythm Set List

USER (User Group)

No	Name
1	SonicCellKit
2	WD Std Kit
3	LD Std Kit
4	TY Std Kit
5	StandardKit1
6 7	StandardKit2
	StandardKit3
8	Rock Kit 1
9	Rock Kit 2
10	Brush Jz Kit
11	Orch Kit
12	909 808 Kit
13	Limiter Kit
14	HipHop Kit 1
15	R&B Kit
16	HiFi R&B Kit
1 <i>7</i>	Machine Kit1
18	Kit-Euro:POP
19	House Kit
20	Nu Technica
21	Machine Kit2
22	ArtificalKit
23	Noise Kit
24	Kick Menu
25	Snare Menu
26	Snr/Rim Menu
27	HiHat Menu
28	Tom Menu
29	Clp&Cym&Hit
30	FX/SFX Menu
31	Percussion
32	Scrh&Voi&Wld

^{*} Rhthm Set are common to Preset Group and User Group.

PRST (Preset Group)

No	Name
1	SonicCellKit
2	WD Std Kit
3	LD Std Kit
4	TY Std Kit
5	StandardKit1
6 7	StandardKit2
7	StandardKit3
8	Rock Kit 1
9	Rock Kit 2
10	Brush Jz Kit
11	Orch Kit
12	909 808 Kit
13	Limiter Kit
14	HipHop Kit 1
15	R&B Kit
16	HiFi R&B Kit
1 <i>7</i>	Machine Kit1
18	Kit-Euro:POP
19	House Kit
20	Nu Technica
21	Machine Kit2
22	ArtificalKit
23	Noise Kit
24	Kick Menu
25	Snare Menu
26	Snr/Rim Menu
27	HiHat Menu
28	Tom Menu
29	Clp&Cym&Hit
30	FX/SFX Menu
31	Percussion
32	Scrh&Voi&Wld

GM (GM Group)

No	Name
1	GM2 STANDARD
2	GM2 ROOM
3	GM2 POWER
4	GM2 ELECTRIC
5	GM2 ANALOG
6	GM2 JAZZ
7	GM2 BRUSH
8	GM2 ORCHSTRA
9	GM2 SFX

	USER (User G	roup)/PRS (Pre	set Group)			
Prst:	1	2	3	4 4	5	6
User: Note No.	SonicCellKit	WD Std Kit	LD Std Kit	TY Std Kit	5 5 StandardKit1	6 StandardKit2
28	Dance Kick	Dance Kick	Dance Kick	Dance Kick	MaxLow Kick2	Dance Kick
29	Dry Kick 1 Snr Roll	Dry Kick 1 Snr Roll	Dry Kick 1 Snr Roll	Dry Kick 1 Snr Roll	Rk CmpKick Gospel Clap	Dry Kick 1 Snr Roll
31	Power Kick	Power Kick	Power Kick	Power Kick	Sweep Bass	Power Kick
32	Amb.Snr 2	Amb.Snr 2	Amb.Snr 2	Amb.Snr2 p	Sft Snr Gst	Amb.Snr 2p
33	Power Kick Reg.PHH	Reg.Kick 2 Reg.PHH	Reg.Kick 2 Reg.PHH	Power Kick Reg.PHH	HipHop Kick2 Reg.PHH	Power Kick Reg.PHH
35	Reg.Kick	Reg.Kick 1	Reg.Kick 1	Reg.Kick	Reg.Kick 1	Reg.Kick 1
C2 36	SF Kick T SF CStk	WD Kick WD CStk	LD Kick LD CStk	TY Kick TY CStk	Reg.Kick 2 Reg.Stick	Reg.Kick 2 Wild Stick
<u>37</u> 38	SF Snr	WD Snr	LD Snr	TY Snr	Reg.Snr 2	Amb.Snr 1
40 39	SF Snr Gst SF Rim	SF Snr Gst WD Rim	Reg.Snr Gst LD Rim	SF SnrGst TY Rim	Reg.Snr Gst Reg.Snr 1	Reg.Snr Gst Amb.Snr 2
	RR F.Tom	RR F.Tom	RR F.Tom	RR F.Tom	Reg.F.Tom	Reg.F.Tom
41 42	Reg.CHH 1	Reg.CHH 1	Reg.CHH 1	Reg.CHH 1	Reg.CHH 1	Reg.CHH 1
43	SF L.Tom Reg.CHH 2	TY L.Tom Reg.CHH 2	LD L.Tom Reg.CHH 2	TY L.Tom Reg.CHH 2	Reg.L.Tom Reg.CHH 2	Reg.L.Tom Reg.CHH 2
45	SF M.Tom	TY M.Tom	LD M.Tom	TY M.Tom	Reg.M.Tom 1	Reg.M.Tom
46	Reg.OHH SF MT Flm	Reg.OHH TY M.Tom	Reg.OHH LD M.Tom	Reg.OHH TY M.Tom	Reg.OHH Reg.M.Tom 2	Reg.OHH Reg.M.TomFlm
C3 48	SF H.Tom	TY H.Tom	LD H.Tom	TY H.Tom	Reg.H.Tom 1	Reg.H.Tom
49	Crash Cym1a SF HT Flm	Crash Cym1a	Crash Cym1a	Crash Cym 2	Crash Cym1	Crash Cymla
50 51	Rock Ride 1	TY H.Tom Rock Ride 1	LD H.Tom Rock Ride 1	TY H.Tom Rock Ride 1	Reg.H.Tom 2 Rock Ride	Reg.H.TomFlm Rock Ride 1
52	China Cymbal	China Cymbal	China Cymbal	China Cymbal	China Cymbal	China Cymbal
53	Splash Cym Tamborine2	Splash Cym Tamborine 3	Splash Cym Tamborine 3	Splash Cym Tamborine2	Ride Edge Tamborine	Splash Cym Tamborine
55 55	Rock Crash 1	Rock Crash 1	Rock Crash 1	Crash Cym1a	Crash Cym2a	Rock Crash 1
56	Cowbell3	Cowbell3	Cowbell3	Cowbell3	Cowbell Low	Cowbell Hi
57 58	Crash Cym1b Cowbell2 Lng	Crash Cym1b Cowbell2 Lng	Crash Cym1 Cowbell	Crash Cym1b Cowbell2 Lng	Crash Cym2b Cowbell Hi	Crash Cym1b Cowbell Low
59	Rock Ride 2	Rock Ride 2	Rock Ride 2	Rock Ride 2	Ride Bell	Rock Ride 2
C4 60	Conga 2H Mt Conga 2L Mt	Conga Hi Mt Conga Lo Mt	Conga 2H Mt Conga 2L Mt	Conga 2H Mt Conga 2L Mt	Conga Hi Mt Conga Lo Mt	Conga Hi Mt Conga Lo Mt
62	Conga 2H Slp	Conga Hi Slp	Conga 2H Slp	Conga 2H Slp	Conga Lo	Conga Hi Slp
64 63	Conga 2H Op	Conga Hi Op	Conga 2H Op	Conga 2H Op	Conga Hi Op	Conga Hi Op
	Conga 2L Op Timbare 4	Conga Lo Op Timbale Hi	Conga Lo Op Timbale 1	Conga 2L Op Timbare 4	Conga Lo Op Timbale Hi	Conga Lo Op Timbale Hi
65 66	Timbare 3	Timbale Low	Timbale 2	Timbare 3	Timbale Low	Timbale Low
67	Agogo 2 Hi Agogo 2 Low	Mild Agogo H Mild Agogo L	Agogo 2 Hi Agogo 2 Low	Agogo 2 Hi Agogo 2 Low	Agogo Bell H Agogo Bell L	Mild Agogo H Mild Agogo L
69	Cabasa 2	Cabasa Up	Cabasa 2	Cabasa 2	Cabasa Up	Cabasa Up
71	Shaker 2 Whistle Shrt	Maracas Whistle Shrt	Shaker 2 Whistle Shrt	Shaker 1 Whistle Shrt	Maracas Whistle Shrt	Maracas Whistle Shrt
C5 72	Whistle Long	Whistle Long	Whistle	Whistle Long	Whistle Long	Whistle Long
73	Guiro 2 Up	Guiro Short	Guiro 2 Up	Guiro 2 Up	Guiro Short	Guiro Short
74 75	Guiro 2 Down Claves 2	Guiro Long Claves	Guiro Long Claves 2	Guiro 2 Down Claves 2	Guiro Long Claves	Guiro Long Claves
76	Wood Block2H	Wood Block H	Wood Block2H	Wood Block2H	Wood Block H	Wood Block H
77 78	Wood Block2L Cuica 2 Low	Wood Block L Cuica Mute	Wood Block2L Cuica 2 Low	Wood Block2L Cuica 2 Low	Wood Block L Cuica Mute	Wood Block L Cuica Mute
79	Cuica 2 Hi	Cuica Mule Cuica Open	Cuica 2 Hi	Cuica 2 Hi	Cuica Open	Cuica Mule Cuica Open
80	Triangle Mt	Triangle Mt	Triangle Mt	Triangle Mt	Triangle Mt	Triangle Mt
81 82	Triangle Op Cabasa2 Cut	Triangle Op Cabasa Cut	Triangle Op Cabasa2 Cut	Triangle Op Cabasa2 Cut	Triangle Op Cabasa Cut	Triangle Op Cabasa Cut
83	DigiSpectrum	DigiSpectrum	DigiSpectrum	DigiSpectrum	Castanet	DigiSpectrum
C6 84	Wind Chime Wood Block2M	Wind Chime Wood Block M	Wind Chime Wood Block2M	Wind Chime Wood Block2M	Bongo Hi Mt Bongo Hi Slp	Wind Chime Wood Block M
86	Cajon 2	Cajon 2	Cajon 2	Cajon 2	Bongo Lo Slp	Cajon 2
88	ConcertBD R&B Kick	ConcertBD	ConcertBD R&B Kick	ConcertBD	Bongo Hi Op	ConcertBD
	Dry Kick 2	R&B Kick Dry Kick 2	Dry Kick 2	R&B Kick Dry Kick 2	Bongo Lo Op Cajon 1	R&B Kick Dry Kick 2
89 90	Oľd Kick	Oľd Kick	Oľd Kick	Oľd Kick	Cajon 2	Oľd Kick
91	Jazz Doos Agogo Noise	Jazz Doos Agogo Noise	Jazz Doos Agogo Noise	Jazz Doos Agogo Noise	Cajon 3 Vint Snr 2	Jazz Doos Agogo Noise
93	Rock OHH	Rock OHH	Rock OHH	Rock OHH	Shaker 3	Rock OHH
95	JD Anklungs	JD Anklungs	JD Anklungs	JD Anklungs	WD Rim	JD Anklungs
C7 96	Rock OHH Cajon 3	Rock OHH Cajon 3	Rock OHH Cajon 3	Rock OHH Cajon 3	Mix Kick 1 Mix Kick 2	Rock OHH Mix Kick 1
97	Cajon 1	Cajon 1	Cajon 1	Cajon 1	Mix Kick 3	Cajon 1
98	Mix Kick 4 Gospel Clap	Mix Clap Gospel Clap	Mix Kick 4 Gospel Clap	TY Rim f Gospel Clap	Mix Kick 4 Mix Kick 5	Mix Kick 2 Gospel Clap
100	Bright Clap	Bright Clap	Bright Clap	Bright Clap	Mix Clap 1	Bright Clap
101	Rock Rd Cup Cowbell	Rock Rd Cup Cowbell	Rock Rd Cup Cowbell	Rock Rd Cup Cowbell	Wind Chime Tibet Cymbal	Rock Rd Cup Cowbell
102 103	Crash Cym 2	Crash Cym 2	Crash Cym 2	Crash Cym 2	Crotale	Crash Cym 2
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Prst:	7	8	9	10 10	11	12 12
User:	7 StandardKit3	8 Rock Kit 1	9 Rock Kit 2	10 Brush Jz Kit	11 Orch Kit	12 909 808 Kit
Note No. 28	HipHop Kick2	R&B Kick	MaxLow Kick2	TR909 Kick1a	Timpani Roll	TR909 Kick 2
29	Syn Swt Atk1	Rk CmpKick	MaxLow Kick1	TR909 Kick1b	ConcertBD 2	TR909 Kick 4
30	Lo-Bit Stk 1 TR707 Kick	Sft Snr Gst Dry Kick 4	LD Rim mf Power Kick	Jazz Snr Reg.Kick 1	R8 Shaker 1 Jngl pkt Snr	Urbn Sn Roll TR909 Kick 5
31 32	TR808 Snr 5	Snr Roll	Mix Clap 2	Soft Jz Roll	Reverse Cym	TR909 Snr 3
33	Vint Kick 1	SH32 Kick	Vint Kick	Reg.Kick 2	Snr Roll	TR909 Kick 3
35	Reg.PHH Vint Kick 2	Reg.PHH Reg.Kick 1	Rock CHH2 Rock Kick	Reg.PHH Jazz Kick 1	Jazz Ride Timpani Roll	TR909 PHH 2 TR909 Kick 6
C2 36	Old Kick 1	Reg.Kick 2	Rk CmpKick	Jazz Kick 2	ConcertBD 1	TR909 Kick 1
37	Lo-Bit Stk 4 Reg.Snr 1	Reg.Stick Reg.Snr2	Wild Stick Maple Snr	Hard Stick Jazz Rim	Hard Stick Amb.Snr 2	TR909 Rim TR909 Snr 1
38	Amb Clap	Reg.Snr Gst	Sft Snr Gst	Jz Brsh Swsh	Gospel Clap	TR909 Clap 1
40	TY Rim	Reg.Snr1	Reg.Snr1	Jazz Snr	Concert SD	TR909 Snr 2
41	Jazz Lo Tom1 Reg.CHH 1	Reg.F.Tom Reg.CHH 1	Sharp L.Tom1 Rock CHH 1	Reg.F.Tom 1 Reg.CHH 1	Timpani F Timpani F#	TR909 Tom L TR909 CHH 1
43	Jazz Lo Tom2	Reg.L.Tom	Sharp L.Tom2	Reg.L.Tom 1	Timpani G	TR909 Tom L
44	Reg.CHH 2	Reg.CHH 2	Reg.PHH	Reg.CHH 2	Timpani G#	TR909 PHH 1
45	Jazz Mid Tom Reg.OHH	Reg.M.Tom Reg.OHH	Sharp L.Tom3 Rock OHH	Reg.M.Tom 1 Reg.OHH	Timpani A Timpani A#	TR909 Tom M TR909 OHH 2
47	Jazz Mid Tom	Reg.M.TomFlm	Sharp H.Tom1	Reg.M.Tom 1	Timpani B	TR909 Tom M
C3 48	Jazz Hí Tom Crash Cym 1	Reg.H.Tom Crash Cym1a	Sharp H.Tom2 Crash Cym1	Reg.H.Tom 1 Jazz Crash	Timpani C Timpani C#	TR909 Tom H TR909 Crash
50	Jazz Hi Ťom	Reg.H.TomFlm	Sharp H.Tom3	Reg.H.Tom 1	Timpani D	TR909 Tom H
52 52	Rock Rd Edge China Cymbal	Rock Ride 1 China Cymbal	Ride Cymbal China Cymbal	Jazz Ride 1 China Cym 1	Timpani D# Timpani E	TR909 Ride 1 TR909 Crash1
	Rock Rd Cup	Splash Cym	Ride Bell	Ride Edge	Timpani f	TR909 Ride 2
53 54	Tamborine	Tamborine	Tamborine 3	Tamborine	Tamborine 3	CR78 Tamb 1
55 56	Splash Cym Cowbell	Rock Crash 1 Cowbell Hi	Rock Crash 2 Cowbell Mute	Crash Cym Cowbell Low	Concert Cym Cowbell Mute	TR909 Crash2 JD Sm Metal
57	Rock Crash 2	Crash Cym1b	Splash Cym	Crash Cym	Concert Cym2	TR909 Ride 3
58 59	TR808 Cym Jazz Ride	Cowbell Low Rock Ride 2	Cowbell Rock Rd Cup	Cowbell Hi Ride Bell	Ride Cymbal Crash Cym1	Syn Swt Atk3 TR808 Kick 1
C4 60	Bongo Hi	Conga Hi Mt	Conga Hi Mt	Conga Hi Mt	Bongo Hi Op	TR808 Kick 2
61	Bongo Lo	Conga Lo Mt	Conga Lo Mt	Conga Lo Mt	Bongo Lo Op	TR808 Rim
62	Conga Hi Mt Conga Hi	Conga Hi Slp Conga Hi Op	Conga Slp Op Conga Hi Op	Conga Lo SIp Conga Hi Op	Conga Hi Mt Conga Hi Op	TR808 Snr 2 TR808 Clap 2
64	Conga Lo	Conga Lo Op	Conga Lo Op	Conga Lo Op	Conga Lo Op	TR808 Snr 4
65	Timbale Hi Timbale Low	Timbale Hi Timbale Low	Timbale Hi Timbale Low	Timbale Hi Timbale Low	Timbale Hi Timbale Low	TR808 Tom L TR808 CHH 1
66 67	Cowbell Hi	Agogo Bell H	Agogo Bell H	Agogo Bell H	Agogo Bell H	TR808 Tom L
68	Cowbell Low	Agogo Bell L	Agogo Bell L	Agogo Bell L	Agogo Bell L	TR808 CHH 2
69 70	Cabasa Shaker	Cabasa Up Maracas	Cabasa Up Maracas	Cabasa Up Maracas	Cabasa Up Maracas	TR808 Tom M TR808 OHH 1
71	Noise OHH 2	Whistle Shrt	Whistle Shrt	Jazz Kick 1	Whistle Shrt	TR808 Tom M
C5 72	Scratch 5 Syn Low Atk2	Whistle Long Guiro Short	Whistle Long Guiro Short	Jazz Kick 2 Hard Stick	Whistle Long Guiro Short	TR808 Tom H TR808Cowbell
73 74	MG Zap 3	Guiro Long	Guiro Long	Jazz Rim	Guiro Long	TR808 Tom H
75 76	Syn Swt Atk1 Syn Swt Atk4	Claves Wood Block H	Claves Wood Block H	Sft Snr Gst Jazz Snr	Claves Wood Block H	TR606 Cym TR606 OHH 1
	Bongo Hi Slp	Wood Block L	Wood Block L	Reg.F.Tom 2	Wood Block L	TR606 OHH 2
77 78	Noise OHH	Cuica Mute	Cuica Mute	Reg.CHH 1	Cuica Mute	CR78 Tamb 2
79 80	Noise CHH Triangle 1	Cuica Open Triangle Mt	Cuica Open Triangle Mt	Reg.L.Tom 2 Reg.CHH 2	Cuica Open Triangle Mt	CR78 OHH 1 Cowbell Mute
81	Triangle 2	Triangle Op	Triangle Op	Reg.M.Tom 2	Triangle Op	CR78 OHH 2
83	Cajon 1 Cajon 3	Cabasa Cut DigiSpectrum	Cabasa Cut Wind Chime	Reg.OHH Reg.M.TomFlm	Cabasa Cut Finger Snap	Syn Swt Atk5 TR808 OHH 2
C6 84	Wind Chime	Wind Chime	Dist Chord 1	Reg.H.Tom 2	Wind Chime	808 Maracas
85	SprgDrm Hit	Dist Chard 1	Dist Chord 2 Dist Chord 3	Jazz Cymbal Reg.H.TomFlm	Tibet Cymbal	TR808 Claves Triangle Mt
86 88	Crotale R8 Click	Dist Chord 2 Dist Chord 3	Dist Chord 3 Dist Chord 4	Jazz Ride 2	Vibraslap Crotale	Triangle Op
88	Metro Bell	Dist Chord 4	Dist Chord 5	China Cym 2	Applause	Narrow Hit 2
89 90	DR202 Beep Reverse Cym	Dist Chord 5 Rock CHH 2	Dist Chord 6 Rock CHH 2	Cajon 1 Cajon 2	TubulrBel F TubulrBel F#	TR808 Cym1 MG Zap 4
91	Xylo Seq. '	Cowbell 2a	Dist Chord 7	Cajon 3	TubulrBel G	Scratch 1
92 93	Vinyl Noise Mobile Phone	Rock CHH 1 Cowbell 2b	DistGtr Nz 1 DistGtr Nz 2	Vint Snr 2 Shaker 3	TubulrBel G# TubulrBel A	MG Zap 1 TR606 Snr 2
94	Group Snap	Rock OHH	DistGtr Nz 3	WD Rim f	TubulrBel A#	Synth Saw
95	Laser	Fng.EB2 Sld	JD Switch	Mix Kick 1	TubulrBel B	Digi Breath
C7 96 97	Siren AnalogKick 3	Cajon 3 Cajon 2	Cajon 3 Cajon 2	Mix Kick 2 Mix Kick 3	TubulrBel C TubulrBel C#	TR808 Cym2 TR808 Conga1
98	Old Kick 2	Cajon 1	Cajon 1	Mix Kick 4	TubulrBel D	TR808 Conga2
100	Reg.Kick TR909 Snr 4	Gospel Clap Rock Crash 2	Real Clap Gospel Clap	Mix Kick 5 Mix Clap 1	TubulrBel D# TubulrBel E	Cajon 1 Vint Snr 3
101	TR808 Snr 2	Rock Rd Cup	Tibet Cymbal	Wind Chime	TubulrBel f	Door Creak
102	Short Snr1	Club FinSnap	Tamborine 1	Tibet Cymbal	Church Bell1	Vint.Phone
103	Vint Snr 4	TR909 Snr 6	Tamborine 2	Crotale	Church Bell2	Door Creak

Prst: User:	13 13 Limiter Kit	14 14 HipHop Kit 1	15 15 R&B Kit	16 16 HiFi R&B Kit	17 17 Machine Kit1	18 18 Kit-Euro:POP
Note No. 28	Dance Kick 1 HipHop Kick1 WD CStk	PlasticKick2 Group Snap Snr Roll	70's Kick AnalogKick 6 Urbn Sn Roll	MaxLow Kick2 FB Kick Rough Kick1a	TR909 Kick 2 TR909 Kick 4 Light Snr	TR707 Kick AnalogKick 1 Dirty Snr 6
31 32 33	R&B Kick 1 Wild Stick Dance Kick 2	AnalogKick 3 GoodOld Snr5 Dist Kick	HipHop Kick2 R&B ShrtSnr1 Old Kick	MaxLow Kick1 Rough Kick3 Rk CmpKick	Mix Kick 5 DR660 Snr Mix Kick 2	FB Kick BrushRoll PlasticKick2
35	Hip PHH LD Kick R&B Kick 2	Noise CHH TR707 Kick Dry Kick 4	HipHop CHH EuroHit Kick TR909 Kick 1	TR909 Kick 5 Rough Kick1b R&B Kick	TR808 PHH AnalogKick 6 70's Kick 1	Reg.CHH 2 Power Kick TR909 Kick 6
C2 36 37 38 39	Lo-Bit Stk 2 Wild Stick Dist Clap	Jazz Rim Dirty Snr 2 Old Clap	Dry Stick 4 Dirty Snr 2 Maple Snr	Hard Stick GoodOld Snr3 GoodOld Snr4	TR808 Rim Jngl pktSnr1 Funk Clap	R&B ShrtRim1 TR909 Snr 3 TR909 Clap 1
41 42	DR660 Snr Reg.F.Tom p Lo-Bit CHH 2	Vint Snr 4a TR909 Tom L HipHop CHH 2	Short Snr2 TR808 Tom 1 TR606 CHH 2	GoodOld Snr2 Lo-Bit Snr 1 Noise CHH	Jngl pktSnr2 MG Attack TR808 CHH 1	TR909 Snr ['] 4a Sharp L.Tom2 TR909 CHH 1
43 44	Reg.F.Tom f Lo-Bit CHH 4 Reg.L.Tom	Deep Tom L Lo-Bit PHH TR909 Tom M	Reg.F.Tom TR909 CHH 2 TR808 Tom 2	Jazz Snr Hip PHH Lo-Bit Snr 2	MG Attack TR808 PHH MG Blip	Sharp L.Tom1 TR909 PHH 1 Sharp M.Tom
47 46	Lo-Bit OHH 2 Reg.L.TomFlm Reg.H.Tom	Lo-Bit OHH 2 Deep Tom M TR909 Tom H	Lo-Bit OHH 2 Reg.M.Tom TR808 Tom 3	Reg.OHH Vint Snr 2 WD Snr	TR808 OHH 1 MG Blip Beam HiQ	TR909 OHH 2 Sharp M.Tom Sharp H.Tom
C3 48 49 50 51	Crash Cym 1 Reg.H.TomFlm Lo-Bit OHH 1	Crash Cym1 p Deep Tom H Rock Crash 1	Rock Crash 1 Reg.H.Tom Splash Cym	TR808 Cym 1 GoodOld Snr6 TR606 Cym 2	TR606 Cym 2a Beam HiQ Lo-Bit OHH1a	TR909 Crash Sharp H.Tom TR909 Ride
52 53 54	TR606 Cym 2 Jazz Ride 1 Tamborine 1	Rock Rd Edge China Cymbal Snap	Rock Rd Edge Concert Cym Cheap Clap	White Noise Bright Form CR78 Tamb	TR606 Cym 2 Lo-Bit OHH1b CR78 Tamb 1	China Cymbal Rock Rd Edge Tamborine 3
55 56	TR606 OHH Vibraslap Mix Kick 2	TR808 Conga2 Vint Snr 4 TR808Cowbell	Snap Lo-Bit Snr 2 Wood Block	SBF Hrd Ld 1 JD Sm Metal TR808 Cym 2	TR606 Cym 2b JD Sm Metal 1 Lo-Bit OHH1 c	Crash Cym1 p Cowbell Rock Crash 2
59 C4 60	Hip PHH Mix Kick 2 Rough Kick Dry Stick	Guiro Long Guiro 2 Guiro 1 Shaker 3	Shaku Noise Syn Hrd Atk1 JD MetalWind Maracas	Syn Swt Atk3 TR909 Kick4a TR909 Kick4b TR808 Rim	Syn Swt Atk3 AnalogKick 6 70's Kick 2 R8 Comp Rim	Vibraslap TR606 Cym 2 Bongo Lo Op Bongo Hi Op
61 62 63	GoodOld Snr5 R8 Clap Jngl pkt Snr	Noise CHH Cabasa 2 Vibraslap	Cabasa Up Cabasa Down Cabasa Cut	TR808 Snr 2 TR808 Clap 2 TR808 Snr 4	Pocket Snr TR909 Clap 2 Vint Snr 4	Conga Hi Mt Conga Hi Op Conga Lo Op
65 66	TR808 Tom Noise CHH 1 TR808 Tom	Mix Kick 2 Dist Snr Sweep Bass	Tamborine 1 Tamborine 2 Tamborine 1	TR808 Tom 4 TR808 CHH 1 TR808 Tom 3	TR606 Tom L Dance CHH TR606 Tom L	Conga Efx Shaker 3 Shaker 2
67 68 69 70	Noise CHH 2 TR606 Tom L1 Lo-Bit OHH 2	Short Snr1 CR78 CHH Shaker 2	Triangle Mt Triangle Op Xvlo Sea.	TR808 CHH 2 TR808 Tom 2 TR808 OHH 1	Lo-Bit CHH 1 TR606 Tom M Reg.OHH	CR78 Beat Cabasa Cut 1 Cabasa Cut 2
71 C5 72	TR606 Tom L2 TR606 Tom H1 Crash Cym 2	CR78 Tamb Noise OHH Slight Bell	Philly Hit LoFi Min Hit Vinyl Noise	TR808 Tom 1 Scratch 3 Scratch 4	TRὄ06 Tom M TR606 Tom H TR909 Crash1	Lo-Bit PHH Scratch 7 Syn Low Atk2
74 76	TR606 Tom H2 Jazz Ride 2 Splash Cym	Tibet Cymbal Wind Chime Scratch 2	Cajon 1 Cajon 2 Cajon 3	Scratch 5 Scratch 6 Old Clap	TR606 Tom H Lite OHH 1 TR909 Crash2	MG Zap 7 Syn Swt Atk1 Syn Swt Atk4
77 78	Rock Rd Edge Tamborine 3 Guiro Long	Scratch 1 Scratch 10 Scratch 9	Conga Hi Mt Conga Lo Mt Conga Hi Slp	Hand Clap R8 Clap Cabasa Cut	Lite OHH 2 CR78 Tamb 2 TR909 Crash	Conga Thumb Triangle 1 Triangle 2
80 81 82 83	Gospel Clap Tibet Cymbal Wind Chime	Smear Hit 2 Lofi Min Hit Thin Beef	Conga Lo Slp Conga Hi Op Conga Lo Op	R8 Shaker Tamborine 2 Cabasa Down	JD Sm Metal2 Lite OHH 3 Syn Swt Atk1	Euro Hit 1 Tao Hit Narrow Hit 2
C6 84 85	Mix Kick 1 Mix Kick 2 Mix Kick 4 Viet See 1	Dist Hit Narrow Hit 2 MG Attack	Conga SIp Op Conga Efx Conga Thumb	Cabasa Cut Tibet Cymbal Crotale	TR808 OHH 2 808 Maracas TR808 Claves	Euro Hit 2 Wind Chime Timpani Roll
86 88	Vint Snr 1 Vint Snr 2 Vint Snr 3 Vint Snr 4	MG Zap 9 Mix Clap 3 R8 Shaker Cabasa Down	Noise OHH Shaker 3 Castanet CR78 Beat	Slight Bell Wind Chime Triangle 1 Mild CanWave	Triangle Mt Triangle Op Narrow Hit 2 Euro Hit	Crotale R8 Click Metro Bell MC500 Beep 1
91 91 92	Noise CHH CR78 CHH Noise CHH 3	Cabasa Cut MaxLow Kick1 MaxLow Kick2	CR78 OHH CR78 CHH Lite OHH	Cheap Clap JD Plunk Syn Swt Atk2	MG Zap 4 Scratch 1 MG Zap 1	MC500 Beep 2 Atmosphere Agogo Noise
93 94 95	Noise OHH 2 Noise OHH 1 Heartbeat	Lo-Bit Snr 1 Dance CHH Wild Stick	CR78 Tamb JD Vox Noise Guiro 2 Fast	DistGtr Nz 2 River Bubble	TR606 Snr 2 Synth Saw Digi Breath	Car Slip Group Snap Laser
C7 96 98	Scratch 2 Scratch 5 Scratch 1	MC500 Beep 1 MC500 Beep 2 Gospel Clap	Metro Click Metro Bell Wind Chime	Train Pass LoFi Min Hit Pink Noise	DigiSpectrum Shaker 3 Conga 2H Slp	ConcertBD AnalogKick 3 Old Kick
100 101	Scratch 4 Scratch 6 Mobile Phone	TR606 Cym China Cymbal Rock Crash 2	Crotale Crash Cym1 p TR909 Crash	Agogo Noise SynVox Nz 1 SynVox Nz 2	Cajon 1 Vint Snr 3 Door Creak 1	Reg.Kick TR909 Snr 4b TR808 Snr 2
103	Sweep Bass 1 Sweep Bass 2	CR78 OHH Concert Cym	CR78 OHH Rev.Lite OHH	R8 Click Syn Swt Atk1	Vint.Phone Door Creak 2	Vint Snr 4 Light Snr

