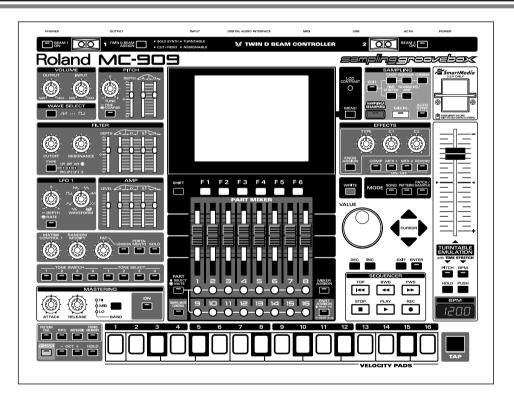
Roland®



Owner's Manual

Thank you, and congratulations on your choice of the Roland MC-909 Sampling Groovebox.

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (Owner's Manual p. 2), "USING THE UNIT SAFELY" (Owner's Manual pp. 3–4), and "IMPORTANT NOTES" (Owner's Manual p. 5). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Quick Start and Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.



Convention Used in This Manual

- Words enclosed in square brackets indicate buttons or a dial or a knob or a slider on the panel.
- (p. **) indicates a reference page.
- * The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

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NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- For the U.K. -

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

USING THE UNIT SAFEL

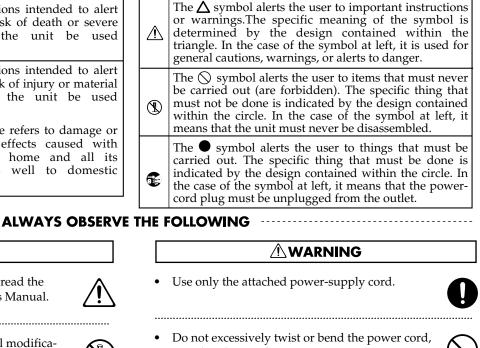
INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About A WARNING and A CAUTION Notices

	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.
	* 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.

/!\WARNING

About the Symbols



Do not open or perform any internal modifications on the unit. (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. 142, p. 144, p. 146, and p. 148.)

Before using this unit, make sure to read the

instructions below, and the Owner's Manual.

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.

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Never use or store the unit in places that are:

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Humid; or are
- Exposed to rain; or are
- Dusty; or are
- Subject to high levels of vibration.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.
- The unit should be connected to a power source only of the type described in the operating instructions, or as marked on the bottom of the unit.

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- 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.

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- Immediately turn the power off, remove the power cord 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 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.

WARNING

- 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.

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- Always turn the unit off and unplug the power cord before attempting installation of the circuit board (SRX series/DIMM; p. 16).
- Do not put anything that contains water (e.g., flower vases) on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.

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A CAUTION

- The unit should be located so that its location or position does not interfere with its proper ventilation.
- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit.

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• At regular intervals, you should unplug the power plug 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.

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- 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 power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.
- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.



• Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 16).

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- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.
- Install only the specified circuit board (SRX series). Remove only the specified screws (p. 142, p. 144, p. 146, and p. 148).
- Should you remove screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

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In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- 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.
- Although the LCD and LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

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.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

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, non-abrasive 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.

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 a memory card, or in another MIDI device (e.g., a sequencer).
- Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory, a memory card, or another MIDI device (e.g., a sequencer) 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.
- 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.
- A small amount of heat will radiate from the unit during normal operation.
- 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.
- Use a cable from Roland to make the connection. If using some other make of connection cable, please note the following precautions.
 - 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.

Before Using Memory Cards

Using Memory Cards

• Carefully insert the Memory card all the way in—until it is firmly in place.



• Never touch the terminals of the Memory card. Also, avoid getting the terminals dirty.

Installing the card protector

The MC-909 provides a card protector to prevent theft of the memory card. To install the card protector, use the following procedure.

- **1.** Use a screwdriver to remove both screws that are at either side of the memory card slot.
- **2.** Insert the memory card into the memory card slot.
- **3.** Use the screws to fasten the card protector as shown below.

Card protector

Side view

Copyright

- Unauthorized recording, distribution, sale, lending, public performance, broadcasting, or the like, in whole or in part, of a work (musical composition, video, broadcast, public performance, or the like) whose copyright is held by a third party is prohibited by law.
- When exchanging audio signals through a digital connection with an external instrument, this unit can perform recording without being subjected to some of the restrictions of the Serial Copy Management System (SCMS). This is because the unit is intended solely for musical production, and is designed not to be subject to restrictions as long as it is used to record works (such as your own compositions) that do not infringe on the copyrights of others. (SCMS is a feature that prohibits second-generation and later copying through a digital connection. It is built into MD recorders and other consumer digital-audio equipment as a copyright-protection feature.)
- 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 third-party copyrights arising through your use of this unit.
- * Microsoft and Windows are registered trademarks of Microsoft Corporation.
- * Windows® is known officially as: "Microsoft® Windows® operating system."
- * Apple and Macintosh are registered trademarks of Apple Computer, Inc.
- * Mac OS is a trademark of Apple Computer, Inc.
- * SmartMedia is a trademark of Toshiba Corp.

Contents

USING THE UNIT SAFELY	3
IMPORTANT NOTES	5
Features of the MC-909	13
Panel Descriptions	14
Top Panel Rear Panel	
Getting Ready	16
Making Connections Turning On/Off the Power	
An Overview of the MC-909	17
Basic structure of the MC-909	
The sound generator section	
The sequencer section	
The controller section	
The sampler section	
Adjusting the display contrast Editing a value	
Quickly changing a value	
Saving your data	
Regarding the locations where samples are stored	
Restoring the factory settings (Factory Reset)	

Pattern Mode21

How Things Work (in Pattern mode)	22
Playing a pattern	24
Basics of pattern play	
Basic playback operation	
Selecting a pattern to play back	
Changing the BPM (Tempo)	
Turning the metronome (click) on/off	
Muting (silencing) a part	
Velocity pads	
Pattern Call	
RPS	
Arpeggiator	
Chord Memory	
Realtime Modify section	
Selecting the part whose sound you want to modify	
Part Mixer	
Mix In	
Directly outputting the sound of an external device	
Playing various pitches using the sound of an external device	
Selecting the input source device	
D Beam Controller	
SOLO SYNTH	
CUT + RESO (Cutoff + Resonance)	
TURNTABLE	
ASSIGNABLE (Other applications)	

Contents

Turntable emulation	
Auto Sync	
Effects	
Mastering	
Recording a pattern	37
Realtime recording	
Recording procedure	
Rehearsal	
Realtime Erase	
Recording Cancel	
TR-REC	
Recording procedure	
About the timing scale	
Step recording	
Recording procedure	
Tempo/mute recording	
Pattern editing	43
Basic procedure for pattern editing	
Extract a Rhythm Instrument	
Pattern Copy	
Erase	
Delete Measure	
Insert Measure	
Transpose	
Change Velocity/Change Duration	
Shift Clock	
Data Thin	
Edit Quantize	
Reclock	
Microscope	
Basic procedure in the Microscope	
Performance data that can be edited in the Microscope	
Inserting performance data (Create)	
Erasing performance data (Erase)	
Moving performance data (Move)	
Copying performance data (Copy) Editing a system exclusive message	
Saving a pattern	50
Patch/Sample Mode	51
How Things Work (in Pattern mode)	

Patch Edit	54
How a Patch Is Organized	
How a Tone Is Organized	
Tips for Creating a Patch	
Selecting a patch/rhythm set	
Selecting from a list	
Selecting directly	
Selecting the Tone(s) That Will Sound	

Patch editing procedure	
Editing from the Panel Knobs	
Detailed Editing	
Selecting a Tone to Edit	
Rhythm Edit	
How Percussion Instruments Are Organized	
Selecting the Wave(s) That Will Sound	
Rhythm editing procedure Selecting the rhythm tone to edit	
Selecting the wave that you want to edit	
Saving a Patch/Rhythm Set	77
Copying and Initializing a Patch/Rhythm Set	78
Copying a Patch Tone	
Initializing a Patch	
Copying a Rhythm Tone (Key) Initializing a Rhythm Set	
Song Mode	
How Things Work (in Song mode)	80
How Things Work (in Song mode) Playing songs Basic playback operation	82
Playing songs Basic playback operation Song Reset	
Playing songs Basic playback operation Song Reset Selecting a song to play	
Playing songs Basic playback operation Song Reset Selecting a song to play Changing the BPM or mute status	
Playing songs	
Playing songs Basic playback operation Song Reset Selecting a song to play Changing the BPM or mute status	
Playing songs	
Playing songs. Basic playback operation Song Reset Selecting a song to play Changing the BPM or mute status. Recording a song. Editing the setup parameters Song editing Clear All Steps Delete Step Insert Step Song Copy	
Playing songs	
Playing songs. Basic playback operation Song Reset Selecting a song to play. Changing the BPM or mute status. Recording a song. Editing the setup parameters Song editing Clear All Steps Delete Step Insert Step Song Copy	
Playing songs	
Playing songs	

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lastering effect	
ampling	109
low Things Work (in Sampling mode)	110
Sampling procedure	
Sampling	
Resampling	
Mix Sampling	
Auto Divide Sampling	
Solo Sampling	
Dividing a sample during sampling	
Sample Edit	
Basic sample editing procedure	
Zoom In/Out	
Setting the start/end points of the sample	
Sample List	
Sample Parameters	
Truncate	
Create Patch	
Chop	
Procedure for dividing a sample	
Automatically dividing a sample (Auto Chop)	
Auditioning the divided samples	
Create Rhythm	
Emphasis	
Combine	
Edit Time Stretch	
Normalize Amp	
*	
Saving a sample	
/lenu (in Sample Edit)	
Using the menu	
Loading a sample	
Loading all samples	
Importing WAV/AIFF data	
Deleting a sample	

Menu 125

System	
Panel/Controller	
Sequencer/MIDI	
Sound	
Sampling	
D Beam	
System Information	
Utility	
Import SMF	
Save As SMF	
Import WAV/AIFF	
Factory Reset	
User Backup	
User Restore	
MIDI	133
File Utility	
Initializing a memory card (Format)	
Deleting a file (Delete)	
Moving a file (Move)	
Copying a file	
USB	
USB communication procedure	
Canceling USB communication	
Cautions Regarding Folders and Files	
Undo/Redo	136

About V-LINK	
What is V-LINK?	
Connection examples	
Using V-LINK	
Turning V-LINK on	
Turning V-LINK off	
V-LINK settings	
Resetting the image	

Appendices141

Installing the Wave Expansion Board	142
Cautions When Installing a Wave Expansion Board	
How to Install a Wave Expansion Board Checking that a wave expansion board is installed correctly	
Installation de la carte d'extension Wave	
(French language for Canadian Safety Standard)	
Précautions à prendre lors de l'installation d'une carte d'expansion Wave Installation d'une carte d'expansion Wave	
Vérifier que la carte d'expansion Wave est installée correctement	
Expanding the Memory	146
Precautions for Expanding Memory	
How to Expand the Memory	
Removing the Memory Checking that memory is installed correctly	
Ajouter de la mémoire	
(French language for Canadian Safety Standard)	148
Précautions à prendre lors de l'ajout de mémoire	
Installation du module de mémoire Retrait du module de mémoire	
Vérifier que la mémoire est installée correctement	
Waveform List	150
Preset Patch List	151
Preset Rhythm Set List	154
Preset Pattern List	158
RPS Pattern List	160
RPS Set List	162
Song List	165
Arpeggio Style List	166
Chord Form List	167
SRX-05 Special Patch List	168
SRX-05 Special Rhythm Set List	169
MIDI Implementation Chart	170
Index	172
Specifications	175
Error Message List	177

Features of the MC-909

Cutting-edge groovebox that unifies MIDI and sampling

In a single unit, the MC-909 delivers the power of a conventional groovebox (an all-in-one synthesizer and sequencer) plus a full-fledged sampler. It's a new generation of workstation that gives you everything you need to perfect your music.

Built-in mastering functionality

A three-band compressor is built-in, letting you apply the mastering operations that are the indispensable final step in music production. The output of the MC-909 can be recorded directly to CD or MD.

Sample synthesis

Waveforms sampled by the MC-909 or loaded from an external source can be freely manipulated using the filter, LFO, and effects in the same way as the internal preset waveforms.

Full-fledged sampler

The high-performance 44.1 kHz sampler provides five sampling modes for various situations. You can sample external analog or digital input sources, or resample the internal sounds. The full range of editing functions includes Time Stretch and Chop. Memory can be expanded to a maximum of 256 MB by adding DIMM modules. When added to the internal 16 MB of RAM (approximately 3 minutes of monaural sampling), this gives you up to 272 MB (approximately 51 minutes of monaural sampling).

High-performance synthesizer sound generator

Features Roland's latest high-performance synthesizer sound generator, with 800 patches and 64 rhythm sets that are based on new waveforms created especially for the MC-909.

You can also install one wave expansion board (SRX series) to increase the waveforms available to you when the need arises. In particular, installing the SRX-05 "Supreme Dance" board will let you use special patches and rhythm sets created specifically for the MC-909.

The latest patterns for creative use and immediate performance

For immediate playing or for use in your own compositions, the MC-909 provides 215 preset patterns and 440 different RPS patterns, covering a broad range of current dance styles, including techno, trance, house, hiphop, and R&B.

Plenty of external interfaces

The MC-909 provides a USB connector for file transfer with your computer. Waveform data files in .WAV or .AIFF formats and SMF-format sequence data can be imported or exported between the MC-909 and your computer with the click of a mouse, as easily as if you were using an external drive.

Highly evolved turntable emulation, and dual D Beam controllers

By automatically time-stretching a sample according to the sequencer playback tempo, you can maintain playback synchronization between the sequencer and samples. This lets you use the turntable emulation slider to control the sequencer and sample BPM in real time. You can also specify the variable range of the slider.

In addition, the MC-909 features dual D Beam controllers, located at the left and right of the panel. This gives you the capability for special effects that have never been possible until now.

Easy creation of original patterns

With a large LCD, knobs and a mixer section that can be operated at any time to modify the sound directly, and newly developed velocity pads, the MC-909 is an ideal recording environment. You can use realtime, TR-REC, and step recording methods, and manipulate your music with editing functionality that goes well beyond previous grooveboxes.

The sequencer has also been upgraded, letting you create 16part patterns that are up to 998 measures long. SMF Convert Load/Save functions ensure easy data exchange with other sequencers.

Two multi-effects, a compressor, and reverb

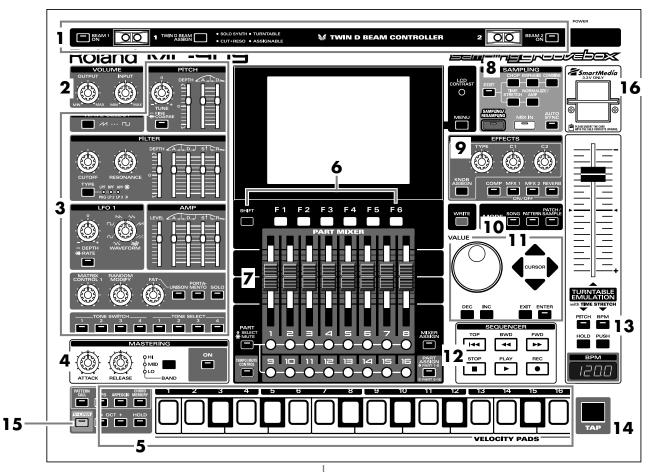
The two independent MFX units (multi-effects: MFX1 provides 38 types, MFX2 provides 47 types) provide a complete array of effects that are ready to go whenever you need them. In particular, MFX2 can produce long delays of up to four seconds. The two-band compressor is a great way to power-up rhythm instruments such kick drum. The acclaimed reverb from the XV series is also provided.

V-LINK function

V-LINK (**V-LINK**) is a function that provides for the play of music and visual material. By using V-LINK-compatible video equipment, visual effects can be easily linked to, and made part of the expressive elements of a performance. By connecting the MC-909 to the Edirol DV-7PR, you can switch images in synchronization with music, or use the MC-909's knobs to control the brightness, color, or playback speed of the images.

Panel Descriptions

Top Panel



1. D Beam Controllers

You can modify the patterns or sounds by passing your hand over these (p. 35).

2. Volume Section

Adjusts the output volume of the entire MC-909, and the input volume to the MC-909.

3. Realtime Modify Section

Modifies the tone (p. 33).

4. Mastering Section

Applies a mastering effect (compressor) (p. 108).

5. Velocity Pads

Used as a keyboard to play sounds or trigger phrases (p. 27).

6. Function Buttons

Access the screens for the functions shown in the bottom line of the screen.

7. Part Mixer Section

Adjusts the volume and pan for each part in the pattern (p. 33).

8. Sampling Section

Records external sounds into the MC-909 as waveforms, and processes them (p. 109).

9. Effect Section

Applies special effects to the sound (p. 88).

10. Mode Section

Selects Song mode (p. 79), Pattern mode (p. 21), or Patch/Sample mode (p. 51).

The button of the currently selected mode will light.

11. Cursor/Value Section

Used to select patterns or patches, and to input values (p. 18).

12. Sequencer Section

Used to play/record patterns or songs (p. 24, p. 82).

13. Turntable Emulation

Simulates the effect of changing the rotational speed of a turntable (p. 36).

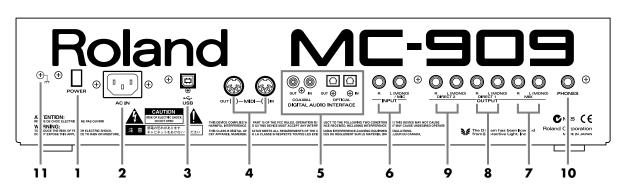
14. TAP Button Adjusts the BPM (tempo) according to the timing at which you tap this button (p. 25).