	10	0.0	0.1	00	0.0	0.4
Prst:	19 19	20 20	21 21	22 22	23 23	24 24 Kick Menu
User: Note No.	House Kit	Ñu Technica	Machine Kit2	ĀrtificalKit	Noise Kit	Řick Menu
28	TR909 Kick 3	SH32 Kick 1	AnalogKick 5	TR909 Kick 2	TR909 Kick 2	
29	SH32 Kick	JD EML 5th 1	AnalogKickóa	AnalogKick 2	TR909 Kick 4	
30	Urbn Sn Roll TR909 Kick 2	AnalogKick 6 TR909 Kick 5	Analog Snr 1 AnalogKick1a	TR808 Snr 5 TR909 Kick 3	Urbn SnRoll1 TR909 Kick 5	
31 32	TR909 Snr 6	Plastic Kc3a	TR808 Snr 4	Vint Snr 3	Door Creak 1	
33	TR909 Kick 5	R&B Kick	FB Kick	FB Kick	TR909 Kick 1	
35	TR909 PHH 2	TR707 Kick	TR808 PHH	TR606 Cym 2a	SynSwt Atk7a	
35	TR909 Kick4a TR909 Kick4b	Plastic Kc3b SH32 Kick 2	AnalogKick6b AnalogKick6c	AnalogKick 3 TVF Trigger	Cajon 3a Cajon 3b	Reg.Kick p Reg.Kick f
C2 36 37	TR909 Rim	TR909 Snr 5	R&B ShrtRim2	TR909 Rim	Laser	Reg.Kick ff
38	TR909 Snr 4	Syn Mtl Atk2	TR909 Snr 1	TR909 Snr 1	Door Creak2a	Rock Kick p
40 39	TR909 Clap 2 TR909 Snr 5	Flange Snr TR909 Snr 3	TR707 Clap Lo-Bit Snr 2	Claptail TR909 Snr 3	Train Pass Door Creak2b	Rock Kick f
40	TR909 Tom L	Dance CHH	Deep Tom L	TR909 Tom L2	Syn Swt AtkL	Jazz Kick p Jazz Kick mf
41 42	TR909 CHH 2	TR606DstCHH1	TR606 CHH 1	TR909 CHH 1	SynSwt Atk7b	Jazz Kick f
43	TR909 Tom L	TR909 PHH 2	Deep Tom L	TR909 Tom L1	Syn Swt AtkL	Dry Kick 1
44	TR909 PHH 2 TR909 Tom M	TR606 PHH 2a TR909 OHH 1	TR606 PHH 1	TR909 PHH 1 TR909 Tom M2	Syn Mtl Atk2	Tight Kick Old Kick
45	TR909 OHH 2	Lite OHH	Deep Tom M TR909 OHH 2	TR909 OHH 2	Syn Swt AtkM White Noise	Jz Dry Kick
47	TR909 Tom M	Rock Rd Cup	Deep Tom M	TR909 Tom M1	Syn Swt AtkM	Dry Kick 2
C3 48	TR909 Tom H	Syn Hrd Atk4	Deep Tom H	TR909 Tom H2	Syn Swt AtkH	Dry Kick 3
49	TR909 Crash1 TR909 Tom H	MG Zap 7a MG Zap 9	Lite OHH Deep Tom H	TR909 Crash TR909 Tom H1	Syn Mtl Atk1 Syn Swt AtkH	Power Kick R&B Kick L
50 51	TR909 Ride 1	MG Zap 8	TR808 OHH 1	TR909 Ride	SynLow Atk1a	Rk CmpKick
52	TR909 Crash2	MG Zap 10	TR606 Cym 2a	White Noise1	Crotale 1	Dance Kick
53	TR909 Ride 2	HipHop CHH 2	TR909 Ride 1	CR78 Beat	Laser 1	HipHop Kick1
54	CR78 Tamb MG Zap 4	Syn Swt Atk3 Reg.PHH	CR78 Tamb TR606 Cym 2b	Tamborine 3 Atmosphere	MG Zap 11 Laser 2	HipHop Kick2 TR909 Kick 1
55 — 56	JD Sm Metal	Syn Swt Atk6	JD Sm Metal	Cowbell Mute	MG Zap 4a	TR808 Kick
57	MG Zap 5	НірНор ОНН	TR909 Ride 2	Syn Swt Atk1	Digi Loop 1	TR909 Kick 4
58 59	Syn Swt Atk3	TR909 OHH 2	Syn Swt Atk3	Cowbell	MG Zap 6a	WD Kick mf
	AnalogKick 2 TR909 Kick 2	TR909 R.Crsh TR909 Crash	AnalogKick1b AnalogKick4	Reverse Cym AnalogKick 5	SynLow Atk2a SynLow Atk2b	WD Kick f WD Kick ff
C4 60 61	TR909 Rim	Rock Crash 1	Urbn SnRoll1	Metal Vox W1	MG Attack	LD Kick mf
62	TR909 Snr 1	MG Zap 2	Analog Snr 2	Metal Vox W2	Syn Hrd Atk4	LD Kick f
64	TR909 Clap 1 TR909 Snr 2	MG Zap 9	Dist Clap	Metal Vox W3 White Noise2	Train Pass	LD Kick ff TY Kick mf
04	TR909 D.TomL	Smear Hit 2 Low Square	Analog Snr 3 R8 Shaker	White Noise3	Syn Mtl Atk1 Syn Swt AtkL	TY Kick f
65	TR909 CHH 1	JD WoodCrak1	TR909 CHH 2	TR606 Cym 2b	Syn Swt Atk7	TY Kick ff
67	TR909 D.TomL	Piano Atk Nz	R8 Shaker	MG Blip	Syn Swt AtkL	SF Kick 1
68	TR808 CHH 2 TR909 D.TomM	JD WoodCrak2 DR202 Beep 1	TR909 PHH 2 Syn Hrd Atk1	MG Blip Rev.	Syn Mtl Atk2 Syn Swt AtkM	SF Kick 2 MaxLow Kick1
69 70	TR909 OHH 1	JD WoodCrak3	TR909 OHH 2	DigiSpectrum Ice Crash	DigiSpectrum	MaxLow Kick2
71	TR909 D.TomM	Syn Pulse 2	SvnHrd Atk1a	Metal Vox L2	Syn Swt AtkM	Dist Kick
C5 72	TR909 D.TomH	DR202 Beep 2	SynHrd Atk1b	Thin Beef	Syn Swt AtkH	FB Kick
73	TR909 Crash3 TR909 D.TomH	Narrow Hit2a E.Gtr Harm	TŔ909 Crash SynHrd Atk1c	LoFi Min Hit Trance Saw	Digi Loop 1 Syn Swt AtkH	Rough Kick1 Rough Kick2
74 75	TR909 Ride 3	Narrow Hit2b	TR909 Ride 3	TB DstSqr	SynLow Atk1b	Rough Kick3
76	TR909 Crash4	Euro Hit	TR909 Crash	Finger Snap	Crotale 2	PlasticKick1
77	TR909 Ride 4	Jazz Lo Toml	TR909 Ride 1 CR78 Tamb	Conga Slp Op	Laser 3	70's Kick
78	Tamborine 2 MG Zap 2	TR909 D.TomL Jazz Lo Tom2	MG Zap 2	Conga Lo Op Conga Hi Op	MG Zap 11 Laser 4	AnalogKick 1 PlasticKick2
79 80	Cowbell Low	TR909 D.TomM	JD Sm Metal	Triangle Mt	MG Zap 4b	PlasticKick3
81	MG Zap 6	Jazz Lo Tom3	MG Zap 6	Triangle Op	Crotale 3	TR909 Kick 2
83	Cowbell Hi MG Zap 7	TR909 D.TomH AnalogKick 3	Syn Swt Atk1 MG Zap 7	Cabasa Cut R8 Shaker	MG Zap 6b Syn Low Atk2	AnalogKick 2 TR909 Kick 3
C6 84	Conga Hi Mt	AnalogKick 5	808 Maracas	AnalogKick 1	808 Maracas	AnalogKick 3
C6 84 85	Conga Lo Mt	Club Clap	TR808 Claves	PlasticKick2	TR808 Claves	AnalogKick 4
86	Conga Lo SIp	TR808 Snr 7 TR808 Snr 3	Triangle Mt	PlasticKick3	Triangle Mt	AnalogKick 5
88	Conga Hi Op Conga Lo Op	TR909 Snr 6a	Triangle Op Euro Hit	TR909 Kick 1 AnalogKick 4	Triangle Op Dry Lo Tom	AnalogKick 6 TR606DstKick
90	Timbale Hi	TR909 CHH 2	Scratch 4	AnalogKick 6	Conga Thumb	TR909 Kick 5
89 90	Timbale Low	TR606DstCHH2	Brt Strat C	TR909 Snr 2	Funk Gtr	SH32 Kick
91	Agogo Bell H Agogo Bell L	Dance CHH TR606 PHH 2b	Crotale MG Zap 4	TR909 Snr 4 TR909 Snr 5	Digi Loop 1 MG Zap 4c	TR707 Kick TR909 Kick 6
93	Cabasa Down	TR909 OHH 2	Urbn SnRoll2	TR909 Snr 6	Urbn SnRoll2	Mix Kick 1
94	Maracas	TR606 OHH	Calc.Saw	TR808 Snr 1	Sweep Saw	Mix Kick 2
95	Guiro Short	CR78 OHH	White Noise	TR808 Snr 2	White Noise	Mix Kick 3
C7 96	Guiro Long Claves	Juno Sqr HD TR909 Snr 6b	Blow Loop Shaker 2	TR808 CHH 1 Tr808 OHH 1	Monsoon Shaker 3	Mix Kick 4 Mix Kick 5
97 98	Wood Block L	TR808 Kick	Shaker 3	TR909 CHH 2	Scream	Dry Kick 4
99	Wood Block H	JD EML 5th 2	Cajon 1	TR909 OHH 2	Cajon 1	Sweep Bass
100	Triangle Mt	TR707 Clap	Euro Hit	Lite CHH	Euro Hit	Vint Kick
101	Triangle Op Castanet	Dist Clap MG Zap 5	Laugh Office Phone	Lite OHH TR606 Cym 2c	Laugh ConcertBD	Small Kick —
103	Whistle	MG Zap 7b	Door Creak	China Cymbal	Timpani	
		•		,	•	

Prst: User:	25 25 Snare Menu	26 26	27 27	28 28	29 29 Clp&Cym&Hit	30 30
Note No. 28	Snare Menu	Snr/Rim Menu	HiHat Menu	Tom Menu	Clp&Cym&Hif 	FX/SFX Menu
29	_					_
31	_					_
33						
35	— Reg.Snrl p	— GoodOld Snr1	Pog CHH 1 p	Pag F Tom n	— Hand Clap	— MG Zap 1
C2 36	Reg.Snr1mf	GoodOld Snr2	Reg.CHH 1 p Reg.CHH 1 mf	Reg.F.Tom p Reg.F.Tom f	Club Clap	MG Zap 2
37	Reg.Snrl t Reg.Snrlff	GoodOld Snr3 GoodOld Snr4	Reg.CHH 1 f Reg.CHH 1 ff	Reg.L.Tom p Reg.L.Tom f	Real Clap Bright Clap	MG Zap 3 MG Zap 4
40 39	Reg.Snr2 p Reg.Snr2 f	GoodOld Snr5 GoodOld Snr6	Reg.CHH 2 mf Reg.CHH 2 f	Reg.M.Tom p Reg.M.Tom f	R8 Clap Gospel Clap	MG Zap 5 MG Zap 6
41	Reg.Snr2ff	Dirty Snr 1	Reg.CHH 2 ff	Reg.H.Tom p	Amb Clap	MG Zap 7
43	Amb.Snr1 p Amb.Snr1 f	Dirty Snr 2 Dirty Snr 4	Reg.PHH mf Reg.PHH f	Reg.H.Tom f Reg.L.TomFlm	TR808 Clap 1 TR808 Clap 2	MG Zap 8 MG Zap 9
44	Amb.Snr2 p Amb.Snr2 f	Dirty Snr 5 Dirty Snr 6	Reg.OHH mf Reg.OHH f	Reg.M.TomFlm Reg.H.TomFlm	TR909 Clap 1 TR909 Clap 2	MG Zap 10 MG Zap 11
45 47	Piccolo Snr	Dirty Snr 7	Reg.OHH ff	Jazz Lo Tom	TR707 Clap	MG Blip
	Maple Snr Reg.Snr Gst	Grit Snr 1 Grit Snr 2	Rock CHH1 mf	Jazz Mid Tom Jazz Hi Tom	Cheap Clap Mix Clap T	Beam HiQ MG Attack
C3 48 49	Sft Snr Gst Jazz Snr p	Grit Snr 3 LoBit SnrFlm	Rock CHH2 mf Rock CHH2 f	Jazz Lo Flm Jazz Mid Flm	Mix Clap 2 Mix Clap 3	Syn Low Atk1 Syn Low Atk2
50 51	Jz Brsh Slap	Lo-Bit Snr 1	Rock OHH	Jazz Hi Flm	Mix Clap 4	Syn Hrd Atk1
52	Jz Brsh Swsh Swish&Turn p	Dirty Snr 3 Lo-Bit Snr 2	Lo-Bit CHH 1 Lo-Bit CHH 2	Sharp Lo Tom Sharp Hi Tom	Dist Clap Dist Clap 2	Syn Hrd Atk2 Syn Hrd Atk3
53 54	Swish&Turn f Concert SD	Analog Snr 1 Tiny Snare	Lo-Bit CHH 3 Lo-Bit CHH 4	Dry Lo Tom TR909 Tom	Crash Cym1 p Crash Cym1 f	Syn Hrd Atk4 Syn Mtl Atk1
55 <u>56</u>	Snr Roll Lp	R&B ShrtSnr1	Lo-Bit CHH 5	TR909 DstTom	Crash Cym 2	Syn Mtl Atk2
57 58	BrushRoll Lp WD Snr p	TR808 Snr 1 TR808 Snr 2	HipHop CHH TR909 CHH 1	TR808 Tom TR606 Tom	Rock Crash 1 Rock Crash 2	Syn Swt Atk1 Syn Swt Atk2
59	WD Snr mf WD Snr f	TR808 Snr 3 TR606 Snr 1	TR909 CHH 2 TR808 CHH 1	Deep Tom RR F.Tom mp	Splash Cym Jazz Crash	Syn Swt Atk3 Syn Swt Atk4
C4 60 61	WD Snr ff	MrchCmp Snr	TR808 CHH 2	RR F.Tom f	Ride Cymbal	Syn Swt Atk5
62	WD Rim p WD Rim mf	Reggae Snr DR660 Snr	TR606 CHH 1 TR606 CHH 2	RR F.Tom ff LD L.Tom mf	Ride Bell Rock Rd Cup	Syn Swt Atk6 Syn Swt Atk7
64	WD Rim f WD Rim ff	Jngl pkt Snr Pocket Snr	TR606 DstCHH Noise CHH	LD L.Tom f LD L.Tom ff	Rock Rd Edge Jazz Ride p	R8 Click MC500 Beep 1
65 66	LD Snr p	Flange Snr	Lite CHH	LD M.Tom mf	Jazz Ride mf	MC500 Beep 2
67	LD Snr mf LD Snr f	Analog Snr 2 Analog Snr 3	CR78 CHH Dance CHH	LD M.Tom f LD M.Tom ff	China Cymbal TR909 Crash	DR202 Beep JD Switch
69 70	LD Snr ff LD Rim mf	TR909 Snr 1 TR909 Snr 2	Lo-Bit PHH Hip PHH	LD H.Tom mf LD H.Tom f	TR909 Ride Concert Cym1	Cutting Nz Vinyl Noise
71	LD Rim f	TR909 Snr 3	Tr'909 PHH 1	LD H.Tom ff	Concert Cym2	Applause
C5 72 73	LD Rim ff TY Snr p	TR909 Snr 4 TR909 Snr 5	TR909 PHH 2 TR808 PHH	TY L.Tom mf TY L.Tom f	TR606 Cym TR808 Cym	River Thunder
74 75	TY Snr mf TY Snr f	TR909 Snr 6 TR808 Snr 4	TR606 PHH 1 TR606 PHH 2	TY L.Tom ff TY M.Tom mf	Reverse Cym ClassicHseHt	Monsoon Stream
76	TY Snr ff	Lite Snare	НірНор ОНН	TY M.Tom f	Narrow Hit 1	Bubble
77 78	TY Rim p TY Rim mf	TR808 Snr 5 TR808 Snr 6	TR909 OHH 1 TR909 OHH 2	TY M.Tom ff TY H.Tom mf	Narrow Hit 2 Euro Hit	Bird Song Dog Bark
79 80	TY Rim f TY Rim ff	TR606 Snr 2 CR78 Snare	TR808 OHH 1 TR808 OHH 2	TY H.Tom f TY H.Tom ff	Dist Hit Thin Beef	Gallop Vint.Phone
81	SF Snr p SF Snr mf	Urbn Sn Roll Reg.Stick	TR606 OHH Lo-Bit OHH 1	SF L.Tom mf SF L.Tom ff	Tao Hit Smear Hit 1	Office Phone Mobile Phone
83	SF Snr f	Soft Stick	Lo-Bit OHH 2	SF M.Tom mf	Smear Hit 2	Door Creak
C6 84	SF Snr ff SF SnrGst1	Hard Stick Wild Stick	Lo-Bit OHH 3 Lite OHH	SF M.Tom f SF M.Tom ff	LoFi Min Hit Orch. Hit	Door Slam Car Engine
86	SF SnrGst2 SF Rim p	R&B ShrtRim1 R&B ShrtRim2	CR78 OHH Noise OHH 1	SF H.Tom mf SF H.Tom f	Punch Hit O'Skool Hit	Car Slip Car Pass
88	SF Rim mf	WD CStk mf	Noise OHH 2	SF H.Tom ff	Philly Hit	Crash Seq.
89 90	SF Rim f SF Rim ff	WD CStk f LD CStk mf		RR FT Flm ff SF LT Flm ff		Gun Shot Siren
91 92	Light Snr ff Click Snr p	LD CStk f TY CStk mf		SF MT Flm f SF HT Flm p		Train Pass Airplane
93	Click Snr ff	TY CStk f		SF HT Flm F		Laugh
95	Jazz Snr mf Jazz Snr f	SfCrsStk p SfCrsStk f		SF HT Flm ff —		Scream Punch
C7 96 97	Jazz Rim p Soft Jz Roll	Lo-Bit Stk 1 Lo-Bit Stk 2				Heartbeat Footsteps
98		Dry Stick 1				Machine Gun
100	_	Dry Stick 2 Dry Stick 3			_	Laser Thunder Lp
101		R8 Comp Rim TR909 Rim				Metro Bell Metro Click
103		TR808 Rim				——————————————————————————————————————

	31	32
Prst: User:	31 31	32 32 Scrh&Voi&Wld
Note No.	Percussion Cowbell	Scrn&voi&vvia
28	Cowbell Mute	
29 30	Cowbell 2 Lng	
31	Cowbell2 Edg	_
32	Cowbell3 mf	_
33	Cowbell3 f Wood Block	
35	Wood Block2H	Scratch 1
C2 36	Wood Block2L	Scratch 2
37	Claves	Scratch 3
38	TR808 Claves Claves 2	Scratch 4 Scratch 5
40 39	CR78 Beat	Scratch 6
44	Castanet	Scratch 7
41 42	Whistle	Scratch 9
43	Whistle Long Whistle Shrt	Scratch 10 Aah Formant
45	Bongo Hi Mt	Reh Formant
46	Bongo Hi Slp	lih Formant
47	Bongo Lo SIp	Ooh Formant
C3 48	Bongo Hi Op Bongo Lo Op	Uuh Formant Metal Vox W1
<u>49</u> 50	Conga Hi Mt	Metal Vox W2
51	Conga Lo Mt	Metal Vox W3
52	Conga Hi Slp	JD Gamelan 1
53	Conga Lo SIp Conga Hi Op	JD Gamelan 2 .ID Gamelan 3
55	Conga Lo Op	JD Gamelan 4
56	Conga Slp Óp	JD Gamelan 5
57	Conga Efx	JD Gamelan 6 JD Gamelan 7
58 59	Conga Thumb Conga 2H Op	JD Gamelan 7 JD Gamelan 8
C4 60	Conga 2H Mt	JD Gamelan 9
61	Conga 2H Slp	JD Gamelan 10
62	Conga 2L Op Conga 2L Mt	JD Gamelan11 JD Gamelan12
64	Timbale 1	Cajon 1
65	Timbale 2	Cajon 2
65 66	Timbare 3	Cajon 3
67	Timbare 4 Cabasa Up	Cajon 4 SprgDrm Hit
69	Cabasa Down	Cuica
71	Cabasa Cut	Cuica 2 Hi
	Cabasa2 Cabasa2 Cut	Cuica 2 Low
C5 72 73	Shaker	
74	Maracas	_
75 76	808 Maracas	_
/6	R8 Shaker Guiro 1	
77 78	Guiro 2	
79	Guiro Long	_
81	Guiro 2 Up Guiro 2 Down	
81	Guiro 2 Fast	
83	Vibraslap	
C6 84	Tamborine 1	_
85 86	Tamborine 2 Tamborine 3	
87	Tamborine4 f	_
88	Tamborine4 p	_
89	CR78 Tamb Timpani p	_
90	Timpani f	
91	Timpani Roll	_
93	Timpani Lp	_
95	ConcertBD p ConcertBD f	
C7 96	ConcertBD ff	
97	ConcertBD Lp	
98	Triangle 10p	
100	Triangle 1Mt Triangle 2	
101	Tibet Cvmbal	_
102	Wind Chime	_
103	Crotale	_

	GM (GM2 Gro	quo)				
Note No.	1 (PC: 1) GM2 STANDARD	2(PC: 9) GM2 ROOM	3(PC: 1 <i>7</i>) GM2 POWER	4(PC: 25) GM2 ELECTRIC	5(PC: 26) GM2 ANALOG	6(PC: 33) GM2 JAZZ
27	High Q	High Q	High Q	High Q	High Q	High Q
28	Slap	Slap	Slap	Slap	Slap	Slap
29	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push
23 30	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
31	Sticks	Sticks	Sticks	Sticks	Sticks	Sticks
33	Square Click Metron Click	Square Click Metron Click	Square Click Metron Click	Square Click Metron Click	Square Click Metron Click	Square Click Metron Click
34	Metron Bell	Metron Bell	Metron Bell	Metron Bell	Metron Bell	Metron Bell
35	Kick Drum 2	Kick Drum 2	Power Kick 2	Kick Drum 2	Kick Drum 2	Jazz Kick 2
C2 36	Kick Drum 1	Kick Drum 1	Power Kick 1	Elec.Kick 1	Ana.Kick 1	Jazz Kick 1
37	Side Stick	Side Stick	Side Stick	Side Stick	Ana.Rim Sho	Side Stick
38	Aco.Snare	Aco.Snare	PowerSnareDr	E.SnareDrum1	Ana.Snare 1	Aco.Snare
40 39	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
40	Elec.Snare	Elec.Snare	Elec.Snare	E.SnareDrum2	Elec.Snare	Elec.Snare
41	Low Tom 2	Room LowTom2	PowerLowTom2	E.Low Tom 2	Ana.Low Tom2	Low Tom 2
42	ClosedHi-hat Low Tom 1	ClosedHi-hat Room LowTom1	ClosedHi-hat PowerLowTom1	ClosedHi-hat E.Low Tom 1	Ana.ClosedHH Ana.Low Tom 1	ClosedHi-hat Low Tom 1
43	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat	Ana.ClosedHH	Pedal Hi-hat
45	Mid Tom 2	Room MidTom2	PowerMidTom2	E.Mid Tom 2	Ana.Mid Tom2	Mid Tom 2
46	Open Hi-hat	Open Hi-hat	Open Hi-hat	Open Hi-hat	Ana.Open HH	Open Hi-hat
47	Mid Tom 1	Room MidTom1	PowerMidTom1	E.Mid Tom 1	Ana.Mid Tom1	Mid Tom 1
C3 48	High Tom 2	Room Hi Tom2	Power HiTom2	E.Hi Tom 2	Ana.Hi Tom2	High Tom 2
<u> </u>	CrashCymbal 1	CrashCymbal 1	CrashCymbal 1	CrashCymbal1	Ana.Cymbal	CrashCymbal 1
50	High Tom 1	Room Hi Tom1	Power HiTom1	E.Hi Tom 1	Ana.Hi Tom 1	High Tom 1
52 52	Ride Cymball	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal1	Ride Cymbal 1	Ride Cymbal 1
-	China Ćymbal Ride Bell	China Cymbal Ride Bell	China Cymbal Ride Bell	Reverse Cym. Ride Bell	China Cymbal Ride Bell	China Cymbal Ride Bell
53 54	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
55	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal
56	Cowbell	Cowbell	Cowbell	Cowbell	Ana.Cowbell	Cowbell
57	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2
58 59	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap
55	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2
C4 60	High Bongo Low Bongo	High Bongo Low Bongo	High Bongo Low Bongo	High Bongo Low Bongo	High Bongo Low Bongo	High Bongo Low Bongo
62 62	MuteHi Conga	MuteHi Conga	MuteHi Conga	MuteHi Conga	Ana.Hi Conga	MuteHi Conga
63	OpenHi Conga	OpenHi Conga	OpenHi Conga	OpenHi Conga	Ana.MidConga	OpenHi Conga
64	Low Conga	Low Conga	Low Conga	Low Conga	Ana.LowConga	Low Conga
65	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale
66	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale
67	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo
68	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo
69 70	Cabasa Maracas	Cabasa Maracas	Cabasa Maracas	Cabasa Maracas	Cabasa Ana.Maracas	Cabasa Maracas
71	ShortWhistle	ShortWhistle	ShortWhistle	ShortWhistle	ShortWhistle	ShortWhistle
05 70	Long Whistle	Long Whistle	Long Whistle	Long Whistle	Long Whistle	Long Whistle
C5 72 73	Short Guiro	Short Guiro	Short Guiro	Short Guiro	Short Guiro	Short Guiro
74	Long Guiro	Long Guiro	Long Guiro	Long Guiro	Long Guiro	Long Guiro
75	Claves	Claves	Claves	Claves	Ana.Claves	Claves
76	Hi WoodBlock	Hi WoodBlock	Hi WoodBlock	Hi WoodBlock	Hi WoodBlock	Hi WoodBlock
77	LowWoodBlock	LowWoodBlock	LowWoodBlock	LowWoodBlock	LowWoodBlock	LowWoodBlock
77 78	Mute Cuica Open Cuica	Mute Cuica Open Cuica	Mute Cuica Open Cuica	Mute Cuica Open Cuica	Mute Cuica Open Cuica	Mute Cuica Open Cuica
79 80	MuteTriangle	MuteTriangle	MuteTriangle	MuteTriangle	MuteTriangle	MuteTriangle
81	OpenTriangle	OpenTriangle	OpenTriangle	OpenTriangle	OpenTriangle	OpenTriangle
82	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker
83	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
C6 84	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree
	Castanets	Castanets	Castanets	Castanets	Castanets	Castanets
86	Mute Surdo Open Surdo	Mute Surdo Open Surdo	Mute Surdo Open Surdo	Mute Surdo Open Surdo	Mute Surdo Open Surdo	Mute Surdo Open Surdo
88	Open Suido	Open Juluo	Open soldo	Open 30100	Open Juluo	Open soldo

No <u>te No</u>	7(PC: 41) GM2 BRUSH	8(PC: 49) GM2 ORCHSTRA	9(PC: 57) GM2 SFX
27	High Q	ClosedHi-hat	_
28	Slap Scratch Push	Pedal Hi-hat Open Hi-hat	_
29 30		Ride Cymbal1	_
31	Sticks	Sticks '	_
33	Square Click Metron Click	Square Click Metron Click	_
34		Metron Bell	_
35	Jazz Kick 2	Concert BD 2	
C2 36	Jazz Kick 1 Side Stick	Concert BD 1 Side Stick	-
38	Brush Tap	Concert SD	
39	Brush Slap	Castanets	High Q
40	Brush Swirl	Concert SD	Slap
41 42	BrushLowTom2 ClosedHi-hat	Timpani F Timpani F#	Scratch Push Scratch Pull
43	BrushLowTom1	Timpani G	Sticks
44		Timpani G#	Square Click
45	BrushMidTom2 Open Hi-hat	Timpani A Timpani A#	Metron Click Metron Bell
47	BrushMidTom1	Timpani B	GtFret Noise
C3 48	Brush HiTom2	Timpani c	Cut Noise Up
49	CrashCymbal 1	Timpani c#	Cut Noise Dw
50 51	Brush HiTom1 Ride Cymbal1	Timpani d Timpani d#	Slap_St.Bass Fl.Key Click
52	China Cymbal Ride Bell	Timpani e	Laughing
53	Ride Bell	Timpani f	Scream
55	Tambourine SplashCymbal	Tambourine SplashCymbal	Punch Heart Beat
55	Cowbell	Cowbell	Footsteps 1
57	CrashCymbal2	Concert Cym2	Footsteps 2
58 59	■ Vibra-slap Ride Cymbal2	Vibra-slap Concert Cym 1	Applause Door Creak
C4 60	High Bongo	High Bongo	Door
61	Low Bongo	Low Bongo	Scratch
62	MuteHi Čonga OpenHi Conga	MuteHi Conga OpenHi Conga	Wind Chimes Car-Engine
64	Low Conga	Low Conga	Car-Stop
65	│ High Timbale	High Timbale	Car-Pass
66	Low Timbale High Agogo	Low Timbale High Agogo	Car-Crash Siren
67		Low Agogo	Train
69	Cabasa	Cabasa	Jetplane
71 70	Maracas ShortWhistle	Maracas ShortWhistle	Helicopter Starship
05.70	Long Whistle	Long Whistle	Gun Shot
C5 72 73	Short Guiro	Short Guiro	Machine Gun
74	Long Guiro Claves	Long Guiro Claves	Lasergun
76 75	Hi WoodBlock	Hi WoodBlock	Explosion Dog
77	LowWoodBlock	LowWoodBlock	Horse-Gallop
78	Mute Cuica	Mute Cuica	Birds
79 80	Open Cuica MuteTriangle	Open Cuica MuteTriangle	Rain Thunder
81	OpenTriangle	OpenTriangle	Wind
83	Shaker	Shaker	Seashore
-	Jingle Bell Bell Tree	Jingle Bell Bell Tree	Stream Bubble
C6 84 85	Castanets	Castanets	— DUDDIE
86	Mute Surdo	Mute Surdo	_
88	Open Surdo	Open Surdo Applause	_
		∆hhianse.	-

Waveform List

In waveform numbers 0001-0040, note numbers 91–108 are set to Damper Free in order to accurately reproduce the characteristics of an acoustic piano.

No.	acoustic piano. Name	No.	Name	No.	Name	No.	Name	No.	Name
1 2 3 4 5 6 7 8 9	Ult.P*mp A L Ult.P*mp A R Ult.P*mp B L Ult.P*mp B R Ult.P*mp C L Ult.P*mp C R Ult.P* f A R Ult.P* f B L Ult.P* f B L	71 72 73 74 75 76 77 78 79 80	XPr.P ff C L XPr.P ff C R Ac.Pno p A L Ac.Pno p B L Ac.Pno p B R Ac.Pno p B R Ac.Pno p C R Ac.Pno f A L Ac.Pno f A R	141 142 143 144 145 146 147 148 149	Wurly mf B Wurly mf C Wurly ff A Wurly ff B Wurly ff C Soft SA EP A Soft SA EP B Soft SA EP C Hard SA EP A Hard SA EP B	211 212 213 214 215 216 217 218 219 220	Positive '8 Pipe Organ Cathedrl Org BrtN.Gtr p A BrtN.Gtr p B BrtN.Gtr mfA BrtN.Gtr mfA BrtN.Gtr mfC BrtN.Gtr mfC	281 282 283 284 285 286 287 288 289 290	E.Gtr Harm Harp A Harp B Harp C Banjo A Banjo B Banjo C Sitar A Sitar B Sitar C
11 12 13 14 15 16 17 18 19 20	Ult.P* f C L Ult.P* f C R Ult.P*ff A R Ult.P*ff B L Ult.P*ff B R Ult.P*ff C L Ult.P*ff C R XPr.P*mp A L XPr.P*mp A R	81 82 83 84 85 86 87 88 89 90	Ac.PnofBL Ac.PnofBR Ac.PnofCL Ac.PnofCR JD Piano A JD Piano B JD Piano B JD Piano Atk Nz MKS Piano B MKS Piano B	151 152 153 154 155 156 157 158 159 160	Hard SA EP C SA E.Piano A SA E.Piano B SA E.Piano C 80's E.Pno 1 80's E.Pno 2 80's E.Pno1f 80's E.Pno2f Hard E.Pno Celesta	221 222 223 224 225 226 227 228 229 230	BrtN.Gtr ffB BrtN.Gtr ffC BrtN.GtrSldA BrtN.GtrSldB BrtN.GtrSldC Nylon Gtr1 A Nylon Gtr1 B Nylon Gtr1 B Nylon Gtr2 A Nylon Gtr2 B	291 292 293 294 295 296 297 298 299 300	Sitar Drn A Sitar Drn B Sitar Drn C E.Sitar A E.Sitar B E.Sitar C Santur A Santur B Santur C Dulcimer A
21 22 23 24 25 26 27 28 29 30	XPr.P*mp B L XPr.P*mp B R XPr.P*mp C L XPr.P*mp C R XPr.P* f A L XPr.P* f B L XPr.P* f B L XPr.P* f B L XPr.P* f C L XPr.P* f C L	91 92 93 94 95 96 97 98 99	MKS Piano C Vint.EP pp A Vint.EP pp B Vint.EP pp C Vint.EP mp A Vint.EP mp B Vint.EP mp C Vint.EP f A Vint.EP f B Vint.EP f C	161 162 163 164 165 166 167 168 169	Music Box ClavDB Brt A ClavDB Brt C Reg.Clav A Reg.Clav B Reg.Clav C Retro Clav A Retro Clav B Retro Clav C	231 232 233 234 235 236 237 238 239 240	Nylon Gtr2 C Bright Gtr A Bright Gtr B Bright Gtr C Ac.Gtr mp A Ac.Gtr mp B Ac.Gtr mp C Ac.Gtr mf A Ac.Gtr mf B Ac.Gtr mf B	301 302 303 304 305 306 307 308 309 310	Dulcimer B Dulcimer C Shamisen A Shamisen B Shamisen C Koto A Koto B Koto C FatAc.Bs p A FatAc.Bs p B
31 32 33 34 35 36 37 38 39 40	XPr.P*ff A L XPr.P*ff A R XPr.P*ff B R XPr.P*ff C L XPr.P*ff C R Ult.P mp A L Ult.P mp B L Ult.P mp B L Ult.P mp B R	101 102 103 104 105 106 107 108 109	Vint.EP ff A Vint.EP ff B Vint.EP ff C Stage EP p A Stage EP p B Stage EP f C Stage EP f A Stage EP f G Tine EP p A	171 172 173 174 175 176 177 178 179	Tight Clav A Tight Clav B Tight Clav C Hard Clav A Hard Clav B Hard Clav C ClvMtRs DB f Harpsi A Harpsi B Harpsi C	241 242 243 244 245 246 247 248 249 250	Ac.Gtr ff A Ac.Gtr ff B Ac.Gtr ff C Ac.Gtr Sld A Ac.Gtr Sld C Ac.Gtr Sld C Ac.Gtr Hrm A Ac.Gtr Hrm B Ac.Gtr Hrm C Jazz Gtr A	311 312 313 314 315 316 317 318 319 320	FatAc.Bs p C FatAc.Bs f A FatAc.Bs f B FatAc.Bs f C Ac.Bass A Ac.Bass C Fng.EB1 mf A Fng.EB1 mf B Fng.EB1 mf C
41 42 43 44 45 46 47 48 49 50	Ult.P mp C L Ult.P mp C R Ult.P f A L Ult.P f B L Ult.P f B R Ult.P f C L Ult.P f C L Ult.P f G L Ult.P f G A Ult.P f A C	111 112 113 114 115 116 117 118 119 120	Tine EP p B Tine EP p C Tine EP mf A Tine EP mf B Tine EP mf C Tine EP ff A Tine EP ff B Tine EP ff C Dyno EP mp A Dyno EP mp B	181 182 183 184 185 186 187 188 189	JLOrg Slow L JLOrg Slow R JLOrg Fast L JLOrg Fast R JD Full Draw Org Basic 1 Org Basic 2 Ballad Org 3rd Perc Org Perc Organ	251 252 253 254 255 256 257 258 259 260	Jazz Gtr B Jazz Gtr C Clean Gtr A Clean Gtr B Clean Gtr C Clr Mt Gtr A Clr Mt Gtr B Clr Mt Gtr C E.Gtr Ld Brt Strat A	321 322 323 324 325 326 327 328 329 330	Fng.EB1 ff A Fng.EB1 ff B Fng.EB1 ff C Fng.EB2 mf A Fng.EB2 mf C Fng.EB2 f A Fng.EB2 f A Fng.EB2 f C Fng.EB2 f C FngrCmp Bs A
51 52 53 54 55 56 57 58 59 60	Ult.P ff B L Ult.P ff B R Ult.P ff C R Ult.P ff C R XPr.P mp A L XPr.P mp B R XPr.P mp B R XPr.P mp C L XPr.P mp C R	121 122 123 124 125 126 127 128 129 130	Dyno EP mp C Dyno EP mf A Dyno EP mf B Dyno EP mf C Dyno EP ff A Dyno EP ff B Dyno EP ff C Wurly DI p A Wurly DI p C	191 192 193 194 195 196 197 198 199 200	Rock Organ A Rock Organ B Rock Organ C RtryOrg1 A L RtryOrg1 B L RtryOrg1 B L RtryOrg1 C L RtryOrg1 C R RtryOrg1 C R RtryOrg2 A L	261 262 263 264 265 266 267 268 269 270	Brt Strat B Brt Strat C FstPick70s A FstPick70s B FstPick70s C Funk Gtr A Funk Gtr B Funk Gtr C Funk MtGtr A Funk MtGtr B Funk MtGtr B	331 332 333 334 335 336 337 338 339 340	FingrCmp Bs B FingrCmp Bs C Finger Bs A Finger Bs B Finger Bs C Precision Bs ThumbMtBs pA ThumbMtBs pB ThumbMtBs pC Fretlss Bs A
61 62 63 64 65 66 67 68 69 70	XPr.P f A L XPr.P f B R XPr.P f B R XPr.P f C L XPr.P f C C XPr.P f C R XPr.P f G R XPr.P f G A R XPr.P f F B R	131 132 133 134 135 136 137 138 139 140	Wurly DI f A Wurly DI f B Wurly DI f C Wurly DI ffA Wurly DI ffB Wurly DI ffC Wurly mp A Wurly mp C Wurly mp A	201 202 203 204 205 206 207 208 209 210	RtryOrg2 A R RtryOrg2 B L RtryOrg2 B R RtryOrg2 C L RtryOrg2 C R LoFi RtryOrg Vint.Org 1 Vint.Org 2 Vint.Org 3 Vint.Org 4	271 272 273 274 275 276 277 278 279 280	Funk MtGtr C Nasty Gtr Overdrive A Overdrive C Distortion A Distortion B Distortion C Dist Chord A Dist Chord B Dist Chord C	341 342 343 344 345 346 347 348 349 350	FretIss Bs B FretIss Bs C FretIss SftA FretIss SftB FretIss SftC Pick EB f A Pick EB f B Pick EB f C Pick Bass SIp.E.BassA

No.	Name	No.	Name	No.	Name	No.	Name	No.	Name
351	Slp.E.BassB	421	Wide Sax C	491	OctBrs f C L	561	ChmbrStrRevC	631	D-50 Bell A
352	Slp.E.BassC	422	BreathySax A	492	OctBrs f C R	562	VIs Pizz A	632	D-50 Bell B
353	Slp.EB HO A	423	BreathySax B	493	XP Brass	563	VIs Pizz B	633	D-50 Bell C
354	SIp.EB HO B	424	BreathySax C	494	OrchUnis A L	564	VIs Pizz C	634	D-50 Bell Lp
355	SIp.EB HO C	425	TenorBreathy	495	OrchUnis A R	565	VIsPizzRev A	635	Agogo Bell
356 357	Pul.E.BassA Pul.E.BassB	426 427	Tenor Sax A	496 497	OrchUnis B L	566 567	VlsPizzRev B	636 63 <i>7</i>	Agogo 2 Hi
358	Pul.E.BassC	427	Tenor Sax B Tenor Sax C	498	OrchUnis B R OrchUnis C L	568	VIsPizzRev C Vcs Pizz A	638	Agogo 2 Low Finger Bell
359	Pul.EB HO A	429	Bari.Sax 1 A	499	OrchUnis C R	569	Vcs Pizz B	639	JD Cowbell
360	Pul.EB HO B	430	Bari.Sax 1 B	500	Violin f A	570	Vcs Pizz C	640	Tubular Bell
361 362	Pul.EB HO C	431 432	Bari.Sax 1 C	501 502	Violin f B Violin f C	571 572	Unison Saw A	641 642	Church Bell Mild CanWave
363	Slap Bass Slap +Pull 1	433	Bari.Sax 2 A Bari.Sax 2 B	503	Violin Vib A	573	Unison Saw B Unison Saw C	643	JD Crystal
364	Slap +Pull 2	434	Bari.Sax 2 C	504	Violin Vib B	574	Super Saw A	644	Bell Organ
365	Slap +Pull 3	435	Musette	505	Violin Vib C	575	Super Saw B	645	Old DigiBell
366	Jz Slap Bass	436	Accord 4' A	506	Cello f A	576	Super Saw C	646	JD Bell Wave
367	Jz Slp+Pull1	437	Accord 4' B	507	Cello f B	577	Trance Saw A	647	TinyBellWave
368 369	Jz Slp+Pull2 Jz Slp+Pull3	438 439	Accord 4' C Accord 8' A	508 509	Cello f C Cello Vib A	578 579	Trance Saw B Trance Saw C	648 649	Vib Wave JD Brt Digi
370	Jungle Bass	440	Accord 8' B	510	Cello Vib B	580	Warm Pad A	650	Bagpipe
371	Garage Bass	441	Accord 8' C	511	Cello Vib C	581	Warm Pad B	651	Digital Vox
372	SH-101 Bs A	442	Accord PadNz	512	VI Sect. A L	582	Warm Pad C	652	JD WallyWave
373 374	SH-101 Bs B SH-101 Bs C	443 444	Harmonica A Harmonica B	513 514	VI Sect. A R VI Sect. B L	583 584	OB2 Pad 1 A OB2 Pad 1 B	653 654	JD Brusky Lp
375	Organ Bass	445	Harmonica C	515	VI Sect. B R	585	OB2 Pad 1 C	655	Bright Form JD Nasty
376	MG Bass 1 A	446	Blues G-harp	516	VI Sect. C L	586	OB2 Pad 2 A	656	JD Spark Vox
377	MG Bass 1 B	447	Flugel A	51 <i>7</i>	VI Sect. C R	587	OB2 Pad 2 B	657	JD Cutters
378	MG Bass 1 C	448	Flugel B	518	Vc Sect. A L	588	OB2 Pad 2 C	658	SBF Hrd Ld
379	MG Bass 2	449	Flugel C	519	Vc Sect. A R	589	D-50 HeavenA	659	JD EML 5th
380	MG Bass 3 MC Bass A	450 451	Trumpet A	520 521	Vc Sect. B L	590 591	D-50 HeavenB D-50 HeavenC	660	Juno Saw HD TB303 Saw HD
382	MC Bass A MC Bass B	452	Trumpet B Trumpet C	522	Vc Sect. B R Vc Sect. C L	592	SBF Vox A	661 662	Custm Saw HD
383	MC Bass C	453	Wide Tp A	523	Vc Sect. C R	593	SBF Vox B	663	MG Saw HD
384	Atk Syn Bass	454	Wide Tp B	524	Full Str A L	594	SBF Vox C	664	DigitalSawHD
385	Flute A	455	Wide Tp C	525	Full Str A R	595	Syn Vox 1 A	665	P5 Saw HD
386	Flute B	456	Mute Tp A	526	Full Str B L	596	Syn Vox 1 B	666	Calc.Saw
38 <i>7</i> 388	Flute C Piccolo A	457 458	Mute Tp B Mute Tp C	527 528	Full Str B R Full Str C L	597 598	Syn Vox 1 C Syn Vox 2 A	667 668	Calc.Saw inv Synth Saw
389	Piccolo B	459	Trombone A	529	Full Str C R	599	Syn Vox 2 B	669	JD Syn Saw
390	Piccolo C	460	Trombone B	530	JV Strings L	600	Syn Vox 2 C	670	JD Fat Saw
391	Pan Flute	461	Trombone C	531	JV Strings R	601	Female Ahs A	671	JP-8 Saw
392	Shakuhachi	462	Tbn mf A	532	JV Strings A	602	Female Ahs B	672	D-50 Saw
393	JD FI Push	463	Tbn mf B	533	JV Strings C	603	Female Ahs C	673	SH-1000 Saw
394 395	Clarinet A Clarinet B	464 465	Tbn mf C Tuba A	534 535	F.Str mf A L F.Str mf A R	604 605	Female Oos A Female Oos B	674 675	SH-2 Saw LA-Saw
396	Clarinet C	466	Tuba B	536	F.Str mf B L	606	Female Oos C	676	Air Wave
397	Oboe Mezzo A	467	Tuba C	53 <i>7</i>	F.Str mf B R	607	Male Aahs A	677	GR-300 Saw 1
398	Oboe Mezzo B	468	Sft F.Horn A	538	F.Str mf C L	608	Male Aahs B	678	GR-300 Saw 2
399	Oboe Mezzo C	469	Sft F.Horn B	539	F.Str mf C R	609	Male Aahs C	679	TB Dst Saw A
400 401	Oboe Forte B	470 471	Sft F.Horn C French Hrn A	540 541	F.Str mf lpL F.Str mf lpR	610	Jazz Doos A Jazz Doos B	680 681	TB Dst Saw B TB Dst Saw C
402	Oboe Forte C	471	French Hrn C	542	F.Str ff A L	612	Jazz Doos C	682	Juno Sqr HD
403	E.Horn A	473	XP Horn A	543	F.Str ff A R	613	Jz Doos Lp A	683	P5 Sqr HD
404	E.Horn B	474	XP Horn B	544			Jz Doos Lp B	684	Fat Square
405	E.Horn C	475 476	F.HornSect A	545	F.Str ff B R	615	Jz Doos Lp C	685	JP-8 Square
406 407	Bassoon A Bassoon B	476 477	F.HornSect B F.HornSect C	546 547	F.Str ff C L F.Str ff C R	616 617	Gospel Hum A Gospel Hum B	686 687	SH-2 Square TB303 Sqr HD
408	Bassoon C	477	Tp Section A	548	F.Str ff lpL	618	Gospel Hum C	688	LA-Square
409	Recorder A	479	Tp Section B	549	F.Str ff lpR	619	Soprano Vox	689	TB DstSqr 1A
410	Recorder B	480	Tp Section C	550	F.StrStacA L	620	Kalimba	690	TB DstSqr 1B
411 412	Recorder C SopranoSax A	481 482	OctBrs p A L OctBrs p A R	551 552	F.StrStacA R F.StrStacB L	621 622	JD Klmba Atk JD Wood Crak	691 692	TB DstSqr 1C Dist SquareA
413	SopranoSax B	483	OctBrs p B L	553	F.StrStacB R	623	JD VV00d Crak JD Gamelan 1	693	Dist SquareB
414	SopranoSax C	484	OctBrs p B R	554	F.StrStacC L	624	JD Gamelan 2	694	Dist SquareC
415	Alto Sax Vib	485	OctBrs p C L	555	F.StrStacC R	625	JD Log Drum	695	Juno Pls HD
416	Soft Alto A	486	OctBrs p C R	556	ChmbrStrAtkA	626	JD Xylo	696	JP8 Pls 10HD
41 <i>7</i> 418	Soft Alto B Soft Alto C	487 488	OctBrs f A L OctBrs f A R	557 558	ChmbrStrAtkB ChmbrStrAtkC	627 628	Marimba Vibraphone	697 698	JP8 Pls 15HD JP8 Pls 25HD
419	Wide Sax A	489	OctBrs f B L	559	ChmbrStrRevA	629	Glocken	699	JP8 Pls 30HD
420	Wide Sax B	490	OctBrs f B R	560	ChmbrStrRevB	630	Steel Drums	700	JP8 Pls 40HD
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Waveform List

No.	Name	No.	Name	No.	Name	No.	Name	No.	Name
701	JP8 Pls 45HD	<i>77</i> 1	Gallop	841	MG Zap 11	911	PlasticKick1	981	TY Snr ff L
702	Syn Pulse 1	772	Vint.Phone	842	MG Blip	912	70's Kick	982	TY Snr ff R
<i>7</i> 03	Syn Pulse 2	773	Office Phone	843	Beam HiQ	913	Dance Kick	983	TY Rim p L
704	SH-1000 Puls	774	Mobile Phone	844	MG Attack	914	HipHop Kick1	984	TY Rim p R
705	700 Triangle	775	Door Creak	845	Syn Low Atk1	915	HipHop Kick2	985	TY Rim mf L
706	Syn Triangle	776	Door Slam	846	Syn Low Atk2	916	AnalogKick 1	986	TY Rim mf R
707 708	JD Triangle	777 770	Car Engine	847	Syn Hrd Atk1	91 <i>7</i> 918	PlasticKick2	98 <i>7</i> 988	TY Rim f L
706 709	VS-Triangle Mild Form	778 779	Car Slip Car Pass	848 849	Syn Hrd Atk2 Syn Hrd Atk3	916	PlasticKick3 TR909 Kick 1	989	TY Rim f R TY Rim ff L
710	VS-Ramp	780	Crash Seq.	850	Syn Hrd Atk4	920	TR909 Kick 2	990	TY Rim ff R
711	Sync Sweep	781	Gun Shot	851	Syn Mtl Atk1	921	AnalogKick 2	991	SF Snr p L
712 713	Sine JD Fine Wine	782 783	Siren Train Pass	852 853	Syn Mtl Atk2 Syn Swt Atk1	922 923	TR909 Kick 3 AnalogKick 3	992 993	SF Snr p R SF Snr mf L
714	Digi Loop	784	Airplane	854	Syn Swt Atk2	924	AnalogKick 4	994	SF Snr mf R
715	JD MetalWind	785	Helicopter	855	Syn Swt Atk3	925	AnalogKick 5	995	SF Snr f L
716	Atmosphere	786	Space Voyage	856	Syn Swt Atk4	926	AnalogKick 6	996	SF Snr f R
717	DigiSpectrum	787	Blow Loop	857	Syn Swt Atk5	927	TR606DstKick	997	SF Snr ff L
718	JD Vox Noise	788	Laugh	858	Syn Swt Atk6	928	TR808 Kick	998	SF Snr ff R
719 720	SynVox Noise Shaku Noise	789 790	Scream Punch	859 860	Syn Swt Atk7 WD Kick mf L	929 930	TR909 Kick 4 TR909 Kick 5	999 1000	SF Rim p L SF Rim p R
721	Digi Breath	791	Heartbeat	861	WD Kick mf R	931	SH32 Kick	1001	SF Rim mf L
722	Agogo Noise	792	Footsteps	862	WD Kick f L	932	TR707 Kick	1002	SF Rim mf R
723	Vinyl Noise	793	Machine Gun	863	WD Kick f R	933	TR909 Kick 6	1003	SF Rim f L
724	White Noise	794	Laser	864	WD Kick ff L	934	Mix Kick 1 L	1004	
725 726	Pink Noise	795 796	Thunder Lp	865	WD Kick ff R LD Kick mf L	935 936	Mix Kick 1 R	1005 1006	
727	Aah Formant Eeh Formant	790 797	Ac.Bass Nz E.Bass Nz 1	866 867	LD Kick mf R	937	Mix Kick 2 L Mix Kick 2 R	1007	SF Rim ff R Reg.Snr1 p L
728	lih Formant	798	E.Bass Nz 2	868	LD Kick f L	938	Mix Kick 3	1008	Reg.Snr1 p R
729	Ooh Formant	799	E.Bass Slide	869	LD Kick f R	939	Mix Kick 4	1009	Reg.Snr1mf L
730	Uuh Formant	800	Fng.EB2 Sld	870	LD Kick ff L	940	Mix Kick 5	1010	Reg.Snr1mf R
<i>7</i> 31	Metal Vox W1	801	DistGtr Nz 1	871	LD Kick ff R	941	Dry Kick 4	1011	Reg.Snr1 f L
732	Metal Vox L1	802	DistGtr Nz 2	872	TY Kick mf L	942	Small Kick	1012	Reg.Snr1 f R
733 734	Metal Vox W2	803 804	DistGtr Nz 3	873 874	TY Kick mf R TY Kick f L	943 944	Vint Kick	1013	Reg.Snr1ff L
735	Metal Vox L2 Metal Vox W3	805	Gtr Fret Nz1 Gtr Fret Nz2	875	TY Kick f R	944	Sweep Bass WD Snr p L	1014 1015	Reg.Snr1ff R Reg.Snr2 p L
736	Metal Vox L3	806	ClassicHseHt	876	TY Kick ff L	946	WD Snr p R	1016	Reg.Snr2 p R
737	JD Rattles	807	Narrow Hit 1	877	TY Kick ff R	947	WD Snr mf L	1017	
738	Xylo Seq.	808	Narrow Hit 2	878	SF Kick 1 L	948	WD Snr mf R	1018	Reg.Snr2 f R
739	JD Anklungs	809	Euro Hit	879	SF Kick 1 R	949	WD Snr f L	1019	Reg.Snr2ff L
740 741	JD Shami SynBassClick	810	Dist Hit Thin Beef	880 881	SF Kick 2 L SF Kick 2 R	950 951	WD Snr f R WD Snr ff L	1020 1021	Reg.Snr2ff R Amb.Snr1 p L
741 742	JD EP Atk	812	Tao Hit	882	Reg.Kick p L	952	WD Snr ff R	1021	Amb.Snr1 p R
743	Key On Click	813	Smear Hit 1	883	Reg.Kick p R	953	WD Rim p L	1023	Amb.Snr1 f L
744	Org Click 1	814	Smear Hit 2	884	Reg.Kick f L	954	WD Rim p R	1024	Amb.Snr1 f R
745	Org Click 2	815	LoFi Min Hit	885	Reg.Kick f R	955	WD Rim mf L	1025	Amb.Snr2 p L
746	Org Click 3	816	Orch. Hit	886	Reg.Kick ffL	956	WD Rim mf R	1026	
747 748	Org Click 4 Org Click 5	81 <i>7</i> 818	Punch Hit O'Skool Hit	88 <i>7</i> 888	Reg.Kick ffR Rock Kick p	957 958	WD Rim f L WD Rim f R	1027 1028	Amb.Snr2 f L Amb.Snr2 f R
749	JD Sm Metal	819	Philly Hit	889	Rock Kick f	959	WD Rim ff L	1029	Piccolo Snr
750	Ice Crash	820	Scratch 1	890	Jazz Kick p	960	WD Rim ff R	1030	
<i>75</i> 1	JD Switch	821	Scratch 2	891	Jazz Kick mf	961	LD Snr p L	1031	Light Snr ff
752	JD Tuba Slap	822	Scratch 3	892	Jazz Kick f	962	LD Snr p R	1032	Click Snr p
753 754	JD Plink JD Plunk	823 824	Scratch 4 Scratch 5	893 894	Dry Kick 1 Tiaht Kick	963 964	LD Snr mf L LD Snr mf R	1033 1034	Click Snr ff SF SnrGst1 L
755	TVF Trigger	825	Scratch 6	895	Old Kick	965	LD Snr f L	1034	SF SnrGst1 R
756	Hi Q	826	Scratch 7	896	Jz Dry Kick	966	LD Snr f R	1036	SF SnrGst2 L
<i>757</i>	Slap	827	Scratch 9	897	Dry Kick 2	967	LD Snr ff L	1037	SF SnrGst2 R
<i>7</i> 58	Stick	828	Scratch 10	898	Dry Kick 3	968	LD Snr ff R	1038	Reg.SnrGst L
759 760	Click Cutting Nz	829 830	Scratch Push Scratch Pull	899 900	Power Kick R&B Kick L	969 970	LD Rim mf L LD Rim mf R	1039 1040	Reg.SnrGst R Sft Snr Gst
761	Ac.Bass Body	831	MG Zap 1	901	R&B Kick R	971	LD Rim f L	1040	Jazz Snr p
762	Flute Pad Nz	832	MG Zap 2	902	Rk CmpKick L	972	LD Rim f R	1042	Jazz Snr mf
<i>7</i> 63	Applause	833	MG Zap 3	903	Rk CmpKick R	973	LD Rim ff L	1043	Jazz Snr f
764	River	834	MG Zap 4	904	MaxLow Kick1	974	LD Rim ff R	1044	Jazz Rim p
765 766	Thunder	835	MG Zap 5	905	MaxLow Kick2	975	TY Snr p L	1045 1046	Jz Brsh Slap
766 767	Monsoon Stream	836 83 <i>7</i>	MG Zap 6 MG Zap 7	906 907	Dist Kick FB Kick	976 977	TY Snr p R TY Snr mf L	1046	Jz Brsh Swsh Swish&Turn p
768	Bubble	838	MG Zap 8	908	Rough Kick1	978	TY Snr mf R	1047	Swish&Turn f
769	Bird Song	839	MG Zap 9	909	Rough Kick2	979	TY Snr f L	1049	Snr Roll Lp
770	Dog Bark	840	MG Zap 10	910	Rough Kick3	980	TY Snr f R	1050	BrushRoll Lp

No.	Name	No. 1	Name	No.	Name	No.	Name	No.	Name
1051 1052 1053 1054 1055 1056 1057 1058 1059 1060	Soft Jz Roll Concert SD GoodOld Snr1 GoodOld Snr2 GoodOld Snr3 GoodOld Snr4 GoodOld Snr5 GoodOld Snr6 Dirty Snr 1 Dirty Snr 2	1122 S 1123 R 1124 R 1125 S 1126 H 1127 N 1128 L 1129 L	SF CStk f L SF CStk f R Reg. Stick L Reg. Stick R Soft Stick Hard Stick Wild Stick Lo-Bit Stk 1 Lo-Bit Stk 2 Dry Stick 1	1191 1192 1193 1194 1195 1196 1197 1198 1199 1200	Sharp Hi Tom Dry Lo Tom TR909 Tom TR909 DstTom TR808 Tom TR606 Tom Deep Tom Reg.CHH 1 p Reg.CHH 1 mf Reg.CHH 1 f	1261 1262 1263 1264 1265 1266 1267 1268 1269 1270	TR808 Cym TR606 Cym 2 Ride Cymbal Ride Bell Rock Rd Cup Rock Rd Edge Jazz Ride p Jazz Ride mf TR909 Ride China Cymbal	1331 1332 1333 1334 1335 1336 1337 1338 1339 1340	Conga Lo Op Conga Slp Op Conga Efx Conga Thumb Conga 2H Op Conga 2H Slp Conga 2L Op Conga 2L Mt TR808 Conga 1
1061 1062 1063 1064 1065 1066 1067 1068 1069 1070	Dirty Snr 3 Dirty Snr 4 Dirty Snr 5 Dirty Snr 6 Dirty Snr 6 Dirty Snr 7 Grit Snr 1 Grit Snr 2 Grit Snr 3 LoBit SnrFlm Lo-Bit Snr 1	1131 E 1132 E 1133 R 1134 R 1135 R 1136 T 1137 T 1138 L 1139 L	Dry Stick 2 Dry Stick 3 R8 Comp Rim R&B ShrtRim 1 R&B ShrtRim2 TR909 Rim TR808 Rim LD L.Tom mf LD L.Tom ff	1201 1202 1203 1204 1205 1206 1207 1208 1209 1210	Reg.CHH 1 ff Reg.CHH 2 mf Reg.CHH 2 ff Reg.CHH 2 ff Reg.PHH mf Reg.PHH ff Reg.OHH mf Reg.OHH ff Reg.OHH ff Reg.OHH ff	1271 1272 1273 1274 1275 1276 1277 1278 1279 1280	Concert Cym Concert Cym2 Hand Clap Club Clap Real Clap Bright Clap R8 Clap Gospel Clap Amb Clap Hip Clap	1341 1342 1343 1344 1345 1346 1347 1348 1349 1350	TR808 Conga2 Timbale 1 Timbale 2 Timbare 3 Timbare 4 Cabasa Up Cabasa Down Cabasa Cut Cabasa 2 Cabasa 2 Cut
1071 1072 1073 1074 1075 1076 1077 1078 1079 1080	Lo-Bit Snr 2 MrchCmp Snr Reggae Snr DR660 Snr Jngl pkt Snr Pocket Snr Flange Snr Analog Snr 1 Analog Snr 2 Analog Snr 3	1142 L 1143 L 1144 L 1145 L 1146 L 1147 T 1148 T 1149 T	LD M.Tom mf LD M.Tom f LD M.Tom ff LD H.Tom mf LD H.Tom f LD H.Tom f LD H.Tom f YY L.Tom mf TY L.Tom f TY L.Tom f TY L.Tom ff TY M.Tom mf	1211 1212 1213 1214 1215 1216 1217 1218 1219 1220	Rock CHH1 f Rock CHH2 mf Rock CHH2 f Rock OHH Lo-Bit CHH 1 Lo-Bit CHH 2 Lo-Bit CHH 3 Lo-Bit CHH 4 Lo-Bit CHH 5 HipHop CHH	1281 1282 1283 1284 1285 1286 1287 1288 1289 1290	Funk Clap Claptail TR808 Clap 1 Disc Clap Dist Clap Dist Clap 2 Old Clap TR909 Clap 1 TR909 Clap 2 TR808 Clap 2	1351 1352 1353 1354 1355 1356 1357 1358 1359 1360	Maracas 808 Maracas R8 Shaker Shaker 1 Shaker 2 Shaker 3 Guiro 1 Guiro 2 Guiro 2 Guiro 2 Up
1081 1082 1083 1084 1085 1086 1087 1088 1089 1090	Tiny Snare R&B ShrtSnr1 TR909 Snr 1 TR909 Snr 2 TR909 Snr 3 TR909 Snr 4 TR909 Snr 5 TR909 Snr 6 TR808 Snr 1 TR808 Snr 2	1152 T 1153 T 1154 T 1155 T 1156 R 1157 R 1158 R 1159 S	TY M.Tom f TY M.Tom ff TY H.Tom mf TY H.Tom f TY H.Tom f TY T.Tom f RR F.Tom mp RR F.Tom f SF L.Tom ff SF L.Tom ff	1221 1222 1223 1224 1225 1226 1227 1228 1229 1230	TR909 CHH 1 TR909 CHH 2 TR808 CHH 1 TR808 CHH 2 TR606 CHH 1 TR606 CHH 2 TR606 DstCHH Lite CHH CR78 CHH	1291 1292 1293 1294 1295 1296 1297 1298 1299 1300	TR707 Clap Cheap Clap Mix Clap 1 L Mix Clap 1 R Mix Clap 2 L Mix Clap 2 R Mix Clap 3 Mix Clap 4 Finger Snap Club FinSnap	1361 1362 1363 1364 1365 1366 1367 1368 1369 1370	Guiro 2 Down Guiro 2 Fast Vibraslap Tamborine 1 Tamborine 2 Tamborine 3 Tamborine4 p Tamborine4 f CR78 Tamb
1091 1092 1093 1094 1095 1096 1097 1098 1099 1100	TR808 Snr 3 TR808 Snr 4 Lite Snare TR808 Snr 5 TR808 Snr 6 TR606 Snr 1 TR606 Snr 2 CR78 Snare Urbn Sn Roll Vint Snr 1	1162 S 1163 S 1164 S 1165 S 1166 S 1167 R 1168 S 1169 S	SF M.Tom mf SF M.Tom f SF M.Tom f SF H.Tom mf SF H.Tom f SF HT FIm ff SF LT FIm f SF MT FIm f	1231 1232 1233 1234 1235 1236 1237 1238 1239 1240	Noise CHH Hip PHH TR909 PHH 1 TR909 PHH 2 TR808 PHH TR606 PHH 1 TR606 PHH 2 Lo-Bit PHH Lo-Bit OHH 1 Lo-Bit OHH 2	1301 1302 1303 1304 1305 1306 1307 1308 1309 1310	Snap Group Snap Cowbell Cowbell Mute Cowbell2 Lng Cowbell3 Edg Cowbell3 ff TR808Cowbell Wood Block	1371 1372 1373 1374 1375 1376 1377 1378 1379 1380	Cajon 2 Cajon 3 Cajon 4 SprgDrm Hit Cuica Cuica 2 Hi Cuica 2 Low Timpani p Timpani f Timpani Roll
1101 1102 1103 1104 1105 1106 1107 1108 1109	Vint Snr 2 Vint Snr 3 Vint Snr 4 Dist Snr Short Snr1 Short Snr2 WD CStk mf L WD CStk mf R WD CStk f L WD CStk f L	1172 S 1173 R 1174 R 1175 R 1176 R 1177 R 1178 R 1179 R	SF HT Flm f SF HT Flm ff Reg.F.Tom p Reg.L.Tom f Reg.L.Tom f Reg.L.Tom f Reg.M.Tom p Reg.M.Tom f Reg.M.Tom f Reg.H.Tom f	1241 1242 1243 1244 1245 1246 1247 1248 1249 1250	Lo-Bit OHH 3 HipHop OHH TR909 OHH 1 TR909 OHH 2 TR808 OHH 1 TR808 OHH 2 TR606 OHH Lite OHH CR78 OHH Noise OHH	1311 1312 1313 1314 1315 1316 1317 1318 1319 1320	Wood Block2H Wood Block2L Claves Claves 2 TR808 Claves CR78 Beat Castanet Whistle Whistle Long Whistle Shrt	1381 1382 1383 1384 1385 1386 1387 1388 1389 1390	Timpani Lp ConcertBD p ConcertBD f ConcertBD ff ConcertBD Lp Triangle 1 Triangle 2 Tibet Cymbal Slight Bell Wind Chime
1111 1112 1113 1114 1115 1116 1117 1118 1119 1120	LD CStk mf L LD CStk fr R LD CStk f L LD CStk f R TY CStk f R TY CStk mf L TY CStk mf R TY CStk f R TY CStk f R SF CStk p L SF CStk p R	1182 R 1183 R 1184 J 1185 J 1186 J 1187 J 1188 J 1189 J	Reg.L.TomFlm Reg.M.TomFlm Jazz Lo Tom Jazz Mid Tom Jazz Mid Tom Jazz Hi Tom Jazz Lo Flm Jazz Mid Flm Jazz Hi Flm Jazz Hi Flm Jazz Hi Flm	1251 1252 1253 1254 1255 1256 1257 1258 1259 1260	Noise OHH 2 Crash Cym1 p Crash Cym1 f Crash Cym 2 Rock Crash 1 Rock Crash 2 Splash Cym Jazz Crash TR909 Crash	1321 1322 1323 1324 1325 1326 1327 1328 1329 1330	Bongo Hi Mt Bongo Hi Slp Bongo Hi Op Bongo Lo Op Bongo Lo Slp Conga Hi Mt Conga Lo Mt Conga Hi Slp Conga Lo Slp Conga Hi Op	1391 1392 1393 1394 1395 1396 1397 1398 1399 1400	Crotale R8 Click Metro Bell Metro Click MC500 Beep 1 MC500 Beep 2 DR202 Beep Low Square Low Sine DC

MIDI Implementation

Model: SonicCell
Date: 2007.6.15
Version: 1.00

1. Receive data

■Channel Voice Messages

 Not received in Performance mode when the Receive Switch parameter (Part Edit) is OFF.

Note off

<u>Status</u>	2nd byte	3rd byte
8nH	kkH	vvH
9nH	kkH	00H
n = MIDI chanr	nel number:	0H - FH (ch.1 - 16)
kk = note numb	er:	00H - 7FH (0 - 127)
vv = note off ve	elocity:	00H - 7FH (0 - 127)

* Not received when the Tone Env Mode parameter (Patch Ctrl and Rhythm General) is NO-SUS.

●Note on

<u>Status</u>	2nd byte	3rd byte
9nH	kkH	vvH

 $n = MIDI \ channel \ number: \qquad 0H - FH \ (ch.1 - 16)$ $kk = note \ number: \qquad 00H - 7FH \ (0 - 127)$ $vv = note \ on \ velocity: \qquad 01H - 7FH \ (1 - 127)$

●Polyphonic Key Pressure

<u>Status</u>	2nd byte	3rd byte
AnH	kkH	vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) kk = note number: 00H - 7FH (0 - 127) vv = Polyphonic Key Pressure: 00H - 7FH (0 - 127)

* Not received in Performance mode when the Receive Poly Key Pressure parameter (Performance MIDI) is OFF.

●Control Change

- If the corresponding Controller number is selected for the Patch Matrix Control Source parameter (Patch Mtrx Ctrl1-4), the corresponding effect will occur.
- * If a Controller number that corresponds to the System Control Source 1, 2, 3 or 4 parameter (System Control) is selected, the specified effect will apply if Patch Control Source 1, 2, 3 or 4 parameter (Patch Mtrx Ctrl1-4) is set to SYS CTRL1, SYS CTRL2, SYS CTRL3 or SYS CTRL4.

OBank Select (Controller number 0, 32)

<u>Status</u>	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	llH

n = MIDI channel number: 0H - FH (ch.1 - 16)

mm, ll = Bank number: 00 00H - 7F 7FH (bank.1 - bank.16384)

- * Not received in Performance mode when the Receive Bank Select (Performance MIDI) is OFF.
- * The Performances, Patches, and Rhythms corresponding to each Bank Select are as follows.

* The SRX series corresponding to each Bank Select are to see the SRX series owner's manual.

BANK MSB	SELECT LSB	PROGRAM NUMBER	GROUP	NUMBER
000		001 - 128	GM Patch	001 - 256
063 085	000	001 - 128 001 - 064 001 - 064	GM Patch User Performance Preset Performance	001 - 256 001 - 064 001 - 064
086	000 064	001 - 032 001 - 032	User Rhythm Preset Rhythm	001 - 032 001 - 032
087	000 001 064 065	001 - 128 001 - 128 001 - 128 001 - 128	User Patch User Patch Preset Patch A Preset Patch B	001 - 128 129 - 256 001 - 128 001 - 128
092	000 -	001 -	SRX Rhythm	001 -
093	000 -	001 -	SRX Patch	001 -
120 121	000 -	001 - 057 001 - 128	GM Rhythm GM Patch	001 - 009 001 - 256

OModulation (Controller number 1)

<u>Status</u>	<u>2nd byte</u>	<u>3rd byte</u>
BnH	01H	vvH
n = MIDI cl	nannel number:	0H - FH (ch.1 - 16

vv = Modulation depth: vr = Modulation dep

 Not received in Performance mode when the Receive Modulation parameter (Performance MIDI) is OFF.

OBreath type (Controller number 2)

<u>Status</u>	2nd byte	3rd byte
BnH	02H	vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) $vv = Control \ value:$ 00H - 7FH (0 - 127)

OFoot type (Controller number 4)

<u>Status</u>	2nd byte	3rd byte
BnH	04H	vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Control value: 00H - 7FH (0 - 127)

OPortamento Time (Controller number 5)

Status 2nd byte 3rd byte
BnH 05H vvH
n = MIDI channel number: 0H = EH (ch 1

 $n = MIDI \ channel \ number: \qquad 0H - FH \ (ch.1 - 16)$ $vv = Portamento \ Time: \qquad 00H - 7FH \ (0 - 127)$

* In Performance mode the Part Portament Time parameter (Part Edit) will change.