15. V-LINK Button Switches V-LINK (p. 137) on/off.

16. SmartMedia card slot

Insert a SmartMedia card (3.3V, maximum 128 MB) here.

Rear Panel



1. POWER Switch

Turns the MC-909's power on and off (p. 16).

2. AC Inlet

Connect the included power cable here (p. 16).

The unit should be connected to a power source only of the type marked on the bottom of the unit.

3. USB Connector

This connector lets you use a USB cable to connect your computer to the MC-909 (p. 135).

4. MIDI Connectors (IN, OUT)

These connectors connect the MC-909 with other MIDI devices, enabling the sending and receiving of MIDI messages (p. 16).

- IN: This connector receives messages from another MIDI device.
- **OUT:** This connector transmits messages to another MIDI device.

5. Digital Audio Interface

These are optical-type and coaxial-type S/P DIF format digital in/ out connectors.

S/P DIF: A digital interface format used in consumer digital audio devices.

The digital output connectors output the same audio signal as is output from the MIX OUTPUT jacks.

6. INPUT Jack

Accept input of audio signals in stereo (L/R) from external devices. If you want to use mono input, connect to the L jack.

MEMO

When recording from a mic, connect it to the L jack, and set Input Select (p. 34) to "MICROPHONE."

7. MIX OUTPUT Jacks

These jacks output stereo (L/R) audio signals to your amp or mixer. If you want to use mono output, connect to the L jack.

8. DIRECT 1 OUTPUT Jacks

The sound of the part/patch/rhythm set/tone/rhythm tone whose Output Assign (p. 88, p. 89, and p. 90) you set to "DIR1" is output in stereo (L/R) from these jacks to your amp or mixer. If you want to use mono output, connect to the L jack.

9. DIRECT 2 OUTPUT Jacks

The sound of the part/patch/rhythm set/tone/rhythm tone whose Output Assign (p. 88, p. 89, and p. 90) you set to "DIR2" is output in stereo (L/R) from these jacks to your amp or mixer. If you want to use mono output, connect to the L jack.

10. PHONES Jack

Headphones are plugged in here (p. 16).

11. Ground Terminal

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.

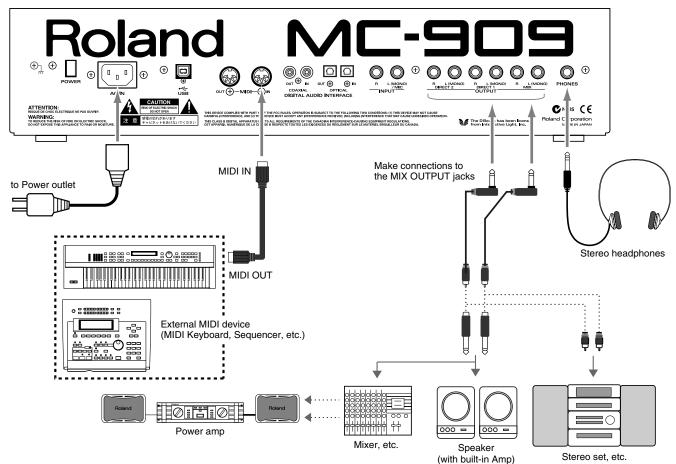
Unsuitable places for connection

- 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)

Making Connections

The MC-909 is not equipped with an internal amp or speakers. To hear sound, you will need to connect it to a keyboard amp or audio system, or connect headphones. Refer to the following figure when connecting the MC-909 with external devices.

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.



- **1.** Before making any connections, confirm that power to all devices has been turned off.
- **2.** Connect the AC power cord included with the MC-909 to the unit, then plug the other end into a power outlet.

Turning On/Off the Power

- * Once the connections have been completed (p. 16), 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.** Make sure that all volume controls on the MC-909 and connected devices are set to "0."
- **2.** Turn on the device connected to the INPUT Jacks.
- **3.** Turn on the MC-909's POWER switch.
- **4.** Turn on the devices connected to the OUTPUT Jacks.

- **3.** Connect audio and MIDI cables as shown in the diagram. If connecting headphones, plug the headphones into the PHONES jack.
- **5.** Adjust the volume levels for the devices.
- * 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.

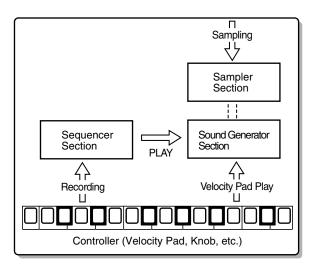
Turning Off the Power

Before switching off the power, lower the volume on each of the devices in your system and then TURN OFF the devices in the reverse order to which they were switched on.

* If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. Refer to **Power Supply** (p. 5).

Basic structure of the MC-909

This section provides an overview of the sequencer section, sound generator section, controller section, and sampler section, which make up the main parts of the MC-909.



The sound generator section

This is the section that actually generates the sound. It produces sounds in response to data received from the MC-909's Controller or Sequencer sections. You can also play the sound generator by sending it performance data from an external MIDI device. Since the sound generator section of the MC-909 is able to play up to 64 notes simultaneously, it can easily handle multiple parts.

Song

- Two or more patterns connected in the order of playback are called a song.
- In one song, you can register up to 50 patterns in the desired order of playback.

Pattern

A pattern is 1–998 measures of performance data consisting of sounds (patches or rhythm sets) for up to 16 parts. The MC-909 provides 215 different preset patterns.

Part

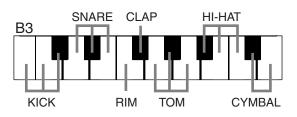
A part corresponds to a single musician in a band or orchestra. Since the MC-909 has sixteen parts, you can use sixteen different patches or rhythm sets to play as many as sixteen performances simultaneously.

Patch

A patch corresponds to a single instrument such as a piano or guitar. A patch consists of up to four "tones." The MC-909 provides 800 different patches, and you can enjoy an enormous variety of sounds simply by choosing from these patches.

Rhythm set

A rhythm set assigns a separate instrumental sound to each note of the keyboard. These instrumental sounds are not played as a scale. The MC-909 provides 64 preset rhythm sets. (Example)



Tones

Tones are the raw materials of sound that are combined to create a patch. The MC-909 provides 693 different waveforms, and two waveforms can be assigned to each tone. (Waveforms can be assigned in stereo; one for L and one for R.)

You can install separately sold wave expansion boards (SRX series) to add more waveforms, and sounds that you sample can also be used as waveforms.

Effects

Effects let you apply a variety of special effects to patches or rhythm sets. You can use four effects simultaneously: compressor (an effect that makes the sound more consistent), reverb (which adds reverberation), and two multi-effects (each selectable from 47 types such as equalizer, overdrive, and delay).

The sequencer section

A **sequencer** is a device that records musical performance data, and can play back the performance data that was recorded. The MC-909 is a sequencer that plays back patterns and adds changes to the playback method. This type of sequencer is referred to as a **pattern sequencer**.

Recording/playing a performance

The MC-909 comes with 215 previously prepared patterns (**preset patterns**). These preset patterns can be played back easily.

You can also create your own original patterns, either by modifying preset patterns or by creating a pattern from scratch.

Simultaneous playback of multiple parts

The MC-909 is able to play multiple sounds (patches) simultaneously. For example, with the following part configuration, you can simultaneously play drums, bass, piano and guitar; and the resulting performance will sound like a band.

Part 1	Guitar
Part 2	Bass
Part 3	Piano
Part 10	Rhythm (Drum) Set

Editing performance data

Unlike a cassette tape or MD, a sequencer records a performance as musical data (not as sound). It's easy to edit the performance data to create your own original patterns.

The controller section

The "controllers" of the MC-909 are its velocity pads, D Beam controllers, and the panel knobs and sliders. By operating these controllers you can modify the performance and sound in various ways.

Velocity pads

These pads function just like a music keyboard. They are also used to trigger RPS (p. 28) and the arpeggiator (p. 30). Normally, pad number 2 will be C4. The force with which you strike a pad will control the velocity (dynamics) of the note.

D Beam controllers

By passing your hand over these controllers you can play or modify sounds (p. 35).

Turntable emulation

These buttons and slider allow realtime synchronized performance with sound sources such as a turntable, assisting you with DJ performance (p. 36).

Realtime modify knobs

These knobs and sliders give you realtime control over sound parameters such as filter cutoff frequency and resonance or LFO speed.

The sampler section

A sampler is a device that captures sounds from a wave file or an external source such as a CD.

On the MC-909, a sampled sound can be handled just like an internal waveform of the sound generation section; you can change the pitch of the sampled sound, apply a filter to it, or modify its envelope.

Adjusting the display contrast

Use the [LCD CONTRAST] knob located at the right of the display to adjust the contrast.

Turn the knob toward the right to darken the screen, or toward the left to lighten it.

Editing a value

Use the [VALUE] dial to make large changes in a value, or use the [INC]/[DEC] buttons to change a value in steps of one. Your changes will affect the value that is displayed in white characters within a black frame in the screen. This location is called the "cursor." If a screen contains more than one value that can be edited, use the [CURSOR] buttons to move the cursor to the value you want to edit.

Quickly changing a value

• If you hold down [SHIFT] while you turn the [VALUE] dial, the value will change more rapidly.

Key Repeat function

- The value will continue changing if you press and hold [INC] or [DEC].
- The cursor will continue moving if you press and hold a [CURSOR] key.

Turbo Repeat function

- The value will increase rapidly if you hold down [INC], then press and hold [DEC].
- The value will decrease rapidly if you hold down [DEC], then press and hold [INC].
- The cursor will move rapidly if you hold down a [CURSOR] button and then press the opposite [CURSOR] button.

Saving your data

After editing settings or recording a performance, you must save your data if you want to keep the results. If you turn off the power without saving, your settings or recorded performance will be lost. For details on saving your data, refer to the following pages.

- Saving a pattern (p. 50)
- Saving a Patch/Rhythm Set (p. 77)
- Saving a song (p. 85)
- Saving a sample (p. 123)
- Saving a Pattern Set (p. 27)
- Saving an RPS set (p. 30)
- Saving an arpeggio style (p. 32)
- Saving a chord form (p. 33)



Saving takes several seconds. Do not turn off the power until saving is completed. Doing so may cause the MC-909 to malfunction.

Regarding the locations where samples are stored

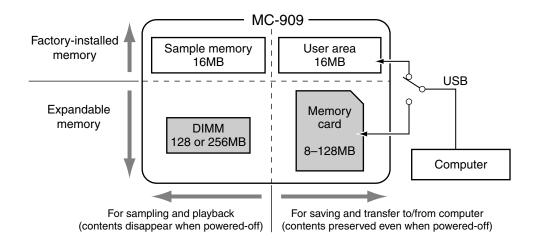
The MC-909 can use two types of memory; sample memory and DIMM whose contents are lost when you turn off the power, and user area and memory card whose contents are preserved even when the power is off.

When shipped from the factory, the MC-909 has 16 MB of sample memory and 16 MB of user area. By adding a DIMM module you can expand the sample memory to a maximum of 272 MB (if a 256 MB DIMM is used).

The user area can hold up to 16 MB, but by using a memory card you can store a maximum of 128 MB in addition to the user area.

When you record a sample on the MC-909 or play a patch that uses a sample, the sample is loaded into sample memory (including the DIMM). However when you turn off the power, the contents of the sample memory and DIMM will be lost. This means that if you want to keep the sample, you must use the Write operation to save it in the user area or on a memory card.

When managing data from your computer or from the MC-909's Utility menu, you can manage only the data located in the user area or the memory card. You cannot manage data that is located in sample memory or DIMM.



Be aware that because of this, the MC-909 can play samples larger than 128 MB, but **cannot save samples larger than 128 MB**.

Restoring the factory settings (Factory Reset)

Here's how to restore the settings of the MC-909 to their factory-set state.

NOTE

When you execute Factory Preset, **the data of the internal user memory will be lost**. If the internal memory of the MC-909 contains data that you want to keep, you must save it on SmartMedia or via USB to your computer.

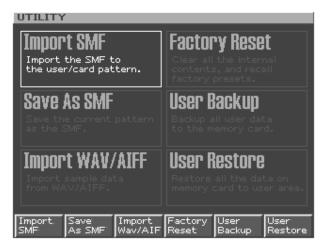
NOTE Never tu

Never turn off the power while Factory Reset is being executed. Doing so may destroy the contents of memory.

- **1.** Press [MENU].
- **2.** Use [CURSOR] to select "Utility."



3. Press [ENTER] to access the Utility menu.



- **4.** Press [F4 (Factory Reset)].
 - A warning message will appear.



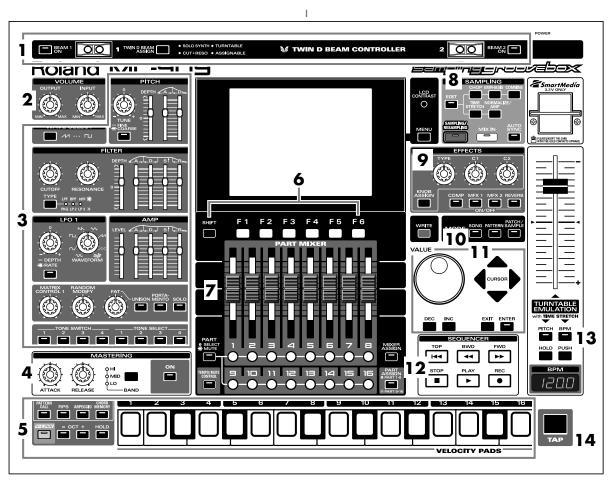
- To execute a Factory Reset, press [F6 (Execute)]. The Factory Reset will be carried out.
 - * If you decide not to proceed with the reset, press [F5 (Cancel)].

When the screen indicates "Please Power Off," turn the power off, then on again.

Pattern Mode

In this mode you can play, record, and edit patterns.

How Things Work (in Pattern mode)



When you press the Mode section **[PATTERN] button**, the button's indicator will light and the MC-909 will be in Pattern mode. In Pattern mode, the various parts of the panel will perform the following functions.

1. D Beam controllers

Pass your hand over these to modify the pattern (p. 35).

[BEAM 1 ON]	Turns the left D Beam controller
	(BEAM 1) on/off.
[BEAM 2 ON]	Turns the right D Beam controller
	(BEAM 2) on/off.
[TWIN D BEAM ASSIGN]	Selects the function of the D Beam
	controller.

2. Volume section

[OUTPUT]	Adjusts the output volume of the MIX OUT jacks and the headphone.	
[INPUT]	Adjusts the input volume from the INPUT jacks.	

3. Realtime Modify section

These controls modify the sound (p. 33).

4. Mastering section

[ON]	Switches the mastering effect (compressor) on/off.
[BAND]	Selects the frequency band to adjust.
[ATTACK]	Specify the time from when the volume goes up
	the threshold level until the compressor effect ap-
	plies.
[RELEASE]	Specify the time from when the volume falls below
	the threshold level until the compressor effect no
	longer applies.

5. Velocity pads

Use these pads as a keyboard to play sounds or trigger phrases (p. 27).

6. Function buttons

These buttons access the function screens indicated in the bottom line of the display.

How Things Work (in Pattern mode)

7. Part Mixer section

Here you can adjust the volume, pan, etc., of each part (p. 33).

[PART]	Selects the function of the Part buttons [1]–	
(SELECT/MUTE)	[16].	
	The buttons work as Part Select buttons	
	when the indicator is not lighted, and as	
	Mute buttons when the indicator is lit.	
[TEMPO/MUTE	Switches on/off the Tempo/Mute part (a	
CONTROL]	part that records tempo changes and mute	
	operations, p. 42).	
[MIXER ASSIGN]	When you press this button so its indicator	
	lights, the Mixer screen will appear.	
[PART ASSIGN]	Selects the parts that are controlled by the	
	sliders.	
	The sliders will control parts 1–8 if this indi-	
	cator is not lighted, or parts 9–16 if the indi-	
	cator is lit.	

8. Sampling section

[EDIT]	Displays the Sample Edit screen (p. 114).
[SAMPLING/RESAMPLING]	Displays the Sampling menu screen (p. 112).
[MIX IN]	Mixes the sound from the IN- PUT jack into the output (p. 34).
[AUTO SYNC]	Synchronizes a sample to the pattern (p. 36).

9. Effect section

Applies special effects to the sound (p. 88).

[COMP]-[REVERB]	Switch each effect on/off (p. 88).
[KNOB ASSIGN]	Selects the effect to be controlled in real
	time (p. 91).
[TYPE] Selects the type of effect.	
[C1], [C2]	Modifies the assigned function in real
	time.

10. Mode section

Press the [PATTERN] button to enter Pattern mode. Pressing one of the other two buttons will switch you to the corresponding mode.

11. Cursor/Value section

Use these buttons and dial to select patterns or input values (p. 18).

12. Sequencer section

[PLAY]	Plays a pattern (p. 24).
[STOP]	Stops playback/recording.
[FWD]	Advances to the next measure.
[BWD]	Returns to the previous measure.
[TOP]	Moves to the beginning of the pattern.
[REC]	Used when recording (p. 37).

13. Turntable emulation

Applies an effect that simulates increasing/decreasing the rotational speed of a turntable (p. 36).

14. TAP button

Lets you set the BPM (tempo) by pressing the button at the desired timing (p. 25).