OData Entry (Controller number 6, 38)

Status2nd byte3rd byteBnH06HmmHBnH26HllH

n = MIDI channel number: 0H - FH (ch.1 - 16)

mm, ll = the value of the parameter specified by RPN/NRPN mm = MSB, ll = LSB

OVolume (Controller number 7)

2nd byte 3rd byte Status BnH 07HvvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Volume: 00H - 7FH (0 - 127)

- * Not received in Performance mode when the Receive Volume parameter (Performance MIDI) is OFF.
- * In Performance mode the Part Level parameter (Part Edit) will

OBalance (Controller number 8)

Status 2nd byte 3rd byte BnH 08H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) yy = Balance: 00H - 7FH (0 - 127)

OPanpot (Controller number 10)

Status 2nd byte 3rd byte BnH 0AH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Panpot: 00H - 40H - 7FH (Left - Center - Right)

- * Not received in Performance mode when the Receive Pan parameter (Performance MIDI) is OFF.
- * In Performance mode the Part Pan parameter (Part Edit) will change.

OExpression (Controller number 11)

Status 2nd byte 3rd byte BnH 0BH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Expression: 00H - 7FH (0 - 127)

- * Not received when Tone Receive Expression parameter (Patch Ctrl or Rhythm General) is OFF.
- * Not received in Performance mode when Receive Expression parameter (Performance MIDI) is OFF.

OHold 1 (Controller number 64)

Status 2nd byte 3rd byte 40H vvH BnH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Control value: 00H - 7FH (0 - 127) 0-63 = OFF, 64-127 = ON

- * Not received when Tone Receive Hold-1 parameter (Patch Ctrl or Rhythm General) is OFF.
- * Not received in Performance mode when Receive Hold-1 parameter (Performance MIDI) is OFF.

OPortamento (Controller number 65)

Status 2nd byte 3rd byte BnH 41H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

00H - 7FH (0 - 127) 0 - 63 = OFF, 64 - 127 = ON vv = Control value.

* In Performance mode the Part Portamento Switch parameter (Part Edit) will change.

OSostenuto (Controller number 66)

2nd byte 3rd byte Status BnH 42H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Control value: 00H - 7FH (0 - 127) 0 - 63 = OFF, 64 - 127 = ON

OSoft (Controller number 67)

Status 2nd byte 3rd byte BnH 43H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Control value: 00H - 7FH (0 - 127) 0 - 63 = OFF, 64 - 127 = ON

OLegato Foot Switch (Controller number 68)

Status 2nd byte 3rd byte BnH 44H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Control value: 00H - 7FH (0 - 127) 0 - 63 = OFF, 64 - 127 = ON

* In Performance mode the Part Legato Switch parameter (Part Edit) will change.

OHold-2 (Controller number 69)

Status 2nd byte 3rd byte BnH 45H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Control value: 00H - 7FH (0 - 127)

* A hold movement isn't done.

OResonance (Controller number 71)

2nd byte 3rd byte Status BnH 47H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv= Resonance value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Resonance Offset parameter (Part Edit) will change.

ORelease Time (Controller number 72)

Status 2nd byte 3rd byte 48H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Release Time value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Release Offset parameter (Part Edit) will change.

OAttack time (Controller number 73)

Status 2nd byte 3rd byte 49H BnH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Attack time value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Attack Offset parameter (Part Edit) will change.

MIDI Implementation

OCutoff (Controller number 74)

Status2nd byte3rd byteBnH4AHvvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Cutoff value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Cutoff Offset parameter (Part Edit) will change.

ODecay Time (Controller number 75)

Status2nd byte3rd byteBnH4BHvvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Decay Time value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Decay Offset parameter (Part Edit) will change.

OVibrato Rate (Controller number 76)

Status 2nd byte 3rd byte
BnH 4CH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Vibrato Rate value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Vibrato Rate parameter (Part Edit) will change.

OVibrato Depth (Controller number 77)

Status2nd byte3rd byteBnH4DHvvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Vibrato Depth Value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

* In Performance mode the Part Vibrato Depth parameter (Part Edit) will change.

OVibrato Delay (Controller number 78)

Status 2nd byte 3rd byte
BnH 4EH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16)

vv = Vibrato Delay value (relative change): 00H - 40H - 7FH (-64 - 0 - +63)

 In Performance mode the Part Vibrato Delay parameter (Part Edit) will change.

OGeneral Purpose Controller 5 (Controller number 80)

Status 2nd byte 3rd byte BnH 50H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Control value: 00H - 7FH (0 - 127)

* The Tone Level parameter (Patch TVA) of Tone 1 will change.

OGeneral Purpose Controller 6 (Controller number 81)

Status 2nd byte 3rd byte
BnH 51H vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Control value: 00H - 7FH (0 - 127)

* The Tone Level parameter (Patch TVA) of Tone 2 will change.

OGeneral Purpose Controller 7 (Controller number 82)

 $\begin{array}{cc} \underline{Status} & \underline{2nd\ byte} & \underline{3rd\ byte} \\ BnH & 52H & vvH \end{array}$

n = MIDI channel number: 0H - FH (ch.1 - 16) $vv = Control \ value: 00H - 7FH (0 - 127)$

* The Tone Level parameter (Patch TVA) of Tone 3 will change.

OGeneral Purpose Controller 8 (Controller number 83)

 Status
 2nd byte
 3rd byte

 BnH
 53H
 vvH

 $\begin{aligned} n &= \text{MIDI channel number:} & 0\text{H - FH (ch.1 - 16)} \\ vv &= \text{Control value:} & 00\text{H - 7FH (0 - 127)} \end{aligned}$

* The Tone Level parameter (Patch TVA) of Tone 4 will change.

OPortamento control (Controller number 84)

Status2nd byte3rd byteBnH54HkkH

 $n = MIDI \ channel \ number: \qquad 0H - FH \ (ch.1 - 16)$ $kk = source \ note \ number: \qquad 00H - 7FH \ (0 - 127)$

- A Note-on received immediately after a Portamento Control message will change continuously in pitch, starting from the pitch of the Source Note Number.
- * If a voice is already sounding for a note number identical to the Source Note Number, this voice will continue sounding (i.e., legato) and will, when the next Note-on is received, smoothly change to the pitch of that Note-on.
- * The rate of the pitch change caused by Portamento Control is determined by the Portamento Time value.

OEffect 1 (Reverb Send Level) (Controller number 91)

Status 2nd byte 3rd byte
BnH 5BH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Reverb Send Level: 00H - 7FH (0 - 127)

 In Performance mode the Part Reverb Send Level parameter (Part Edit) will change.

OEffect 3 (Chorus Send Level) (Controller number 93)

Status2nd byte3rd byteBnH5DHvvH

n = MIDI channel number: 0H - FH (ch.1 - 16) vv = Chorus Send Level: 00H - 7FH (0 - 127)

* In Performance mode the Part Chorus Send Level parameter (Part Edit) will change.

ORPN MSB/LSB (Controller number 100, 101)

Status2nd byte3rd byteBnH65HmmHBnH64HllH

n = MIDI channel number: 0H - FH (ch.1 - 16)

mm = upper byte (MSB) of parameter number specified by RPN ll = lower byte (LSB) of parameter number specified by RPN

<<< RPN >>>

Control Changes include RPN (Registered Parameter Numbers), which are extended.

When using RPNs, first RPN (Controller numbers 100 and 101; they can be sent in any order) should be sent in order to select the parameter, then Data Entry (Controller numbers 6 and 38) should be sent to set the value. Once RPN messages are received, Data Entry messages that is received at the same MIDI channel after that are recognized as changing toward the value of the RPN messages. In order not to make any mistakes, transmitting RPN Null is recommended after setting parameters you need.

This device receives the following RPNs.

RPN Data entry

MSB, LSB MSB, LSB Notes

00H, 00H mmH, llH Pitch Bend Sensitivity

mm: 00H - 18H (0 - 24 semitones) ll: ignored (processed as 00H) Up to 2 octave can be specified in

semitone steps.

 In Performance mode, the Part Bend Range parameter (Part Edit) will change.

00H, 01H mmH, llH Channel Fine Tuning

mm, ll: 20 00H - 40 00H - 60 00H (-4096 x 100 / 8192 - 0 - +4096 x 100 / 8192 cent)

* In Performance mode, the Part Fine Tune parameter (Part Edit) will change.

00H, 02H mmH, llH Channel Coarse Tuning

mm: 10H - 40H - 70H (-48 - 0 - +48

semitones)

ll: ignored (processed as 00H)

* In Performance mode, the Part Coarse Tune parameter (Part Edit) will change.

00H, 05H mmH, llH Modulation Depth Range

mm: 00 00H - 06 00H

(0 - 16384 x 600 / 16384 cent)

* Not received in Patch mode.

7FH, 7FH ---, --- RPN null

RPN and NRPN will be set as "unspecified." Once this setting has been made, subsequent Parameter values that were previously set will not change.

mm, ll: ignored

Program Change

Status 2nd byte CnH ppH

n = MIDI channel number: OH - FH (ch.1 - 16)

pp = Program number: 00H - 7FH (prog.1 - prog.128)

* Not received in Performance mode when the Receive Program Change parameter (Performance MIDI) is OFF.

●Channel Pressure

Status 2nd byte
DnH vvH

n = MIDI channel number: OH - FH (ch.1 - 16) vv = Channel Pressure: OOH - 7FH (0 - 127)

* Not received in Performance mode when the Receive Channel Pressure parameter (Performance MIDI) is OFF.

●Pitch Bend Change

Status2nd byte3rd byteEnHllHmmH

n = MIDI channel number: 0H - FH (ch.1 - 16)

mm, ll = Pitch Bend value: 00 00H - 40 00H - 7F 7FH (-8192 - 0 - +8191)

- Not received when the Tone Receive Bender parameter (Patch Ctrl) is OFF.
- * Not received in Performance mode when the Receive Pitch Bend parameter (Performance MIDI) is OFF.

■Channel Mode Messages

* Not received in Performance mode when the Receive Switch parameter (Part Edit) is OFF.

●All Sounds Off (Controller number 120)

 Status
 2nd byte
 3rd byte

 BnH
 78H
 00H

 n = MIDI channel number: 0H - FH (ch.1 - 16)

 When this message is received, all notes currently sounding on the corresponding channel will be turned off.

MIDI Implementation

● Reset All Controllers (Controller number 121)

 $\begin{array}{ccc} \underline{Status} & \underline{2nd\ byte} & \underline{3rd\ byte} \\ BnH & 79H & 00H \\ n = MIDI\ channel\ number: 0H - FH\ (ch.1\ - 16) \end{array}$

 When this message is received, the following controllers will be set to their reset values.

 Controller
 Reset value

 Pitch Bend Change
 +/-0 (center)

 Polyphonic Key Pressure
 0 (off)

 Channel Pressure
 0 (off)

 Modulation
 0 (off)

 Breath Type
 0 (min)

Expression 127 (max) However the controller

will be at minimum.

 Hold 1
 0 (off)

 Sostenuto
 0 (off)

 Soft
 0 (off)

 Hold 2
 0 (off)

RPN unset; previously set data will not change NRPN unset; previously set data will not change

●All Notes Off (Controller number 123)

 Status
 2nd byte
 3rd byte

 BnH
 7BH
 00H

 n = MIDI channel number: 0H - FH (ch.1 - 16)

* When All Notes Off is received, all notes on the corresponding channel will be turned off. However, if Hold 1 or Sostenuto is ON, the sound will be continued until these are turned off.

●OMNI OFF (Controller number 124)

 $\begin{array}{ccc} \underline{Status} & \underline{2nd\ byte} & \underline{3rd\ byte} \\ BnH & 7CH & 00H \\ n = MIDI\ channel\ number: 0H - FH\ (ch.1\ - 16) \end{array}$

 The same processing will be carried out as when All Notes Off is received.

●OMNI ON (Controller number 125)

 $\begin{array}{ccc} \underline{Status} & \underline{2nd\ byte} & \underline{3rd\ byte} \\ BnH & 7DH & 00H \\ n = MIDI\ channel\ number: 0H - FH\ (ch.1\ - 16) \end{array}$

 The same processing will be carried out as when All Notes Off is received. OMNI ON will not be turned on.

●MONO (Controller number 126)

Status2nd byte3rd byteBnH7EHmmH

n = MIDI channel number: 0H - FH (ch.1 - 16) mm = mono number: 00H - 10H (0 - 16)

- * The same processing will be carried out as when All Notes Off is received.
- * In Performance mode, the Part Mono/Poly parameter (Part Edit) will change.

●POLY (Controller number 127)

 Status
 2nd byte
 3rd byte

 BnH
 7FH
 00H

 n = MIDI channel number: 0H - FH (ch.1 - 16)

- * The same processing will be carried out as when All Notes Off is received.
- In Performance mode, the Part Mono/Poly parameter (Part Edit) will change.

■System Realtime Message

Timing Clock

Status F8H

* This is received when Sync Mode parameter (System) is SLAVE.

Active Sensing

Status

FEH

* When Active Sensing is received, the unit will begin monitoring the intervals of all further messages. While monitoring, if the interval between messages exceeds 420 ms, the same processing will be carried out as when All Sounds Off, All Notes Off and Reset All Controllers are received, and message interval monitoring will be halted.

Status

Status

F7H

■System Exclusive Message

Status Data byte Status
F0H iiH, ddH,,eeH F7H

F0H: System Exclusive Message status

ii = ID number: an ID number (manufacturer ID) to indicate the

manufacturer whose Exclusive message this is.

Roland's manufacturer ID is 41H.

ID numbers 7EH and 7FH are extensions of the MIDI standard; Universal Non-realtime Messages (7EH) and Universal Realtime

Status

Status

Messages (7FH).

dd,...,ee = data: 00H - 7FH (0 - 127) F7H: EOX (End Of Exclusive)

Of the System Exclusive messages received by this device, the Universal Non-realtime messages and the Universal Realtime messages and the Data Request (RQ1) messages and the Data Set (DT1) messages will be set automatically.

●Universal Non-realtime System Exclusive Messages

Oldentity Request Message

Data byte

Data byte

Status

F0H	7EH, dev, 06H, 01H F7H
<u>Byte</u>	<u>Explanation</u>
F0H	Exclusive status
7EH	ID number (Universal Non-realtime Message)
dev	Device ID (dev: 10H - 1FH, 7FH)
06H	Sub ID#1 (General Information)
01H	Sub ID#2 (Identity Request)
F7H	EOX (End Of Exclusive)

 When this message is received, Identity Reply message (p. 256) will be transmitted.

○GM1 System On

Status

F0H	7EH, 7FH, 09H, 01H	F7H
<u>Byte</u>	Explanation	
F0H	Exclusive status	
7EH	ID number (Universal	Non-realtime Message)
7FH	Device ID (Broadcast)	
09H	Sub ID#1 (General MII	OI Message)
01H	Sub ID#2 (General MII	OI 1 On)
F7H	EOX (End Of Exclusive	e)

- When this messages is received, this instrument will turn to the Performance mode.
- * Not received when the Receive GM1 System On parameter (System MIDI) is OFF.

OGM2 System On

Data byte

Status

F0H	7EH 7FH 09H 03H F7H
<u>Byte</u> F0H	Explanation Exclusive status
7EH	ID number (Universal Non-realtime Message)
7FH 09H	Device ID (Broadcast) Sub ID#1 (General MIDI Message)
03H F7H	Sub ID#2 (General MIDI 2 On) EOX (End Of Exclusive)

- * When this messages is received, this instrument will turn to the Performance mode.
- * Not received when the Receive GM2 System On parameter (System MIDI) is OFF.

OGM System Off

Data byte

Data byte

7EH. 7F. 09H. 02H

Status

Status

F0H

	. ===, . = ,
<u>Byte</u>	<u>Explanation</u>
F0H	Exclusive status
7EH	ID number (Universal Non-realtime Message)
7FH	Device ID (Broadcast)
09H	Sub ID#1 (General MIDI Message)
02H	Sub ID#2 (General MIDI Off)
F7H	EOX (End Of Exclusive)

 When this messages is received, this instrument will return to the Performance mode.

Universal Realtime System Exclusive Messages OMaster Volume

Status

F0H	7FH, 7FH, 04H, 01H, llH, mmH F7H
<u>Byte</u>	<u>Explanation</u>
F0H	Exclusive status
7FH	ID number (universal realtime message)
7FH	Device ID (Broadcast)
04H	Sub ID#1 (Device Control)
01H	Sub ID#2 (Master Volume)
llH	Master Volume lower byte
mmH	Master Volume upper byte
F7H	EOX (End Of Exclusive)

- * The lower byte (llH) of Master Volume will be handled as 00H.
- * The Master Level parameter (System) will change.

MIDI Implementation

OMaster Fine Tuning

<u>Status</u>	<u>Data byte</u>	<u>Status</u>
F0H	7FH, 7FH, 04H, 03H, llH, mmH	F7H
<u>Byte</u>	<u>Explanation</u>	
F0H	Exclusive status	
7FH	ID number (universal realtime mes	sage)
7FH	Device ID (Broadcast)	
04H	Sub ID#1 (Device Control)	
03H	Sub ID#2 (Master Fine Tuning)	
llH	Master Fine Tuning LSB	
mmH	Master Fine Tuning MSB	
F7H	EOX (End Of Exclusive)	

mm, ll: 00 00H - 40 00H - 7F 7FH (-100 - 0 - +99.9 [cents])

OMaster Coarse Tuning

<u>Status</u>	<u>Data byte</u>	<u>Status</u>
F0H	7FH, 7FH, 04H, 04H, llH, mmH	F7
<u>Byte</u>	Explanation	
F0H	Exclusive status	
7FH	ID number (universal realtime mes	sage)
7FH	Device ID (Broadcast)	
04H	Sub ID#1 (Device Control)	
04H	Sub ID#2 (Master Coarse Tuning)	
llH	Master Coarse Tuning LSB	
mmH	Master Coarse Tuning MSB	
F7H	EOX (End Of Exclusive)	
llH:	ignored (processed as 00H)	
mmH:	28H - 40H - 58H (-24 - 0 - +24 [semi	itones])

^{*} The Master Key Shift parameter (System) will change.

●Global Parameter Control

* Not received in Patch mode.

OReverb Parameters

Status F0H	<u>Data byte</u> 7FH, 7FH, 04H, 05H, 01H, 01H, 01H, 01H, 01H, ppH, vvH	<u>Status</u> F7H
<u>Byte</u>	Explanation	
F0H	Exclusive status	
7FH	ID number (universal realtime mess	sage)
7FH	Device ID (Broadcast)	
04H	Sub ID#1 (Device Control)	
05H	Sub ID#2 (Global Parameter Contro	ol)
01H	Slot path length	
01H	Parameter ID width	
01H	Value width	
01H	Slot path MSB	
01H	Slot path LSB (Effect 0101: Reverb)	
ррН	Parameter to be controlled.	
vvH	Value for the parameter.	

	pp=0 Reverb Type
	vv = 00H Small Room
	vv = 01H Medium Room
	vv = 02H Large Room
	vv = 03H Medium Hall
	vv = 04H Large Hall
	vv = 08H Plate
	pp=1 Reverb Time
	vv = 00H - 7FH 0 - 127
F7H	EOX (End Of Exclusive)

OChorus Parameters

Byte

<u>Status</u>	<u>Data byte</u>	<u>Status</u>
F0H	7FH, 7FH, 04H, 05H, 01H, 01H,	F7H
	01H, 01H, 02H, ppH, vvH	

Explanation

F0H	Exclusive status
7FH	ID number (universal realtime message)
7FH	Device ID (Broadcast)
04H	Sub ID#1 (Device Control)
05H	Sub ID#2 (Global Parameter Control)
01H	Slot path length
01H	Parameter ID width
01H	Value width
01H	Slot path MSB
02H	Slot path LSB (Effect 0102: Chorus)
ррН	Parameter to be controlled.
vvH	Value for the parameter.
	pp=0 Chorus Type
	vv=0 Chorus1
	vv=1 Chorus2
	vv=2 Chorus3
	vv=3 Chorus4
	vv=4 FB Chorus
	vv=5 Flanger
	pp=1 Mod Rate
	vv= 00H - 7FH 0 - 127
	pp=2 Mod Depth
	vv = 00H - 7FH 0 - 127
	pp=3 Feedback
	vv = 00H - 7FH 0 - 127
	pp=4 Send To Reverb
	vv = 00H - 7FH 0 - 127
F7H	EOX (End Of Exclusive)

^{*} The Master Tune parameter (System) will change.

○Channel	Pressure
----------	----------

Ochannel Flessure		
<u>Status</u>	Data byte	Status
F0H	7FH, 7FH, 09H, 01H, 0nH, ppH, rrH F7H	
<u>Byte</u>	Explanation	
F0H	Exclusive status	
7FH	ID number (universal realtime messag	e)
7FH	Device ID (Broadcast)	
09H	Sub ID#1 (Controller Destination Setting	ng)
01H	Sub ID#2 (Channel Pressure)	
0nH	MIDI Channel (00 - 0F)	
ррН	Controlled parameter	
rrH	Controlled range	
	pp=0 Pitch Control	
	rr = 28H - 58H -24 - +24 [semitones]	
	pp=1 Filter Cutoff Control	
	rr = 00H - 7FH - 9600 - +9450 [cents]	
	pp=2 Amplitude Control	
	rr = 00H - 7FH 0 - 200%	
	pp=3 LFO Pitch Depth	
	rr = 00H - 7FH 0 - 600 [cents]	
	pp=4 LFO Filter Depth	
	rr = 00H - 7FH 0 - 2400 [cents]	
	pp=5 LFO Amplitude Depth	
	rr = 00H - 7FH 0 - 100%	
F7H	EOX (End Of Exclusive)	

○Controller

	Ocontroller			
	<u>Status</u>	Data byte	<u>Status</u>	
	F0H	7FH, 7FH, 09H, 03H, 0nH, ccH, ppH, rrH F7H		
	<u>Byte</u>	<u>Explanation</u>		
	F0H	Exclusive status		
	7FH	ID number (universal realtime message)		
	7FH	Device ID (Broadcast)		
	09H	Sub ID#1 (Controller Destination Setting)		
	03H	Sub ID#2 (Control Change)		
	0nH	MIDI Channel (00 - 0F)		
	ccH	Controller number (01 - 1F, 40 - 5F)		
	ррН	Controlled parameter		
	rrH	Controlled range		
		pp=0 Pitch Control		
		rr = 28H - 58H - 24 - +24 [semitones]		
		pp=1 Filter Cutoff Control		
		rr = 00H - 7FH -9600 - +9450 [cents]		
		pp=2 Amplitude Control		
		rr = 00H - 7FH 0 - 200%		
		pp=3 LFO Pitch Depth		
		rr = 00H - 7FH 0 - 600 [cents]		
		pp=4 LFO Filter Depth		
		rr = 00H - 7FH 0 - 2400 [cents]		
		pp=5 LFO Amplitude Depth		
		rr = 00H - 7FH 0 - 100%		
	F7H	EOX (End Of Exclusive)		

OScale/Octave Tuning Adjust

<u>Status</u>	<u>Data byte</u>	Status
F0H	7EH, 7FH, 08H, 08H, ffH, ggH, hhH, ssH F7	
Ruto	Explanation	
Byte Box	•	
F0H	Exclusive status	
7EH	ID number (Universal Non-realtime Messag	ge)
7FH	Device ID (Broadcast)	
08H	Sub ID#1 (MIDI Tuning Standard)	
08H	Sub ID#2 (scale/octave tuning 1-byte form)	
ffH	Channel/Option byte 1	
	bits 0 to $1 = $ channel 15 to 16	
	bit 2 to 6 = Undefined	
ggH	Channel byte 2	
	bits 0 to $6 = \text{channel } 8$ to 14	
hhH	Channel byte 3	
	bits 0 to $6 = \text{channel } 1$ to 7	
ssH	12 byte tuning offset of 12 semitones from C	to B
	00H = -64 [cents]	
	40H = 0 [cents] (equal temperament)	
	7FH = +63 [cents]	
F7H	EOX (End Of Exclusive)	

OKey-based Instrument Controllers Data byte

<u>Status</u>

F0H	7FH, 7FH, 0AH, 01H, 0nH, kkH, nnH, vvH		F7H
<u>Byte</u>	Explanation		
F0H	Exclusive statu	s	
7FH	ID number (un	iversal realtime message)	
7FH	Device ID (Bro	adcast)	
0AH	Sub ID#1 (Key-	Based Instrument Control)	
01H	Sub ID#2 (Con	troller)	
0nH	MIDI Channel	(00 - 0FH)	
kkH	Key Number		
nnH	Control Number		
vvH	Value		
	nn=07H Level		
	vv = 00H - 7FH 0 - 200% (Relative)		
	nn=0AH Pan		
	vv = 00H - 7FH Left - Right (Absolute)		
	nn=5BH Reverb Send		
	vv = 00H - 7FH	I 0 - 127 (Absolute)	
	nn=5D	Chorus Send	
	vv = 00H - 7FH 0 - 127 (Absolute)		
:	:		
F7	EOX (End Of Exclusive)		
	•	*	

^{*} This parameter affects drum instruments only.

●Data Transmission

This instrument can use exclusive messages to exchange many varieties of internal settings with other devices.

The model ID of the exclusive messages used by this instrument is 00H 00H 25H.

Status

OData Request 1 RQ1 (11H)

This message requests the other device to transmit data. The address and size indicate the type and amount of data that is requested. When a Data Request message is received, if the device is in a state in which it is able to transmit data, and if the address and size are appropriate, the requested data is transmitted as a Data Set 1 (DT1) message. If the conditions are not met, nothing is transmitted.

status F0H	data byte 41H, dev, 00H, 00H, 25H, 11H, aaH, bbH, ccH, ddH, ssH, ttH, uuH, vvH, sum	status F7H
<u>Byte</u>	<u>Remarks</u>	
F0H	Exclusive status	
41H	ID number (Roland)	
dev	device ID (dev: 10H - 1FH, 7FH)	
H00	model ID #1 (SonicCell)	
00H	model ID #2 (SonicCell)	
25H	model ID #3 (SonicCell)	
11H	command ID (RQ1)	
aaH	address MSB	
bbH	address	
ссН	address	
ddH	address LSB	
ssH	size MSB	
ttH	size	
uuH	size	
vvH	size LSB	
sum	checksum	
F7H	EOX (End Of Exclusive)	

- * The size of data that can be transmitted at one time is fixed for each type of data. And data requests must be made with a fixed starting address and size. Refer to the address and size given in "Parameter Address Map" (p. 257).
- * For the checksum, refer to (p. 275).
- * Not received when the Receive Exclusive parameter (System MIDI) is OFF.

OData set 1 DT1 (12H)			
<u>Status</u>	Data byte		<u>Status</u>
F0H	41H, dev, 00H,	00H, 25H, 12H, ааН, bbH,	F7H
	ccH, ddH, eeH,	, ffH, sum	
<u>Byte</u>	Explanation		
F0H	Exclusive statu	s	
41H	ID number (Roland)		
dev	Device ID (dev	: 00H - 1FH, 7FH)	
00H	Model ID #1 (SonicCell)		
00H	Model ID #2 (SonicCell)		
25H	Model ID #3 (SonicCell)		
12H	Command ID (DT1)	
aaH	Address MSB:	upper byte of the starting a	ddress of
		the data to be sent	
bbH	Address:	upper middle byte of the st	arting
		address of the data to be se	nt
ссН	Address:	lower middle byte of the st	arting
		address of the data to be se	nt

ddH	Address LSB:	lower byte of the starting address of
		the data to be sent.
eeH	Data:	the actual data to be sent. Multiple
		bytes of data are transmitted in
		order starting from the address.
:	:	
ffH	Data	
sum	Checksum	
F7H	EOX (End Of I	Exclusive)

- * The amount of data that can be transmitted at one time depends on the type of data, and data will be transmitted from the specified starting address and size. Refer to the address and size given in "Parameter Address Map" (p. 257).
- Data larger than 256 bytes will be divided into packets of 256 bytes or less, and each packet will be sent at an interval of about 20 ms.
- * Regarding the checksum, please refer to (p. 275)
- * Not received when the Receive Exclusive parameter (System MIDI) is OFF.

<u>Status</u>	Data byte		<u>Status</u>
F0H	41H, dev, 42H, 12H, aaH, bbH, F7H		
	ccH, ddH, ee	H, sum	
<u>Byte</u>	Explanation		
F0H	Exclusive statu	s	
41H	ID number (Ro	land)	
dev	Device ID (dev	: 10H - 1FH, 7FH)	
42H	Model ID (GS)		
12H	Command ID (DT1)	
aaH	Address MSB:	upper byte of the s	tarting address of
		the transmitted dat	ta
bbH	Address:	middle byte of the	starting address
		of the transmitted	data
ccH	Address LSB:	lower byte of the st	tarting address of
		the transmitted date	ta
ddH	Data:	the actual data to b	e transmitted.
		Multiple bytes of d	ata are
		transmitted startin	g from the
		address.	-
:	:		
eeH	Data		
sum	Checksum		
F7H	EOX (End Of E	xclusive)	

- * The amount of data that can be transmitted at one time depends on the type of data, and data will be transmitted from the specified starting address and size. Refer to the address and size given in "Parameter Address Map" (p. 257).
- * Data larger than 256 bytes will be divided into packets of 256 bytes or less, and each packet will be sent at an interval of about 20 ms.
- * Regarding the checksum, please refer to (p. 275)
- * Not received when the Receive Exclusive parameter (System MIDI) is OFF.

2. Data Transmission

Messages (except System Common and System Realtime Messages) that are received are then sent out when Soft Thru parameter (System MIDI) is switched to ON.

■Channel Voice Messages

●Note off

 Status
 2nd byte
 3rd byte

 8nH
 kkH
 vvH

 9nH
 kkH
 00H

 $n = MIDI \ channel \ number: \qquad 0H - FH \ (ch.1 - 16)$ $kk = note \ number: \qquad 00H - 7FH \ (0 - 127)$ $vv = note \ off \ velocity: \qquad 00H - 7FH \ (0 - 127)$

Note on

Status2nd byte3rd byte9nHkkHvvH

n = MIDI channel number: 0H - FH (ch.1 - 16) kk = note number: 00H - 7FH (0 - 127) vv = note on velocity: 01H - 7FH (1 - 127)

●Polyphonic Key Pressure

Status 2nd byte 3rd byte
AnH kkH vvH

n = MIDI channel number: 0H - FH (ch.1 - 16) kk = note number: 00H - 7FH (0 - 127) vv = Polyphonic Key Pressure: 00H - 7FH (0 - 127)

●Control Change

<u>BnH</u> <u>kkH</u> <u>vvH</u>

n=MIDI channel number: 0H - FH (ch.1 - 16) kk = Controller number: 00H - 77H (0 - 119) vv = Control value: 00H - 7FH (0 - 127)

Program Change

Status 2nd byte CnH ppH

n = MIDI channel number: 0H - FH (ch.1 - 16)

pp = Program number: 00H - 7FH (prog.1 - prog.128)

●Channel Pressure

Status 2nd byte DnH vvH

n = MIDI channel number: OH - FH (ch.1 - 16) vv = Channel Pressure: OOH - 7FH (0 - 127)

●Pitch Bend Change

Status 2nd byte 3rd byte EnH llH mmH

n = MIDI channel number: 0H - FH (ch.1 - 16)

mm, ll = Pitch Bend value: 00 00H - 40 00H - 7F 7FH (-8192 - 0 - +8191)

■Channel Mode Messages

●All Sounds Off (Controller number 120)

 Status
 2nd byte
 3rd byte

 BnH
 78H
 00H

 n = MIDI channel number: 0H - FH (ch.1 - 16)

● Reset All Controllers (Controller number 121)

 $\begin{array}{ccc} \underline{Status} & \underline{2nd\ byte} & \underline{3rd\ byte} \\ BnH & 79H & 00H \\ n = MIDI\ channel\ number: 0H - FH\ (ch.1 - 16) \end{array}$

●All Notes Off (Controller number 123)

 Status
 2nd byte
 3rd byte

 BnH
 7BH
 00H

 n = MIDI channel number: 0H - FH (ch.1 - 16)

●MONO (Controller number 126)

Status 2nd byte 3rd byte BnH 7EH mmH

n = MIDI channel number: 0H - FH (ch.1 - 16) mm = mono number: 00H - 10H (0 - 16)

●POLY (Controller number 127)

 $\begin{array}{lll} Status & 2nd \ byte & 3rd \ byte \\ BnH & 7FH & 00H \\ n = MIDI \ channel \ number: 0H - FH \ (ch.1 - 16) \end{array}$

^{*} This message is transmitted from SMF Player.

 $^{^{}st}$ This message is transmitted from SMF Player.

^{*} This message is transmitted from SMF Player.

■System Realtime Messages

Active Sensing

Status FEH

 This message is transmitted at intervals of approximately 250 msec.

■System Exclusive Message

<u>Status</u>	<u>Data byte</u>	Status
F0H	iiH, ddH,,eeH	F7H

F0H: System Exclusive Message status

ii = ID number: an ID number (manufacturer ID) to indicate the

manufacturer whose Exclusive message this is.

Roland's manufacturer ID is 41H.

ID numbers 7EH and 7FH are extensions of the MIDI standard; Universal Non-realtime Messages

(7EH) and Universal Realtime Messages (7FH).

dd,...,ee = data: 00H - 7FH (0 - 127)F7H: EOX (End Of Exclusive)

Universal Non-realtime System Exclusive Message" and Data Set 1 (DT1) are the only System Exclusive messages transmitted by the SonicCell.

Universal Non-realtime System Exclusive Message

Oldentity Reply Message (SonicCell)

Receiving Identity Request Message, the SonicCell send this message.

<u>Status</u>	<u>Data byte</u>	<u>Status</u>
F0H	7EH, dev, 06H, 02H, 41H, 25H, 02H,	
	00H, 00H, 00H, 00H, 00H, 00H	

<u>Byte</u> <u>Explanation</u> F0H Exclusive status

7EH ID number (Universal Non-realtime Message)

devDevice ID (dev: 10H - 1FH)06HSub ID#1 (General Information)02HSub ID#2 (Identity Reply)41HID number (Roland)25H 02HDevice family code00H 00HDevice family number code00H 00H 00H 00H 00H Software revision level

●Data Transmission

OData set 1 DT1 (12H)

 Status
 Data byte
 Status

 F0H
 41H, dev, 00H, 00H, 25H, 12H, aaH, bbH,
 F7H

ccH, ddH, eeH, ... ffH, sum

EOX (End of Exclusive)

<u>Byte</u>	<u>Explanation</u>		
F0H	Exclusive status		
41H	ID number (Ro	land)	
dev	Device ID (dev	: 00H - 1FH, 7FH)	
00H	Model ID #1 (S	onicCell)	
00H	Model ID #2 (S	onicCell)	
25H	Model ID #3 (S	onicCell)	
12H	Command ID (DT1)	
aaH	Address MSB:	upper byte of the starting address of	
		the data to be sent	
bbH	Address:	upper middle byte of the starting	
		address of the data to be sent	
ccH	Address:	lower middle byte of the starting	
		address of the data to be sent	
ddH	Address LSB:	lower byte of the starting address of	
		the data to be sent.	
eeH	Data:	the actual data to be sent. Multiple	
		bytes of data are transmitted in	
		order starting from the address.	
:	:		
ffH	Data		
sum	Checksum		
F7H	EOX (End Of Exclusive)		

E. ... L. .. . C. . ..

- * The amount of data that can be transmitted at one time depends on the type of data, and data will be transmitted from the specified starting address and size. Refer to the address and size given in "Parameter Address Map" (see right).
- Data larger than 256 bytes will be divided into packets of 256 bytes or less, and each packet will be sent at an interval of about 20 ms.

F7H

3. Parameter Address Map

- * Transmission of "#" marked address is divided to some packets.

 For example, ABH in hexadecimal notation will be divided to

 0AH and 0BH, and is sent/received in this order.
- * "<*>" marked address or parameters are ignored when the SonicCell received them.

1. Sonic Cell (ModelID = 00H 00H 25H)

Start Address	Description
01 00 00 00	Setup
02 00 00 00	System
10 00 00 00 11 00 00 00 11 20 00 00	Temporary Performance Temporary Patch/Rhythm (Performance Mode Part 1) Temporary Patch/Rhythm (Performance Mode Part 2)
14 60 00 00 1F 00 00 00	Temporary Patch/Rhythm (Performance Mode Part 16) Temporary Patch/Rhythm (Patch Mode)
20 00 00 00 20 01 00 00	User Performance (01) User Performance (02)
20 3F 00 00	User Performance (64)
30 00 00 00 30 01 00 00	User Patch (001) User Patch (002)
31 7F 00 00	User Patch (256)
	User Rhythm Set (001) User Rhythm Set (002)
43 70 00 00	User Rhythm Set (032)

* System

		+
Offset		
Address	Description	ı
	÷	ı
00 00 00	System Common	ı
00 02 00	System Mastering	ı
00 03 00	System External Input	

* Temporary Patch/Rhythm

1	Offset Address	Description	
	00 00 00 10 00 00	Temporary Patch Temporary Rhythm	

* Performance

Offset Address	Description
00 04 00 00 06 00 00 08 00 00 0A 00 00 10 00	Performance Common MFX1 Performance Common Chorus Performance Common MFX2 Performance Common MFX2 Performance MFX3 Performance MIDI (Channel 1)
00 11 00 : 00 1F 00 00 20 00 00 21 00 : 00 2F 00 00 60 00	Performance MIDI (Channel 16) Performance Part (Part 1) Performance Part (Part 2)

* Patch

Offset Address	Description
00 00 00 00 02 00 00 04 00 00 06 00 00 10 00 00 20 00 00 22 00 00 24 00 00 26 00	Patch Common MFX Patch Common MFX Patch Common Chorus Patch Common Reverb Patch TMT (Tone Mix Table) Patch TMG (Tone 1) Patch Tone (Tone 1) Patch Tone (Tone 2) Patch Tone (Tone 3) Patch Tone (Tone 4)

* Rhythm

Offset Address	Description
00 00 00	Rhythm Common
00 02 00	Rhythm Common MFX
00 04 00	Rhythm Common Chorus
00 06 00	Rhythm Common Reverb
00 10 00	Rhythm Tone (Key # 21)
00 12 00	Rhythm Tone (Key # 22)
:	
01 3E 00	Rhythm Tone (Key # 108)

* Setup

Offset Address		Description
00 00	0000 0aaa	Sound Mode (0 - 4 PATCH, PERFORM, GM1, GM2, GS
00 01 00 02 00 03	Oaaa aaaa Oaaa aaaa Oaaa aaaa	Performance Bank Select MSB (CC# 0) (0 - 127 Performance Bank Select LSB (CC# 32) (0 - 127 Performance Program Number (PC) (0 - 127
00 04 00 05 00 06 00 07 00 08 00 09	0aaa aaaa 0aaa aaaa 0aaa aaaa 0aaa aaaa 0aaa aaaa 0aaa aaaa	Patch Bank Select MSB (CC# 0) (0 - 127 Patch Bank Select LSB (CC# 32) (0 - 127 Patch Program Number (PC) (0 - 127 (reserve) <*> (reserve) <*> (reserve) <*> (reserve) <*>
		MFX1 Switch (0 - 1 BYPASS, ON
00 OB	0000 000a	MFX2 Switch (0 - 1 BYPASS, ON
00 OC	0000 000a	MFX3 Switch (0 - 1 BYPASS, ON
00 OD	0000 000a	Chorus Switch (0 - 1 OFF, ON
00 OE	0000 000a	Reverb Switch (0 - 1 OFF, ON
	0000 000a	OFF, ON
00 10	0000 000a	(reserve) <*>
		(reserve) <*> (reserve) <*>
00 13	0000 0aaa	(reserve) <*>
00 14	0000 0aaa	(reserve) <*>
00 15	0000 00aa	(reserve) <*> (reserve) <*>
00 16 00 17	0000 000a	(reserve) <*> (reserve) <*>
00 17	Oaaa aaaa	(reserve) <*>
00 19	0000 000a	(reserve) <*>
00 1A	Oaaa aaaa	(reserve) <*> (reserve) <*> (reserve) <*>
00 IB	Vaaa aaaa	(reserve) <*>
00 1E	0000 000a	(reserve) <*>
00 1F	Oaaa aaaa	(reserve) <*>
00 20 00 21	0000 0002	(reserve) <*> (reserve) <*
00 22	Oaaa aaaa	(reserve) <*>
00 23	0000 aaaa	
	UUUUU DUUU	(Teserve) <->
00 25	Oaaa aaaa	(reserve) <*> (reserve) <*>
00 27	Daaa aaaa	(reserve) <*>
00 28	Oaaa aaaa +	(reserve) <*>
00 29	0000 000a	(reserve) <*>
00 2A	Oaaa aaaa	(reserve) <*>
		(reserve) <*>
		(reserve) <*>
00 2D	0000 000a	(reserve) <*>

00 2E 00 2F 00 30 00 31 00 32 00 33	0000 000a 0000 000a 0aaa aaaa 0000 000a 0000 00aa 00aa aaaa	(reserve) <*>	
00 00 00 34	Total Size		

* System Common

Offset Address		Description	
	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Master Tune	(24 - 2024
00 04	00aa aaaa	-100.0 - Master Key Shift	100.0 [cent] (40 - 88
00 05 00 06	0aaa aaaa 0000 000a	Master Level Scale Tune Switch	-24 - +24 (0 - 127 (0 - 1 OFF, ON
00 07	0000 000a	Patch Remain	(0 - 1 OFF, ON
00 08	0000 000a	Mix/Parallel <*>	OFF, ON
00 09		Performance Control Channel	(0 - 16
00 OA	0000 aaaa	Patch Receive Channel	1 - 16, OFF (0 - 15 1 - 16
00 OE	0000 aaaa	(reserve) <*>	
00 00		Patch Scale Tune for C	(0 - 127
00 OI	Oaaa aaaa	Patch Scale Tune for C#	-64 - +63 (0 - 127
00 OE	Oaaa aaaa	Patch Scale Tune for D	-64 - +63 (0 - 127
00 OF	Oaaa aaaa	Patch Scale Tune for D#	-64 - +63 (0 - 127
00 10	Oaaa aaaa	Patch Scale Tune for E	-64 - +63 (0 - 127
00 11	Oaaa aaaa	Patch Scale Tune for F	-64 - +63 (0 - 127
00 12	Oaaa aaaa	Patch Scale Tune for F#	-64 - +63 (0 - 127
00 13	Oaaa aaaa	Patch Scale Tune for G	-64 - +63 (0 - 127
00 14	Oaaa aaaa	Patch Scale Tune for G#	-64 - +63 (0 - 127
00 15	Oaaa aaaa	Patch Scale Tune for A	-64 - +63 (0 - 127
00 16	Oaaa aaaa	Patch Scale Tune for A#	-64 - +63 (0 - 127
00 17		Patch Scale Tune for B	-64 - +63 (0 - 127 -64 - +63
		System Control 1 Source OFF, CC01 - CC31	(0 - 97 CC33 - CC95
00 19	Oaaa aaaa	System Control 2 Source OFF, CC01 - CC31	
00 12	Oaaa aaaa	System Control 3 Source OFF, CC01 - CC31	
00 1E		System Control 4 Source OFF, CC01 - CC31	BEND, AFT
00 10		Receive Program Change	(0 - 1 OFF, ON
00 10	0000 000a	Receive Bank Select	(0 - 1 OFF, ON
00 00 00 1E	-+ Total Size		

* System Mastering

Offset Address		Description
00 00	0000 000a	Mastering Switch (0 - 1) OFF, ON
00 01 00 02 00 03	0aaa aaaa 0aaa aaaa 00aa aaaa	Low band Attack time (0 - 100) Low band Release time (0 - 100) Low band Threshold (0 - 36) -36, -35, -34, -33, -32, -31, -30, -29, -28, -27, -26, -25, -24, -23, -22, -21, -20, -19, -18, -17, -16, -15, -14, -13,

00 04	0000 aaaa	-12, -11, -10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0 [dB] Low band Ratio 1:1.0, 1:1.1, 1:1.2, 1:1.4, 1:1.2, 1:1.4, 1:1.8, 1:2.0, 1:2.5, 1:3.2, 1:4.0, 1:5.6, 1:8.0,
00 05	000a aaaa	1:16, 1:1MF (0 - 24) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
00 06 00 07 00 08	0aaa aaaa 0aaa aaaa 00aa aaaa	Mid band Attack time (0 - 100) Mid band Release time (0 - 100) Mid band Threshold (0 - 36, -35, -34, -33, -32, -31, -30, -29, -28, -27, -26, -25, -24, -23, -22, -21, -20, -19, -18, -17, -16, -15, -14, -13, -12, -11, -10, -9, -8, -7,
00 09	0000 aaaa	-6, -5, -4, -3, -2, -1, 0 [dB] (0 - 13) 1:1.0, 1:1.1, 1:1.2, 1:1.4, 1:1.6, 1:1.8, 1:2.0, 1:2.5, 1:3.2, 1:4.0, 1:5.6, 1:8.0, 1:2.5, 1:3.2, 1:4.0, 1:5.6, 1:8.0, 1:
00 OA	000a aaaa	1:16, 1:INF Mid band Level 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
00 0B 00 0C 00 0D	Oaaa aaaa Oaaa aaaa OOaa aaaa	High band Attack time High band Release time High band Threshold -36, -35, -34, -33, -32, -31, -30, -29, -28, -27, -26, -25, -24, -23, -22, -21, -20, -19, -18, -17, -16, -15, -14, -13, -12, -11, -10, -9, -8, -7,
00 OE	0000 aaaa	-6, -5, -4, -3, -2, -1, 0 [dB] High band Ratio
00 OF	000a aaaa	1:16, 1:INF High band Level 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 18, 19, 20, 21, 22, 19, 20, 21, 22, 21, 22, 21, 22, 21, 22, 21, 22, 21, 22, 21, 22, 22, 23, 24, 25, 24, 25, 25, 26, 26, 26, 26, 26, 26, 26, 27, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28
00 10	0000 0aaa	23, 24 [dB] (0 - 6) 200, 250, 315, 400, 500,
00 11	0000 0aaa	630, 800 [Hz] Split Freq High (0 - 6) 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz]
00 00 00 12	Total Size	

* System External Input

Off	set Address		Description	
	00 01 00 02 00 03	0aaa aaaa 0aaa aaaa 0000 aaaa 0000 00aa	External Dry Send Level External Chorus Send Level External Reverb Send Level External Output Assign External Output MFX Select	(0 - 127) (0 - 127) (0 - 127) (0 - 127) (0 - 1) MFX, DRY (0 - 2) MFX1, MFX2, MFX3
	00 05		Input Effect Type	(0 - 6)
#	00 06	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 1	
#	00 OA	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 2	(12768 - 52768) -20000 - +20000
#	00 OE	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 3	(12768 - 52768) -20000 - +20000
#	00 12	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 4	(12768 - 52768) -20000 - +20000
#	00 16	0000 aaaa 0000 bbbb		20000 - +20000

		0000 cccc 0000 dddd	Input Effect Parameter 5 (12768 - 52768) -20000 - +20000
#	00 1A	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 6 (12768 - 52768)
#	00 1E	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	-20000 - +20000 Input Effect Parameter 7 (12768 - 52768) -20000 - +20000
#	00 22	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 8 (12768 - 52768)
#	00 26	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	-20000 - +20000 Input Effect Parameter 9 (12768 - 52768) -20000 - +20000
#	00 2A	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	
#	00 2E	0000 dada 0000 bbbb 0000 cccc 0000 dddd	-20000 - +20000
#	00 32	0000 aaaa 0000 bbbb 0000 cccc	-20000 - +20000
#	00 36	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Input Effect Parameter 12 (12768 - 52768) -20000 - +20000
#	00 3A	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Input Effect Parameter 13 (12768 - 52768) -20000 - +20000
#	00 3E	0000 cccc 0000 dddd 0000 aaaa 0000 bbbb	Input Effect Parameter 14 (12768 - 52768) -20000 - +20000
#	00 42	0000 cccc 0000 dddd 0000 aaaa 0000 bbbb	Input Effect Parameter 15 (12768 - 52768) -20000 - +20000
#	00 46	0000 dddd 0000 dddd	Input Effect Parameter 16 (12768 - 52768) -20000 - +20000
		0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 17 (12768 - 52768) -20000 - +20000
#	00 4A	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 18 (12768 - 52768) -20000 - +20000
#	00 4E	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 19 (12768 - 52768) -20000 - +20000
#	00 52	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Input Effect Parameter 20 (12768 - 52768)
		 	-20000 - +20000
			USB Audio Assign (0 - 1) TO OUTPUT, TO INPUT FX
		0000 00aa	Input Assign (0 - 2) TO COM+OUT, TO COM, TO INPUT FX
	00 58	0000 000a	To Computer (0 - 1) MIX, INPUT FX
		0000 000a	MFX3 Location (0 - 1) TG, INPUT FX
00 00	00 5A	Total Size	

* Performance Common

Offset Address		Description	
			(20 107)
00 00	Oaaa aaaa	Performance Name 1 Performance Name 2	(32 - 127) 32 - 127 [ASCII] (32 - 127)
00 02	Oaaa aaaa	Performance Name 3	32 - 127 [ASCII] (32 - 127)
00 03	Oaaa aaaa	Performance Name 4	32 - 127 [ASCII] (32 - 127)
00 04	Oaaa aaaa	Performance Name 5	32 - 127 [ASCII] (32 - 127)
00 05	Oaaa aaaa	Performance Name 6	32 - 127 [ASCII] (32 - 127)
00 06	Oaaa aaaa	Performance Name 7	32 - 127 [ASCII] (32 - 127)
00 07	Oaaa aaaa	Performance Name 8	32 - 127 [ASCII] (32 - 127)
00 08	Oaaa aaaa	Performance Name 9	32 - 127 [ASCII] (32 - 127)
00 09	Oaaa aaaa	Performance Name 10	32 - 127 [ASCII] (32 - 127)
00 0A	Oaaa aaaa	Performance Name 11	32 - 127 [ASCII] (32 - 127)
00 OB	Oaaa aaaa	Performance Name 12	32 - 127 [ASCII] (32 - 127)
00 OC	00aa aaaa	Solo Part Select	(0 - 16) OFF, 1 - 16
00 0D	000a aaaa	MFX1 Control Channel	(0 - 16) 1 - 16, OFF
00 OE		(reserve) <*>	(1 - 0)
00 OF		(reserve) <*>	(1 - 0)
00 10	Oaaa aaaa	Voice Reserve 1	(0 - 64)
00 11	Oaaa aaaa	Voice Reserve 2	0 - 63, FULL (0 - 64)
00 12	Oaaa aaaa	Voice Reserve 3	0 - 63, FULL (0 - 64)
00 13	Oaaa aaaa	Voice Reserve 4	0 - 63, FULL (0 - 64)
00 14	Oaaa aaaa	Voice Reserve 5	0 - 63, FULL (0 - 64)
00 15	Oaaa aaaa	Voice Reserve 6	0 - 63, FULL (0 - 64)
00 16	Oaaa aaaa	Voice Reserve 7	0 - 63, FULL (0 - 64)
00 17	Oaaa aaaa	Voice Reserve 8	0 - 63, FULL (0 - 64)
00 18	Oaaa aaaa	Voice Reserve 9	0 - 63, FULL (0 - 64)
00 19	Oaaa aaaa	Voice Reserve 10	0 - 63, FULL (0 - 64) 0 - 63, FULL
00 1A	Oaaa aaaa	Voice Reserve 11	(0 - 64) 0 - 63, FULL
00 1B	Oaaa aaaa	Voice Reserve 12	(0 - 64) 0 - 63, FULL
00 1C	Oaaa aaaa	Voice Reserve 13	(0 - 64) 0 - 63, FULL
00 1D	Oaaa aaaa	Voice Reserve 14	(0 - 64) 0 - 63, FULL
00 1E	Oaaa aaaa	Voice Reserve 15	(0 - 64) 0 - 63, FULL
00 1F	Oaaa aaaa	Voice Reserve 16	(0 - 64) 0 - 63, FULL
00 20	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 21	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 22	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 23	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 24	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 25	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 26	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 27	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 28	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 29	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 2A	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 2B	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 2C	Oaaa aaaa	(reserve) <*>	(0 - 64)
00 2D	Oaaa aaaa	(reserve) <*>	(0 - 64)

00 2E 00 2F	Oaaa aaaa Oaaa aaaa	(reserve) <*>	(0 - 64) (0 - 64)
00 30 00 31 00 32 00 33 00 34	00aa aaaa 00aa aaaa 00aa aaaa 00aa aaaa	MFX1 Source MFX2 Source MFX3 Source Chorus Source Reverb Source	(0 - 16) PERFORM, 1 - 16 (0 - 16)
""	00aa aaaa 00aa aaaa 0000 aaaa	MFX2 Control Channel MFX3 Control Channel MFX Structure	(0 - 16) 1 - 16, OFF (0 - 16) 1 - 16, OFF (0 - 15) 1 - 16
00 00 00 38	Total Size		

* Performance Common MFX

Offset Address		Description
00 00 00 01 00 02 00 03 00 04	0aaa aaaa 0aaa aaaa 0aaa aaaa 0aaa aaaa 0000 00aa	MFX Type (0 - 78) MFX Dry Send Level (0 - 127) MFX Chorus Send Level (0 - 127) MFX Reverb Send Level (0 - 127) MFX Output Assign <*> A,,,
		MFX Control 1 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95,
00 06	Oaaa aaaa	BEND, AFT, SYS1 - SYS4 MFX Control 1 Sens (1 - 127) -63 - +63
00 07	Oaaa aaaa	MFX Control 2 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95,
00 08	Oaaa aaaa	BEND, AFT, SYS1 - SYS4 MFX Control 2 Sens (1 - 127) -63 - +63
00 09	Oaaa aaaa	MFX Control 3 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95,
00 0A	Oaaa aaaa	BEND, AFT, SYS1 - SYS4 MFX Control 3 Sens (1 - 127) -63 - +63
00 0B	Oaaa aaaa	MFX Control 4 Source (0 - 101)
		BEND, AFT, SYS1 - SYS4 MFX Control 4 Sens (1 - 127) -63 - +63
		MFX Control Assign 1 (0 - 16)
00 OE	000a aaaa	MFX Control Assign 2 0FF, 1 - 16 0FF, 1 -
00 OF		MFX CONTROL ASSIGN 3 (U - 16) OFF 1 - 16
00 10	000a aaaa	MFX Control Assign 4 (0 - 16) OFF, 1 - 16
# 00 11	0000 bbbb	MFX Parameter 1 (12768 - 52768) -20000 - +20000
# 00 15	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 2 (12768 - 52768) -20000 - +20000
# 00 19	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 3 (12768 - 52768)
# 00 1D	0000 bbbb 0000 cccc	-20000 - +20000 MFX Parameter 4 (12768 - 52768)
# 00 21	0000 bbbb 0000 cccc	-20000 - +20000 MFX Parameter 5 (12768 - 52768)
# 00 25	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	-20000 - +20000 MFX Parameter 6 (12768 - 52768)

		I	I	-20000 - +20000
#	00 29	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 7	(12768 - 52768) -20000 - +20000
#	00 2D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 8	(12768 - 52768)
#	00 31	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 9	-20000 - +20000 (12768 - 52768)
#	00 35	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 10	-20000 - +20000 (12768 - 52768)
#	00 39	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 11	-20000 - +20000 (12768 - 52768)
#	00 3D	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 12	-20000 - +20000 (12768 - 52768)
#	00 41	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 13	-20000 - +20000
#	00 45	0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768) -20000 - +20000
#	00 49	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 14	(12768 - 52768) -20000 - +20000
#	00 4D	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 15	(12768 - 52768) -20000 - +20000
#	00 51		MFX Parameter 16	(12768 - 52768) -20000 - +20000
#	00 55		MFX Parameter 17	(12768 - 52768) -20000 - +20000
#	00 59	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 18	(12768 - 52768) -20000 - +20000
#	00 5D		MFX Parameter 19	(12768 - 52768) -20000 - +20000
#	00 61		MFX Parameter 20	(12768 - 52768) -20000 - +20000
#	00 65	0000 dddd 0000 aaaa 0000 bbbb	MFX Parameter 21	(12768 - 52768) -20000 - +20000
#	00 69	0000 aaaa 0000 bbbb	MFX Parameter 22	(12768 - 52768) -20000 - +20000
#	00 6D	0000 aaaa 0000 bbbb	MFX Parameter 23	(12768 - 52768) -20000 - +20000
#	00 71	0000 cccc 0000 dddd 0000 aaaa 0000 bbbb	MFX Parameter 24	(12768 - 52768) -20000 - +20000
#	00 75	0000 cccc	MFX Parameter 25	(12768 - 52768) -20000 - +20000
	00 13	0000 bbbb 0000 cccc		

		0000 dddd	MFX Parameter 26	(12768 - 52768) -20000 - +20000
#	00 79	0000 aaaa 0000 bbbb 0000 cccc		
		0000 dddd	MFX Parameter 27	(12768 - 52768) -20000 - +20000
#	00 7D	0000 aaaa 0000 bbbb 0000 cccc		
		0000 dddd	MFX Parameter 28	(12768 - 52768) -20000 - +20000
#	01 01	0000 aaaa 0000 bbbb 0000 cccc		
		0000 dddd	MFX Parameter 29	(12768 - 52768) -20000 - +20000
#	01 05	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 30	(12768 - 52768)
	01 09	0000 aaaa	IIII Taramood 50	-20000 - +20000
"	01 05	0000 dada 0000 cccc	MFX Parameter 31	(12768 - 52768)
#	01 OD		THE EXECUTED ST	-20000 - +20000
		0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 32	(12768 - 52768)
		0000 dada	min rarameter J2	-20000 - +20000
00 00	01 11	Total Size		

* Performance Common Chorus

Offset Address		Description	
00 00 00 01 00 02	0000 aaaa 0aaa aaaa 0000 00aa	Chorus Type Chorus Level Chorus Output Assign <*>	(0 - 3) (0 - 127) A,,,
		Chorus Output Select	(0 - 2) MAIN, REV, MAIN+REV
# 00 04	0000 aaaa 0000 bbbb		(12768 - 52768) -20000 - +20000
# 00 08	0000 bbbb 0000 ccc	Chorus Parameter 2	(12768 - 52768) -20000 - +20000
# 00 0C	0000 bbbb 0000 cccc	Chorus Parameter 3	(12768 - 52768) -20000 - +20000
# 00 10	0000 bbbb 0000 cccc	Chorus Parameter 4	(12768 - 52768) -20000 - +20000
# 00 14	0000 bbbb 0000 cccc	Chorus Parameter 5	(12768 - 52768) -20000 - +20000
# 00 18	0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 6	(12768 - 52768) -20000 - +20000
# 00 1C	0000 bbbb 0000 cccc	Chorus Parameter 7	(12768 - 52768) -20000 - +20000
# 00 20	0000 bbbb 0000 cccc	Chorus Parameter 8	(12768 - 52768) -20000 - +20000
# 00 24	0000 bbbb	Chorus Parameter 9	(12768 - 52768) -20000 - +20000
# 00 28	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 10	(12768 - 52768)

#	00 2C	0000 aaaa 0000 bbbb		-20000 - +20000
		0000 cccc 0000 dddd	Chorus Parameter 11	(12768 - 52768) -20000 - +20000
#	00 30	0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768) -20000 - +20000
#	00 34	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 13	(12768 - 52768
#	00 38	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 14	-20000 - +20000 (12768 - 52768
#	00 3C	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 40	0000 aaaa 0000 bbbb	Chorus Parameter 15 Chorus Parameter 16	
#	00 44	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 48	0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768 -20000 - +20000
#	00 4C	0000 dddd 0000 aaaa 0000 bbbb	Chorus Parameter 18	(12768 - 52768 -20000 - +20000
		0000 cccc 0000 dddd	Chorus Parameter 19	(12768 - 52768 -20000 - +20000
			Chorus Parameter 20	(12768 - 52768 -20000 - +20000
		Total Size		

* Performance Common Reverb

Of:	fset Address		Description	
	00 01	Oaaa aaaa	Reverb Type Reverb Level Reverb Output Assign <*>	(0 - 5) (0 - 127) A,,
#	00 03	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 1	(12768 - 52768) -20000 - +20000
#	00 07	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 2	(12768 - 52768) -20000 - +20000
#	00 OB	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 3	(12768 - 52768) -20000 - +20000
#	00 OF	0000 bbbb 0000 cccc	Reverb Parameter 4	(12768 - 52768)
#	00 13	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 5	-20000 - +20000 (12768 - 52768)
#	00 17	0000 bbbb 0000 cccc	Reverb Parameter 6	-20000 - +20000 (12768 - 52768)
#	00 1B	0000 aaaa 0000 bbbb		-20000 - +20000

		0000 cccc 0000 dddd	Reverb Parameter 7	(12768 - 52768) -20000 - +20000
#	00 1F	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 8	(12768 - 52768) -20000 - +20000
#	00 23	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 9	(12768 - 52768)
#	00 27	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 10	-20000 - +20000 (12768 - 52768)
#	00 2B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 11	-20000 - +20000 (12768 - 52768)
#	00 2F	0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 12	-20000 - +20000 (12768 - 52768)
#	00 33	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 37	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 13	(12768 - 52768) -20000 - +20000
#	00 3B		Reverb Parameter 14	(12768 - 52768) -20000 - +20000
#	00 3F		Reverb Parameter 15	(12768 - 52768) -20000 - +20000
#	00 43	0000 cccc 0000 dddd 0000 aaaa	Reverb Parameter 16	(12768 - 52768) -20000 - +20000
#	00 47	0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 17	(12768 - 52768) -20000 - +20000
		0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 18	(12768 - 52768) -20000 - +20000
#	00 4B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 19	(12768 - 52768) -20000 - +20000
#	00 4F		Reverb Parameter 20	(12768 - 52768) -20000 - +20000
	00 53	Total Size		

* Performance MIDI

Offset Address		Description	
00 00	0000 000a	Receive Program Change	(0 - 1) OFF, ON
00 01	0000 000a	Receive Bank Select	(0 - 1) OFF, ON
00 02	0000 000a	Receive Bender	(0 - 1) OFF, ON
00 03	0000 000a	Receive Polyphonic Key Pressure	(0 - 1) OFF, ON
00 04	0000 000a	Receive Channel Pressure	(0 - 1) OFF, ON
00 05	0000 000a	Receive Modulation	(0 - 1) OFF, ON
00 06	0000 000a	Receive Volume	(0 - 1) OFF, ON
00 07	0000 000a	Receive Pan	(0 - 1) OFF, ON
00 08	0000 000a	Receive Expression	(0 - 1) OFF, ON
00 09	0000 000a	Receive Hold-1	(0 - 1) OFF, ON

00 0A	0000 000a	Phase Lock	(0 - 1)
00 OB	0000 0aaa	Velocity Curve Type	OFF, ON (0 - 4) OFF, 1 - 4
00 00 00 0C	Total Size		

* Performance Part

	Address		Description	
		+ 0000 aaaa	Receive Channel	(0 - 15)
	00 01		Receive Switch	1 - 16 (0 - 1)
				OFF, ON
	00 02	0000 0000	(reserve) <*>	(1 - 0)
	00 03		(reserve) <*>	(1 - 0)
	00 04			
	00 05	Oaaa aaaa	Patch Bank Select MSB (CC# 0) Patch Bank Select LSB (CC# 32) Patch Program Number (PC)	(0 - 127) (0 - 127)
		+	+	(0 - 127)
		Oaaa aaaa	Part Level (CC# 7) Part Pan (CC# 10)	(0 - 127)
	00 09	Oaaa aaaa	Part Coarse Tune (RPN# 2)	(16 - 112) -48 - +48
	00 OA	Oaaa aaaa	Part Fine Tune (RPN# 1)	(14 - 114) -50 - +50
	00 OB	0000 00aa	Part Mono/Poly (MONO ON/POLY ON)	(0 - 2) MONO, POLY, PATCH
	00 OC	0000 00aa	D . T	/0 01
	00 OD	000a aaaa	Part Pitch Bend Range (RPN# 0)	(0 - 25) 0 - 24, PATCH
	00 OE	0000 00aa	Part Portamento Switch (CC# 65)	(0 - 2) OFF, ON, PATCH
#	00 OF	0000 aaaa 0000 bbbb	 Part Portamento Time (CC# 5)	(0 - 128)
	00 11	Oaaa aaaa	Part Cutoff Offset (CC# 74)	0 - 127, PATCH (0 - 127)
	00 12		Part Resonance Offset (CC# 71)	-64 - +63
	00 13		Part Attack Offset (CC# 73)	-64 - +63
	00 14		Part Release Offset (CC# 72)	-64 - +63
		ļ +	 	
	00 15		Part Octave Shift	(61 - 67) -3 - +3
	00 16		Part Velocity Sens Offset	-63 - +63
	00 17		Keyboard Range Lower	(0 - 127) C-1 - UPPER
	00 18	Oaaa aaaa 	Keyboard Range Upper	(0 - 127) LOWER - G9
	00 19 00 1A	Oaaa aaaa	Keyboard Fade Width Lower	(0 - 127) (0 - 127)
	00 1B	0000 000a	Keyboard Range Upper Keyboard Fade Width Lower Keyboard Fade Width Upper Mute Switch	
	00 1c	+ Oaaa aaaa	Part Dry Send Level	
	00 1D	Oaaa aaaa	Part Chorus Send Level (CC# 93)	(0 - 127) (0 - 127)
	00 1E 00 1F	0000 aaaa	Part Dry Send Level Part Chorus Send Level (CC# 93) Part Reverb Send Level (CC# 91) Part Output Assign	(0 - 127) (0 - 13)
			MFX,	A,,,,
	00 20	0000 00aa	Part Output MFX Select	PATCH (0 - 2)
			 Part Decay Offset (CC# 75)	(0 - 127)
	00 21	Vaaa aaaa		-64 - +63
	00 22	Oaaa aaaa	Part Vibrato Rate (CC# 76)	(0 - 127)
	00 23	Oaaa aaaa	Part Vibrato Depth (CC# 77)	-64 - +63 (0 - 127) -64 - +63
	00 24	Oaaa aaaa	Part Vibrato Delay (CC# 78)	(0 - 127) -64 - +63
	00 25	Daaa aaaa	Part Scale Tune for C	(0 - 127)
	00 26	Oaaa aaaa	Part Scale Tune for C#	-64 - +63 (0 - 127)
	00 27	Oaaa aaaa	Part Scale Tune for D	-64 - +63 (0 - 127)
	00 28	Oaaa aaaa	Part Scale Tune for D#	-64 - +63 (0 - 127)
	00 29	Oaaa aaaa	Part Scale Tune for E	-64 - +63 (0 - 127)
				-64 - +63

00 2A	Oaaa aaaa	Part Scale Tune for F	(0 - 127)
00 2B	Oaaa aaaa	Part Scale Tune for F#	-64 - +63 (0 - 127)
00 2C	Oaaa aaaa	Part Scale Tune for G	-64 - +63 (0 - 127)
00 2D	Oaaa aaaa	Part Scale Tune for G#	-64 - +63 (0 - 127)
00 2E	Oaaa aaaa	Part Scale Tune for A	-64 - +63 (0 - 127)
00 2F	Oaaa aaaa	Part Scale Tune for A#	-64 - +63 (0 - 127)
00 30	Oaaa aaaa	Part Scale Tune for B	-64 - +63 (0 - 127)
00 30	vaaa adaa	rait State Tune 101 B	-64 - +63
00 00 00 31	Total Size		

* Performance Controller

Offset Address		Description
		-
00 00	0000 000a	
00 01	Oaaa aaaa	(reserve) <*>
00 02	Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*>
	0000 aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	
00 08	Oaaa aaaa	
00 09	Oaaa aaaa	(reserve) <*>
00 OA	Oaaa aaaa	(reserve) <*>
00 OB	Oaaa aaaa Oaaa aaaa	(reserve) <*>
00 OC	Oaaa aaaa	(reserve) <*>
	0000 000a	
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	
00 11	0000 000a 0aaa aaaa 0aaa aaaa	(reserve) <*>
00 12	Oaaa aaaa	(reserve) <*>
00 13	Oaaa aaaa	(reserve) <*>
00 14	0000 0aaa	(reserve) <*>
00 15	0000 000a	(reserve) <*>
00 16	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	0000 aaaa	(reserve) <*>
	0000 000a	
	Oaaa aaaa	
00 1B	Oaaa aaaa	(reserve) <*>
00 1C	Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*>
		(reserve) <->
	0000 000a	
00 1F	Oaaa aaaa	(reserve) <*>
		(reserve) <*>
		(reserve) <*>
	Oaaa aaaa	
	000a aaaa	
00 24	Oaaa aaaa	(reserve) <*>
00 25 00 26	Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*>
00 20	Oaaa aaaa	(reserve) <*>
00 27	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
00 2C	Oaaa aaaa	(reserve) <*>
00 2D	Oaaa aaaa	(reserve) <*>
00 2E	Oaaa aaaa	(reserve) <*>
00 2F	Oaaa aaaa	(reserve) <*>
00 30	Oaaa aaaa	(reserve) <*>
00 31	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa	
	Oaaa aaaa	
	Oaaa aaaa	(reserve) <*>
00 37	Oaaa aaaa	(reserve) <*>
00 38	Oaaa aaaa	(reserve) <*>
00 39	Oaaa aaaa	(reserve) <*>
00 3A 00 3B	Oaaa aaaa	(reserve) <*>
	Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*>
	Oaaa aaaa	(reserve) <*> (reserve) <*>
	Oaaa aaaa	(reserve) <*> (reserve) <*>
UU 25	Oaaa aaaa	(reserve) <*>
ሀሀ 315		(reserve) <*>
00 3F		
00 40	Oaaa aaaa Oaaa aaaa	(reserve) <*>
00 40 00 41	Oaaa aaaa	(reserve) <*>
00 40 00 41 00 42	Oaaa aaaa Oaaa aaaa	(reserve) <*>
00 40 00 41 00 42 00 43	Oaaa aaaa Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*>
00 40 00 41 00 42 00 43 00 44	Oaaa aaaa Oaaa aaaa	(reserve) <*> (reserve) <*> (reserve) <*>