Playing a pattern

Basics of pattern play

The top screen of Pattern mode



1. Current pattern

The pattern that is now playing

2. Next pattern

The pattern that will play next

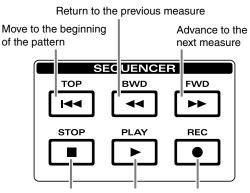
* "Len" is the number of measures (Length) of the pattern.

Function buttons

[F1 (List)]	Select a pattern from a list (p. 25).
(Pattern List)	
[F2 (Edit)]	Edit the settings of a pattern (p.
(Pattern Edit)	43).
[F3 (Mixer)]	Specify the volume, pan, etc., of
(Part Mixer)	each part (p. 33).
[F4 (Effects)]	Apply special effects to the sound
	(p. 88).
[F5 (Mastering)]	Make settings for the Mastering ef-
	fect (p. 108).
[F6 (BPM/Click)]	Set the tempo, and turn the metro-
	nome on/off (p. 25).
[SHIFT] + [F1 (Arp)]	Make arpeggiator settings (p. 30).
(Arpeggiator)	
[SHIFT] + [F2 (Chord Mem-	Register chords (p. 32).
ory)]	
[SHIFT] + [F3 (Pattern Call)]	Select a pattern set (p. 27).
[SHIFT] + [F4 (RPS)]	Make RPS settings (p. 29).
[SHIFT] + [F5 (System)]	Make settings that apply to the en-
(System Edit)	tire MC-909 (p. 126).
[SHIFT] + [F6 (Utility)]	Open the Utility menu (p. 131).
(Utility Menu)	

Basic playback operation

Use the following buttons to control the playback.



Stop playback Play back Used for recording

- * The [FWD], [BWD], and [TOP] buttons can also be used during playback.
- * * Press [STOP] twice to return to the beginning of the pattern.

Selecting a pattern to play back

There are two ways to select a pattern for playback; **directly**, or **from a list**.

Selecting a pattern directly

Selecting the current pattern

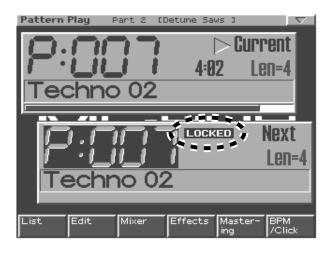
While the pattern is stopped, use [VALUE] or [INC/DEC] to select a pattern.

Selecting the next pattern

While the pattern is playing, use [VALUE] or [INC/DEC] to select a pattern.

When the current pattern finishes playing, the selected pattern will start playing.

* Shortly before the current pattern finishes playing, the word "LOCKED" will appear above the name of the next pattern. You will not be able to change the next pattern while this is displayed, since preparations are being made to move to that pattern.



MEMO

If you press [CURSOR (left/right)] while a pattern is playing, the pattern will change immediately, and will start playing from the beginning of the pattern.

Selecting a pattern from the list

1. Press [F1 (List)].

Pattern List CURRENT P:001 R&B 1	Len= 4 1:01
Num Name	Tempo Meas
P:001 R&B 1	J= 65.0 4
P:002 Euro Trance 1	J=138.0 8
P:003 Garage 1	J=130.0 4
P:004 Minimal 1	J=137.0 4
P:005 G-Funk 1	J= 77.0 4
P:006 Techno 1	J=132.0 8
P:007 Techno 2	J=130.0 4
P:008 Techno 3	J=128.0 4
P:009 Techno 4	J=132.0 4
➡ P:010 Techno 5	J=137.0 4
Preset User Card	Select Pattern

- 2. Press [F1 (Preset)], [F2 (User)], or [F3 (Card)] to choose the group that contains the desired pattern.
- 3. Use [VALUE], [INC/DEC] or [CURSOR (up/down)] to select a pattern.

If you hold down [SHIFT] while using the above controls, the pattern number will change in steps of ten.

4. Press [F6 (Select Pattern)] to finalize your selection.

[F1 (Preset)]	Choose preset patterns.
[F2 (User)]	Choose user patterns.
[F3 (Card)]	Choose patterns stored on a memory card.
[F6 (Select Pattern)]	Finalize the selected pattern.

BPM (tempo) when playing patterns successively

Each pattern has its own specified tempo (BPM). If you play back patterns successively, the tempo will also change when the pattern changes.

MEMO

If desired, you can maintain the tempo of the first-played pattern even while switching patterns (BPM Lock ->p. 128).

Changing the BPM (Tempo)

Using the [VALUE] dial

1. Press [F6 (BPM/Click)] to access the BPM window.



- **2.** Use [VALUE] or [INC/DEC] to set the BPM.
- **3.** Press [F6 (Close)] to close the BPM window.

MEMO

You can access the BPM window during TR-REC by pressing [SHIFT]+[F6], or during sampling by pressing [F4].

Using the TAP button

Press [TAP] **three or more times** at **quarter-note intervals** of the desired BPM.

* If desired, you can set the BPM by pressing [TAP] at eighth-note/ sixteenth-note intervals (Tap Resolution ->p. 127).

Turning the metronome (click) on/off

- 1. Press [F6 (BPM/Click)] to access the BPM window.
- Press [F5 (Click)] to select on or off. When on, the "✓" will be displayed.
- 3. Press [F6 (Close)] to close the BPM window.
- * The metronome volume adjustment is a System setting (Metronome Level -> p. 117)

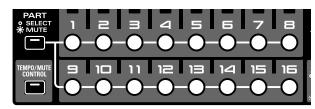
Selecting the metronome output destination

- 1. Press [F6 (BPM/Click)] to access the BPM window.
- 2. Press [CURSOR (up/down)] to move the cursor to "Output Asgn."
- **3.** Use [VALUE] or [INC/DEC] to select the output destination.

MIXOutput from the MIX OUT jacks and the headphones.DIR1Output from the DIRECT 1 OUTPUT jacks.DIR2Output from the DIRECT 2 OUTPUT jacks.

Muting (silencing) a part

A pattern contains sixteen parts. You can mute (silence) each part in real time.



- In the Part Mixer section, press [PART] (SELECT/ MUTE) so the indicator is lighted.
 Part buttons [1]–[16] now control part muting.
- 2. Press the button of the part that you want to mute, making it blink.

That part will be muted.

3. To cancel muting, press the button of the muted part once again, making it light.

The indicators of the part buttons show the muted state of the parts as follows:

- Lit: The part can be played.
- **Blinking:** The part is muted.
- Not lit: No performance has been recorded in the part. (The indicator will light when you record data.)

Mute Remain

This function maintains the mute status of each part while the next pattern plays. For example, this lets you play the next pattern without sounding the rhythm part.

1. During pattern playback, press [PLAY].

The screen will indicate "MUTE REMAIN."

2. Select the next pattern.

After a time, the selected pattern will play, with the mute settings of each part remaining as they were.

When the pattern changes, the Mute Remain function will automatically be cancelled.

* Mute Remain will be cancelled if you press [PLAY] once again before the pattern changes.

Solo

This function assigns play-ready status to one specified part, muting the others.

1. Hold down [SHIFT] and press the part button [1]–[16] of the part you want to play.

All parts other than the selected part will be muted.

All Parts Mute

This function mutes all parts at once.

1. Hold down [SHIFT] and press [PART ASSIGN]. The sound of all parts will be muted.

All Parts On

This function un-mutes all parts at once.

 Hold down [SHIFT] and press [MIXER ASSIGN]. Muting will be cancelled for all parts, so they are all allowed to play.

Mute Reverse

This function inverts the currently muted and currently playing parts.

1. Hold down [SHIFT] and press [TEMPO/MUTE CONTROL].

The status of parts that are currently muted changes, so they are allowed to play, while the parts that are currently playing will be muted.

Default Mute

This function restores the part mute settings to the state stored in the pattern.

1. Hold down [SHIFT] and press [PART] (SELECT/ MUTE).

The part mute settings will return to the state stored in the pattern.

About the setup parameters

On the MC-909, the following parameters allow their settings to be individually stored for each pattern. These parameters are collectively called the "setup parameters."

- BPM (Tempo) (p. 25)
- Patch/Rhythm set * (p. 55)
- Part Level * (p. 33)
- Part Pan * (p. 33)
- Part Key Shift * (p. 33)
- Part Reverb Level * (p. 33)
- Part Output Assign * (p. 55)
- Sequencer Output Assign * (p. 55)
- Reverb settings (p. 90)
- Compressor settings (p. 89)
- Multi-effect settings (p. 90, p. 92)
- Part mute status * (p. 26)
- Auto Sync on/off * (p. 36)
- * The asterisk indicates parameters that can be set for each part.

Velocity pads

These pads work just like a keyboard. They can also be used to play RPS and the arpeggiator. Normally, pad number 2 will be C4. The force with which you strike the pads will vary the dynamics (velocity) of the sound.

MEMO

You can also set velocity to a fixed value (Pad Velocity ->p. 127).

[HOLD]	If you press this button so its indicator lights,
	the sound will still be heard even after you
	take your finger off the velocity pad. The
	sound will stop when you press [HOLD]
	once again, extinguishing the indicator.
[OCT -]/[OCT +]	These buttons shift the range of the velocity
	pads in steps of one octave (maximum +/-4
	octaves).
	If you press both buttons simultaneously,
	the octave shift will be reset to 0.

Various ways to use the velocity pads

[PATTERN CALL]	The pads will recall patterns (Pattern	
	Call, p. 27).	
[RPS]	The pads will trigger phrases (RPS, p.	
	28).	
[ARPEGGIO]	The pads will play arpeggios (Arpeggia-	
	tor, p. 30).	
[CHORD MEMORY]	Produce chords by pressing a single pad	
	(Chord Memory, p. 32).	

Pattern Call

You can use the sixteen velocity pads as buttons to select patterns. The patterns that are registered to each of the sixteen velocity pads are handled as one "pattern set." You are free to edit the contents of a pattern set, and can store 50 different sets. You can also switch between pattern sets during pattern playback.

MEMO

You can use this method to select either the current pattern or the next pattern.

* Pattern Call cannot be used in Song mode.

Using Pattern Call

- 1. Press [PATTERN CALL] so its indicator is lighted.
- 2. Press one of the velocity pads [1]–[16].

The pattern that is registered to the pad you pressed will be selected.

- * [HOLD] and [OCT +/-] will have no effect.
- * Pattern Call cannot be used simultaneously with RPS, arpeggiator, or chord memory.

Selecting a pattern set

1. Hold down [PATTERN CALL] and use [VALUE] or [INC/DEC] to select a set.

Registering a pattern in a Pattern Set

- 1. Select the pattern you want to register, so it is the current pattern.
- 2. Select the pattern set into which you want to register that pattern.
- 3. Hold down [PATTERN CALL], and press the velocity pad to which you want to register the pattern.

That pattern will be registered to the pad you pressed.

Saving a Pattern Set

Pattern Set settings that you have edited will be lost when you turn off the power. If you want to keep your changes, you must save them as follows.

1. Hold down [PATTERN CALL] and press [F6 (PtnCall Setting)].

Alternatively, hold down [SHIFT] and press [F3 (Pattern Call)]. The Pattern Call editing screen will appear.

2. Use [VALUE] or [INC/DEC] to select the pattern set that you want to save.

3. Press [WRITE].

The Write menu screen will appear. Make sure that "Pattern Set" is highlighted.

4. Press [ENTER] or [F4 (PCL)].

5. Assign a name to the pattern set.

For details on how to assign a name, refer to "Saving a pattern" (p. 43).

6. When you finish inputting the name, press [F6 (Write)].

A message will ask you for confirmation.

- 7. To save the pattern set, press [F6 (Execute)].
 - * To cancel without saving, press [F5 (Cancel)].

MEMO

Patterns that are registered in a pattern set allow you to specify setup parameters that are different than in conventional pattern mode.

RPS

Any phrase that's been assigned to one of the sixteen velocity pads will continue playing as long as you hold down its pad. The phrases that are registered to the sixteen velocity pads are handled as one "RPS set." You are free to edit the contents of an RPS set, and can store 50 different sets. You can also switch between RPS sets during pattern playback.

Using RPS

- 1. Press [RPS] so its indicator is lighted.
- 2. Press one of the velocity pads [1]-[16].

The phrase that is registered to the pad you pressed will continue playing.

- * [OCT +/-] will have no effect.
- * RPS cannot be used simultaneously with pattern call, arpeggiator, or chord memory.

RPS Hold

You can make a phrase continue playing even after you release your finger from the velocity pad.

- To hold all phrases
- 1. Press [HOLD] so the indicator is lit.
- 2. Press a velocity pad to play a phrase.

You can stop that phrase by pressing the same pad once again.

- To hold individual phrases
- 1. Hold down [HOLD] and press a velocity pad to play a phrase.

[HOLD] will blink, and that phrase will continue playing until you press the same pad once again.

 To play a phrase that you want to hold, hold down [HOLD] and press the appropriate pad, as described in step 1.

The phrases will play together.

3. To play a phrase that you do not want to hold, press only the appropriate pad.

When you release your finger from the pad, that phrase will stop playing.

 In steps 1 and 2, you can also press [HOLD] while pressing the velocity pad to play the phrase, as an alternative to holding down [HOLD] and then pressing the pad.

MEMO

To stop all phrases, press [HOLD] so the indicator goes out.

Selecting an RPS set

1. Hold down [RPS] and use [VALUE] or [INC/DEC] to select a set.

Registering a phrase in an RPS set

- 1. Select the pattern that contains the phrase you want to register, so it is the current pattern.
- **2.** Mute all parts other than the single part you want to register in RPS.

Refer to p. 26 for details on muting.



You may find it convenient to use the Solo function (p. 26).

- **3.** Select the RPS set in which you want to register that phrase.
- 4. Hold down [RPS], and press the velocity pad to which you want to register the phrase.

That phrase will be registered to the pad you pressed.

<Note when assigning RPS>

- * It is not possible for multi-part phrases to be assigned to each of the velocity pads. You must mute all parts other than the part that contains the phrase you wish to assign. If you attempt to assign a phrase in which two or more parts are un-muted, the display will indicate "Cannot Assign Phrase!".
- * If you have assigned a phrase from a user pattern to RPS, and modify the performance data of the pattern that contains that phrase after it has been assigned, be aware that the phrase played by RPS will be affected by these modifications. For example if you delete the performance data of a pattern that contains an assigned phrase, no sound will be heard when you use RPS to play that phrase.
- * If you assign a phrase from a part that uses MFX, the MFX settings during RPS playback will be determined by the MFX settings of the currently selected pattern. This means that the RPS playback may sound different than the original phrase.

MEMO

Patterns that are registered in an RPS set allow you to specify setup parameters that are different than in conventional pattern mode.

RPS Settings

- Hold down [RPS] and press [F6 (RPS Setting)]. Alternatively, hold down [SHIFT] and press [F4 (RPS)]. The RPS setting screen will appear.
- 2. Use [CURSOR (up/down)] to select a parameter.
- 3. Use [VALUE] or [INC/DEC] to edit the parameter.

Parameter	Range	Explanation
RPS Set	01–50	RPS set to edit
RPS Part	Part 1–16	RPS part to edit
RPS Part Patch	—	Patch assigned to RPS part
Bank		
RPS Part Patch	—	
Number		
RPS Part Output	DRY, MFX1,	How the original sound of
Select	MFX2,	each part will be output
	COMP,	DRY: Output to MIX OUT-
	DIR1, DIR2,	PUT jacks without passing
	RHY	through effects
		MFX1 (2): Output through
		multi-effects 1 (or 2)
		COMP: Output through
		the compressor
		DIR1 (2): Output to the DI-
		RECT 1 (or DIRECT 2)
		jacks without passing
		through effects
		RHY: Output according to
		the settings of the rhythm
		set assigned to the part
Remote Key-	OFF, ON	Refer to p. 128.
board Switch		

<RPS Trigger Quantize>

When using RPS during pattern playback, patterns and phrases may not play back in precise alignment, depending on the timing at which you press the velocity pads. On the MC-909 you can specify the playback timing of the phrase, so it will play back in precise synchronization with the pattern. (RPS Trigger Quantize ->p. 128)

• REAL:

The phrase will play back immediately, at the timing at which you pressed velocity pads.

• 16TH, 8TH, QUARTER:

The pattern will be divided into selected note units, and when you press the velocity pads, the phrase will begin playing at the beginning of the next note unit.

• MEASURE:

The pattern will be divided into one-measure units, and when you press the velocity pads, the phrase will begin playing at the beginning of the next measure.

- * Except when this parameter is set to "REAL," pressing on the velocity pads slightly before the actual desired timing will help you synchronize the phrase to the pattern.
- * If the pattern is stopped, the phrase will play back immediately, regardless of the setting that is selected in the above procedure.

Adjusting the settings of the RPS parts

RPS playback uses dedicated RPS parts that are separate from conventional pattern playback. The patterns that are assigned to velocity pads [1]–[16] will play RPS parts 1–16. Here's how to adjust the settings of these RPS parts.

- Hold down [RPS] and press [F6 (RPS Setting)]. Alternatively, hold down [SHIFT] and press [F4 (RPS)]. The RPS setting screen will appear.
- 2. Press [F3 (RPS Mixer)].

The RPS Mixer screen will appear.



3. Use the part mixer section to adjust the volume, pan, etc. of RPS parts 1–16.

[PART ASSIGN]	Selects the RPS parts that will be controlled	
	by the sliders.	
	If this indicator is not lighted, parts 1–8	
	will be controlled. If lit, parts 9–16 will be	
	controlled.	
Sliders	Adjust the volume, pan, key, and reverb lev-	
	el of parts 1–8 or parts 9–16.	
Use [E1] [E4] to	Use [E1] [E4] to select a parameter and use the eliders to adjust	

Use [F1]--[F4] to select a parameter, and use the sliders to adjust the values.