	00 47	Oaaa aaaa	(reserve) <*>	
	00 48	Oaaa aaaa	(reserve) <*>	
	00 49	Oaaa aaaa	(reserve) <*>	
	00 4A	Oaaa aaaa	(reserve) <*>	
	00 4B	Oaaa aaaa	(reserve) <*>	
	00 4C	Oaaa aaaa	(reserve) <*>	
	00 4D	Oaaa aaaa	(reserve) <*>	
	00 4E	Oaaa aaaa	(reserve) <*>	
	00 4F	Oaaa aaaa	(reserve) <*>	
	00 50	Oaaa aaaa	(reserve) <*>	
	00 51	Oaaa aaaa	(reserve) <*>	
	00 52	Oaaa aaaa	(reserve) <*>	
	00 53	Oaaa aaaa	(reserve) <*>	
	# 00 54	0000 aaaa		
	π 00 34	0000 aaaa	Recommended Tempo	(20 - 250)
	00 56	0000 000a	(reserve) <*>	
	00 57	0000 00aa	(reserve) <*>	
	00 00 00 58	Total Size		
÷				

* Patch Common

Offset Address		Description	
00 00	Oaaa aaaa	Patch Name 1	(32 - 127)
00 01	Oaaa aaaa	Patch Name 2	32 - 127 [ASCII] (32 - 127)
00 02	Oaaa aaaa	Patch Name 3	32 - 127 [ASCII] (32 - 127) 32 - 127 [ASCII]
00 03	Oaaa aaaa	Patch Name 4	32 - 127 [ASCII] (32 - 127) 32 - 127 [ASCII]
00 04	Oaaa aaaa	Patch Name 5	(32 - 127) 32 - 127 [ASCII]
00 05	Oaaa aaaa	Patch Name 6	(32 - 127) 32 - 127 [ASCII]
00 06	Oaaa aaaa	Patch Name 7	(32 - 127) 32 - 127 [ASCII]
00 07	Oaaa aaaa	Patch Name 8	(32 - 127) 32 - 127 [ASCII]
00 08	Oaaa aaaa	Patch Name 9	(32 - 127) 32 - 127 [ASCII]
00 09	Oaaa aaaa	Patch Name 10	(32 - 127) 32 - 127 [ASCII]
00 0A	Oaaa aaaa	Patch Name 11	(32 - 127) 32 - 127 [ASCII]
00 OB		Patch Name 12	(32 - 127) 32 - 127 [ASCII]
00 OC	Oaaa aaaa	Patch Category	(0 - 127)
	0000 000a		
00 OE 00 OF		Patch Level Patch Pan	(0 - 127) (0 - 127) L64 - 63R
00 10	0000 000a	Patch Priority	L04 - 03R (0 - 1) LAST, LOUDEST
00 11	Oaaa aaaa	Patch Coarse Tune	(16 - 112) -48 - +48
00 12	Oaaa aaaa	Patch Fine Tune	(14 - 114) -50 - +50
00 13	0000 0aaa	Octave Shift	(61 - 67) -3 - +3
00 14	0000 00aa	Stretch Tune Depth	(0 - 3) OFF, 1 - 3
00 15 00 16	0aaa aaaa 0000 000a	Analog Feel Mono/Poly	(0 - 127) (0 - 1)
00 17	0000 000a	Legato Switch	MONO, POLY (0 - 1) OFF, ON
00 18	0000 000a	Legato Retrigger	(0 - 1) OFF, ON
00 19	0000 000a	Portamento Switch	(0 - 1) OFF, ON
00 1A	0000 000a	Portamento Mode	(0 - 1) NORMAL, LEGATO
00 1B	0000 000a	Portamento Type	(0 - 1) RATE, TIME
00 1C	0000 000a	Portamento Start	(0 - 1) PITCH, NOTE
00 1D 00 1E # 00 1F	0aaa aaaa 0000 000a 0000 aaaa	Portamento Time (reserve)	(0 - 127)
00 21	0000 dada 0000 bbbb 0000 000a	(reserve) (reserve)	
00 22	Oaaa aaaa	Cutoff Offset	(1 - 127)
00 23	Oaaa aaaa	Resonance Offset	-63 - +63 (1 - 127)
00 24	Oaaa aaaa	Attack Offset	-63 - +63 (1 - 127) -63 - +63
00 25	Oaaa aaaa	Release Offset	-63 - +63 (1 - 127)

I	l	-63 - +	3	I	TMT, FXM, MFX1, MFX2, MFX3, MFX4,
00 26	Oaaa aaaa	Velocity Sens Offset (1 - 1 - 63 - +	a,	Oaaa aaaa	TIME <*> Matrix Control 2 Sens 2 (1 - 127) -63 - +63
00 27	0000 aaaa	Patch Output Assign (0 - MFX, A,,, - 1, 2,,,,,	-, -,	00aa aaaa	Matrix Control 2 Destination 3 (0 - 34) OFF, PCH, CUT, RES, LEV, PAN, DRY, CHO, REV, PIT-LFO1, PIT-LFO2, TVF-LFO1, TVF-LFO2,
00 28		+			TVA-LFO1, TVA-LFO2, PAN-LFO1, PAN-LFO2, LFO1-RATE, LFO2-RATE,
00 29	00aa aaaa	OFF, Pitch Bend Range Up (0 -	8)		PIT-ATK, PIT-DCY, PIT-REL, TVF-ATK, TVF-DCY, TVF-REL,
00 2A 00 2B	+	Pitch Bend Range Down			TVA-ATK, TVA-DCY, TVA-REL, TMT, FXM, MFX1, MFX2, MFX3, MFX4, TIME <*>
00 25	Vaaa aaaa	OFF, CC01 - CC31, CC33 - CC BEND, AFT, SYS1 - SYS4, VELOCI	5, 00 3A	Oaaa aaaa	Matrix Control 2 Sens 3 (1 - 127) -63 - +63
00 2C	00	KEYFOLLOW, TEMPO, LFO1, LF PIT-ENV, TVF-ENV, TVA-E Matrix Control 1 Destination 1 (0 -	∨	00aa aaaa	Matrix Control 2 Destination 4 (0 - 34) OFF, PCH, CUT, RES, LEV, PAN,
00 20	UVda adaa	OFF, PCH, CUT, RES, LEV, F DRY, CHO, REV, PIT-LE	N,		DRY, CHO, REV, PIT-LF01, PIT-LF02, TVF-LF01, TVF-LF02, TVA-LF01, TVA-LF02, PAN-LF01,
		PIT-LF02, TVF-LF01, TVF-LF TVA-LF01, TVA-LF02, PAN-LF	1,		PAN-LF02, LF01-RATE, LF02-RATE, PIT-ATK, PIT-DCY, PIT-REL,
		PAN-LFO2, LFO1-RATE, LFO2-RA PIT-ATK, PIT-DCY, PIT-F TVF-ATK, TVF-DCY, TVF-F	L,		TVF-ATK, TVF-DCY, TVF-REL, TVA-ATK, TVA-DCY, TVA-REL, TMT, FXM, MFX1, MFX2, MFX3, MFX4,
		TVA-ATK, TVA-DCY, TVA-F TMT, FXM, MFX1, MFX2, MFX3, MF	L, 4, 00 3C		TIME <*> Matrix Control 2 Sens 4 (1 - 127)
00 2D	Oaaa aaaa	Matrix Control 1 Sens 1 (1 - 1	7)		-63 - +63 +
00 2E	00aa aaaa	-63 - + Matrix Control 1 Destination 2 (0 - OFF, PCH, CUT, RES, LEV, F	N,		OFF, CC01 - CC31, CC33 - CC95, BEND, AFT, SYS1 - SYS4, VELOCITY,
		DRY, CHO, REV, PIT-LF PIT-LFO2, TVF-LFO1, TVF-LF TVA-LFO1, TVA-LFO2, PAN-LF	2,	OOaa aaaa	KEYFOLLOW, TEMPO, LF01, LF02, PIT-ENV, TVF-ENV, TVA-ENV Matrix Control 3 Destination 1 (0 - 34)
		PAN-LF02, LF01-RATE, LF02-RA PIT-ATK, PIT-DCY, PIT-F	E, L,		OFF, PCH, CUT, RES, LEV, PAN, DRY, CHO, REV, PIT-LF01,
		TVF-ATK, TVF-DCY, TVF-F TVA-ATK, TVA-DCY, TVA-F TMT, FXM, MFX1, MFX2, MFX3, MF	L,		PIT-LF02, TVF-LF01, TVF-LF02, TVA-LF01, TVA-LF02, PAN-LF01, PAN-LF02, LF01-RATE, LF02-RATE,
00 2F	Oaaa aaaa	Matrix Control 1 Sens 2 (1 - 1	>		PIT-ATK, PIT-DCY, PIT-REL, TVF-ATK, TVF-DCY, TVF-REL,
00 30	00aa aaaa	-63 - + Matrix Control 1 Destination 3 (0 - OFF, PCH, CUT, RES, LEV, F	4)		TVA-ATK, TVA-DCY, TVA-REL, TMT, FXM, MFX1, MFX2, MFX3, MFX4, TIME <*>
		DRY, CHO, REV, PIT-LF PIT-LF02, TVF-LF01, TVF-LF	1, 00 3F 2, 00 3F	Oaaa aaaa	Matrix Control 3 Sens 1 (1 - 127) -63 - +63
		TVA-LF01, TVA-LF02, PAN-LF PAN-LF02, LF01-RATE, LF02-RA PIT-ATK, PIT-DCY, PIT-F	E,	OOaa aaaa	Matrix Control 3 Destination 2 (0 - 34) OFF, PCH, CUT, RES, LEV, PAN, DRY, CHO, REV, PIT-LF01,
		TVF-ATK, TVF-DCY, TVF-F TVA-ATK, TVA-DCY, TVA-F	L,		PIT-LF02, TVF-LF01, TVF-LF02, TVA-LF01, TVA-LF01, TVA-LF01,
00 31	Oaaa aaaa	TMT, FXM, MFX1, MFX2, MFX3, MF TIME < Matrix Control 1 Sens 3 (1 - 1	>		PAN-LFO2, LFO1-RATE, LFO2-RATE, PIT-ATK, PIT-DCY, PIT-REL, TVF-ATK, TVF-DCY, TVF-REL,
00 31	00aa aaaa	Matrix Control 1 Sens 3	3 4)		TVA-ATK, TVA-DCY, TVA-REL, TMT, FXM, MFX1, MFX2, MFX3, MFX4,
		OFF, PCH, CUT, RES, LEV, F DRY, CHO, REV, PIT-LE	1, 00 41	Daaa aaaa	TIME <*> Matrix Control 3 Sens 2 (1 - 127)
		PIT-LFO2, TVF-LF01, TVF-LF TVA-LF01, TVA-LF02, PAN-LF PAN-LF02, LF01-RATE, LF02-RA	1, 00 42	00aa aaaa	-63 - +63 Matrix Control 3 Destination 3 (0 - 34) OFF, PCH, CUT, RES, LEV, PAN,
		PIT-ATK, PIT-DCY, PIT-F TVF-ATK, TVF-DCY, TVF-F	L, L,		DRY, CHO, REV, PIT-LF01, PIT-LF02, TVF-LF01, TVF-LF02,
		TVA-ATK, TVA-DCY, TVA-F TMT, FXM, MFX1, MFX2, MFX3, MF	4,		TVA-LF01, TVA-LF02, PAN-LF01, PAN-LF02, LF01-RATE, LF02-RATE, PIT-ATK, PIT-DCY, PIT-REL,
00 33		Matrix Control 1 Sens 4 (1 - 1 - 63 - +	3		TVF-ATK, TVF-DCY, TVF-REL, TVA-ATK, TVA-DCY, TVA-REL,
00 34		Matrix Control 2 Source	9)	Oaaa aaaa	TMT, FXM, MFX1, MFX2, MFX3, MFX4,
		BEND, AFT, SYS1 - SYS4, VELOCI KEYFOLLOW, TEMPO, LF01, LF	Y, 00 44	00aa aaaa	-63 - +63 Matrix Control 3 Destination 4 (0 - 34)
00 35	00aa aaaa	PIT-ENV, TVF-ENV, TVA-F Matrix Control 2 Destination 1 (0 - OFF, PCH, CUT, RES, LEV, F	4)		OFF, PCH, CUT, RES, LEV, PAN, DRY, CHO, REV, PIT-LF01, PIT-LF02, TVF-LF01, TVF-LF02,
		DRY, CHO, REV, PIT-LF PIT-LF02, TVF-LF01, TVF-LF	1, 2,		TVA-LF01, TVA-LF02, PAN-LF01, PAN-LF02, LF01-RATE, LF02-RATE,
		TVA-LF01, TVA-LF02, PAN-LF PAN-LF02, LF01-RATE, LF02-RA PIT-ATK, PIT-DCY, PIT-F	E,		PIT-ATK, PIT-DCY, PIT-REL, TVF-ATK, TVF-DCY, TVF-REL, TVA-ATK, TVA-DCY, TVA-REL,
		TVF-ATK, TVF-DCY, TVF-F TVA-ATK, TVA-DCY, TVA-F	L, L,		TMT, FXM, MFX1, MFX2, MFX3, MFX4, TIME <*>
00 36	Oaaa aaaa	TMT, FXM, MFX1, MFX2, MFX3, MF TIME < Matrix Control 2 Sens 1 (1 - 1)	>		Matrix Control 3 Sens 4 (1 - 127) -63 - +63
00 37	00aa aaaa	Matrix Control 2 Destination 2 (0 -	3 4) 00 46		Matrix Control 4 Source (0 - 109) OFF, CC01 - CC31, CC33 - CC95,
		OFF, PCH, CUT, RES, LEV, F DRY, CHO, REV, PIT-LF PIT-LFO2, TVF-LF01, TVF-LF	1,		BEND, AFT, SYS1 - SYS4, VELOCITY, KEYFOLLOW, TEMPO, LF01, LF02, PIT-ENV, TVF-ENV, TVA-ENV
		TVA-LFO1, TVF-LFO1, TVF-LF TVA-LFO1, TVA-LFO2, PAN-LF PAN-LFO2, LFO1-RATE, LFO2-RA	1, 00 47	00aa aaaa	Matrix Control 4 Destination 1 (0 - 34) OFF, PCH, CUT, RES, LEV, PAN,
		PIT-ATK, PIT-DCY, PIT-F TVF-ATK, TVF-DCY, TVF-F	L,		DRY, CHO, REV, PIT-LF01, PIT-LF02, TVF-LF01, TVF-LF02,
I	I	TVA-ATK, TVA-DCY, TVA-F	<u>", [</u>	I	TVA-LF01, TVA-LF02, PAN-LF01,

(12768 - 52768) -20000 - +20000

(12768 - 52768) -20000 - +20000

(12768 - 52768) -20000 - +20000

(12768 - 52768) -20000 - +20000

0000 cccc 0000 dddd

0000 aaaa 0000 bbbb 0000 cccc 0000 dddd

0000 aaaa 0000 bbbb 0000 cccc 0000 dddd

00 15

00 1D

MFX Parameter 1

MFX Parameter 2

MFX Parameter 3

0000 aaaa 0000 bbbb 0000 cccc 0000 dddd MFX Parameter 4

		TVF-ATK, TVF-DCY, TV TVA-ATK, TVA-DCY, TV	
		TMT, FXM, MFX1, MFX2, MFX3, TIM	MFX4, E <*>
00 48	Oaaa aaaa		- 127) - +63
00 49	00aa aaaa	Matrix Control 4 Destination 2 (0 OFF, PCH, CUT, RES, LEV DRY, CHO, REV, PIT PIT-LFO2, TVF-LFO1, TVF TVA-LFO1, TVA-LFO2, PAN PAN-LFO2, LFO1-RATE, LFO2 PIT-ATK, PIT-DCY, PI TVF-ATK, TVF-DCY, TV TVA-ATK, TVA-DCY, TV TMT, FXM, MEXI, MEXZ, MEXZ,	- 34) , PAN, -LF01, -LF02, -LF01, -RATE, T-REL, F-REL, A-REL,
00 4A	Oaaa aaaa	Matrix Control 4 Sens 2 (1	- 127)
00 4B	OOaa aaaa		- +63 - 34)
		DRY, CHO, REV, PIT PIT-LF02, TVF-LF01, TVF TVA-LF01, TVA-LH02, PAN PAN-LF02, LF01-RATE, LF02 PIT-ATK, PIT-DCY, PI TVF-ATK, TVA-DCY, TV TVA-ATK, TVA-DCY, TV TWT, FXM, MFX1, MFX2, MFX3, TIM	-LF01, -LF02, -LF01, -RATE, T-REL, F-REL, A-REL, MFX4, E <*>
00 4C	Oaaa aaaa		- 127) - +63
00 4D	00aa aaaa	Matrix Control 4 Destination 4 (0 OFF, PCH, CUT, RES, LEV DRY, CHO, REV, PIT PIT-PLOZ, TVF-LFO1, TVF TVA-LFO1, TVA-LFO2, PAN PAN-LFO2, LFO1-RATE, LFO2 PIT-ATK, TVF-DCY, TV TVF-ATK, TVF-DCY, TV TVF-ATK, TVA-DCY, TV TMT, FXM, MEX1, MEX2, MEX3,	- 34) , PAN, -LF01, -LF02, -LF01, -RATE, T-REL, F-REL, A-REL, MFX4,
		Matrix Control 4 Sens 4 (1	E <*> - 127) - +63
00 4F	0000 000a		0 - 1) F ON
00 00 00 50	Total Size		

* Patch Common MFX

Offset Address		Description
00 01 00 02 00 03 00 04	Oaaa aaaa Oaaa aaaa Oaaa aaaa OOOO OOaa	MFX Type (0 - 78) MFX Dry Send Level (0 - 127) MFX Chorus Send Level (0 - 127) MFX Chorus Send Level (0 - 127) MFX Output Assign <*>
		MFX Control 1 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95, BEND, AFF, SYS1 - SYS4
00 06	Oaaa aaaa	MFX Control 1 Sens (1 - 127) -63 - +63
00 07	Oaaa aaaa	MFX Control 2 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95, BEND, AFT, SYS1 - SYS4
00 08	Oaaa aaaa	MFX Control 2 Sens (1 - 127) -63 - +63
00 09	Oaaa aaaa	MFX Control 3 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95, BEND, AFT, SYS1 - SYS4
A0 00	Oaaa aaaa	MFX Control 3 Sens (1 - 127) -63 - +63
00 OB	Oaaa aaaa	MFX Control 4 Source (0 - 101) OFF, CC01 - CC31, CC33 - CC95, BEND, AFF, SYS1 - SYS4
00 OC	Oaaa aaaa	MFX Control 4 Sens (1 - 127) -63 - +63
00 0D	000a aaaa	MFX Control Assign 1 (0 - 16) OFF, 1 - 16
00 OE	000a aaaa	MFX Control Assign 2 (0 - 16) OFF, 1 - 16
00 OF	000a aaaa	MFX Control Assign 3 (0 - 16) OFF, 1 - 16
00 10	000a aaaa	MFX Control Assign 4 (0 - 16)
	0000 aaaa 0000 bbbb	OFF, 1 - 16

				-20000 - +20000
#	00 21	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 5	(12768 - 52768) -20000 - +20000
#	00 25	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 6	-20000 - +20000 (12768 - 52768)
#	00 29	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 7	-20000 - +20000 (12768 - 52768)
#	00 2D	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 8	-20000 - +20000 (12768 - 52768) -20000 - +20000
#	00 31	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 9	(12768 - 52768)
ŧ	00 35	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 10	-20000 - +20000 (12768 - 52768)
#	00 39	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 11	-20000 - +20000
#	00 3D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 12	(12768 - 52768) -20000 - +20000
#	00 41	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 13	(12768 - 52768) -20000 - +20000 (12768 - 52768)
#	00 45	0000 dada 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 14	-20000 - +20000 (12768 - 52768)
#	00 49	0000 dada 0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 15	-20000 - +20000 (12768 - 52768)
#	00 4D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 16	-20000 - +20000 (12768 - 52768)
#	00 51	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 17	-20000 - +20000 (12768 - 52768)
#	00 55	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 18	-20000 - +20000 (12768 - 52768)
#	00 59	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 19	-20000 - +20000 (12768 - 52768)
#	00 5D	0000 dada 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 20	-20000 - +20000 (12768 - 52768)
#	00 61	0000 aaaa		-20000 - +20000

	0000 bbbb 0000 cccc 0000 dddd		(12768 - 52768) -20000 - +20000
# 00	65 0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		-20000 - +20000 (12768 - 52768)
# 00	69 0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000 (12768 - 52768)
# 00	6D 0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
# 00	71 0000 aaaa 0000 bbbb		(12768 - 52768) -20000 - +20000
# 00	75 0000 aaaa	MFX Parameter 25	(12768 - 52768) -20000 - +20000
# 00	0000 bbbb 0000 cccc 0000 dddd 79 0000 aaaa	MFX Parameter 26	(12768 - 52768) -20000 - +20000
# 00	0000 bbbb		(12768 - 52768) -20000 - +20000
# 00	7D 0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		(12768 - 52768)
# 01	01 0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
# 01	0000 dddd 05 0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768) -20000 - +20000
# 01	0000 dddd	MFX Parameter 30	(12768 - 52768) -20000 - +20000
# 01	0000 cccc	MFX Parameter 31	(12768 - 52768) -20000 - +20000
	0000 bbbb 0000 cccc 0000 dddd		(12768 - 52768) -20000 - +20000
00 00 01	11 Total Siz	 9 	

* Patch Common Chorus

0:	ffset Address		Description	
	00 01 00 02	0000 aaaa 0aaa aaaa 0000 00aa	Chorus Output Assign <*> Chorus Output Select	(0 - 3) (0 - 127) A,, (0 - 2) MAIN, REV, MAIN+REV
#	00 04	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 1	(12768 - 52768) -20000 - +20000
#	00 08	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 2	(12768 - 52768) -20000 - +20000
#	00 OC	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 3	(12768 - 52768) -20000 - +20000
#	00 10	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 4	(12768 - 52768) -20000 - +20000
Ŧ	00 14	0000 aaaa 0000 bbbb		

		0000 cccc 0000 dddd	Chorus Parameter 5	(12768 - 52768) -20000 - +20000
#	00 18	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 6	
#	00 1C	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 7	(12768 - 52768) -20000 - +20000
#	00 20	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 8	(12768 - 52768) -20000 - +20000
#	00 24	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 9	(12768 - 52768) -20000 - +20000
#	00 28	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 10	(12768 - 52768)
#	00 2C	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 11	-20000 - +20000 (12768 - 52768)
#	00 30	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 12	-20000 - +20000 (12768 - 52768)
#	00 34	0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 13	-20000 - +20000 (12768 - 52768)
#	00 38	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 14	-20000 - +20000 (12768 - 52768)
#	00 3C	0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 15	-20000 - +20000 (12768 - 52768)
#	00 40	0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 16	-20000 - +20000
#	00 44	0000 aaaa 0000 bbbb	Chorus Parameter 17	(12768 - 52768; -20000 - +20000 (12768 - 52768;
#	00 48	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000 (12768 - 52768)
#	00 4C	0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 18	-20000 - +20000
#	00 50	0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 19	(12768 - 52768) -20000 - +20000
		0000 dddd	Chorus Parameter 20	(12768 - 52768) -20000 - +20000

* Patch Common Reverb

Offset Address		Description	
00 00 00 01 00 02		Reverb Type Reverb Level Reverb Output Assign <*>	(0 - 5) (0 - 127) A,,,
# 00 03	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 1	(12768 - 52768) -20000 - +20000

#	00 07	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 2	(12768 - 52768)
#	00 OB	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 3	-20000 - +20000 (12768 - 52768)
Ŧ	00 OF	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 4	-20000 - +20000 (12768 - 52768)
Ħ	00 13	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 5	-20000 - +20000 (12768 - 52768)
Ħ	00 17	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 6	-20000 - +20000 (12768 - 52768)
Ħ	00 1B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 7	-20000 - +20000 (12768 - 52768)
Ħ	00 1F	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 8	-20000 - +20000 (12768 - 52768)
#	00 23	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 9	-20000 - +20000 (12768 - 52768)
#	00 27	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 10	-20000 - +20000 (12768 - 52768)
#	00 2B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 11	-20000 - +20000 (12768 - 52768)
#	00 2F	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 12	-20000 - +20000 (12768 - 52768)
#	00 33	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 13	-20000 - +20000 (12768 - 52768)
#	00 37	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 14	-20000 - +20000 (12768 - 52768)
#	00 3B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 15	-20000 - +20000
#	00 3F	0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768) -20000 - +20000 (12768 - 52768)
#	00 43	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 16	-20000 - +20000
Ŧ	00 47	0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 17	(12768 - 52768) -20000 - +20000
#	00 4B	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc		(12768 - 52768) -20000 - +20000
Ŧ	00 4F	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 19	(12768 - 52768) -20000 - +20000
			Reverb Parameter 20	(12768 - 52768) -20000 - +20000

* Patch TMT (Tone Mix Table)

Offset Address		Description	
00 00		Structure Type 1 & 2	(0 - 9
00 01	0000 00aa	Booster 1 & 2	1 - 10
00 02	0000 aaaa	Booster 1 & 2 0, +6, Structure Type 3 & 4	(0 - 9
00 03	0000 00aa	Booster 3 & 4 0, +6,	(0 - 3 +12, +18 [dB]
		OFF, ON,	(0 - 3 RANDOM, CYCLE
00 05	0000 000a	TMT1 Tone Switch	(0 - 1
00 06	Oaaa aaaa	TMT1 Keyboard Range Lower	OFF, Of (0 - 127
00 07	Oaaa aaaa	TMT1 Keyboard Range Upper	C-1 - UPPER (0 - 12)
00 08 00 09 00 0A	Oaaa aaaa Oaaa aaaa Oaaa aaaa	TWT1 Keyboard Range Upper TWT1 Keyboard Fade Width Lower TWT1 Keyboard Fade Width Upper TWT1 Velocity Range Lower	LOWER - GS (0 - 127 (0 - 127 (1 - 127
00 OB	Oaaa aaaa	TMT1 Velocity Range Upper	1 - UPPER (1 - 127
00 OC 00 OD	Oaaa aaaa Oaaa aaaa	TMT1 Velocity Range Upper TMT1 Velocity Fade Width Lower TMT1 Velocity Fade Width Upper	LOWER - 127 (0 - 127 (0 - 127
00 OE		TMT2 Tone Switch	(0 - 1
00 OF	Oaaa aaaa	TMT2 Keyboard Range Lower	OFF, ON (0 - 12)
00 10	Oaaa aaaa	TMT2 Keyboard Range Upper	C-1 - UPPER (0 - 127
00 11 00 12 00 13	Oaaa aaaa Oaaa aaaa Oaaa aaaa	TMT2 Keyboard Fade Width Lower TMT2 Keyboard Fade Width Upper TMT2 Velocity Range Lower TMT2 Velocity Range Upper	LOWER - G9 (0 - 127 (0 - 127 (1 - 127
00 14	Oaaa aaaa	TMT2 Velocity Range Upper	1 - UPPER (1 - 12)
00 15 00 16	Oaaa aaaa Oaaa aaaa	TMT2 Velocity Range Upper TMT2 Velocity Fade Width Lower TMT2 Velocity Fade Width Upper	LOWER - 127 (0 - 127 (0 - 127
00 17	0000 000a	TMT3 Tone Switch	(() -
00 18		TMT3 Keyboard Range Lower	OFF, ON (0 - 12)
00 19			C-1 - UPPER (0 - 127
00 1A 00 1B	Oaaa aaaa Oaaa aaaa	TMT3 Keyboard Range Upper TMT3 Keyboard Fade Width Lower TMT3 Keyboard Fade Width Upper TMT3 Velocity Range Lower TMT3 Velocity Range Upper	LOWER - GS (0 - 127 (0 - 127
00 1C	Oaaa aaaa	TMT3 Velocity Range Lower	(1 - 127 1 - UPPER
00 1D	Oaaa aaaa	TMT3 Velocity Range Upper	(1 - 127 LOWER - 127
00 1E 00 1F	Oaaa aaaa Oaaa aaaa	TMT3 Velocity Fade Width Lower TMT3 Velocity Fade Width Upper	(0 - 127 (0 - 127
		TMT4 Tone Switch	(0 - 1
00 21	Oaaa aaaa	TMT4 Keyboard Range Lower	OFF, ON (0 - 12)
00 22	Oaaa aaaa	TMT4 Keyboard Range Upper	C-1 - UPPER
00 23	Oaaa aaaa	TMT4 Keyboard Fade Width Lower	LOWER - GS (0 - 12)
00 24 00 25	Oaaa aaaa Oaaa aaaa	TWT4 Keyboard Fade Width Lower TWT4 Keyboard Fade Width Upper TWT4 Velocity Range Lower	(0 - 127 (1 - 127
00 26	Oaaa aaaa	TMT4 Velocity Range Upper	1 - UPPER (1 - 125 LOWER - 125
00 27 00 28	Oaaa aaaa Oaaa aaaa	TMT4 Velocity Range Upper TMT4 Velocity Fade Width Lower TMT4 Velocity Fade Width Upper	(0 - 12) (0 - 12)
	Total Size		

* Patch Tone

Offset Address		Description	
00 00 00 01	Oaaa aaaa Oaaa aaaa	Tone Level Tone Coarse Tune	(0 - 127) (16 - 112) -48 - +48
00 02	Oaaa aaaa	Tone Fine Tune	(14 - 114) -50 - +50
00 03	000a aaaa	Tone Random Pitch	Depth (0 - 30) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200
00 04	Oaaa aaaa	Tone Pan	(0 - 127)

1				L64 - 63R		00 3B	Oaaa aaaa	Pitch Env Velocity Sens	(1 - 127)
	00 05	000a aaaa	Tone Pan Keyfollow	(54 - 74) -100 - +100		00 3C		Pitch Env Time 1 Velocity Sens	-63 - +63
	00 06 00 07	00aa aaaa 0aaa aaaa	Tone Random Pan Depth	(0 - 63)		00 3D			
			Tone Pan Keyfollow Tone Random Pan Depth Tone Alternate Pan Depth	L63 - 63R			Vaaa aaaa	Pitch Env Time 4 Velocity Sens Pitch Env Time Keyfollow Pitch Env Time 1 Pitch Env Time 2 Pitch Env Time 3 Pitch Env Time 4 Pitch Env Level 0 Pitch Env Level 1 Pitch Env Level 2	-63 - +63
	00 08	0000 000a	Tone Env mode	NO-SUS, SUSTAIN		00 3E	000a aaaa	Pitch Env Time Keyfollow	(54 - 74) -100 - +100
	00 09	0000 00aa	Tone Delay Mode NORMAL, HOL	(0 - 3)		00 3F 00 40	Oaaa aaaa Oaaa aaaa	Pitch Env Time 1 Pitch Env Time 2	(0 - 127) (0 - 127)
#	00 OA	0000 aaaa		KEY-OFF-DECAY		00 41 00 42	Oaaa aaaa Oaaa aaaa	Pitch Env Time 3	(0 - 127)
"	00 UA	0000 adda	Tone Delay Time 0 - 1	(0 - 149)		00 43	Daaa aaaa	Pitch Env Level 0	(1 - 127)
		 	V = 1	.27, MUSICAL-NUIES		00 44	Oaaa aaaa	Pitch Env Level 1	(1 - 127)
	00 OD	Oaaa aaaa Oaaa aaaa	Tone Dry Send Level Tone Chorus Send Level (MFX) Tone Reverb Send Level (MFX) Tone Chorus Send Level (non MFX) Tone Reverb Send Level (non MFX) Tone Output Assign	(0 - 127)		00 45	Oaaa aaaa		
	00 OE 00 OF	Oaaa aaaa Oaaa aaaa	Tone Reverb Send Level (MFX) Tone Chorus Send Level (non MFX)	(0 - 127) (0 - 127)		00 46	Oaaa aaaa	Pitch Env Level 3	-63 - +63 (1 - 127)
	00 10 00 11	0aaa aaaa 0000 aaaa	Tone Reverb Send Level (non MFX) Tone Output Assign	(0 - 127) (0 - 12)		00 47	Oaaa aaaa	Pitch Env Level 3	-63 - +63 (1 - 127)
			MFX, 1, 2,,, -	A,,,,			 -+	<u> </u>	-63 - +63
	00 12	 0000 000a	Mana Bagairra Bandar	(0 1)		00 48	0000 0aaa	TVF Filter Type	1100 DIG 1000
			Tone Receive Expression	OFF, ON (0 - 1)		00.40		TVF Cutoff Frequency TVF Cutoff Keyfollow TVF Cutoff Velocity Curve	LPF3
	00 13	0000 000a	Tone Receive Expression	OFF, ON		00 49 00 4A	Oaaa aaaa OOaa aaaa	TVF Cutoff Keyfollow	(44 - 84)
	00 14	0000 000a	Tone Receive Hold-1	(0 - 1) OFF, ON		00 4B	0000 0aaa	TVF Cutoff Velocity Curve	-200 - +200 (0 - 7)
	00 15	0000 000a	Tone Receive Pan Mode	(0 - 1) OFF, ON (0 - 1) CONTINUOUS, KEY-ON		00 4C	Oaaa aaaa	TVF Cutoff Velocity Sens	FIXED, 1 - 7 (1 - 127)
	00 16	0000 000a	Tone Redamper Switch	(0 - 1) OFF, ON		00 4D		TVF Cutoff Keyfollow TVF Cutoff Velocity Curve TVF Cutoff Velocity Sens TVF Resonance TVF Resonance Velocity Sens TVF Env Depth TVF Env Velocity Curve	-63 - +63 (0 - 127)
	00 17	0000 00aa	Tone Control 1 Switch 1			00 4E		TVF Resonance Velocity Sens	(1 - 127)
				OFF, ON, REVERSE		00 4F	Oaaa aaaa	TVF Env Depth	(1 - 127)
	00 18	0000 00aa		(0 - 2) OFF, ON, REVERSE		00 50	0000 0aaa	TVF Env Velocity Curve	(1 - 127) -63 - +63 (0 - 7) FIXED, 1 - 7 (1 - 127) -63 - +63
	00 19	0000 00aa		(0 - 2) OFF, ON, REVERSE		00 51	Oaaa aaaa	TVF Env Velocity Sens	FIXED, 1 - 7 (1 - 127)
	00 1A	0000 00aa	Tone Control 1 Switch 4	(0 - 2) OFF, ON, REVERSE		00 52	Daaa aaaa	TVF Env Time 1 Velocity Sens	-63 - +63 (1 - 127)
	00 1B	0000 00aa	Tone Control 2 Switch 1	(0 - 2) OFF, ON, REVERSE		00 53	Oaaa aaaa		
	00 1C	0000 00aa	Tone Control 2 Switch 2	(0 - 2) OFF, ON, REVERSE		00 54	000a aaaa	TVF Env Time 4 Velocity Sens	-63 - +63 (54 - 74)
	00 1D	0000 00aa	Tone Control 2 Switch 3	(0 - 2)			000a aaaa	TVP BIV TIME REVIOITOW	-100 - +100
	00 1E	0000 00aa	Tone Control 2 Switch 4	OFF, ON, REVERSE (0 - 2)		00 55 00 56	Oaaa aaaa Oaaa aaaa	TVF Env Time 1	(0 - 127)
	00 1F	0000 00aa	Tone Control 3 Switch 1	OFF, ON, REVERSE (0 - 2)		00 57 00 58	Oaaa aaaa Oaaa aaaa	TVF Env Time 1 TVF Env Time 1 TVF Env Time 2 TVF Env Time 3 TVF Env Time 4 TVF Env Level 0 TVF Env Level 1 TVF Env Level 1 TVF Env Level 2 TVF Env Level 3 TVF Env Level 4	(0 - 127) (0 - 127)
	00 20	0000 00aa	Tone Control 3 Switch 2	OFF, ON, REVERSE (0 - 2)		00 59 00 5A	Oaaa aaaa Oaaa aaaa	TVF Env Level 0 TVF Env Level 1	(0 - 127) (0 - 127)
	00 21	0000 00aa	Tone Control 3 Switch 3	OFF, ON, REVERSE (0 - 2)		00 5B 00 5C	Oaaa aaaa Oaaa aaaa	TVF Env Level 2	(0 - 127) (0 - 127)
	00 22	0000 00aa	Tone Control 3 Switch 4	OFF, ON, REVERSE (0 - 2)		00 5D	Oaaa aaaa	TVF Env Level 4	(0 - 127)
	00 23	0000 00aa	Tone Control 4 Switch 1	OFF, ON, REVERSE (0 - 2)		00 5E			(54 - 74) -100 - +100
				OFF, ON, REVERSE		00 5F	Oaaa aaaa	Bias Position	(0 - 127)
	00 24	0000 00aa	Tone Control 4 Switch 2	(0 - 2) OFF, ON, REVERSE		00 60	0000 00aa	Bias Direction	C-1 - G9 (0 - 3)
	00 25	0000 00aa	Tone Control 4 Switch 3	(0 - 2) OFF, ON, REVERSE		00 61	0000 0aaa	mrs r1 rr-1 : 0	LOWER&UPPER, ALL (0 - 7)
	00 26	0000 00aa	Tone Control 4 Switch 4	(0 - 2) OFF, ON, REVERSE		00 62	Oaaa aaaa	TVA Level Velocity Sens	FIXED, 1 - 7 (1 - 127)
	00 27	0000 00aa		(0 - 1)		00 63		TVA Level Velocity Curve TVA Level Velocity Sens TVA Env Time 1 Velocity Sens	-63 - +63 (1 - 127)
#	00 28	0000 aaaa		INT, SRX		00 64			-63 - +63
"	00 20	0000 dada 0000 bbbb				00 65		TVA Env Time 4 Velocity Sens TVA Env Time Keyfollow	-63 - +63 (54 - 74)
		0000 dddd	Wave Group ID	(0 - 16384)					-100 - +100
#	00 2C	0000 aaaa		OFF, 1 - 16384		00 66 00 67	Oaaa aaaa	TVA Env Time 1 TVA Env Time 2	(0 - 127) (0 - 127)
		0000 bbbb 0000 cccc				00 68 00 69		TVA Env Time 3 TVA Env Time 4	(0 - 127) (0 - 127)
		0000 dddd	Wave Number L (Mono)	(0 - 16384) OFF, 1 - 16384		00 6A 00 6B		TVA Env Level 1 TVA Env Level 2	(0 - 127) (0 - 127)
#	00 30	0000 aaaa 0000 bbbb		,		00 6C	Oaaa aaaa	TVA Env Level 3	(0 - 127)
		0000 dddd	Wave Number R	(0 - 16384)		00 6D		LF01 Waveform SIN, TRI, SAI RND, BEND-UP, I	
				OFF, 1 - 16384				RND, BEND-UP, I	
	00 34	0000 00aa		(0 - 3) i, 0, +6, +12 [dB]		# 00 6E			CHS, VSIN, STEP
	00 35	0000 000a	Wave FXM Switch	(0 - 1) OFF, ON			0000 bbbb		(0 - 149) 27, MUSICAL-NOTES
	00 36	0000 00aa	Wave FXM Color	(0 - 3) 1 - 4		00 70	0000 0aaa	LF01 Offset -100,	(0 - 4) -50, 0, +50, +100
	00 37 00 38	000a aaaa 0000 000a	Wave FXM Depth Wave Tempo Sync	(0 - 16) (0 - 1)		00 71 00 72		LF01 Rate Detune LF01 Delay Time	(0 - 127) (0 - 127)
	00 39	00aa aaaa	Wave Pitch Keyfollow	OFF, ON (44 - 84)		00 73		LFO1 Delay Time Keyfollow	(54 - 74) -100 - +100
		Jour dudd	wave ricch Reylollow	-200 - +200		00 74	0000 00aa	LF01 Fade Mode	(0 - 3)
	00 3A	000a aaaa	Pitch Env Depth	(52 - 76)		00 75	Oaaa aaaa	UN-IN, UN-OUT LF01 Fade Time LF01 Key Trigger	OFF-IN, OFF-OUT (0 - 127)
<u> </u>		<u> </u>	<u> </u>	-12 - +12		00 76	UUUU UUUa	LFUI KEY Trigger	(0 - 1)

00 78					
00 78		00 77	Oaaa aaaa	LF01 Pitch Depth	OFF, ON (1 - 127)
00 79		00 78	Oaaa aaaa	LF01 TVF Depth	-63 - +63
00 7A		00 79	Oaaa aaaa	LF01 TVA Depth	(1 - 127)
-63 - 63 - 63 - 63 - 63 - 63 - 63 - 63		00 7A	Oaaa aaaa	LF01 Pan Depth	-63 - +63 (1 - 127)
SIN, TRI, SAW-UP, SAW-DW, SQR, RND, BEND-UM, TRP, S&H, CHS, VSIN, STEP 00 7C 0000 aaaa 0000 bbbb		00 7B		_	-63 - +63
CHS, VSIN, STEP 00 7C 0000 aaaa 0000 bbbb					SIN, TRI, SAW-UP, SAW-DW, SQR,
0000 bbbb	#	00 7c	0000 2222		
00 7E	"	00 70		LFO2 Rate	
00 7F		00 7E	0000 0aaa	LFO2 Offset	(0 - 4)
01 01 000 aaaa					(0 - 127)
01 02 0000 00aa LF02 Fade Mode					eyfollow (54 - 74)
01 03 0aaa aaaa LFO2 Key Trigger (0 - 127) 01 04 0000 000a LFO2 Key Trigger (0 - 1) 01 05 0aaa aaaa LFO2 Pitch Depth (1 - 127) 01 06 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 07 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 08 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 08 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 08 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 08 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 08 0aaa aaaa LFO2 Step Type (0 - 1) 01 09 0000 aaaa LFO Step Type (0 - 1) 01 00 0aaa aaaa LFO Step Type (28 - 100) 01 0B 0aaa aaaa LFO Step Type (28 - 100) 01 0C 0aaa aaaa LFO Step Type (28 - 100) 01 0C 0aaa aaaa LFO Step Type (28 - 100) 01 0D 0aaa aaaa LFO Step Type (28 - 100) 01 0F 0aaa aaaa LFO Step Type (28 - 100) 01 0F 0aaa aaaa LFO Step Type (28 - 100) 01 0F 0aaa aaaa LFO Step Type (28 - 100) 01 0F 0aaa aaaa LFO Step Type (28 - 100) 01 10 0aaa aaaa LFO Step Type (28 - 100) 01 11 0aaa aaaa LFO Step Type (28 - 100) 01 12 0aaa aaaa LFO Step Type (28 - 100) 01 13 0aaa aaaa LFO Step Type (28 - 100) 01 14 0aaa aaaa LFO Step Type (28 - 100) 01 15 0aaa aaaa LFO Step Type (28 - 100) 01 16 0aaa aaaa LFO Step Type (28 - 100) 01 17 0aaa aaaa LFO Step Type (28 - 100) 01 18 0aaa aaaa LFO Step Type (28 - 100) 01 19 0aaa aaaa LFO Step Type (28 - 100) 01 10 0aaa aaaa LFO Step Type (28 - 100) 01 11 0aaa aaaa LFO Step Type (28 - 100) 01 12 0aaa aaaa LFO Step Type (28 - 100) 01 13 0aaa aaaa LFO Step Type (28 - 100) 01 14 0aaa aaaa LFO Step Type (28 - 100) 01 15 0aaa aaaa LFO Step Type (28 - 100) 01 16 0aaa aaaa LFO Step Type (28 - 100) 01 17 0aaa aaaa LFO Step Type (28 - 100) 01 18 0aaa aaaa LFO Step Type Type Type Type Type Type Type Ty		01 02	0000 00aa	LF02 Fade Mode	(0 - 3)
OFF, ON OFF,				LF02 Fade Time	(0 - 127)
01 06 0aaa aaaa LFO2 TVF Depth (1 - 127) 01 07 0aaa aaaa LFO2 TVA Depth (1 - 127) 01 08 0aaa aaaa LFO2 TVA Depth (1 - 127) 01 08 0aaa aaaa LFO2 Pan Depth (1 - 127) -63 - +63 01 09 0000 aaaa LFO Step Type (0 - 1) 01 0A 0aaa aaaa LFO Step1 (28 - 100) 01 0B 0aaa aaaa LFO Step2 (28 - 100) 01 0C 0aaa aaaa LFO Step3 (28 - 100) 01 0D 0aaa aaaa LFO Step4 (28 - 100) 01 0D 0aaa aaaa LFO Step5 (28 - 100) 01 0F 0aaa aaaa LFO Step5 (28 - 100) 01 0F 0aaa aaaa LFO Step6 (28 - 100) 01 0F 0aaa aaaa LFO Step5 (28 - 100) 01 0F 0aaa aaaa LFO Step6 (28 - 100) 01 10 0aaa aaaa LFO Step7 (28 - 100) 01 11 0aaa aaaa LFO Step7 (28 - 100) 01 12 0aaa aaaa LFO Step8 (28 - 100) 01 13 0aaa aaaa LFO Step9 (28 - 100) 01 14 0aaa aaaa LFO Step9 (28 - 100) 01 15 0aaa aaaa LFO Step10 (28 - 100) 01 16 0aaa aaaa LFO Step10 (28 - 100) 01 17 0aaa aaaa LFO Step11 (28 - 100) 01 18 0aaa aaaa LFO Step13 (28 - 100) 01 17 0aaa aaaa LFO Step14 (28 - 100) 01 18 0aaa aaaa LFO Step15 (28 - 100) 01 18 0aaa aaaa LFO Step16 (28 - 100) 01 18 0aaa aaaa LFO Step11 (28 - 100) 01 18 0aaa aaaa LFO Step15 (28 - 100) 01 19 0aaa aaaa LFO Step16 (28 - 100) 01 18 0aaa aaaa LFO Step16 (28 - 100) 01 19 0aaa aaaa LFO Step15 (28 - 100) 01 19 0aaa aaaa LFO Step16 (28 - 100) 01 19 0aaa aaaa LFO Step16 (28 - 100) 01 19 0aaa aaaa LFO Step15 (28 - 100) 01 19 0aaa aaaa LFO Step15 (28 - 100) 01 19 0aaa aaaa LFO Step16 (28 - 100)		01 04	0000 000a	LF02 Key Trigger	(0 - 1) OFF, ON
01 06		01 05	Oaaa aaaa	LF02 Pitch Depth	
01 07		01 06	Oaaa aaaa	LFO2 TVF Depth	(1 - 127)
01 08		01 07	Oaaa aaaa	LFO2 TVA Depth	(1 - 127)
01 09 0000 aaaa LFO Step Type (0 - 1) 01 0A 0aaa aaaa LFO Step1 (28 - 100) -36 - 436 01 0C 0aaa aaaa LFO Step3 (28 - 100) -36 - 436 01 0C 0aaa aaaa LFO Step4 (28 - 100) -36 - 436 01 0C 0aaa aaaa LFO Step4 (28 - 100) -36 - 436 01 0C 0aaa aaaa LFO Step4 (28 - 100) -36 - 436 01 0F 0aaa aaaa LFO Step5 (28 - 100) -36 - 436 01 0F 0aaa aaaa LFO Step6 (28 - 100) -36 - 436 01 10 0aaa aaaa LFO Step6 (28 - 100) -36 - 436 01 11 0aaa aaaa LFO Step7 (28 - 100) -36 - 436 01 11 0aaa aaaa LFO Step8 (28 - 100) -36 - 436 01 12 0aaa aaaa LFO Step8 (28 - 100) -36 - 436 01 12 0aaa aaaa LFO Step9 (28 - 100) -36 - 436 01 13 0aaa aaaa LFO Step9 (28 - 100) -36 - 436 01 14 0aaa aaaa LFO Step10 (28 - 100) -36 - 436 01 15 0aaa aaaa LFO Step11 (28 - 100) -36 - 436 01 16 0aaa aaaa LFO Step12 (28 - 100) -36 - 436 01 17 0aaa aaaa LFO Step12 (28 - 100) -36 - 436 01 17 0aaa aaaa LFO Step13 (28 - 100) -36 - 436 01 18 0aaa aaaa LFO Step14 (28 - 100) -36 - 436 01 19 0aaa aaaa LFO Step15 (28 - 100) -36 - 436 01 19 0aaa aaaa LFO Step16 (28 - 100) -36 - 436 01 19 0aaa aaaa LFO Step16 (28 - 100) -36 - 436 01 19 0aaa aaaa LFO Step16 (28 - 100) -36 - 436 01 19 0aaa aaaa LFO Step16 (28 - 100) -36 - 436		01 08	Oaaa aaaa	LF02 Pan Depth	(1 - 127)
01 0A					
01 0B					(28 - 100)
01 0C		01 OB	Oaaa aaaa	LFO Step2	(28 - 100)
01 0D		01 OC	Oaaa aaaa	LFO Step3	(28 - 100)
01 0E		01 OD	Oaaa aaaa	LFO Step4	(28 - 100)
01 0F		01 OE	Oaaa aaaa	LFO Step5	(28 - 100)
01 10		01 OF	Oaaa aaaa	LFO Step6	(28 - 100)
01 11		01 10	Oaaa aaaa	LFO Step7	(28 - 100)
01 12		01 11	Oaaa aaaa	LFO Step8	(28 - 100)
01 13		01 12	Oaaa aaaa	LFO Step9	
01 14		01 13	Oaaa aaaa	LFO Step10	(28 - 100)
01 15		01 14	Oaaa aaaa	LFO Step11	(28 - 100)
01 16		01 15	Oaaa aaaa	LFO Step12	(28 - 100)
01 17		01 16	Oaaa aaaa	LFO Step13	(28 - 100)
01 18		01 17	Oaaa aaaa	LFO Step14	-36 - +36 (28 - 100)
01 19		01 18	Oaaa aaaa	LFO Step15	-36 - +36
-36 - +36				_	-36 - +36
					-36 - +36

* Rhythm Common

Ì	Offset Address		Description	
	00 00	Oaaa aaaa	Rhythm Name 1	(32 - 127)
	00 01	Oaaa aaaa	Rhythm Name 2	32 - 127 [ASCII] (32 - 127)
	00 02	Oaaa aaaa	Rhythm Name 3	32 - 127 [ASCII] (32 - 127) 32 - 127 [ASCII]
	00 03	Oaaa aaaa	Rhythm Name 4	(32 - 127)
	00 04	Oaaa aaaa	Rhythm Name 5	32 - 127 [ASCII] (32 - 127)
	00 05	Oaaa aaaa	Rhythm Name 6	32 - 127 [ASCII] (32 - 127)
	00 06	Oaaa aaaa	Rhythm Name 7	32 - 127 [ASCII] (32 - 127)
	00 07	Oaaa aaaa	Rhythm Name 8	32 - 127 [ASCII] (32 - 127)
	00 08	Oaaa aaaa	Rhythm Name 9	32 - 127 [ASCII] (32 - 127)
	00 09	Oaaa aaaa	Rhythm Name 10	32 - 127 [ASCII] (32 - 127)

00 0A	Oaaa aaaa	Rhythm Name 11	32 - 127 [ASCII] (32 - 127) 32 - 127 [ASCII]
00 OB	Oaaa aaaa	Rhythm Name 12	(32 - 127) 32 - 127 [ASCII]
00 0C 00 0D # 00 0E	0aaa aaaa 0000 000a 0000 aaaa 0000 bbbb 0000 000a	Rhythm Level (reserve) (reserve) (reserve)	(0 - 127)
00 11	0000 aaaa	Rhythm Output Assign	MFX, A,,,, TONE
00 00 00 12	Total Size		

* Rhythm Common MFX

	lress		Description	
	0.00	ļ		(0 - 78 (0 - 127) (0 - 127) (0 - 127)
0	0 05		MFX Control 1 Source	(0 - 101
	0 06	0	OFF, MFX Control 1 Sens	CC01 - CC31, CC33 - CC95 BEND, AFT, SYS1 - SYS4 (1 - 127)
	0 00		MFX Control 2 Source	-63 - +63 (0 - 101)
			OFF,	CC01 - CC31, CC33 - CC95 BEND, AFT, SYS1 - SYS4
	0 08		MFA CONCIOI 2 Sens	-63 - +63
U	0 09	Uaaa aaaa	MFX Control 3 Source OFF,	(0 - 101 CC01 - CC31, CC33 - CC95 BEND, AFT, SYS1 - SYS4
	0 OA		MFX Control 3 Sens	(1 - 127) -63 - +63
0	0 OB	Oaaa aaaa	MFX Control 4 Source OFF,	(0 - 101 CC01 - CC31, CC33 - CC95
0	0 OC	Oaaa aaaa	MFX Control 4 Sens	BEND, AFT, SYS1 - SYS4 (1 - 127) -63 - +63
0	0 OD	+ 000a aaaa	MFX Control Assign 1	(0 - 16 OFF, 1 - 16 (0 - 16
0	0 OE		MFX Control Assign 2	OFF, 1 - 16 (0 - 16 OFF, 1 - 16
Ö	0 OF	1	MFX Control Assign 3	
	0 10		MFX Control Assign 4	(0 - 16) OFF, 1 - 16 (0 - 16) OFF, 1 - 16
0	0 11	0000 bbbb	MFX Parameter 1	(12768 - 52768) -20000 - +20000
. 0	0 15	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 2	(12768 - 52768) -20000 - +20000
. 0	0 19	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 3	(12768 - 52768)
0	0 1D	0000 aaaa 0000 bbbb 0000 cccc	MFX Parameter 4	-20000 - +20000 (12768 - 52768 -20000 - +20000
. 0	0 21	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 5	(12768 - 52768 -20000 - +20000
0	0 25	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 6	(12768 - 52768 -20000 - +20000
. 0	0 29	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 7	(12768 - 52768
0	0 2D	0000 aaaa		-20000 - +20000

		0000 bbbb		
	00 31	0000 dddd 0000 aaaa	MFX Parameter 8	(12768 - 52768) -20000 - +20000
"		0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 9	(12768 - 52768)
#	00 35	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 39	0000 dddd 0000 aaaa 0000 bbbb	MFX Parameter 10	(12768 - 52768) -20000 - +20000
#	00 3D	0000 cccc 0000 dddd 0000 aaaa	MFX Parameter 11	(12768 - 52768) -20000 - +20000
"		0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 12	(12768 - 52768) -20000 - +20000
#	00 41	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 13	(12768 - 52768)
#	00 45	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 14	-20000 - +20000 (12768 - 52768)
#	00 49	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 15	-20000 - +20000 (12768 - 52768)
#	00 4D	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	mra raidmetei 13	-20000 - +20000
#	00 51		MFX Parameter 16	(12768 - 52768) -20000 - +20000
	00.55	0000 cccc 0000 dddd	MFX Parameter 17	(12768 - 52768) -20000 - +20000
#	00 55	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 18	(12768 - 52768) -20000 - +20000
#	00 59	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 19	(12768 - 52768) -20000 - +20000
#	00 5D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 20	(12768 - 52768) -20000 - +20000
#	00 61	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 21	(12768 - 52768)
#	00 65	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 22	-20000 - +20000 (12768 - 52768)
#	00 69	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 23	-20000 - +20000 (12768 - 52768)
#	00 6D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 24	-20000 - +20000 (12768 - 52768)
#	00 71	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 25	-20000 - +20000 (12768 - 52768)
#	00 75	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 79		MFX Parameter 26	(12768 - 52768) -20000 - +20000
İ		0000 cccc	MFX Parameter 27	(12768 - 52768) -20000 - +20000

#	00 7D	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	MFX Parameter 28	(12768 - 52768)
#	01 01	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
		0000 dddd	MFX Parameter 29	(12768 - 52768) -20000 - +20000
#	01 05	0000 bbbb 0000 cccc	MFX Parameter 30	(10760 50760)
#	01 09	0000 aaaa 0000 bbbb	MFX Parameter 30	(12768 - 52768) -20000 - +20000
		0000 cccc 0000 dddd	MFX Parameter 31	(12768 - 52768) -20000 - +20000
#	01 OD	0000 bbbb		
		0000 dddd	MFX Parameter 32	(12768 - 52768) -20000 - +20000
00	00 01 11	Total Size		

* Rhythm Common Chorus

	set Address		Description	
	00 00 00 01 00 02	0000 aaaa 0aaa aaaa 0000 00aa	Chorus Type Chorus Level Chorus Output Assign <*>	(0 - 3) (0 - 127)
	00 03	0000 00aa	Chorus Output Select	A,,, (0 - 2) MAIN, REV, MAIN+REV
#		0000 aaaa 0000 bbbb		
#	00 08	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 2	(12768 - 52768) -20000 - +20000
#	00 OC	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 3	(12768 - 52768)
#	00 10	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		-20000 - +20000 (12768 - 52768) -20000 - +20000
#	00 14	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		
#	00 18	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 6	(12768 - 52768) -20000 - +20000
#	00 1C	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		(12768 - 52768) -20000 - +20000
#	00 20	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd		(12768 - 52768)
#	00 24	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 9	-20000 - +20000 (12768 - 52768)
#	00 28	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000 (12768 - 52768)
#	00 2C	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000 (12768 - 52768)
#	00 30	0000 aaaa		-20000 - +20000

		0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 12	(12768 - 52768) -20000 - +20000
#	00 34	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 13	(12768 - 52768)
#	00 38	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 3C	0000 dddd 0000 aaaa 0000 bbbb 0000 cccc	Chorus Parameter 14	(12768 - 52768) -20000 - +20000
#	00 40	0000 dddd 0000 aaaa	Chorus Parameter 15	(12768 - 52768) -20000 - +20000
			Chorus Parameter 16	(12768 - 52768) -20000 - +20000
#	00 44	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 17	
#	00 48	0000 aaaa 0000 bbbb 0000 cccc		-20000 - +20000
#	00 4C	0000 dddd 0000 aaaa 0000 bbbb	Chorus Parameter 18	-20000 - +20000
#	00 50	0000 cccc 0000 dddd	Chorus Parameter 19	(12768 - 52768) -20000 - +20000
		0000 bbbb 0000 cccc 0000 dddd	Chorus Parameter 20	(12768 - 52768) -20000 - +20000
00	00 00 54	Total Size		

* Rhythm Common Reverb

Off	set Address		Description	
	00 00 00 01 00 02	0000 aaaa 0aaa aaaa 0000 00aa	Reverb Type Reverb Level Reverb Output Assign <*>	(0 - 5) (0 - 127) A,,
#	00 03	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 1	(12768 - 52768) -20000 - +20000
#	00 07	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 2	(12768 - 52768) -20000 - +20000
#	00 OB	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 3	(12768 - 52768) -20000 - +20000
#	00 OF	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 4	(12768 - 52768) -20000 - +20000
#	00 13	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 5	(12768 - 52768) -20000 - +20000
#	00 17	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 6	(12768 - 52768) -20000 - +20000
#	00 1B	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 7	(12768 - 52768) -20000 - +20000
#	00 1F	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	Reverb Parameter 8	(12768 - 52768)

#	00 23	0000 aaaa 0000 bbbb		-20000 - +20000
		0000 cccc 0000 dddd	Reverb Parameter 9	(12768 - 52768) -20000 - +20000
#	00 27	0000 aaaa 0000 bbbb	Reverb Parameter 10	
#	00 2B	0000 aaaa 0000 bbbb	Reverb Parameter 11	
#	00 2F	0000 aaaa 0000 bbbb	Reverb Parameter 12	
#	00 33	0000 aaaa 0000 bbbb		
#	00 37	0000 aaaa 0000 bbbb		
#	00 3B	0000 aaaa 0000 bbbb		
#	00 3F	0000 aaaa 0000 bbbb	Reverb Parameter 15 Reverb Parameter 16	
#	00 43	0000 aaaa 0000 bbbb		
#	00 47	0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 18	
#	00 4B	0000 aaaa 0000 bbbb		-20000 - +20000
#	00 4F	0000 aaaa 0000 bbbb 0000 cccc	Reverb Parameter 19 Reverb Parameter 20	-20000 - +20000 (12768 - 52768
		 +		-20000 - +20000
		Total Size		

* Rhythm Tone

Offset Address		Description	
00 00	Oaaa aaaa	Tone Name 1	(32 - 127)
00 01	Oaaa aaaa	Tone Name 2	32 - 127 [ASCII] (32 - 127)
00 02	Oaaa aaaa	Tone Name 3	32 - 127 [ASCII] (32 - 127)
00 03	Oaaa aaaa	Tone Name 4	32 - 127 [ASCII] (32 - 127)
00 04	Oaaa aaaa	Tone Name 5	32 - 127 [ASCII] (32 - 127)
00 05	Oaaa aaaa	Tone Name 6	32 - 127 [ASCII] (32 - 127)
00 06	Oaaa aaaa	Tone Name 7	32 - 127 [ASCII] (32 - 127)
00 07	Oaaa aaaa	Tone Name 8	32 - 127 [ASCII] (32 - 127)
00 08	Oaaa aaaa	Tone Name 9	32 - 127 [ASCII] (32 - 127)
00 09	Oaaa aaaa	Tone Name 10	32 - 127 [ASCII] (32 - 127)
00 0A	Oaaa aaaa	Tone Name 11	32 - 127 [ASCII] (32 - 127)
00 OB	Oaaa aaaa	Tone Name 12	32 - 127 [ASCII] (32 - 127)
00 05			32 - 127 [ASCII]
00 OC		Assign Type	(0 - 1) MULTI, SINGLE

	00 OD	000a aaaa	Mute Group	(0 - 31) OFF, 1 - 31				0000 dddd	WMT2 Wave Number L (Mono)	(0 - 16384) OFF, 1 - 16384
	00 OE 00 OF	Oaaa aaaa Oaaa aaaa	Tone Level	(0 - 127) (0 - 127)		#	00 48	0000 aaaa 0000 bbbb 0000 cccc		
	00 10	Oaaa aaaa	Tone Fine Tune	C-1 - G9 (14 - 114)				0000 dddd	WMT2 Wave Number R WMT2 Wave Gain WMT2 Wave FXM Switch	(0 - 16384) OFF, 1 - 16384
	00 11	000a aaaa	Tone Random Pitch Depth 0, 1, 2, 3,	-50 - +50 (0 - 30)			00 4C	0000 00aa	WMT2 Wave Gain	-6, 0, +6, +12 [dB]
			10, 20, 30, 4	0, 50, 60, 70, 80,			00 4D	0000 000a	WMT2 Wave FXM Switch	(0 - 1) OFF, ON
			600, 700, 800	00, 300, 400, 500, , 900, 1000, 1100, 1200			00 4E 00 4F	0000 00aa 000a aaaa	WMTZ Wave FAM COIOr	1 - 4
	00 12	Oaaa aaaa	Tone Pan Tone Random Pan Depth Tone Alternate Pan Depth Tone Env Mode	(0 - 127) I-64 - 63R			00 50	0000 000a	WMT2 Wave Gain WMT2 Wave FXM Switch WMT2 Wave FXM Color WMT2 Wave FXM Depth WMT2 Wave Tempo Sync WMT2 Wave Tempo Sync WMT2 Wave Fine Tune WMT2 Wave Fine Tune WMT2 Wave Pan WMT2 Wave Pan WMT2 Wave Alternate Pan Switch WMT2 Wave Level WMT2 Wave Level WMT2 Valocity Range Lower WMT2 Velocity Range Lower WMT2 Velocity Fade Width Lower WMT2 Velocity Fade Width Lower WMT2 Velocity Fade Width Upper WMT3 Wave Switch WMT3 Wave Group Type	(0 - 10) (0 - 1) OFF. ON
	00 13 00 14	00aa aaaa 0aaa aaaa	Tone Random Pan Depth Tone Alternate Pan Depth	(0 - 63) (1 - 127)			00 51	Oaaa aaaa	WMT2 Wave Coarse Tune	(16 - 112) -48 - +48
	00 15	0000 000a	Tone Env Mode	L63 - 63R (0 - 1)			00 52	Oaaa aaaa	WMT2 Wave Fine Tune	(14 - 114) -50 - +50
		·		NO-SUS, SUSTAIN			00 53	Oaaa aaaa	WMT2 Wave Pan	(0 - 127) L64 - 63R
	00 16 00 17	Oaaa aaaa Oaaa aaaa	Tone Dry Send Level Tone Chorus Send Level	(0 - 127) (0 - 127)			00 54	0000 000a	WMT2 Wave Random Pan Switch	(0 - 1) OFF, ON
	00 18 00 19	Oaaa aaaa Oaaa aaaa	Tone Reverb Send Level Tone Chorus Send Level (non MFX)	(0 - 127) (0 - 127)			00 55	0000 00aa	WMT2 Wave Alternate Pan Switch	OFF, ON, REVERSE
	00 1A 00 1B	0000 aaaa	Tone Reverb Send Level (non MFX) Tone Output Assign	(0 - 127) (0 - 12)			00 56 00 57	Oaaa aaaa Oaaa aaaa	WMT2 Wave Level WMT2 Velocity Range Lower	(0 - 127) (1 - 127)
			Tone Dry Send Level Tone Chorus Send Level Tone Reverb Send Level Tone Chorus Send Level Tone Chorus Send Level (non MFX) Tone Reverb Send Level (non MFX) Tone Output Assign MFX, 1, 2,,,	A,,,,			00 58	Oaaa aaaa	WMT2 Velocity Range Upper	1 - UPPER (1 - 127)
	00 1C 00 1D	00aa aaaa 0000 000a	Tone Pitch Bend Range Tone Receive Expression Tone Receive Hold-1 Tone Receive Pan Mode	(0 - 48)			00 59 00 5A	Oaaa aaaa Oaaa aaaa	WMT2 Velocity Fade Width Lower	(0 - 127) (0 - 127)
	00 1E	0000 000a	Tone Receive Hold-1	OFF, ON (0 - 1)			00 5B	0000 000a	WMT3 Wave Switch	(0 - 1) OFF, ON
	00 1F	0000 000a	Tone Receive Pan Mode	OFF, ON (0 - 1)			00 5C	0000 00aa	WMT3 Wave Group Type	(0 - 1) INT, SRX
						#	00 5D			
	00 20		WMT Velocity Control					0000 cccc 0000 dddd	WMT3 Wave Group ID	(0 - 16384)
	00 21	0000 000a	WMT1 Wave Switch	(0 - 1)		#	00 61			OFF, 1 - 16384
	00 22	0000 00aa	WMT1 Wave Switch	(0 - 1)				0000 bbbb 0000 cccc 0000 dddd	Mana Marka Marka T (Mana)	(0 16204)
#	00 23	0000 aaaa 0000 bbbb		INI, SKA		#	00 65	0000 aaaa	WMT3 Wave Number L (Mono)	OFF, 1 - 16384
		0000 cccc 0000 dddd	WMT1 Wave Group ID	(0 - 16384)			00 03			
#	00 27	0000 aaaa		OFF, 1 - 16384				0000 dddd	WMT3 Wave Number R	(0 - 16384) OFF, 1 - 16384
		0000 bbbb 0000 cccc					00 69	0000 00aa	WMT3 Wave Gain	(0 - 3) -6, 0, +6, +12 [dB]
		0000 dddd	WMT1 Wave Number L (Mono)	(0 - 16384) OFF, 1 - 16384			00 6A	0000 000a	WMT3 Wave FXM Switch	(0 - 1) OFF, ON
#	00 2B	0000 aaaa 0000 bbbb 0000 cccc					00 6B	0000 00aa 000a aaaa	WMT3 Wave FXM Color	1 - 4
		0000 dddd	WMT1 Wave Number R WMT1 Wave Gain WMT1 Wave FXM Switch WMT1 Wave FXM Color WMT1 Wave FXM Depth WMT1 Wave Tempo Sync WMT1 Wave Coarse Tune WMT1 Wave Fine Tune	(0 - 16384)			00 6D	0000 000a	WMT3 Wave Number R WMT3 Wave Gain WMT3 Wave FXM Switch WMT3 Wave FXM Color WMT3 Wave FXM Depth WMT3 Wave Tempo Sync WMT3 Wave Tempo Sync WMT3 Wave Coarse Tune WMT3 Wave Fine Tune WMT3 Wave Pan WMT3 Wave Random Pan Switch WMT3 Wave Alternate Pan Switch WMT3 Wave Alternate Pan Switch WMT3 Wave Level WMT3 Velocity Range Lower	(0 - 10) (0 - 1)
	00 2F	0000 00aa	WMT1 Wave Gain	(0 - 3) (0 - 3)			00 6E	Oaaa aaaa	WMT3 Wave Coarse Tune	(16 - 112) -48 - +48
	00 30	0000 000a	WMT1 Wave FXM Switch	(0 - 1) OFF, ON			00 6F	Oaaa aaaa	WMT3 Wave Fine Tune	(14 - 114) -50 - +50
	00 31	0000 00aa	WMT1 Wave FXM Color	(0 - 3) 1 - 4			00 70	Oaaa aaaa	WMT3 Wave Pan	(0 - 127) L64 - 63R
	00 32 00 33	000a aaaa 0000 000a	WMT1 Wave FXM Depth WMT1 Wave Tempo Sync	(0 - 16) (0 - 1)			00 71	0000 000a	WMT3 Wave Random Pan Switch	(0 - 1) OFF, ON
	00 34	Oaaa aaaa	WMT1 Wave Coarse Tune	OFF, ON (16 - 112)			00 72	0000 00aa	WMT3 Wave Alternate Pan Switch	OFF, ON, REVERSE
	00 35	Oaaa aaaa	WMT1 Wave Fine Tune	-48 - +48 (14 - 114)			00 73 00 74	Oaaa aaaa Oaaa aaaa	WMT3 Wave Level WMT3 Velocity Range Lower	(0 - 127) (1 - 127)
	00 36	Oaaa aaaa	WMT1 Wave Pan	-50 - +50 (0 - 127) L64 - 63R			00 75	Oaaa aaaa	WMT3 Velocity Range Upper	1 - UPPER (1 - 127) LOWER - 127
	00 37	0000 000a	WMT1 Wave Random Pan Switch	(0 - 1) OFF, ON			00 76 00 77	Oaaa aaaa Oaaa aaaa	WMT3 Velocity Fade Width Lower WMT3 Velocity Fade Width Upper	(0 - 127)
	00 38	0000 00aa	WMT1 Wave Alternate Pan Switch				00 78	0000 000a	WMT4 Wave Switch	(0 - 1) OFF, ON
	00 39 00 3A	Oaaa aaaa Oaaa aaaa	WMT1 Wave Level WMT1 Velocity Range Lower	(0 - 127) (1 - 127)			00 79	0000 00aa	WMT4 Wave Group Type	(0 - 1) INT, SRX
	00 3B	Oaaa aaaa	WMT1 Velocity Range Upper	1 - UPPER (1 - 127)		#	00 7A	0000 aaaa 0000 bbbb		
	00 3C	Oaaa aaaa	WMT1 Velocity Fade Width Lower					0000 cccc 0000 dddd	WMT4 Wave Group ID	(0 - 16384)
	00 3D 00 3E	0aaa aaaa 0000 000a	WMT1 Velocity Fade Width Upper WMT2 Wave Switch	(0 - 1)		#	00 7E			OFF, 1 - 16384
	00 3F	0000 00aa	WMT2 Wave Group Type	OFF, ON (0 - 1)				0000 bbbb	tonema toleran Namahara T (Manah	(0. 16304)
#	00 40	0000 aaaa 0000 bbbb		INT, SRX		#	01 02	0000 dddd 0000 aaaa	WMT4 Wave Number L (Mono)	(0 - 16384) OFF, 1 - 16384
		0000 cccc 0000 dddd	WMT2 Wave Group ID	(0 - 16384)		"	01 02	0000 dada 0000 bbbb		
	00 44	0000 aaaa		OFF, 1 - 16384				0000 dddd	WMT4 Wave Number R	(0 - 16384) OFF, 1 - 16384
		0000 bbbb 0000 ccc					01 06	0000 00aa	WMT4 Wave Gain	(0 - 3) -6, 0, +6, +12 [dB]
					1	1			1	, ., [1]