Function button	Parameter adjusted by the sliders	
[F1 (Level)]	Volume of the RPS part	
[F2 (Pan)]	Left/right position of the RPS part	
[F3 (Key Shift)]	Transposition of the RPS part	
	The pitch will change in semitone steps	
	over a range of $+/-4$ octaves.	
[F4 (Reverb Level)]	Reverb level of the RPS part	

* You can also use [CURSOR] to select a part and parameter, and then use [VALUE] or [DEC/INC] to adjust the value.

4. Press [F6 (Close)] to close the RPS Mixer screen.

Playing a pattern

RPS realtime modify

You can use the panel knobs and sliders to modify the sound of the phrase being played by RPS.

- 1. Press [RPS] to make the indicator light.
- **2.** Press a velocity pad to play back a phrase.
- **3.** While holding down a pad, you can operate the following knobs and sliders to modify the sound of the phrase.

PITCH:FINE/COARSE TUNE, ENV DEPTH/A/DFILTER:CUTOFF, RESONANCE, ENV DEPTH/A/D/S/RAMP:LEVEL, ENV DEPTH/A/D/S/RLF01:PITCH DEPTH, FILTER DEPTH, AMP DEPTH,
PAN DEPTH, RATE, WAVEFORM

- * Your changes will affect the sound of the phrase assigned to the pad you pressed last.
- * If you take your finger off the pads, the changes you make will apply to the sound of the current part. The same is true even if you are playing back a phrase with [HOLD] turned on.
- * Operating MATRIX CONTROL 1, RANDOM MODIFY, or FAT will always affect the sound of the current part.

Saving an RPS set

The edited settings of an RPS set will be lost when you turn off the power. If you want to keep the settings you edited, save the RPS set as follows.

1. Hold down [RPS] and press [F6 (RPS Setting)].

Alternatively, hold down [SHIFT] and press [F4 (RPS)]. The RPS setting screen will appear.

2. Use [VALUE] or [INC/DEC] to select the RPS set that you want to save.

3. Press [WRITE].

The Write menu screen will appear. Make sure that "RPS Set" is highlighted.

4. Press [ENTER] or [F3 (RPS)].

5. Assign a name to the RPS set.

For details on how to assign a name, refer to "Saving a pattern" (p. 50).

6. When you finish inputting the name, press [F6 (Write)].

A message will ask you for confirmation.

7. To save, press [F6 (Execute)].

* To cancel without saving, press [F5 (Cancel)].

Arpeggiator

The MC-909's Arpeggiator function lets you perform arpeggios (chords in which notes are played in succession, one note at a time) just by playing the chords, using the notes in the chords you play. Not only can you use the factory-set arpeggio styles, which determine the way the arpeggio is played, but you can also freely rewrite styles.

Using the arpeggiator

- 1. Press [ARPEGGIO] so its indicator is lighted.
- 2. Press a chord using the velocity pads.

An arpeggio will play according to the specified arpeggio style.

* Arpeggiator cannot be used simultaneously with Pattern Call or RPS.

Selecting an arpeggio style

1. Hold down [ARPEGGIO] and use [VALUE] or [INC/ DEC] to select a style.

Making arpeggiator settings

Here's how to change the way that the arpeggio is sounded.

- Hold down [ARPEGGIO] and press [F6 (Arp Setting)]. Alternatively, hold down [SHIFT] and press [F1 (Arp)]. The arpeggiator setting screen will appear.
- 2. Use [CURSOR (up/down)] to select a parameter.
- 3. Use [VALUE] or [INC/DEC] to edit the parameter.

Using in Combination with the Chord Memory Function

When performing with the Arpeggiator, you can also use it along with the Chord Memory (p. 32). After first storing complex Chord Forms in memory, you can then call them up when Arpeggiator is on, and you can easily create complex arpeggio sounds just by pressing a single pad.

Parameter	Explanation
Arpeggio	Sets the particular note division and resolution in a
Grid (Grid	"single grid" used in creating the arpeggio in an Ar-
Type)	peggio Style, and how much of a "shuffle" syncopa-
	tion is to be to applied (none/weak/strong) to it.
	1/4: Quarter note
	1/8: Eighth note
	1/8L: Eighth note shuffle Light
	1/8H: Eighth note shuffle Heavy
	1/12: Eighth note triplet
	1/16: Sixteenth note
	1/16L: Sixteenth note shuffle Light
	1/16H: Sixteenth note shuffle Heavy
	1/24: Sixteenth note triplet

Parameter	Explanation
Arpeggio	Selects the method used to play sounds when you
Motif	have a greater number of notes than programmed for
	the Arpeggio Style.
	UP(L): Only the lowest of the pads pressed is
	sounded each time, and the notes play in order
	from the lowest of the pressed pads.
	UP(L&H): Notes from both the lowest and highest
	pressed pads are sounded each time, and the notes
	play in order from the lowest of the pressed pads.
	UP(): The notes play in order from the lowest of
	the pressed pads. No one note is played every time
	DOWN(L): Only the lowest of the pads pressed is
	sounded each time, and the notes play in order
	from the highest of the pressed pads.
	DOWN(L&H): Notes from both the lowest and
	highest pressed pads are sounded each time, and
	the notes play in order from the highest of the
	pressed pads.
	DOWN(_): The notes play in order from the high-
	est of the pressed pads. No note is played every
	time.
	UP&DOWN(L): Only the lowest of the pads
	pressed is sounded each time, and the notes in the
	arpeggio are played in order from the lowest of the
	pressed pads and then back again in the reverse or
	der.
	UP&DOWN(L&H): Notes from both the lowest and
	highest pressed pads are sounded each time, and
	the notes play in order from the lowest of the
	pressed pads and then back again in the reverse or
	der.
	UP&DOWN(_): The notes play in order from the
	lowest of the pressed pads, and then back again in
	the reverse order. No note is played every time.
	RANDOM(L): While only the lowest of the pads
	pressed is sounded each time, the notes in the ar-
Amogaia	peggio are played in random order.Determines whether the sounds are played staccato
Arpeggio Duration	(short and clipped), or tenuto (fully drawn out).
Duration	30–120%: For example, when set to "30," the
	length of the note in a grid (or when a series of
	grids is connected with ties, the final grid) is 30% of
	the full length of the note set in the grid type.
	FULL: Even if the linked grid is not connected with
	a tie, the same note continues to sound until the
A ====================================	point at which the next new sound is specified.
Arpeggio	Adds an effect that shifts arpeggios one cycle at a
Octave	time in octave units. You can set the shift range up-
Range	wards or downwards (up to three octaves up or
D (down).
Remote	Refer to p. 128.
Keyboard	
Switch	

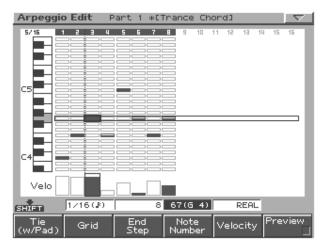
Creating an arpeggio style

- 1. Hold down [ARPEGGIO] and press [F6 (Arp Setting)]. Alternatively, hold down [SHIFT] and press [F1 (Arp)]. The arpeggiator setting screen will appear.
- 2. Press [F4 (Arp Edit)].

The arpeggio style input screen will appear.

3. Use the function buttons and [VALUE] or [INC/DEC] to specify the note that you want to input.

You can also use **[CURSOR (up/down)]** to select the note number.



 To input data, press a pad that corresponds to the timing at which you want to input a note, so the pad's indicator lights.
 To delete a note you've input, press the

corresponding pad so its indicator goes out.

* You cannot edit the velocity of a note message once you input it. If you want to change the velocity, you must delete the note and re-input it.

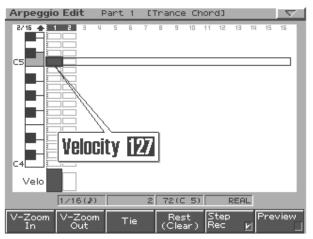
 $[\]ast$ A maximum of sixteen notes (specified pitches) can be used in one style.

,		
[F1 (Tie)]	By holding down [F1 (Tie)] and pressing a pad,	
	you can extend the length of the previously in-	
	put note by the current setting.	
[F2 (Grid)]	Sets the particular note division and resolution	
	in a "single grid" used in creating the arpeggio	
	in an Arpeggio Style, and how much of a "shuf-	
	fle" syncopation is to be to applied (none/	
	weak/strong) to it.	
	1/4: Quarter note	
	1/8: Eighth note	
	1/8L: Eighth note shuffle Light	
	1/8H: Eighth note shuffle Heavy	
	1/12: Eighth note triplet	
	1/16: Sixteenth note	
	1/16L: Sixteenth note shuffle Light	
	1/16H: Sixteenth note shuffle Heavy	
	1/24: Sixteenth note triplet	
[F3 (End Step)]	Specifies the style length	
	Range: 1–32	
[F4 (Note Num-	Specifies the pitch of the note to be input.	
ber)]	Range: 0 (C-1)–127 (G9)	
[F5 (Velocity)]	Specify the velocity (volume) of the note mes-	
	sages you will input.	
	Range: REAL, 1–127	
	* If this is set to REAL, your playing strength	
	on the pads will vary the dynamics.	
[F6 (Preview)]	Audition arpeggio currently being input. (The	
	operation is the same when [SHIFT] is held.)	
[SHIFT] +	Zoom-in the arpeggio style input screen.	
[F1 (V-Zoom In)]		
[SHIFT] +	Zoom-out the arpeggio style input screen.	
[F2 (V-Zoom Out)]		
[SHIFT] +	Input a tie at the cursor location, and advance to	
[F3 (Tie)]	the next step.	
[SHIFT] +	Delete all data at the step where the cursor is lo-	
[F4 (Rest (Clear))]	cated.	
[SHIFT] +	If you press this to add a check mark, you will	
[F5 (Step Rec)]	be able to input data for individual notes (p. 32).	
5. When you fir	hish inputting the arpeggio style, press	

5. When you finish inputting the arpeggio style, press [EXIT].

Step-recording an arpeggio style

You can create an arpeggio style by inputting and editing individual notes.



- In the arpeggio style input screen, hold down [SHIFT] and press [F5 (Step Rec)] to apply a check mark. [SHIFT] will be locked.
- 2. Use [CURSOR (up/down)] to select the note number, and [CURSOR (left/right)] to select the step.
- **3.** Use [VALUE] or [INC/DEC] to edit the data at the cursor (velocity: OFF, 1–127, Tie).
- * You can also strike a velocity pad to input a note for the corresponding note number.

[F1 (V-Zoom In)]	Zoom-in the arpeggio style input screen.	
[F2 (V-Zoom Out)]	Zoom-out the arpeggio style input screen.	
[F3 (Tie)]	Input a tie at the cursor location, and advance	
	to the next step.	
[F4 (Rest (Clear))]	Delete all data at the step where the cursor is lo-	
	cated.	
[F6 (Preview)]	Audition arpeggio currently being input. (The	
	operation is the same when [SHIFT] is held.)	

If you press [F5 (Step Rec)] and clear the check mark, you are returned to the normal input screen.

Saving an arpeggio style

A arpeggio style you create will be lost when you turn off the power. If you want to keep your settings, save them as follows.

1. Hold down [ARPEGGIO] and press [F6 (Arp Setting)].

Alternatively, hold down [SHIFT] and press [F1 (Arp)]. The arpeggiator setting screen will appear.

2. Press [F6 (Arp Write)].

A screen will appear in which you can select the user arpeggio style to which your settings are to be written.

- **3.** Use [VALUE] or [INC/DEC] to select the arpeggio style that you want to save.
- 4. Press [F6 (Write)].

A message will ask you for confirmation.

5. To write the data, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

Chord Memory

You can play a previously registered chord form simply by pressing a single pad. You can use the factory-set chord forms, and are also free to rewrite them as desired.

Using chord memory

1. Press [CHORD MEMORY] so its indicator is lighted.

2. Press one of the velocity pads.

The pre-specified chord form will sound.

MEMO

When you press velocity pad [2] (C4), the chord form will sound at the pitch that was specified. Other pads will sound parallel chords at pitches relative to pad [2] (C4).

* Chord Memory cannot be used simultaneously with Pattern Call or RPS.

Selecting a chord form

1. Hold down [CHORD MEMORY] and use [VALUE] or [INC/DEC] to select a chord form.

Inputting a chord form

1. Hold down [CHORD MEMORY] and press [F6 (Chord Setting)].

Alternatively, hold down [SHIFT] and press [F2 (Chord Memory)].

The chord memory setting screen will appear.

2. Press [F4 (Chord Edit)].

The chord form input screen will appear.

3. Use the velocity pads to input the chord you want to sound.

Input the notes that you want to sound when velocity pad [2] (C4) is pressed.

The pads will light to indicate the notes that will sound.

If you press a pad once again, it will go dark and will not sound.

4. When you finish inputting the chord form, press [EXIT].

MEMO

While inputting the chord form, you can press [F6 (Preview)] to play the chord that you have input.

Saving a chord form

A chord form you create will be lost when you turn off the power. If you want to keep your settings, save them as follows.

1. Hold down [CHORD MEMORY] and press [F6 (Chord Setting)].

Alternatively, hold down [SHIFT] and press [F2 (Chord Memory)].

The chord memory setting screen will appear.

2. Press [F6 (Chord Write)].

A screen will appear in which you can select the user chord form to which your settings are to be written.

3. Use [VALUE] or [INC/DEC] to select the chord form that you want to save.

4. Press [F6 (Write)].

A message will ask you for confirmation.

5. To write the data, press [F6 (Execute)].

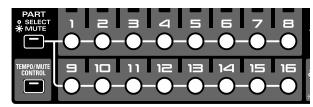
* To cancel, press [F5 (Cancel)].

Realtime Modify section

You can use the knobs and sliders of this section to modify the sound while it plays.

For details on the function of each knob and slider, refer to Patch mode (p. 51).

Selecting the part whose sound you want to modify



- In the Part Mixer section, press [PART] (SELECT/ MUTE) so the indicator is not lighted.
 Part buttons [1]-[16] will select parts.
- Press the button for the part whose sound you want to modify. The button will light. That part is now selected.

NOTE

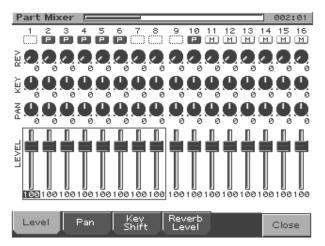
If you select a part to which a rhythm set is assigned, the FILTER section "TYPE" indicator will go out.

This is because a rhythm set lets you select a different filter type for each rhythm tone (percussion instrument).

Part Mixer

Here you can adjust the volume, pan, etc., of each part.

[PART]	Selects the function of part buttons [1]–[16].	
(SELECT/MUTE)	If this indicator is not lighted, the part	
	buttons will select parts. If lit, the part	
	buttons will mute parts.	
[TEMPO/MUTE	Switches the Tempo/Mute part (a part that	
CONTROL]	records tempo changes and mute opera-	
	tions, p. 42) on/off.	
[MIXER ASSIGN]	The Mixer screen will appear when you	
	press this button and get it to light.	
[PART ASSIGN]	Selects the parts that will be controlled by	
	the sliders.	
	If this indicator is not lighted, parts 1–8	
	will be controlled. If lit, parts 9–16 will be	
	controlled.	
Sliders	Adjust the volume of parts 1–8 or parts 9–16.	
	By accessing the Mixer screen, you can	
	also adjust the pan, key, and reverb depth	
	of each part (see illustration below).	



Use [F1]–[F4] to select a parameter, and use the sliders to adjust the values.

Function button	Parameter adjusted by the sliders	
[F1 (Level)]	Volume of the part	
[F2 (Pan)]	Left/right position of the part	
[F3 (Key Shift)]	Transposition of the part	
	The pitch will change in semitone steps	
	over a range of $+/-4$ octaves.	
[F4 (Reverb Level)]	Reverb level of the part	
[F6 (Close)]	Returns to the previous screen.	

* You can also use [CURSOR] to select a part and parameter, and then use [VALUE] or [DEC/INC] to adjust the value.

The letter displayed below the part number at the top of the Mixer screen indicates the status of each part, as follows:

- **P:** playable
- M: muted
- Blank: No performance has been recorded

Mix In

The sound of a device connected to the INPUT jacks or the digital in connector can be mixed into the output.

You can also use the velocity pads to play different pitches using the input sound.

Directly outputting the sound of an external device

- In the sampling section, press [MIX IN] so its indicator is lighted.
 The sound of the external device will be mixed into the output.
- **2.** To cancel the Mix In function, press [MIX IN] once again so its indicator goes out.

Playing various pitches using the sound of an external device

1. Press and hold [MIX IN].

The Mix In select sub window will appear.



2. Continuing to hold down [MIX IN], press [F6 (Velo Pads)] or turn [VALUE] to select "VELOCITY PADS."

The indicator will blink, and now you can use the velocity pads to change the pitch of the input sound.

3. Play the velocity pads.

You can control the pitch and duration just as on a conventional keyboard.

When you press pad 2 (C4), the input sound will be heard at its original pitch.

You can play the input sound in a range of 14 semitones higher (pad [16]) through 25 semitones lower (pad [1] with [OCT -] pressed twice) than the original pitch.

- * You cannot play chords.
- **4.** To cancel the Mix In function, press [MIX IN] once again so its indicator goes out.

Selecting the input source device

- **1. Press and hold [MIX IN].** The Mix In select sub window will appear.
- **2.** Press [F5 (Input Setting)]. The input setting screen will appear.
- 3. Press [CURSOR (up/down)] to move the cursor to the item that you want to set.
- 4. Use [VALUE] or [INC/DEC] to make the desired setting.