01 07	0000 000a	WMT4 Wave FXM Switch	(0 - 1) OFF, ON
01 08	0000 00aa	WMT4 Wave FXM Color	(0 - 3) 1 - 4
01 09 01 0A	000a aaaa 0000 000a	WMT4 Wave FXM Depth WMT4 Wave Tempo Sync	(0 - 16) (0 - 1) OFF, ON
01 OB	Oaaa aaaa	WMT4 Wave Coarse Tune	(16 - 112) -48 - +48
01 OC	Oaaa aaaa	WMT4 Wave Fine Tune	(14 - 114)
01 0D	Oaaa aaaa	WMT4 Wave Pan	-50 - +50 (0 - 127)
01 OE	0000 000a	WMT4 Wave Random Pan Switch	L64 - 63R (0 - 1)
01 OF	0000 00aa	WMT4 Wave Alternate Pan Switch	
01 10 01 11	Oaaa aaaa Oaaa aaaa	WMT4 Wave Level WMT4 Velocity Range Lower	OFF, ON, REVERSE (0 - 127) (1 - 127)
01 12	Oaaa aaaa	WMT4 Velocity Range Upper	1 - UPPER (1 - 127)
01 13 01 14	Oaaa aaaa Oaaa aaaa	WMT4 Velocity Fade Width Lower WMT4 Velocity Fade Width Upper	LOWER - 127 (0 - 127) (0 - 127)
	+	Pitch Env Depth	(52 - 76)
		Pitch Env Velocity Sens	-12 - +12 (1 - 127)
		Pitch Env Time 1 Velocity Sens	-63 - +63
		Pitch Env Time 4 Velocity Sens	-63 - +63
			-63 - +63 (0 - 127)
01 1A	Oaaa aaaa	Pitch Env Time 2	(0 - 127)
01 1B 01 1C	Daaa aaaa	Pitch Env Time 1 Pitch Env Time 2 Pitch Env Time 3 Pitch Env Time 4 Pitch Env Level 0	(0 - 127) (0 - 127)
			(1 - 127) -63 - +63
01 1E	Oaaa aaaa	Pitch Env Level 1	(1 - 127) -63 - +63
01 1F	Oaaa aaaa	Pitch Env Level 2	(1 - 127) -63 - +63
01 20	Oaaa aaaa	Pitch Env Level 3	(1 - 127)
01 21	Oaaa aaaa	Pitch Env Level 4	(1 - 127) -63 - +63
01 22	0000 0aaa	TVF Filter Type	(0 - 6) PF, HPF, PKG, LPF2,
01 23 01 24	Oaaa aaaa OOOO Oaaa	TVF Cutoff Frequency TVF Cutoff Velocity Curve	LPF3 (0 - 127) (0 - 7) FIXED, 1 - 7
01 25	Oaaa aaaa	TVF Cutoff Velocity Sens	(1 - 127) -63 - +63
01 26 01 27	Oaaa aaaa Oaaa aaaa	TVF Resonance TVF Resonance Velocity Sens	(0 - 127) (1 - 127)
01 28	Oaaa aaaa	TVF Env Depth	-63 - +63 (1 - 127)
01 29	0000 0aaa	TVF Env Velocity Curve Type	-63 - +63 (0 - 7)
01 2A	Oaaa aaaa	TVF Env Velocity Sens	(1 12//
01 2B	Oaaa aaaa	TVF Env Time 1 Velocity Sens	-63 - +63 (1 - 127)
01 2C	Oaaa aaaa	TVF Env Time 4 Velocity Sens	-63 - +63 (1 - 127)
01 2D	Oaaa aaaa	TVF Env Time 1 TVF Env Time 2	-63 - +63 (0 - 127)
01 2E 01 2F	Oaaa aaaa Oaaa aaaa	TVF Env Time 2 TVF Env Time 3	(0 - 127) (0 - 127)
01 30 01 31	Oaaa aaaa Oaaa aaaa	TVF Env Time 4	(0 - 127) (0 - 127)
01 32	Oaaa aaaa Oaaa aaaa	TVF Env Level 1	(0 - 127)
01 33 01 34	l Vaaa aaaa	TVF Env Level 3	(0 - 127) (0 - 127) (0 - 127)
01 35	+		(0 - 127)
		TVA Level Velocity Curve	(0 - 7) FIXED, 1 - 7
01 37		TVA Level Velocity Sens	(1 - 127) -63 - +63
01 38		TVA Env Time 1 Velocity Sens	(1 - 127) -63 - +63
01 39		TVA Env Time 4 Velocity Sens	(1 - 127) -63 - +63
01 3A 01 3B	Oaaa aaaa Oaaa aaaa	TVA Env Time 1 TVA Env Time 2	(0 - 127) (0 - 127)
01 3C	Oaaa aaaa	TVA Env Time 3	(0 - 127)
01 3D 01 3E		TVA Env Time 4 TVA Env Level 1	(0 - 127) (0 - 127)
01 3F	Oaaa aaaa	TVA Env Level 2 TVA Env Level 3	(0 - 127) (0 - 127)
	+	One Shot Mode	
			(0 - 1) OFF, ON
01 42	uddd dddd	Relative Level	(0 - 127) -64 - +63

|------|
| 00 00 01 43 | Total Size |

2. GS (Model ID = 42H)

* System Parameter

Start				
Address		Description		
40 00 7F	Oaaa aaaa	Mode Set	GS-RESET,	(0, 127) GS-EXIT

* Part Parameter

Start Address		Description	
		Scale Tuning C	(0 - 127
40 1x 41	Oaaa aaaa	Scale Tuning C#	-64 - +63 [cent] (0 - 127
40 1x 42	Oaaa aaaa	Scale Tuning D	-64 - +63 [cent] (0 - 127
40 1x 43	Oaaa aaaa	Scale Tuning D#	-64 - +63 [cent] (0 - 127
40 1x 44	Oaaa aaaa	Scale Tuning E	-64 - +63 [cent] (0 - 127
40 1x 45	Oaaa aaaa	Scale Tuning F	-64 - +63 [cent] (0 - 127
40 1x 46	Oaaa aaaa	Scale Tuning F#	-64 - +63 [cent] (0 - 127
40 1x 47	Oaaa aaaa	Scale Tuning G	-64 - +63 [cent] (0 - 127
40 1x 48	Oaaa aaaa	Scale Tuning G#	-64 - +63 [cent] (0 - 127
40 1x 49	Oaaa aaaa	Scale Tuning A	-64 - +63 [cent] (0 - 127
		ľ	-64 - +63 [cent]
40 1x 4A	Oaaa aaaa	Scale Tuning A#	(0 - 127 -64 - +63 [cent]
40 1x 4B	Oaaa aaaa	Scale Tuning B	(0 - 127 -64 - +63 [cent]

x: BLOCK NUMBER (0-F)
Part 1 (MIDI ch = 1) x = 1
Part 2 (MIDI ch = 2) x = 2
: : : :
Part 9 (MIDI ch = 9) x = 9
Part10 (MIDI ch = 10) x = 0
Part11 (MIDI ch = 11) x = A
Part12 (MIDI ch = 12) x = B
: :
Part16 (MIDI ch = 16) x = F

4. Supplementary Material

■Decimal and Hexadecimal Table

(An "H" is appended to the end of numbers in hexadecimal notation.)

In MIDI documentation, data values and addresses/sizes of Exclusive messages, etc. are expressed as hexadecimal values for each 7 bits.

The following table shows how these correspond to decimal numbers.

D	Н	D	н	D	Н	D	Н
0	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	24H	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28H	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	OAH	42	2AH	74	4AH	106	6AH
11	OBH	43	2BH	75	4BH	107	6BH
12	OCH	44	2CH	76	4CH	108	6CH
13	0DH	45	2DH	77	4DH	109	6DH
14	0EH	46	2EH	78	4EH	110	6EH
15	0FH	47	2FH	79	4FH	111	6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H
22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87	57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	3AH	90	5AH	122	7AH
27	1BH	59	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH
+	++-	+	++	+	++	+	++

D: decimal

H: hexadecimal

- * Decimal values such as MIDI channel, bank select, and program change are listed as one greater than the values given in the above table.
- * A 7-bit byte can express data in the range of 128 steps. For data where greater precision is required, we must use two or more bytes. For example, two hexadecimal numbers aa bbH expressing two 7-bit bytes would indicate a value of aa x 128+bb.
- * In the case of values which have a +/- sign, 00H = -64, 40H = +/-0, and 7FH = +63, so that the decimal expression would be 64 less than the value given in the above chart. In the case of two types, 00 = -8192, 40 = -400, and 40 = -400. For example, if as bbH were expressed as decimal, this would be as 400.
- * Data marked "Use nibbled data" is expressed in hexadecimal in 4-bit units. A value expressed as a 2-byte nibble 0a 0bH has the value of a x 16+b.

<Example 1> What is the decimal expression of 5AH? From the preceding table, 5AH = 90

<Example 2> What is the decimal expression of the value 12 34H given as hexadecimal for each 7 bits?

From the preceding table, since 12H = 18 and 34H = 52 $18 \times 128 + 52 = 2356$

<Example 3> What is the decimal expression of the nibbled value 0A 03 09 0D?

From the preceding table, since 0AH = 10, 03H = 3, 09H = 9, 0DH = 13

 $((10 \times 16+3) \times 16+9) \times 16+13 = 41885$

<Example 4> What is the nibbled expression of the decimal value

```
16 ) 1258
16 ) 78 ...10
16 ) 4 ...14
```

Since from the preceding table, 0 = 00H, 4 = 04H, 14 = 0EH, 10 = 0AH, the result is: 00 04 0E 0AH.

■Examples of Actual MIDI Messages

<Example 1> 92 3E 5F

9n is the Note-on status, and n is the MIDI channel number. Since 2H = 2, 3EH = 62, and 5FH = 95, this is a Note-on message with MIDI CH = 3, note number 62 (note name is D4), and velocity 95.

<Example 2> CE 49

CnH is the Program Change status, and n is the MIDI channel number. Since $\rm EH=14$ and $\rm 49H=73$, this is a Program Change message with MIDI $\rm CH=15$, program number 74.

<Example 3> EA 00 28

EnH is the Pitch Bend Change status, and n is the MIDI channel number. The 2nd byte (00H = 0) is the LSB and the 3rd byte (28H = 40) is the MSB, but Pitch Bend Value is a signed number in which 40 00H (= $64 \times 12 + 80 = 8192$) is 0, so this Pitch Bend Value is 28 00H - $40 \times 12 + 80 = (64 \times 12 + 80) = 5120 - 8192 = -3072$

If the Pitch Bend Sensitivity is set to 2 semitones, -8192 (00 00H) will cause the pitch to change -200 cents, so in this case -200 \times (-3072) \div (-8192) = -75 cents of Pitch Bend is being applied to MIDI channel 11.

<Example 4> B3 64 00 65 00 06 0C 26 00 64 7F 65 7F BnH is the Control Change status, and n is the MIDI channel number. For Control Changes, the 2nd byte is the control number, and the 3rd byte is the value. In a case in which two or more messages consecutive messages have the same status, MIDI has a provision called "running status" which allows the status byte of the second and following messages to be omitted. Thus, the above messages have the following meaning.

В3	$64\ 00$	MIDI ch.4, lower byte of RPN parameter number:	00H
(B3)	65 00	(MIDI ch.4) upper byte of RPN parameter number:	00H
(B3)	06 0C	(MIDI ch.4) upper byte of parameter value:	0CH
(B3)	26 00	(MIDI ch.4) lower byte of parameter value:	00H
(B3)	64 7F	(MIDI ch.4) lower byte of RPN parameter number:	7FH
(B3)	65 7F	(MIDI ch.4) upper byte of RPN parameter number:	7FH

In other words, the above messages specify a value of 0C 00H for RPN parameter number $00\,00H$ on MIDI channel 4, and then set the RPN parameter number to 7F 7FH.

RPN parameter number 00 00H is Pitch Bend Sensitivity, and the MSB of the value indicates semitone units, so a value of 0CH = 12 sets the maximum pitch bend range to +/-12 semitones (1 octave). (On GS sound generators the LSB of Pitch Bend Sensitivity is ignored, but the LSB should be transmitted anyway (with a value of 0) so that operation will be correct on any device.)

Once the parameter number has been specified for RPN or NRPN, all Data Entry messages transmitted on that same channel will be valid, so after the desired value has been transmitted, it is a good idea to set the parameter number to 7F 7FH to prevent accidents. This is the reason for the (B3) 64 7F (B3) 65 7F at the end.

It is not desirable for performance data (such as Standard MIDI File data) to contain many events with running status as given in <Example 4>. This is because if playback is halted during the song and then rewound or fast-forwarded, the sequencer may not be able to transmit the correct status, and the sound generator will then misinterpret the data. Take care to give each event its own status.

It is also necessary that the RPN or NRPN parameter number setting and the value setting be done in the proper order. On some sequencers, events occurring in the same (or consecutive) clock may be transmitted in an order different than the order in which they were received. For this reason it is a good idea to slightly skew the time of each event (about 1 tick for TPQN = 96, and about 5 ticks for TPQN = 480).

* TPQN: Ticks Per Quarter Note

■Example of an Exclusive Message and Calculating a Checksum

Roland Exclusive messages (RQ1, DT1) are transmitted with a checksum at the end (before F7) to make sure that the message was correctly received. The value of the checksum is determined by the address and data (or size) of the transmitted Exclusive message.

•How to calculate the checksum

(hexadecimal numbers are indicated by "H")
The checksum is a value derived by adding the address, size, and checksum itself and inverting the lower 7 bits.
Here's an example of how the checksum is calculated. We will assume that in the Exclusive message we are transmitting, the address is aa bb cc ddH and the data or size is ee ffH.

```
aa + bb + cc + dd + ee + ff = sum

sum \div 128 = quotient ... remainder

128 - remainder = checksum
```

<Example> Setting CHORUS TYPE of PERFORMANCE COMMON to DELAY (DT1)

According to the "Parameter Address Map" (p. 257), the start address of Temporary Performance is 10 00 00 00H, the offset address of CHORUS at PERFORMANCE COMMON is 04 00H, and the address of CHORUS TYPE is 00 00H. Therefore the address of CHORUS TYPE of PERFORMANCE COMMON is:

```
10 00 00 00H
04 00H
+) 00 00H
10 00 04 00H
```

DELAY has the value of 02H.

So the system exclusive message should be sent is;

```
F0 41 10 00 00 25 12 10 00 04 00 02 ?? F7 (1) (2) (3) (4) (5) address data checksum (6)
```

(1) Exclusive Status (2) ID (Roland) (3) Device ID (17) (4) Model ID (SonicCell) (5) Command ID (DT1) (6) End of Exclusive

Then calculate the checksum.

```
10H + 00H + 04H + 00H + 02H = 16 + 0 + 4 + 0 + 2 = 22 (sum)

22 (sum) ÷ 128 = 0 (quotient) ... 22 (remainder)

checksum = 128 - 22 (remainder) = 106 = 6AH
```

This means that F0 41 10 00 00 25 12 10 00 04 00 02 6A F7 is the message should be sent.

■The Scale Tune Feature (address: 40 1x 40)

The scale Tune feature allows you to finely adjust the individual pitch of the notes from C through B. Though the settings are made while working with one octave, the fine adjustments will affect all octaves. By making the appropriate Scale Tune settings, you can obtain a complete variety of tuning methods other than equal temperament. As examples, three possible types of scale setting are explained below.

OEqual Temperament

This method of tuning divides the octave into 12 equal parts. It is currently the most widely used form of tuning, especially in occidental music. On the SonicCell, the default settings for the Scale Tune feature produce equal temperament.

OJust Temperament (Tonic of C)

The principal triads resound much more beautifully than with equal temperament, but this benefit can only be obtained in one key. If transposed, the chords tend to become ambiguous. The example given involves settings for a key in which C is the keynote.

OArabian Scale

By altering the setting for Scale Tune, you can obtain a variety of other tunings suited for ethnic music. For example, the settings introduced below will set the unit to use the Arabian Scale.

Example Settings

Note name	Equal	Just Temperament	Arabian Scale
		Temperament(Key-ton	e C)
C	0	0	-6
C#	0	-8	+45
D	0	+4	-2
Eb	0	+16	-12
E	0	-14	-51
F	0	-2	-8
F#	0	-10	+43
G	0	+2	-4
G#	0	+14	+47
A	0	-16	0
Bb	0	+14	-10
В	0	-12	-49

The values in the table are given in cents. Convert these values to hexadecimal, and transmit them as Exclusive data.

For example, to set the tune (C-B) of the Part 1 Arabian Scale, send the following data:

F0 41 10 42 12 40 11 40 3A 6D 3E 34 0D 38 6B 3C 6F 40 36 0F 76 F7

■ASCII Code Table

Patch Name and Performance Name, etc., of MIDI data are described the ASCII code in the table below.

32 33 34 35 36	21H 22H 23H 24H	SP ! # \$	64 65 66	40H 41H	@ A	96	60H	,
34 35 36	22H 23H 24H		66		1 2 1			
35	23H 24H			40**		97	61H	a
36	24H	#	1 (7)	42H	В	98	62H	b
			67	43H	C	99	63H	c
	2511	\$	68	44H	D	100	64H	d
37		8	69	45H	E	101	65H	e
38		&	70	46H	F	102	66H	f
39		`	71	47H	G	103	67H	g
40		(72	48H	H	104	68H	h
41)	73	49H	I	105	69H	ij
42		*	74	4AH	J	106	6AH	
43		+	75	4BH	K	107	6BH	k
44		,	76	4CH	L	108	6CH	1
45		-	77	4DH	M	109	6DH	m
46			78	4EH	N	110	6EH	n
47		/ /	79	4FH	0	111	6FH	0
48		0	80	50H	P	112	70H	p
49		1	81	51H	Q	113	71H	ď
50		2	82	52H	R	114	72H	r
51		3	83	53H	S	115	73H	S
52		4	84	54H	т	116	74H	t
53		5	85	55H	U	117	75H	u
54		6	86	56H	V	118	76H	V
55		7	87	57H	W	119	77H	W
56		8	88	58H	X	120	78H	x
57		9	89	59H	Y	121	79H	У
58		:	90	5AH	Z	122	7AH	Z
59		;	91	5BH] [123	7BH	{
60		<	92	5CH		124	7CH	
61		=	93	5DH]]	125	7DH	}
62		>	94	5EH	^			++
63	3FH	?	95	5FH	_			

D: decimal

H: hexadecimal

* "SP" is space.

Model: SonicCell MIDI Implementation Chart Date : June. 15, 2007

Version : 1.00

Model: S	Function	Transm	-	lentation Recogniz		Version : 1.0
Basic Channel	Default Changed	1–16 X		1–16 1–16		
Mode	Default Messages Altered	X X ********		Mode 3 Mode 3, 4 (M = 1))	*2
Note Number :	True Voice	0–127		0–127 0–127		
Velocity	Note ON Note OFF	0	*4 *4	0		
Aftertouch	Key's Channel's	0	*4 *4	0	*1 *1	
Pitch Bend		0	*4	0	*1	
Control Change	0, 32 1 2 4 5 6, 38 7 8 10 11 16 17 18 19 64 65 66 67 68 89 70 71 71 72 73 74 75 76 77 78 80 81 82 83 84 91 92 93 94 1—31, 33–95 96, 97 98, 99 100, 101 102–119	000000000000000000000000000000000000000	*4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	" " " " " " " " " " " " " " " " " " "	Bank select Modulation Breath type Foot type Foot type Portamento time Data entry Volume Balance Panpot Expression General purpose controller 1 General purpose controller 3 General purpose controller 4 Hold1 Portamento Sostenuto Sostenuto Soft Legato foot switch Hold2 Sound variation Resonance Release time Attack time Cutoff Decay time Vibrato depth Vibrato depth Vibrato depth Vibrato delay General purpose controller 5 General purpose controller 6 General purpose controller 7 General purpose controller 7 General purpose controller 7 General purpose effects 1 Tremoro General purpose effects 1 Tremoro General purpose controller 8 Portamento control General purpose effects 1 Tremoro General purpose controller 8 Portamento control General purpose effects 1 Tremoro General purpose controller 1 Renaser General purpose controller Increment, Decrement NRPN LSB,MSB RPN LSB,MSB
Program Change	: True Number	O *******	*4	O 0–127	*1	Program Number 1–128
System Excl	usive	0	*3 *4	0	*1	
System Common	: Song Position : Song Select : Tune	X X X		X X X		
System Realtime	: Clock : Command	X X		O X		
Aux Messages	: All Sound Off : Reset All Controllers : Local ON/OFF : All Note Off : Active Sensing : System Reset	0 0 X 0 0 x	*4 *4 *4	O O X O (123–127) O X		
Notes		* 1 O X is selectable. * 2 Recognized as M=1 even if M≠1. * 3 Transmitted when Tx Edit Data is ON, or when RQ1 is received. * 4 Transmitted from SMF Player.				

Mode 1 : OMNI ON, POLY Mode 3 : OMNI OFF, POLY Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO O : Yes X : No

Specifications

SonicCell: 128 Voices Sound Module with Audio Interface (Conforms to General MIDI 2 System)

■ Sound Generator Section

Parts

16 parts

Maximum Polyphony

128 voices

Wave Memory

128 M bytes (16-bit linear equivalent)

Expansion Slots

Expansion of waveforms and patchs for the internal sound generator SRX expansion boards: 2 slots

Preset Memory

Patches: 896 + 256 (GM2) Rhythm Sets: 32 + 9 (GM2) Performances: 64

User Memory

Patches: 256 Rhythm Sets: 32 Performances: 64

External Memory

USB Memory

Effects

Multi-Effects: 3 systems, 78 types

Chorus: 3 types Reverb: 5 types Input Effect: 6 types

Mastering Effect: 3 bands Compressor

■ Audio Interface Section

Number of Audio Input/Output Channels

Input: 1 pair of stereo (MIC, GUITAR: Monaural/LINE: Stereo)
Output: 1 pair of stereo

Signal Processing

PC interface: 24 bits AD/DA Conversion: 24 bits

Sampling Frequency

AD/DA Conversion: 44.1/48/96 kHz

Nominal Input Level

Input jack (MIC/GUITAR/LINE (L))

Mic: -50 - -30 dBu
Guitar: -30 - -10 dBu
Line: -30 - -10 dBu
Input jack (LINE (R))
Line: -30 - -10 dBu

Nominal Output Level

Output jacks: -10 dBu

■ SMF/Audio File Player Section

File Format

Standard MIDI File: format-0/1 Audio File: WAV, AIFF, MP3

Others

Display

128 x 64 dots organic EL graphic display

Connectors

Output jacks (L/MONO, R)

Headphone jack

Input jacks (MIC/GUITAR/LINE (L), LINE (R))

MIC: 1/4 inch phone type or XLR type (phantom power)

GUITAR: 1/4 inch phones type (always Hi-Z)

Line (L): 1/4 inch phone type LINE (R): 1/4 inch phone type MIDI Connectors (IN, OUT)

USB Connectors

COMPUTER (supports USB Hi-Speed USB MIDI, and USB Audio) MEMORY (supports USB 2.0 Hi-Speed Flash Memory)

Power Supply

DC 9 V (AC Adaptor)

* This product does not support USB bus power.

Current Draw

800 mA

Dimensions

294 (W) x 175 (D) x 55 (H) mm

11-5/8 (W) x 6-15/16 (D) x 2-3/16 (H) inches

Weight

1.2 kg / 2 lbs 11 oz (excluding AC Adaptor)

Accessories

Startup Guide

Manual

CD-ROM (Sound Editor, Librarian, Playlist Editor, USB Driver)

CD-ROM (SONAR LE)

Wrench

AC Adaptor (PSB-1U)

Power Cord USB Cable

Options

Wave Expansion Board: SRX Series

USB Memory: M-UF128

SonicCell stand and PDS-10 bracket: BKT-S

Pad Stand: PDS-10

(0 dBu = 0.775 V rms)

 In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Index

Numerics	Input Effect	43
3D Effects	Input Effect Parameters	221
	Input Effect screen	147
A	Input FX Output screen	148
AC Adaptor	Input screen	43–44, 142
AIFF	Input Volume	42
Amp Envelope	Installing	
Audio File	Mac OS X	37
	sonar le	
В	Wave Expansion Board	
Backup	Windows Vista	
BKT-S	Windows XP	33
C	L	
Category Select screen	LFO (Low Frequency Oscillator)	
Changing the song order	Librarian	27
Chorus	Line	42
Chorus Output screen	Logic Pro 7.2	163
Chorus Parameters		
Chorus screen	M	
Cubase 4	Mac OS X	37
CURSOR/VALUE	Master EQ screen	184
CORSORY VALUE	Master Equalizer	184
D	MASTER VOLUME	19
Delay	Mastering Effect	56
Delete 219	Mastering Effect screen	
Playlist	Mastering Type screen	
Demo Songs	Matrix Control	
Demo Jongs	Memory	
E	Menu	
Editor	Effect Edit	133
Effect Routing screen	Effect Routing	76
Effect Source screen	In/Out Routing	146
Effect Switch screen	Input	
Effects	Part Edit	68
Effects List	Patch	84
	Patch Edit	88
Envelope	Patch List (Ctg)	
Error Messages	Patch List (Grp)	
F	Perform MIDI Filter	
	Performance	
Factory Reset	Playlist Select	
Format	Rhythm Edit	
G	Rhythm Set List	
	song list	
Group Select screen	USB Audio	
Guitar	MFX Control screen	
I	MFX Output screen	
In /Out Pouting 144	MFX screen	
In/Out Routing	MFX Structure screen	
In/Out Routing screen	MFX1–3 Control screens	
Initialize	MFX1-3 Output screens	
Patch	MFX1-3 screens	
Rhythm Tone	MFX3 Location screen	149
Sound Control	Mic	41
INPUT		

Index

MIDI channel	23	Performance Write	
MIDI Filter screen	61	Playback	28, 168
MIDI Implementation	246	Playlist	30, 167, 171
MIDI Implementation Chart	277	Playlist Information screen	170
MIDI INST screen	22, 58–59	Playlist Select screen	28, 168
MP3	168	Playlist Write	173
Multi-Effects	56	Portable Backing Machine	28
Multi-Effects Control	81, 137	POWER switch	
A.I		Preset memory	57
N		R	
Note priority	55		40
D		Recording	
o Part	E4	Restore	
Part Edit screen		Reverb	
		Reverb Output screen	•
Part View screen	· · · · · · · · · · · · · · · · · · ·	Reverb Parameters	
Part ViewâÊñ		Reverb screen	,
Patch		Rhythm Edit screen	
Patch Category		Rhythm Effect menu screen	133
Patch Ctrl screen		Rhythm General screen	118
Patch Edit screen	, ,	Rhythm Output screen	129
Patch Effect menu screen	133	Rhythm Pch Env screen	123
Patch General screen	90	Rhythm Pitch screen	122
Patch Initialize	115	Rhythm Set	55, 64, 83
Patch LFO1, 2 screens	109	Rhythm Set Initialize	130
Patch List	223	Rhythm Set List	
Patch List (Ctg) screen	65, 85	Rhythm Set List screen	
Patch List (Grp) screen	66, 86	Rhythm Set Write	
Patch Menu screen	84	Rhythm Tone Copy	
Patch Mode	23, 54, 82	Rhythm Tone Initialize	
Patch Mtrx Ctrl1–4 screens	95	Rhythm TVA Env screen	
Patch Name screen	116	Rhythm TVA screen	
Patch Output screen	108	Rhythm TVF Env screen	
Patch Pitch Env screen		Rhythm TVF screen	
Patch Play screen		Rhythm Wave screen	
Patch Scale Tune screen		Rhythm WMT screen	
Patch Step LFO screen		Kilyilili VVIVII Screen	122
Patch Structure screen		S	
Patch TMT screen		SAMPLING RATE switch	29
Patch TVA Env screen		Scale Tune	
Patch TVA screen		Scale Tune screen	
Patch TVF Env screen		SMF	
Patch TVF screen		SMF/Audio File Player	
Patch WG screen	,	SONAR 6.2	
Patch Write		SONAR LE	
PDS-10			
		Song Info (Level) screen	
Perform MIDI Filter screen		Song Information screen	
Performance General screen		Song Menu screen	
Performance Initialize		Song order	
Performance List		Songs	
Performance Menu screen		Sound Control Initialize	
Performance Mode		Sound Mode screen	,
Performance Name screen	73	SRX series	46, 57

System Control screen	179
System Memory	57
System MIDI screen	180
System Preview screen	179
System screen	176
System Settings	176
System SRX Info screen	
System Version Info screen	180
System Write	150
_	
T	
Temporary Memory	
To Computer screen	
Tone Copy	
Tones	
Troubleshooting	
TVA (Time Variant Amplifier)	
TVF (Time Variant Filter)	55
U	
USB AUDIO	
USB Audio screen	
USB Memory	
USB memory	
USB Memory Format	
USB/Audio Interface	
User Backup	
User Memory	
User Restore	182
	182
V	
V Voice Reserve	55
V	55
V Voice Reserve	55
V Voice Reserve Volume Level	55 42
V Voice Reserve Volume Level W WAV	55 42
V Voice Reserve Volume Level W WAV Wave Expansion Board	55 42 168 46, 57
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List	
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List WG (Wave Generator)	
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List WG (Wave Generator)	
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List WG (Wave Generator) Windows Vista Windows XP	
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List WG (Wave Generator)	
V Voice Reserve Volume Level W WAV Wave Expansion Board Waveform List WG (Wave Generator) Windows Vista Windows XP Write	
V Voice Reserve Volume Level W WAV Wave Expansion Board WG (Wave Generator) Windows Vista Windows XP Write Patch	

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This product complies with the requirements of European Directive 89/336/EEC.

For the USA

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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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For the USA

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name: SonicCell

Type of Equipment: Sound Module with Audio Interface

Responsible Party: Roland Corporation U.S.

Address : 5100 S. Eastern Avenue, Los Angeles, CA 90040-2938

Telephone: (323) 890-3700

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