Parameter	Range	Explanation
Input Select	LINE IN L/R,	Input source of the external
-	LINE IN L,	input sound
	DIGITAL(OPT),	LINE IN L/R: INPUT jacks
	DIGITAL(CO-AX),	L/R (stereo)
	MICROPHONE	LINE IN L: INPUT jack L
		(mono)
		DIGITAL(OPT): Digital In-
		put (Optical)
		DIGITAL(CO-AX): Digital
		Input (Coaxial)
		MICROPHONE: INPUT
		jack (mono, mic level)
Mix-In	OFF, ON,	Switches Mix In on/off
	VELOCITY PADS	OFF: External input sound
		will not be used.
		ON: External input sound
		will be mixed into the out-
		put.
		VELOCITY PADS: The ve-
		locity pads can be used to
		play scales using the exter-
		nal input sound.
Ext Output	DRY, MFX1,	Output destination of the ex-
Asgn	MFX2, COMP	ternal input sound that is
(External		mixed in
Output		DRY: Output to MIX OUT-
Assign)		PUT jacks without passing
		through effects
		MFX1 (2): Output through
		multi-effects 1 (or 2)
		COMP: Output through
Ext Level L	0–127	the compressor
Ext Level L	0-127	Volume level of the external
Ext Level R	0–127	input sound (left channel) Volume level of the external
LXI Level K	0-12/	
Ext Reverb	0–127	input sound (right channel) Depth of reverb applied to
Send Level	0-12/	the external input sound
Jenu Level		Set this to 0 if you don't
		want to apply reverb.
		want to apply levelb.

Adjusting the volume of the external device

You can use the volume section's [INPUT] knob to adjust the volume of the external device.

* [INPUT] cannot adjust the volume of a device connected to the digital in connector. You will need to adjust the volume on the connected external device.

D Beam Controller

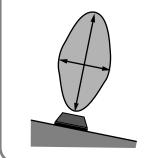
The D Beam controllers let you perform control operations simply by passing your hand over the controller. Three different uses (such as solo synth and turntable) for this controller are offered as presets, but by editing the settings you can use these controllers to apply a wide range of other effects.

[BEAM 1 ON]	Turns the left D Beam controller (BEAM 1) on/off.
[BEAM 2 ON]	Turns the right D Beam controller (BEAM 2) on/off.
[TWIN D BEAM	Selects the function of the D Beam controller.
ASSIGN]	Press to cycle through the available choic-
	es, which are: SOLO SYNTH, CUT+RESO,
	TURNTABLE, and ASSIGNABLE.

The effective range of the D Beam controller

The following diagram shows the effective range of the D Beam controller. Movements of your hand that occur outside of this range will not produce any effect.

* The effective range of the D Beam controller will be greatly reduced when it is used in strong, direct sunlight. Please be aware of this when using the D Beam controllers outdoors.



SOLO SYNTH

This is a monophonic synthesizer for which your left hand (beam 1) controls volume, and your right hand (beam 2) controls the pitch.

- 1. Press [D BEAM ASSIGN] so the "SOLO SYNTH" indicator is lighted.
- 2. Press [BEAM 1 ON] and [BEAM 2 ON] so both indicators are lighted.
- **3.** When you move your hand near beam 1, sound will be heard.
- After the sound begins, moving your hand closer to beam 1 will make the volume softer, and moving your hand away will make the volume louder.
- Moving your hand closer to beam 2 will raise the pitch, and moving your hand away will lower the pitch.
- * If the hand that is near beam 1 leaves the effective range of the D Beam controller, the volume will gradually diminish and finally the sound will disappear. This prevents the sound from remaining "stuck on."
- * You can change the pitch range (p. 130).

CUT + RESO (Cutoff + Resonance)

Your left hand (beam 1) controls the cutoff frequency of the filter (p. 59), and your right hand (beam 2) controls the resonance.

- 1. Press [D BEAM ASSIGN] so the "CUT+RESO" indicator is lighted.
- 2. Press [BEAM 1 ON] and [BEAM 2 ON] so both indicators are lighted.
- **3.** In the FILTER block, press [TYPE] to select Filter Type (p. 59).
- 4. Pass your hands over beams 1/2 to control the sound of the current part.
 - Moving your hand closer to beam 1 will raise the cutoff frequency, and moving your hand away will lower it.
 - Moving your hand closer to beam 2 will increase the resonance, and moving your hand away will decrease it.

NOTE

If the Filter Type has been set to LPF2 or LPF3, the resonance setting will have no effect, so moving your hand over beam 2 will not affect the sound.

MEMO

You can adjust the variable range of the parameters (p. 130).

TURNTABLE

Your left hand (beam 1) controls the tempo (BPM), and your right hand (beam 2) controls the pitch.

- 1. Press [D BEAM ASSIGN] so the "TURNTABLE" indicator is lighted.
- 2. Press [BEAM 1 ON] and [BEAM 2 ON] so both indicators are lighted.
- **3.** Pass your hands over beams 1/2 to control the BPM and pitch of all parts.
- Moving your hand closer to beam 1 will slow down the tempo.
- Moving your hand closer to beam 2 will lower the pitch.
- * If your hand leaves the effective range of the D Beam controller, the sound will return to the original BPM and pitch.

MEMO

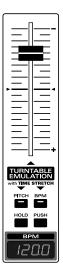
You can also set it so moving your hand closer to the D Beam controller will increase the tempo and raise the pitch (p. 130).

ASSIGNABLE (Other applications)

Refer to the D Beam controller-related parameters (p. 130) in the System settings.

Turntable emulation

You can use this slider and the [PUSH]/[HOLD] buttons to synchronize your performance with a turntable or other audio source.



01:1		1 .1 1.1	
Slider	The BPM will slow down as you move the slider up-		
	ward (toward "-"), and speed up as you move it		
	downward (toward "+").		
	The BPM will be the original value when the slider is		
	at the detent in the center of its range.		
	* You can also adjust the variable range of the slider		
	(p. 127).		
[PITCH],	These buttons select whether the slider and [HOLD]/		
[BPM]	[PUSH] buttons wi	ll control the pitch or the BPM.	
	РІТСН ВРМ	The pitch and BPM will both	
		change.	
	Both lit	This produces the same result	
	Both lit	as a turntable.	
	PITCH BPM	Only the pitch will change.	
		, , , , , , , , , , , , , , , , , , , ,	
	Only [DITCI1] 1:1		
	Only [PITCH] lit		
	PITCH BPM	Only the BPM will change.	
	Only [BPM] lit		
	PITCH BPM	Operating the slider or	
		[HOLD]/[PUSH] buttons will	
		not change the pitch or BPM.	
	Both not lighted	Use this setting if you want to	
		prevent the pitch and BPM	
		from changing when the slid-	
		er is touched accidentally.	
[HOLD]	Slows the performance to the minimum tempo of the		
'		r to match your performance with	
	the turntable.		
[PUSH]	Speeds up the performance to the maximum tempo		
[]	of the slider range in order to match your perfor-		
	mance with the turntable.		
L	mance whith the tur	inducie.	

MEMO

You can also assign other functions to the slider, such as pitch bend (p. 127).

NOTE

When playing a patch/rhythm set from a wave expansion board that uses waveforms with an indicated tempo (BPM), it will not be possible to control pitch and BPM independently.

Auto Sync

The playback tempo of a sample (waveform) you sampled or loaded from your computer can be automatically synchronized to the playback tempo of the pattern.



In order to use Auto Sync, you must first set the BPM (p. 116) sample parameter.

- 1. As the current part, select the part to which is assigned the patch that uses the sample that you want to auto-sync.
- **2. Press [AUTO SYNC] so its indicator is lighted.** The playback tempo of the sample will automatically synchronize to the BPM of the pattern.

MEMO

Auto Sync can be turned on/off independently for each part.

NOTE

Auto Sync requires double the usual polyphony. This means that if you turn Auto Sync on, the polyphony of the entire MC-909 will decrease.

Effects

See p. 88.

Mastering

See p. 108.

Recording a pattern

- 1. Use [VALUE] or [INC/DEC] to select the number of the pattern you want to record.
- 2. Press [REC].



3. Press [F1]–[F4] to select a recording method.

Function button	Recording method
[F1 (Realtime)]	Realtime Recording (p. 37)
	Data from the velocity pads,
	knobs, and external MIDI
	devices will be recorded in
	real time.
[F2 (TR-Rec)]	TR-REC (p. 39)
	The sixteen velocity pads
	represent notes, allowing
	you to input note data by
	switching each pad on or off.
[F3 (Step)]	Step Recording (p. 41)
	Successively record each
	note one after the other in a
	non-realtime fashion.
[F4 (Tempo/Mute)]	Tempo/Mute Recording (p.
	42)
	Record tempo changes or
	mute on/off events in real
	time.

The corresponding recording standby screen will appear.

4. Specify the time signature and length of the pattern, and then record.

For details, refer to the section on each recording method.

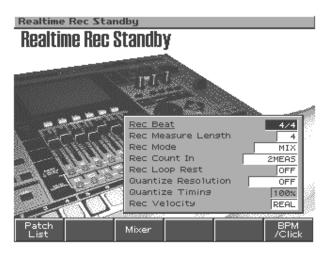
MEMO

The maximum number of notes per pattern is **approximately 30,000 notes**.

Realtime recording

This method lets you record your performance on the MC-909's velocity pads and D Beam controllers or an external MIDI keyboard. Knob and slider movements can also be recorded.

Standby screen



Parameter	Range	Explanation
Rec Beat	2/4-7/4,5/8-	Pattern time signature
	7/8,9/8,12/8,	* Can be specified only for an
	9/16, 11/16,	empty pattern.
	13/16, 15/16,	
D 14	17/16, 19/16	
Rec Measure	1–998	Pattern length
Length		* An already-recorded pattern
		can be made longer, but not
		shorter. To shorten it, use the
		pattern edit Delete Measure
		(p. 45) to delete one or more
	MIX	measures.
Rec Mode	MIX, REPLACE	Whether the recorded data will
	KELACE	be added to, or replace, the exist-
		ing data MIX: Newly recorded data
		will be added to the previous-
		ly-recorded data.
		REPLACE: Previously-re-
		corded data will be replaced
		by the newly-recorded data.
Rec Count In	OFF, 1 MEAS,	Length of the count before re-
	2 MEAS,	cording begins
	WAIT NOTE	If this is set to Wait Note, re-
		cording will start when you
		press a velocity pad or the
		[PLAY] button.
Rec Loop Rest	OFF, ON	Insert a blank measure before
		you return to the beginning of
		the pattern
		If this is ON, one blank mea-
		sure will be inserted before
		you turn to the first measure of the pattern.
		-
		* This provides a convenient way to keep the end of the last
		measure from being recorded
		into the first measure.
		into the motificadure.

Recording a pattern

Parameter	Range	Explanation
Quantize Res-	OFF,	Note value to which timing is to
olution	32nd note-	be corrected
	quarter note	If this is set to OFF, timing will
		not be corrected.
Quantize Tim-	0–100%	Degree to which timing will be
ing		adjusted.
		Settings near 0% will produce
		essentially no effect, while a
		setting of 100% will adjust the
		note timings all the way to the
		note locations specified in the
		Input Quantize Resolution.
Rec Velocity	REAL, 1–127	Volume (velocity) of the notes
		that you input from the velocity
		pads.
		If this is set to REAL, your
		playing strength on the pads
		will determine the velocity
		that is input.

Function buttons

[F1 (Patch List)]	Choose a patch/rhythm set from a list (p. 55).
[F3 (Mixer)]	Display the Mixer screen (p. 33).
(Part Mixer)	
[F6 (BPM/Click)]	Set the tempo, and turn the metronome on/
	off (p. 25).

Recording procedure

- 1. Select realtime recording (p. 37).
- 2. Press [PLAY], and start recording.

Realtime Recording

Realtime Recording



Perform using the velocity pads, D Beam controllers, or your external MIDI keyboard.

When you come to the last measure, recording will repeat from the first measure. You will also hear what's been recorded so far. Your performance during each pass of the recording will be added to the previously recorded data.

3. Press [STOP] to stop recording.

Controllers that can be recorded

- Velocity pads
- D Beam controllers
- Realtime modify knobs
- Turntable Emulation Slider *
 - *: Can be recorded only if assigned as pitch bender or modulation.

Selecting the part to record

- In the Part Mixer section, press [PART] (SELECT/ MUTE) so the indicator is not lighted.
 Part buttons [1]–[16] will select parts.
- 2. Press the button for the part that you want to record.

MEMO

You can select the part for recording even while you are recording.

Rehearsal

You can temporarily cease recording without actually halting the realtime recording operation. This lets you alternate between trying out ideas and actually recording, without having to actually perform "record" and "stop" operations each time.

1. During realtime recording, press [F4 (Rehearsal)] or [REC].

[REC] will blink, and you will be in rehearsal mode. No performance data will be recorded.

In this state you can try playing phrases before actually recording them.

2. Press [F4 (Rehearsal)] or [REC] once again, and you will resume recording.

Realtime Erase

During realtime recording, you can use the velocity pads or the realtime modify knobs to erase data.

1. Select the part from which you want to erase data.

Select a part in the same way as described in "Selecting the part to record" (p. 38).

2. During recording, press [F2 (Erase)].

The realtime erase window will appear.

🛛 🛛 🕮 🛛 🛛	rase
Erase Type CC CC#01 (Mo	
Note Ranse N	
Clos	se Erase

3. In the Erase Type field, choose the type of data that you want to erase.

ALL	All data
NOTE	Note messages
P-AFT	Polyphonic aftertouch
C-AFT	Channel aftertouch
CC	Control change
PC	Program change
BEND	Bend data
SYSEX	System exclusive data
BPM	Tempo change data
MUTE	Mute on/off
EXCEPT NOTE	All data other than note messages

* If you want to erase knob data, operate the corresponding knob of the panel to specify that data.

4. Erase the data.

- When "NOTE" has been selected, hold down two notes on the velocity pads or on an external MIDI keyboard, and all note messages within the region defined by those two notes will be erased while you continue holding down the notes.
- For other types of data, the data selected by Erase Type will be erased while you continue holding down [F5 (Erase)].
- 5. To return to recording mode, press [F5 (Close)] or [EXIT].

Recording Cancel

Here's how you can cancel the entire content of a recording, and return to the recording-standby state.

1. During recording, press [F5 (Rec Cancel)].

A message will ask for confirmation.

2. To carry out Recording Cancel, press [F6 (Execute)]. All the data that has been recorded from the time you pressed [PLAY] to start recording until you pressed [F5 (Rec Cancel)] will be discarded.

* To cancel, press [F5 (Cancel)].

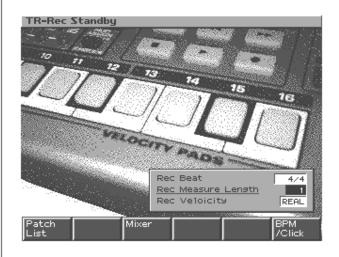
TR-REC

This is a recording method in which the velocity pads of the MC-909 are used as timing scale buttons to enter note messages.

You can input/delete notes by pressing the velocity pads to switch them between lit/extinguished. This is an easy way to specify the timing at which notes are to be placed.

* This method cannot be used to record data other than note messages (e.g., control changes produced by operating the realtime modify knobs).

Standby screen



Parameter	Range	Explanation
Rec Beat	2/4-7/4,5/8-	Pattern time signature
	7/8,9/8,12/8,	* Can be specified only for
	9/16, 11/16,	an empty pattern.
	13/16, 15/16,	
	17/16, 19/16	
Rec Measure	1–998	Pattern length
Length		* An already-recorded pat-
		tern can be made longer,
		but not shorter. To shorten
		it, use the pattern edit De-
		lete Measure (p. 45) to de-
		lete one or more measures.
Rec Velocity	REAL, 1–127	Volume (velocity) of the
		notes that you input from the
		velocity pads.
		If this is set to REAL, your
		playing strength on the
		pads will determine the ve-
		locity that is input.

Function buttons

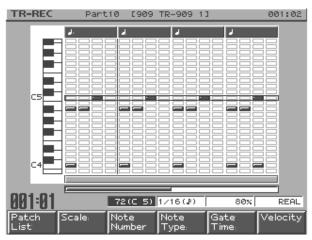
[F1 (Patch List)]	Choose a patch/rhythm set from a list (p. 55).
[F3 (Mixer)]	Display the Mixer screen (p. 33).
(Part Mixer)	
[F6 (BPM/Click)]	Set the tempo, and turn the metronome on/
	off (p. 25).

Recording procedure

1. Select TR-REC (p. 37).

2. Press [PLAY] to begin recording.

You will enter recording mode, and will hear the notes you enter played as a loop.



3. Use the function buttons and [VALUE] or [INC/DEC] to specify the note messages to enter.

You can also use **[CURSOR (up/down)]** to select the note number.

[F1 (Patch List)]	Chasse the metch / why them set from a list
[FI (Fatch List)]	Choose the patch/rhythm set from a list
	(p. 55).
[F2 (Scale)]	The timing scale (see the explanatory box
	on this page) of the velocity pads will
	change each time you press this.
[F3 (Note Number)]	Choose the pitch of the note to be input.
	For a rhythm set, this selects the rhythm
	tone to be input.
	Range: 0 (C-1)–127 (G9)
[F4 (Note Type)]	Choose the note value to be input.
	Range: 1/32–1/1
[F5 (Gate Time)]	Specify the gate time (the duration that the
	note will be held) for the note data to be in-
	put, as a proportion of the value you chose
	for Note Type.
	Range: 5–200%
[F6 (Velocity)]	Specify the velocity (volume) of the note
	data to be input.
	Range: REAL, 1–127
	* If you set this to REAL, the force with
	which you strike the pad will be input as
	the velocity value.
[SHIFT] +	Narrow the region of keys shown in the
[F1 (V-Zoom In)]	display.
	You can use this when you want to view
	an expanded display for specific notes.
[SHIFT] +	Broaden the region of keys shown in the
[F2 (V-Zoom Out)]	display.
	You can use this when you want to see
	which notes have been input.
[SHIFT] +	Set the tempo, and turn the metronome
[F6 (BPM/Click)]	on/off (p. 25).
	- · ·

MEMO

By holding down [SHIFT] and pressing [TOP] [BWD] [FWD], you can move the pattern playback location in the same way as during playback.

4. Use [CURSOR (left/right)] or [BWD/FWD] to move the note message input region

HINT

The bottom of the screen will always show two bars to indicate the input region shown in the screen and the current playback position of the pattern.

MEMO

If you press [TOP], the pattern playback location will return to the beginning of the input region shown in the screen.

5. To input data, press a pad that corresponds to the timing at which you want to input a note, so the pad's indicator lights.

To delete a note you've input, press the corresponding pad so its indicator goes out.



You cannot edit the note type, gate time, or velocity of a note message once you input it. If you want to change these parameters, you must delete the note and re-input it.

6. Press [STOP] to stop recording.

Selecting the part to record

- In the Part Mixer section, press [PART] (SELECT/ MUTE) so the indicator is not lighted.
 Part buttons [1]–[16] will select parts.
- 2. Press the button for the part that you want to record.

MEMO

You can select the part for recording even while you are recording.

About the timing scale

Each time you press [F2 (Scale)], the scale will alternate in the following order.

• 16th notes

Velocity pads [1]–[16] will correspond to a recording input region of one measure, and you will be able to input notes at 16th note intervals.

• 32nd notes

Velocity pads [1]–[16] will correspond to a recording input region of two beats, and you will be able to input notes at 32nd note intervals.

• 8th note triplets

Velocity pads [1]–[12] will correspond to a recording input region of one measure, and you will be able to input notes at 8th note triplet intervals.

• 16th note triplets

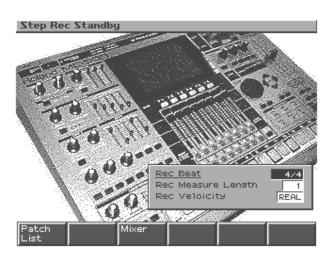
Velocity pads [1]–[12] will correspond to a recording input region of two beats, and you will be able to input notes at 16th note triplet intervals.

Step recording

This is a recording method in which you input note messages one by one.

* This method cannot be used to record data other than note messages (e.g., control changes produced by operating the realtime modify knobs).

Standby screen



Parameter	Range	Explanation
Rec Beat	2/4-7/4,5/8-	Pattern time signature
	7/8,9/8,12/8, 9/16,11/16, 13/16,15/16, 17/16,19/16	* Can be specified only for an empty pattern.
Rec Measure	1-998	Pattern length
Length		* An already-recorded pat- tern can be made longer, but not shorter. To shorten it, use the pattern edit De- lete Measure (p. 45) to de- lete one or more measures.
Rec Velocity	REAL, 1–127	Volume (velocity) of the notes that you input from the velocity pads. If this is set to REAL, your playing strength on the pads will determine the ve- locity that is input.

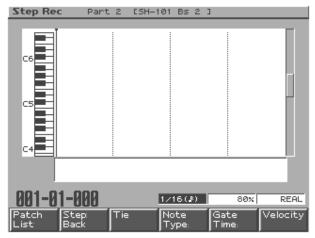
Function buttons

[F1 (Patch List)]	Choose a patch/rhythm set from a list (p. 55).
[F3 (Mixer)]	Display the Mixer screen (p. 33).
(Part Mixer)	

Recording procedure

- 1. Select step recording (p. 37).
- 2. Press [PLAY] to begin recording.

You are now ready to record.



 Use function buttons [F4]–[F6], and [VALUE] and [INC/DEC] to specify the length and velocity of the notes to input.

[F1 (Patch List)]	From a list, select the patch/rhythm
	set that you want to use (p. 55).
[F2 (Step Back)]	Cancel the previously input note.
[F3 (Tie)]	Extend the length of the previously
	input note by the current setting.
[F4 (Note Type)]	Select the type of note value that you
	want to input.
	Range: 1/32–1/1
[F5 (Gate Time)]	Specify the gate time (duration) of
	the note messages you will input, as
	a proportion of the note value you
	selected as the Note Type.
	Range: 5–200%
[F6 (Velocity)]	Specify the velocity (volume) of the
	note messages you will input.
	Range: REAL, 1–127
	* If this is set to REAL, your playing
	strength on the pads will vary the
	dynamics.
[SHIFT] + [F1 (V-	Narrow the range of keys shown in
Zoom In)]	the display.
	Use this when you want to view
	certain notes at greater magnifica-
	tion.
[SHIFT] + [F2 (V-	Expand the range of notes shown in
Zoom Out)]	the display.
	Use this when you want to see
	which notes have been input.

4. Use the velocity pads to input note messages.

The note number is selected by the pad you press. You can also input chords.

When you input a note message, the input position will advance by the value of the Note Type you specified.

- 5. Repeat steps 2 and 3 to input note messages.
- 6. When you are finished recording, press [STOP].

⊃attern Mode

Recording a pattern

Selecting the part to record

- In the Part Mixer section, press [PART] (SELECT/ MUTE) so the indicator is not lighted.
 Part buttons [1]–[16] will select parts.
- 2. Press the button for the part that you want to record.

MEMO

You can select the part for recording even while you are recording.

Moving the input location

- Pressing [CURSOR (right)] will move the input location forward by the current Note Type value.
- Pressing [CURSOR (left)] will move the input location backward by the current Note Type value.
- Pressing [FWD] will advance the input location by one measure.
- Pressing [BWD] will return the input location by one measure.

NOTE

You cannot move back to a position at which notes have already been input.

Moving the display region

- Pressing [CURSOR (up/down)] will move the displayed region of notes upward or downward.
- Holding down [SHIFT] and pressing [FWD] will move the displayed region one measure forward.
- Holding down [SHIFT] and pressing [BWD] will move the displayed region one measure backward.

Tempo/mute recording

Tempo/Mute Rec Standby Tempo/Mute Rec Standby



Tempo changes and mute operations can be recorded on the dedicated tempo/mute part.

The recording procedure is essentially the same as for realtime recording.

Parameter	Range	Explanation
Rec Beat	2/4-7/4,5/8- 7/8,9/8,12/8, 9/16,11/16, 13/16,15/16, 17/16,19/16	Pattern time signature * Can be specified only for an empty pattern.
Rec Measure Length	1–998	Pattern length
Rec Count In	OFF, 1 MEAS, 2 MEAS	Length of the count before re- cording begins
Rec Loop Rest	OFF, ON	Insert a blank measure before you return to the beginning of the pattern If this is ON, one blank measure will be inserted before you turn to the first measure of the pattern. * This provides a convenient way to keep the end of the last measure from being re- corded into the first mea- sure.

1. Select tempo/mute recording (p. 37).

2. Press [PLAY] to start recording.

Only changes in BPM (tempo) and changes in the part mute status will be recorded. No operations of the velocity pads, D Beam controllers, knobs, or sliders will be recorded.

- You can adjust BPM (tempo) by using [VALUE], [INC/DEC], or turntable emulation.
- For details on muting parts, refer to p. 26.
- 3. Press [STOP] to stop recording.

Pattern editing

Here's how you can edit the performance data of a pattern in units of measures. You can create completely new patterns by editing the performance data of a pattern, or by combining various patterns.

* You must stop the pattern before you can edit it.

Basic procedure for pattern editing

- 1. Select the pattern that you want to edit.
- 2. Press [F2 (Edit)] to access the Pattern Edit Menu screen.

Pattern Edit	Part 1 [Detune Saw]	∇
	001 005 009 013	
1 Detune Saw		
2 Buum Bass		- 1
3 Kickin' Synth		- 1
4 3D Flanger		- 1
5 Timed Hit		- 1
6 Sync'ed Pass		- 1
7 AiRye Bread-		- 1
8 DStTBSQR Atk		- 1
9 DStTBSQR Atk		- 1
10 909 TR-909 1		- 1
11 909 TR-909 1		- 1
12 909 TR-909 1		- 1
13 909 TR-909 1		- 1
14 909 TR-909 1		- 1
15 DStTBSQR Atk		- 1
16 DStTBSQR Atk		- 1
(Mute Control)		- 1
_001:01 <u>s</u> ⊴	ource From 1 Source End	8
Micro Scope Copy	Erase Delete Insert Tran: Measure Measure pos	

- 3. Select the region of measures that you want to edit.
 - Source From: first measure of the region

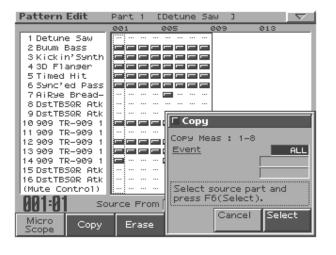
If you set this to "SETUP," the setup parameters (p. 18) will be included.

• **Source End:** last measure of the region If you set this to "SETUP," only the setup parameters will be

selected, and no measures will be included.

4. Use the function buttons to select the type of editing that you want to carry out.

The corresponding editing sub-window will appear.



[F1 (Micro Scope)]	Edit individual items of perfor-
	mance data within a pattern. (p.
	48)
[F2 (Copy)]	Copy a pattern. (p. 44)
[F3 (Erase)]	Erase unwanted data. (p. 45)
[F4 (Delete Measure)]	Delete unwanted measures. (p. 45)
[F5 (Insert Measure)]	Insert blank measures. (p. 45)
[F6 (Transpose)]	Transpose the pitch. (p. 45)
[SHIFT] +	Split the rhythm set. (p. 44)
[F1 (Extract Rhythm)]	
[SHIFT] +	Modify the strength/length of the
[F2 (Velocity Duration)]	notes. (p. 45)
(Change Velocity/	_
Change Duration)	
[SHIFT] + [F3 (Shift Clock)]	Slightly shift the timing. (p. 45)
[SHIFT] + [F4 (Data Thin)]	Thin out unnecessary data. (p. 46)
[SHIFT] +	Apply quantization. (p. 46)
[F5 (Edit Quantize)]	
[SHIFT] + [F6 (Reclock)]	Convert the note values. (p. 47)

- 5. Press the part button [1]–[16] and [TEMPO/MUTE] of the part(s) whose data you want to edit, illuminating the relevant indicator(s).
- 6. Set the parameters, and press [F6 (Execute)].
- * To cancel the procedure, press [F5 (Cancel)].

The procedures for Extract a Rhythm Instrument and Pattern Copy are explained on the next page.



When you are specifying the Note (Minimum/Maximum) in Pattern Edit, you can specify the Minimum and Maximum by pressing two velocity pads. First press Minimum, then press Maximum. If you press one velocity pad twice, the Minimum and Maximum will be the same.

Extract a Rhythm Instrument

This operation extracts data of a specific note number from the specified part, and moves it to a different part. You can use this to divide a rhythm set into separate parts for each instrument.

- In step 5 on the preceding page, press a part button
 [1]–[16] to select the move-source part; the button
 will light.
- 2. Select the note number that you want to move.
- 3. Press [F6 (Select)].
- 4. Press a part button [1]–[16] to select the movedestination part; the button will light.

5. Press [F6 (Execute)].

* To cancel the procedure, press [F5 (Cancel)].

Parameter	Range	Explanation
Src Part	1–16	Move-source part
Extract Note	0 (C-1)-127 (G9)	Note number to be moved
Dest Part	1–16	Move-destination part

- * If the move-source part does not contain any data of the note number specified by Extract Note, a message of "Cannot Extract!" will appear.
- * If the move-destination part contains no performance data, the setup parameters (p. 26) of the move-source part will be copied.
- * If the move-destination part does contain performance data, only the note data will be moved. This means that the note data will be played using the sound of the patch selected for the move-destination part.

Pattern Copy

This operation copies data from the current pattern to another pattern.

- 1. In step 5 on the preceding page, press a part button [1]–[16] or [TEMPO/MUTE CONTROL] to select the move-source part; the button will light.
- 2. Select the data that you want to copy.
- 3. Press [F6 (Select)].
- Press a part button [1]–[16] or [TEMPO/MUTE CONTROL] to select the move-source part; the button will light.

5. Press [F6 (Execute)].

* To cancel the procedure, press [F5 (Cancel)].

Parameter	Range	Explanation
Event	ALL, NOTE,	Data to be copied
	PROG, CC, BEND,	-
	PAFT, CAFT, SYS-	
	EX, BPM, MUTE	
Note Minimum	0 (C-1)–127 (G9)	Note region to be cop-
Note Maximum		ied
		* This can be specified
		only if Event is set to
		"NOTE."
Min	CC#0-CC#127	Control change mes-
Max		sage to be copied
		Messages in the
		specified range will
		be copied
		* This can be specified
		only if Event is set to
		"CC."
Dest Pattern	Preset, User, Card	Bank of the copy-desti
Dest Futtern	ricset, eser, eara	nation pattern
	1–650 (Preset)	Copy-destination pat-
	1–200 (User)	tern number
	1–999 (Card)	
Dest Meas	1-(last measure + 1)	First measure of the
		copy-destination
Dest Part	1–16	Copy-destination part
Copy Mode	REPLACE, MIX	How the copy will oc-
		cur
		REPLACE: The
		copy-destination
		data will be replaced
		by the copy-source
		data.
		MIX: The copy-desti
		nation data will be
		combined with the
		copy-source data.
Copy Times	1–998 (Max)	Number of times the
		data is to be copied

You can specify a copy-destination part (Dest Part) only if there is just one copy-source part. If there are two or more copy-source parts, they will be copied to the same parts of the copy-destination.

* When copying data from one part to another part within the same pattern, you can select only one part at a time.

Erase

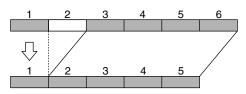
This operation erases all or part of the data from a pattern.

Parameter	Range	Explanation
Event	ALL, NOTE, PROG, CC, BEND, PAFT, CAFT, SYS-EX, BPM, MUTE	Data to be erased
Note Minimum Note Maximum	0 (C-1)–127 (G9)	Note region to be erased * This can be specified only if Event is set to "NOTE."
Min Max	CC#0-CC#127	Control change message to be erased Messages in the speci- fied range will be erased * This can be specified only if Event is set to "CC."

Delete Measure

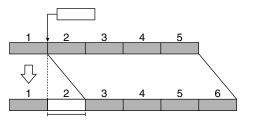
This operation deletes unwanted measures from a pattern, and joins the remaining measures together.

If a part contains data following the deleted region, the performance data of that part will be shortened by the corresponding length. If you specify all parts as the object of the delete operation, the pattern itself will be shortened.



Insert Measure

This operation inserts blank measures between the specified measure of a pattern and the following measure. If you want to add more playing in the middle of a existing performance, use this operation to insert one or more blank measures, and then record the additional performance. The inserted measures will have the same time signature as the time signature preceding the insert location.



Parameter	Range	Explanation
Insert Meas	1–998 (Max)	Number of measures to insert
		 You cannot specify a number that would cause the pattern to exceed 998 measures.

Transpose

This operation shifts the note numbers (pitch) of one or more parts in the pattern. You can transpose the notes in a range of +/-2 octaves.

Parameter	Range	Explanation
Value	-24-+24	Amount of transposition
Note Minimum	0 (C-1)–127 (G9)	Range of notes to be trans-
Note Maximum		posed

Change Velocity/ Change Duration

This operation modifies the velocity (strength) or duration (the length that the note is held) of the notes recorded in the pattern. You can use Change Duration to give the overall performance a staccato feel or tenuto feel.

Parameter	Range	Explanation	
Туре	VELOCITY,	Data to be modified	
	DURATION	VELOCITY:	
		Strength of the notes	
		DURATION:	
		Length of the notes	
When Type is "W	When Type is "VELOCITY"		
Value	-99-+99	Amount by which the ve-	
		locity is to be changed	
Note Minimum	0 (C-1)-127 (G9)	Range of notes whose ve-	
Note Maximum		locity is to be changed	
When Type is "E	When Type is "DURATION"		
Value	-960-+960	Amount by which the du-	
		ration is to be changed	
Note Minimum	0 (C-1)-127 (G9)	Range of notes whose du-	
Note Maximum		ration is to be changed	

MEMO

If this operation would result in a velocity greater than 127 (or less than 1), the resulting velocity data will be limited to 127 (or 1).

Shift Clock

This operation shifts the timing of the performance data recorded in the pattern backward or forward in units of one clock (1/96th of a beat). Use this when you want to slightly shift the overall performance.

Parameter	Range	Explanation
Value	-960-+960	Amount of clock shift
Event	ALL, NOTE,	Type of data whose timing
	PROG, CC,	is to be adjusted
	BEND, PAFT,	
	CAFT, SYS-EX,	
	BPM, MUTE	
Note Minimum	0 (C-1)-127 (G9)	Range of notes for which
Note Maximum		the timing is to be adjusted

Data Thin

Since data such as pitch bend or control change varies the value continuously, it can occupy an unexpectedly large amount of memory. The Data Thin operation thins out such data to reduce the amount of memory it occupies without audibly affecting the resulting playback. This lets you use the internal memory more efficiently.

Parameter	Range	Explanation
Value	0–99	Amount by which data is
		to be thinned
Thin Event	ALL, CC, BEND,	Type of data to be thinned
	PAFT, CAFT	

Edit Quantize

This operation corrects the timing of performance data recorded in the pattern, according to the timing criteria you specify.

Conventional quantization adjusts only the timing of the notes in the pattern as they are played back, without affecting the actual content of the data. However, the Edit Quantize operation lets you quantize the actual data itself.

Parameter	Range	Explanation
QTZ Type	GRID,	Type of quantization
	SHUFFLE,	
	GROOVE	
When Type is	"GRID"	
QTZ	1/32, 1/24,	Note value toward which notes
Template	1/16, 1/12,	are to be moved
-	1/8,1/6,	
	1/4	
QTZ Timing	0-100	Strength of quantization
		Higher settings of this parame-
		ter will cause the note timings
		to be moved closer toward
		their exact value.
When Type is	"SHUFFLE"	
QTZ	1/16,1/8	Note value toward which notes
Template		are to be moved
QTZ Timing	0–100	Amount of "shuffle" for back-
_		beats
		A setting of "50" will produce a
		"straight" rhythm with no
		shuffle. Settings in a range of
		60–66 will usually produce a
		pleasant shuffle feel.
When Type is	"GROOVE"	
QTZ	Refer to	Template to use
Template	"Groove	
	Template	
	List" (p. 46)	
QTZ Timing	0-100	Strength of timing adjustment
		Higher settings of this parame-
		ter will cause the note timings
		to be moved closer toward the
		timings of the template.
QTZ	0–100	Strength of velocity adjustment
Velocity		Higher settings of this parame-
		ter will cause the velocities to
		be adjusted closer toward the
		velocities of the template.

Groove Template List

16 Beat Dance type		
Dance-Nm-L.Ac	exact/low dynamics	
Dance-Nm-H.Ac	exact/high dynamics	
Dance-Nm-L.Sw	exact/light swing	
Dance-Nm-H.Sw	exact/strong swing	
Dance-Hv-L.Ac	dragging/low dynamics	
Dance-Hv-H.Ac	dragging/high dynamics	
Dance-Hv-L.Sw	dragging/light swing	
Dance-Hv-H.Sw Dance-Ps-L.Ac	dragging/strong swing rushing/low dynamics	
Dance-Ps-H.Ac	rushing/high dynamics	
Dance-Ps-L.Sw	rushing/light swing	
Dance-Ps-H.Sw	rushing/strong swing	
16 Beat Fusion 1		
Fuson-Nm-L.Ac		
Fuson-Nm-H.Ac	exact/low dynamics exact/high dynamics	
Fuson-Nm-L.Sw		
Fuson-Nm-H.Sw	exact/light swing exact/strong swing	
Fuson-Hv-L.Ac Fuson-Hv-H.Ac	dragging/low dynamics	
Fuson-Hv-H.Ac Fuson-Hv-L.Sw	dragging/high dynamics	
Fuson-Hv-H.Sw	dragging/light swing	
Fuson-Ps-L.Ac	dragging/strong swing rushing/low dynamics	
Fuson-Ps-H.Ac	rushing/high dynamics	
Fuson-Ps-L.Sw		
Fuson-Ps-H.Sw	rushing/light swing	
	rushing/strong swing	
16 Beat Reggae		
Regge-Nm-L.Ac	exact/low dynamics	
Regge-Nm-H.Ac	exact/high dynamics	
Regge-Nm-L.Sw	exact/light swing	
Regge-Nm-H.Sw	exact/strong swing	
Regge-Hv-L.Ac	dragging/low dynamics	
Regge-Hv-H.Ac	dragging/high dynamics	
Regge-Hv-L.Sw	dragging/light swing	
Regge-Hv-H.Sw	dragging/strong swing	
Regge-Ps-L.Ac Regge-Ps-H.Ac	rushing/low dynamics rushing/high dynamics	
Regge-Ps-L.Sw	rushing/light swing	
Regge-Ps-H.Sw	rushing/strong swing	
8 Beat Pops type		
Pops-Nm-L.Ac	exact/low dynamics	
Pops-Nm-H.Ac	exact/high dynamics	
Pops-Nm-L.Sw	exact/light swing	
Pops-Nm-H.Sw	exact/strong swing	
Pops-Hv-L.Ac	dragging/low dynamics	
Pops-Hv-H.Ac	dragging/high dynamics	
Pops-Hv-L.Sw	dragging/light swing	
Pops-Hv-H.Sw Pops-Ps-L.Ac	dragging/strong swing rushing/low dynamics	
Pops-Ps-L.Ac Pops-Ps-H.Ac		
Pops-Ps-L.Sw	rushing/high dynamics	
1	rushing/light swing	
Pops-Ps-H.Sw	rushing/strong swing	
8 Beat Rhumba		
Rhumb-Nm-L.Ac	exact/low dynamics	
Rhumb-Nm-H.Ac	exact/high dynamics	
Rhumb-Nm-L.Sw	exact/light swing	
Rhumb-Nm-H.Sw	exact/strong swing	
Rhumb-Hv-L.Ac	dragging/low dynamics	
Rhumb-Hv-H.Ac	dragging/high dynamics	
Rhumb-Hv-L.Sw	dragging/light swing	
Rhumb-Hv-H.Sw	dragging/strong swing	
Rhumb-Ps-L.Ac	rushing/low dynamics	
Rhumb-Ps-H.Ac	rushing/high dynamics rushing/light swing	
	T T STILLY / HOLL SWILLY	
Rhumb-Ps-L.Sw Rhumb-Ps-H.Sw	rushing/strong swing	

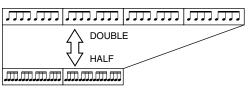
Others	
Samba 1	samba (pandero)
Samba 2	samba (surdo and timba)
Axe 1	axe (caixa)
Axe 2	axe (surdo)
Salsa 1	salsa (cascara)
Salsa 2	salsa (conga)
Triplets	triplets
Quituplets	quintuplets
Sextuplets	sextuplets
7 Against 2	seven notes played over two beats
Lagging Tri	lagging triplets

NOTE

Quantization will correct only note messages; other messages are not corrected. This means that if messages that modify the sound in real time (such as pitch bend) have been recorded in the pattern, some Quantize settings may cause the timing of these messages to become incorrect, so that they are no longer played correctly. It is best to use Quantize on patterns that do not contain messages that produce realtime change.

Reclock

This operation doubles or halves the note values of performance data recorded in the pattern. For example, a four-measure pattern recorded at tempo = 120 can be converted to a two-measure pattern with halved note values, and played at tempo = 60 to produce the identical playback. If you want to connect patterns whose tempo differs drastically, you can use the Reclock operation to match the note values of the two patterns.



* Using the Reclock operation will not change the original tempo of the pattern.

Parameter	Range	Explanation
Reclock Size	HALF,	How the note values are to be
	DOUBLE	changed
		HALF: Note values will be
		halved.
		DOUBLE: Note values will be
		doubled.

You cannot set this parameter in a way that would make the Reclock operation produce a pattern longer than 998 measures or shorter than 1 measure.

Microscope

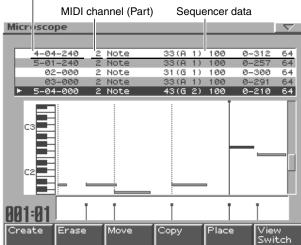
This lets you edit individual events of performance data within a completed pattern.

* You must stop the pattern before you can edit it.

Basic procedure in the Microscope

- 1. Select the pattern that you want to edit.
- 2. Press [F2 (Edit)] to access the Pattern Edit Menu screen.
- 3. Press [F1 (Micro Scope)] to access the Microscope screen.

Location of the sequencer data (measure-beat-clock)



- Use part buttons [1]–[16] and [TEMPO/MUTE] to select the part that you want to edit.
- 5. Use [CURSOR (up/down)] to select the performance data that you want to edit.
- 6. Use [CURSOR (left/right)] to select the parameter that you want to edit.
- 7. Use [VALUE] or [INC/DEC] to edit the value.
- 8. Repeat steps 4–7 to continue editing.
- 9. When you are finished, press [EXIT].

Performance data that can be edited in the Microscope

The Microscope editor lets you edit the following nine types of data (MIDI message).

MIDI message	Explanation
Note	Note data for playing sounds
	From the left, the parameters are Note Num-
	ber, which indicates the name of the note; On
	Velocity, which specifies the force with which
	the key is pressed; Duration (Beat-Tick),
	which specifies the duration of the note; and
	Off Velocity, which determines the speed
	with which the key is released.
Program Change	Messages that switch sounds (patches)
	The program number (PC#) selects the sound.
Control Change	Messages that can apply effects such as modula-
_	tion or portamento, depending on the controller
	number of the message
	The controller number (CC#) selects the func-
	tion, and Value specifies the depth of the ef-
	fect (function).
Pitch Bend	Messages that change the pitch while you play
	The value specifies the amount of pitch
	change.
Poly Aftertouch	Messages that apply aftertouch to individual
	keys
	From the left, the parameters are Note Num-
	ber which specifies the key, and Value which
	specifies the depth of the aftertouch.
Channel After-	Messages that apply aftertouch to an entire
touch	MIDI channel
	Value specifies the depth of the aftertouch.
System Exclusive	MIDI messages specific to the MC-909
Tempo Change	Messages that change the tempo
Mute Control	Mute data for each part

MEMO

System Exclusive, Tempo Change, and Mute Control are included in the Tempo/Mute Part (p. 42).

Function buttons

[F1 (Create)]	Inserts new performance data.
[F2 (Erase)]	Erases performance data.
[F3 (Move)]	Moves performance data.
[F4 (Copy)]	Copies performance data.
[F5 (Place)]	Places performance data.
[F6 (View Switch)]	Displays only specific data.
	Data marked by " \checkmark " will be displayed.
[SHIFT] +	Narrow the range of keys shown in the display.
[F1 (V-Zoom In)]	Use this when you want to view certain
	notes at greater magnification.
[SHIFT] +	Expand the range of notes shown in the dis-
[F2 (V-Zoom Out)]	play.
	Use this when you want to see which notes
	have been input.

 In the Microscope, you can press [ENTER] to transmit the currently selected performance data from the MIDI OUT connector.

Inserting performance data (Create)

Here's how to insert new performance data at a desired location in a pattern.

- **1. Press [F1 (Create)].** The Create Event window will appear.
- 2. Use [VALUE] or [INC/DEC] to select the performance data that you want to insert.
- **3.** Press [F6 (OK)]. The Create Position window will appear.
- 4. Use [CURSOR (left/right)] to move the cursor to the "measure," "beat," and "clock" fields, and use [VALUE] or [INC/DEC] to specify the location at which the data will be inserted.
- 5. Press [F6 (OK)] to insert the performance data.
- 6. The parameters of the inserted performance data will have the default values, so edit the values as necessary.

Erasing performance data (Erase)

Here's how to erase only a single specific event of performance data.

- 1. Use [CURSOR (up/down)] to move the cursor to the performance data that you want to erase.
- 2. Press [F2 (Erase)] to erase that performance data.

Moving performance data (Move)

Here's how to move a performance data event to a different location.

- 1. 1. Use [CURSOR (up/down)] to move the cursor to the performance data that you want to move.
- **2.** Press [F3 (Move)]. The Move Event window will appear.
- Use [CURSOR (left/right)] to move the cursor to the "measure," "beat," and "clock" fields, and use [VALUE] or [INC/DEC] to specify the location to which the data will be moved.
- 4. Press [F6 (OK)] to move the performance data.

Copying performance data (Copy)

Here's how to copy a performance data event to the specified location. This is convenient when you want to use the same performance data two or more times.

- 1. Use [CURSOR (up/down)] to move the cursor to the performance data that you want to copy.
- 2. Press [F4 (Copy)] to copy the event.
- **3.** Press [F5 (Place)]. The Place Event window will appear.
- 4. Use [CURSOR (left/right)] to move the cursor to the "measure," "beat," and "clock" fields, and use [VALUE] or [INC/DEC] to specify the location to which the data will be pasted.
- 5. Press [F6 (OK)] to paste the performance data.

Editing a system exclusive message

- 1. Press [TEMPO/MUTE CONTROL] to select the tempo/ mute part.
- 2. Use [CURSOR (up/down)] to move the cursor to the location of the system exclusive message that you want to edit.
- **3.** Press [CURSOR (right)]. The System Exclusive Edit window will appear.
- 4. Use [CURSOR] to move the cursor to the location of the data that you want to edit.
- 5. Use [VALUE] or [INC/DEC] to edit the value.
- 6. Press [F6 (OK)] to finalize the data.

Function buttons

[F1 (Auto Sum)]	If the message is a Roland type IV system ex- clusive message, you can calculate the check- sum automatically when the values are finalized. If this displays a "✓" mark, the check sum will be calculated automatically when the data values are finalized.
[F2 (Delete)]	Deletes the data at the cursor location.
[F3 (Insert)]	Inserts data at the cursor location.
[F4 (Test)]	Transmits the data being edited from the
	MIDI OUT connector.
[F5 (Cancel)]	Cancels the change in the data.
[F6 (OK)]	Finalizes the data.

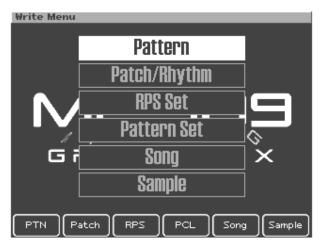
Saving a pattern

Pattern settings that you edit will be lost if you edit another pattern or turn off the power. If you want to keep the edited data, you must save it as follows.

1. Select the pattern that you want to save.

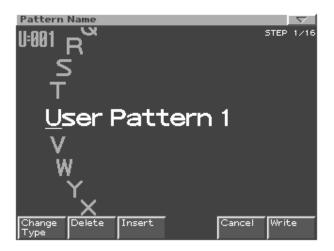
2. Press [WRITE].

The write menu screen will appear. Make sure that "Pattern" is highlighted.



3. Press [ENTER] or [F1 (PTN)].

The pattern name input screen will appear.



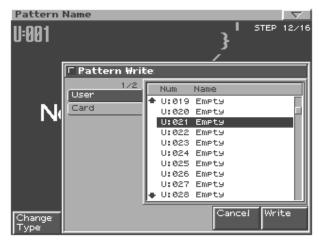
4. Assign a name to the pattern you created.

[CURSOR (left/right)]	Moves the cursor (the location at which
	to enter/edit a character).
[CURSOR (up/down)]	Switches letters between uppercase
	and lowercase.
[VALUE] [INC/DEC]	Selects characters.
[F1 (Change Type)]	Selects the type of character.
	Each time you press this, you will al-
	ternately select the first character of
	the uppercase alphabet (A), lower-
	case alphabet (a), or numerals and
	symbols (0).
[F2 (Delete)]	Deletes the character at the cursor loca-
	tion, while shifting the following char-
	acters to the left, closing the gap.
[F3 (Insert)]	Inserts a space at the cursor location.
* 10 1 11	(1) [75 (2) 1)]

* If you decide not to enter the name, press [F5 (Cancel)].

5. When you finish inputting the name, press [F6 (Write)].

A screen will appear in which you can select the pattern to which the data will be written.



6. Use [VALUE] or [INC/DEC] to select the pattern to which the data will be written.

Use [CURSOR (left/right)] to select the bank (user or card).

7. Press [F6 (Write)].

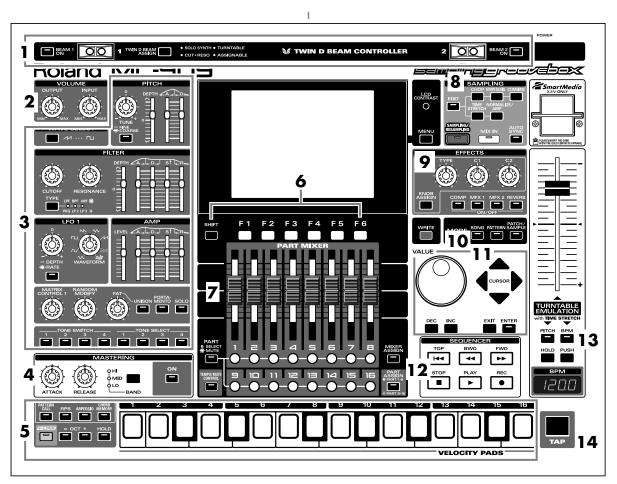
A message will ask you to confirm that you want to write the data.

8. To write the data, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

Patch/Sample Mode

How Things Work (in Pattern mode)



When you press the Mode section **[PATCH/SAMPLE] button**, the button's indicator will light and the MC-909 will be in Patch/Sample mode.

In Patch/Sample mode, the various parts of the panel will perform the following functions.

1. D Beam controllers

Pass your hand over these to modify the pattern (p. 35).

[BEAM 1 ON]	Turns the left D Beam controller
	(BEAM 1) on/off.
[BEAM 2 ON]	Turns the right D Beam controller
	(BEAM 2) on/off.
[TWIN D BEAM ASSIGN]	Selects the function of the D Beam
	controller.

2. Volume section

	[OUTPUT]	Adjusts the output volume of the MIX OUT jacks and the headphone.
Ī	[INPUT]	Adjusts the input volume from the INPUT jacks.

3. Realtime Modify section

These controls modify the sound in real time (p. 33).

Knob/Button	Parameter
[WAVE SELECT]	Displays the Wave List.
PITCH block	
[TUNE]	button is not lit: Patch Fine Tune (p. 57)
	button is lit: Patch Coarse Tune (p. 57)
[DEPTH]	Pitch Envelope Depth (p. 59)
[A]	Pitch Envelope Time1 (p. 59)
[D]	Pitch Envelope Time3 (p. 59)
FILTER block	
[TYPE]	Filter Type (p. 59)
[CUTOFF]	Cutoff Frequency (p. 59)
[RESONANCE]	Resonance (p. 60)
[DEPTH]	Filter Envelope Depth (p. 61)
[A]	Filter Envelope Time1 (p. 61)
[D]	Filter Envelope Time3 (p. 61)
[S]	Filter Envelope Level3 (p. 61)
[R]	Filter Envelope Time4 (p. 61)
AMP block	
[LEVEL]	Patch Level (p. 62)
[A]	Amp Envelope Time1 (p. 63)
[D]	Amp Envelope Time3 (p. 63)
[S]	Amp Envelope Level3 (p. 63)
[R]	Amp Envelope Time4 (p. 63)
LFO 1 block	
[DEPTH/RATE]	button is not lit: LFO1 Pitch/Filter/Amp/
	Pan Depth (p. 64, p. 65)
	* Selectable
	button is lit: LFO1 Rate (p. 64)
[WAVEFORM]	LFO1 Waveform (p. 64)

Knob/Button	Parameter
Others	
[MATRIX	Parameters set to CTRL1 Destination (p. 68)
CONTROL 1]	
[RANDOM	Randomly modifies the sound generator pa-
MODIFY]	rameters for the current part (p. 56).
[FAT]	Unison Fat Level (p. 66)
[UNISON]	Unison Switch (p. 66)
[PORTAMENTO]	Portamento Switch (p. 65)
[SOLO]	Mono/Poly (p. 65)
TONE SWITCH	
[1]-[4]	Turns the tone on/off (p. 56).
TONE SELECT	
[1]–[4]	Selects a tone to edit (p. 56).

4. Mastering section

[ON]	Switches the mastering effect (compressor) on/off.
[BAND]	Selects the frequency band to adjust.
[ATTACK]	Specify the time from when the volume goes up
	the threshold level until the compressor effect ap-
	plies.
[RELEASE]	Specify the time from when the volume falls below
	the threshold level until the compressor effect no
	longer applies.

5. Velocity pads

Use these pads as a keyboard to play sounds or trigger phrases (p. 27).

6. Function buttons

These buttons access the function screens indicated in the bottom line of the display.

7. Part Mixer section

Here you can adjust the volume, pan, etc., of each part (p. 33).

[PART]	Selects the function of the Part buttons [1]–
(SELECT/MUTE)	[16].
	The buttons work as Part Select buttons
	when the indicator is not lighted, and as
	Mute buttons when the indicator is lit.
[TEMPO/MUTE	Switches on/off the Tempo/Mute part (a
CONTROL]	part that records tempo changes and mute
	operations, p. 42).
[MIXER ASSIGN]	When you press this button so its indicator
	lights, the Mixer screen will appear.
[PART ASSIGN]	Selects the parts that are controlled by the
	sliders.
	The sliders will control parts 1-8 if this indi-
	cator is not lighted, or parts 9-16 if the indi-
	cator is lit.

8. Sampling section

[EDIT]	Displays the Sample Edit
	screen (p. 114).
[SAMPLING/RESAMPLING]	Displays the Sampling menu
	screen (p. 112).
[MIX IN]	Mixes the sound from the IN-
	PUT jack into the output (p.
	34).

[AUTO SYNC]	Synchronizes a sample to the pattern (p. 36).

9. Effect section

Applies special effects to the sound (p. 88).

[COMP]–[REVERB]	Switch each effect on/off (p. 88).
[KNOB ASSIGN]	Selects the effect to be controlled in real
	time (p. 91).
[TYPE]	Selects the type of effect.
[C1], [C2]	Modifies the assigned function in real
	time.

10. Mode section

Press the [PATTERN] button to enter Pattern mode.

Pressing one of the other two buttons will switch you to the corresponding mode.

11. Cursor/Value section

Use these buttons and dial to select patterns or input values (p. 18). You can press [ENTER] to see a list of the values that can be specified for the currently selected parameter.

12. Sequencer section

[PLAY]	Plays a pattern (p. 24).
[STOP]	Stops playback/recording.
[FWD]	Advances to the next measure.
[BWD]	Returns to the previous measure.
[TOP]	Moves to the beginning of the pattern.
[REC]	Used when recording (p. 37).

13. Turntable emulation

Applies an effect that simulates increasing/decreasing the rotational speed of a turntable (p. 36).

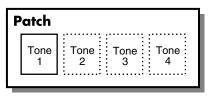
14. TAP button

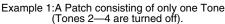
Lets you set the BPM (tempo) by pressing the button at the desired timing (p. 25).

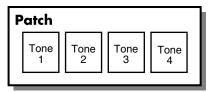
Patch Edit

How a Patch Is Organized

The type of sound most commonly played on the MC-909 is called a Patch. Each Patch can contain up to four Tones.





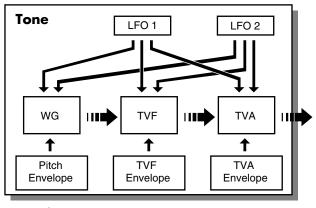


Example 2: A Patch consisting of four Tones.

You can turn the Tones in a Patch on or off. Only Tones that are turned on are heard when you play the Patch. (p. 56) You can also set the structure of a Patch to specify how Tones 1 and 2 and Tones 3 and 4 are combined. (p. 66)

How a Tone Is Organized

Tones are the smallest programmable unit of sound on the MC-909, and are the basic building blocks that make up a Patch. You can't play a Tone by itself-it can only be played as part of a Patch or Rhythm Set. A Tone consists of the following five components.



WG (Wave Generator)

This selects the PCM waveform material that provides the basis of the Tone. Two waveforms can be assigned to each Tone.

The MC-909 has 693 different waveforms. (See Waveform List p. 150.)

All Patches built into the MC-909 consist of combinations of Tones based on these waveforms.

TVF (Time Variant Filter)

This specifies how the frequency components of the Tone change.

TVA (Time Variant Amplifier)

This determines how the volume and panning of the Tone change.

Envelope

An envelope applies changes to the Tone over time. There are separate envelopes for pitch, TVF (filter) and TVA (volume). For example, you would use the TVA Envelope to modify the way in which the Tone attacks and decays.

LFO (Low Frequency Oscillator)

Use the LFO to create cyclical changes-or cyclical "modulation"-in a Tone. Each Tone has two LFOs. An LFO can be applied to the Tone's pitch settings, TVF (filter), and TVA (volume). When an LFO is applied to pitch, a vibrato effect is produced. When an LFO is applied to the TVF cutoff frequency, a wah-wah effect is produced. When an LFO is applied to the TVA volume, a tremolo effect is produced.

Tips for Creating a Patch

- Choose a Patch that's similar to the sound you wish to create. When you want to create a new sound, it's a good idea to begin with a Patch that's close to the sound that you have in mind. Starting with a Patch that bears no resemblance to the one you want to create is likely to result in much more programming work for you.
- Decide which Tones will sound

When creating a Patch, it's important to decide which Tones you want to use. It's also important to turn off unused Tones to avoid wasting voices, unnecessarily reducing the number of simultaneous notes you can play.

• Check the way in which the Tones are combined Structure Type 1&2 and 3&4 are important parameters that determine how the four Tones are combined. Before you select new Tones, make sure you understand how the currently selected Tones are affecting each other.

Top screen of Patch/Sample mode

P	Patch Play									
F	- А	TC	н	PLAY						
		Bank	Num	Patch/Rhythm	Lev	Pan	Кеу	Rev	Out	Seq
	1	PR-A	049	Square Lead2	100	0	+0	0	DRY	INT
	2	PR-C	029	SH-101 Bass	100	0	+0	0	DRY	INT
	3	PR-B	022	SweepPad w/D	100	0	+0	0	DRY	INT
	4	PR-D	009	Juno Sweep	100	0	+0	0	DRY	INT
	5	PR-A	085	ELECTRICITY	100	0	+0	0	DRY	INT
	6	PR-A	016	Quack9Pfive	100	0	+0	0	DRY	INT
	7	PR-E	007	Stopper	100	0	+0	0	DRY	INT
	8	PR-A	001	Detune Saws	100	0	+0	0	DRY	INT
	9	PR-A	005	Warm SawLead	100	0	+0	0	DRY	INT
	10R	PR-A	001	TR-909 Set	100	0	+0	0	DRY	INT
	11R	PR-A	004	TR-M0X09 Kit	100	0	+0	0	DRY	INT
	12R	PR-A	015	ElectrAX Kit	100	0	+0	0	DRY	INT
	13R	PR-A	002	TR-808 Set	100	0	+0	0	DRY	INT
	14	PR-E	126	ThunderBrass	100	0	+0	0	DRY	INT
	15	PR-A	010	BandSawM9	100	0	+0	0	DRY	INT
	16	PR-B	001	Fast Detune	100	0	+0	0	DRY	INT
F	.ist		Edit	Mixer	Effe	cts	Ma ing	ster		PM Click

Bank	Pauls /Number /Name of the
	Bank/Number/Name of the
Num (Number)	patch (rhythm set) used by each
Patch/Rhythm	part (1–16)
(Patch Name/Rhythm Set	
Name)	
Lev (Part Level)	Refer to p. 33
Pan (Part Pan)	
Key (Part Key Shift)	
Rev (Par Reverb Send Level)	
Out (Part Output Assign)	How the original sound of each
	part will be output
	DRY: Output to MIX OUTPUT
	jacks without passing through
	effects
	MFX1 (2): Output through
	multi-effects 1 (or 2)
	COMP: Output through the
	compressor
	DIR1 (2): Output to the DI-
	RECT 1 (or DIRECT 2) jacks
	without passing through ef-
	fects
	RHY: Output according to the
	settings of the rhythm set as-
	signed to the part
	<u> </u>
	* "RHY" can be set only when a
	rhythm set is assigned to the
	part.
Seq	Output distination from the se-
(Sequencer Output Assign)	quencer
	INT: Internal soundgenerator
	EXT: MIDI OUT connector
	BOTH: Both of the above si-
	multaneously

Function buttons

Select a patch/rhythm set from a list (p. 55).
1 ·) · · · · · · · · · · · · · · · · ·
Edit the settings of a patch/rhythm set (p. 56,
p. 70).
Specify the volume/pan of each part (p. 33).
Apply special effects to the sound (p. 88).
Make settings for the mastering effect (p.
108).
Set the tempo, and turn the metronome on/
off (p. 25).

Selecting a patch/rhythm set

Selecting from a list

1. Press [F1 (List)] to display the Patch List screen.

The currently selected patch/rhythm set (the current patch/ rhythm set) will be highlighted.

Patch List Pa	art 1 [Square Lead2]
Patch	
1/9	
Preset A	PR-A:040 DistTB SQR
Preset B	PR-A:041 BandSqrMg
Preset C	PR-A:042 HiPass Mg
Preset D	PR-A:043 My OneOSix
	PR-A:044 Basic 1
Preset E	PR-A:045 DCOs4ever
Preset F	PR-A:046 LateFlapSgr
Preset G	PR-A:047 DualRateSgr
User	PR-A:048 QuackyPS9r
Card	► PR-A:049 Square Lead2
	Bank MSB/LSB 081/064 Program Change 049
日 日	Patch Rhythm Categ Select

- **2.** To select a patch, press [F3 (Patch)]. To select a rhythm set, press [F4 (Rhythm)].
- 3. Use [F1] [F2] or [CURSOR (left/right)] to select a bank.
- 4. Press [F6 (Select)] to finalize your selection.

Selecting a patch by category

- 1. In the Patch Select screen, press [F5 (Categ)]. The patches will be displayed by category.
- 2. Use [F1] [F2] or [CURSOR (left/right)] to select a category.
- 3. Press [F6 (Select)] to finalize your selection.

NOTE

Rhythm sets do not have categories.

Selecting directly

- 1. In the top screen of Patch/Sample mode, use [CURSOR] to move the cursor to the patch/rhythm set name or bank.
- 2. Use [VALUE] or [INC/DEC] to make your selection.

Selecting the Tone(s) That Will Sound

Turn "on" the tone(s) that you want to sound. If you want to hear just a specific tone, turn the other tones "off." Press **TONE SWITCH [1]–[4]** to switch a tone on (button's indicator lit) or off (indicator extinguished).

Patch editing procedure

Editing from the Panel Knobs

Several of the sound generator parameters can be edited directly from the panel knobs. Parameters that can be edited are marked by "#" in the detailed editing list.

Special editing

[RANDOM MODIFY]	This controls the sound generator parameters of the current part. It is a convenient way to use randomness to create sounds you like. Once you turn this toward the right, the parameters will be modified randomly. If you turn it all the way to the left and then toward the right once again, the parameters will be newly re-selected and
	modified randomly.
[FAT]	This is valid if [UNISON] is on.
	It produces a detune effect (when the knob is between the far left and the center), or a harmonize effect (when the knob is between the center and the far right).

When you get a sound that you like, save the patch (p. 77).

LFO1 waveform morphing

The LFO1 waveform can be morphed (gradually shifted between waveforms) in the order shown on the panel.

Detailed Editing

- 1. In the top screen of Patch/Sample mode, move the cursor to the patch that you want to edit.
- 2. Press [F2 (Edit)] to access the Edit screen.
- 3. Use [F1] and [F2] to select a parameter group.
- 4. Press [CURSOR (up/down)] to select the parameter.
- 5. Use [VALUE] or [INC/DEC] to edit the desired parameter.
- * You can press [F6 (Zoom Edit)] to edit some parameters graphically.
- * You can press [ENTER] to see a list of the values that can be specified for the currently selected parameter.
- * You can also use the panel knobs and sliders to edit the sound (p. 52).
- 6. When you are finished editing, press [EXIT] to return to the top screen.

Selecting a Tone to Edit

Press TONE SELECT [1]-[4] so the indicator for the tone you want to edit is lighted.

* By simultaneously pressing two or more [TONE SELECT] buttons, you can simultaneously select two or more tones.

Wave

These parameters select the PCM waveform that is to form the basis of the tone, and apply effects to the waveform.

Parameter	Range	Explanation
Wave Group	INT, SRX, PRES,	Group of the waveform upon which the tone is to be based
-	USER, CARD	INT: Waveforms stored in internal memory
		SRX: Waveforms stored in a wave expansion board
		PRES : Preset sample waveforms
		USER: User sample waveforms
		CARD: Card sample waveforms
		* SRX can be selected only if a wave expansion board is installed.
Wave No. L/MONO	0 (OFF)-693	Waveform upon which the tone is to be based
Wave No. R		On the MC-909 you can specify a separate waveform for the L and R channels.
		* If you want to use the same waveform for the L and R channels, set the R channel to 0 (OFF).
Wave Gain -6, 0, +6, +12 dB Waveform gain (amplitude)		Waveform gain (amplitude)
		The value will change in steps of 6 dB (decibels). An increase of 6 dB will double the gain. If you
		want to use the booster to distort the sound, it is effective to set this to the maximum.
FXM (Frequency Cro	ss Modulation)	
FMX creates a comple	x overtone structure	by using a specific waveform to frequency-modulate the selected waveform. This is suitable for cre-
ating extreme sounds	or sound effects.	
FXM SW	OFF, ON	Selects whether FMX will be used (ON) or not (OFF)
(Wave FXM Switch)		
FXM Color	1-4	Selects how FXM will apply frequency modulation.
(Wave FXM Color)		Increasing this value will produce a rougher sound. Decreasing this value will produce a more
		metallic sound.
FXM Depth	0–16	Depth of frequency modulation applied by FXM
(Wave FXM Depth)		

Pitch

These parameters specify the pitch of the waveform, and how your keyboard playing dynamics will affect the pitch envelope (change in pitch over time).

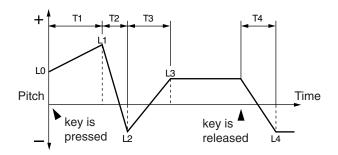
Parameter	Value	Description	
Patch Coarse Tune #	-48-+48	Pitch of the entire patch	
		Specifies the pitch in semitone steps over a range of $+/-4$ octaves.	
Patch Fine Tune #	-50-+50	Pitch of the entire patch	
		Adjusts the pitch in one-cent steps (1/100th of a semitone) over a range of 1/2 semitone upward or	
		downward.	
Tone Coarse Tune	-48-+48	Pitch of the tone	
		Adjusts the pitch in semitone steps over a range of $+/-4$ octaves.	
Tone Fine Tune	-50-+50	Pitch of the tone	
		Adjusts the pitch in one-cent steps (1/100th of a semitone) over a range of 1/2 semitone upward or	
		downward.	
Rnd Pitch Depth	0-1200	Range of random pitch change that occurs each time a pad is pressed	
(Tone Random Pitch		Set this to 0 if you do not want the pitch to change randomly. This value is set in units of one cent (1/	
Depth)		100th of a semitone).	

Patch Edit

Parameter	Value	Description
Pitch Keyfollow	-200-+200	Amount of pitch change that occurs when you play upward one octave (12 notes)
(Wave Pitch Keyfol-		Set this to +100 if you want the pitch to rise one octave as you play 12 notes upward (as on a conven-
low)		tional keyboard). Set this to +200 if you want the pitch to rise two octaves as you play 12 notes up-
		ward. Conversely, set this to a negative value if you want the pitch to fall as you play upward on the
		keyboard. Set this to 0 if you want the same pitch to be sounded regardless of the note you play.
		Pitch
		/ +200 / +100
		+50
		0
		-50
		C1 C2 C3 C4 C5 C6 C7 Key
P-Env V-Sens	-63-+63	Amount of pitch change that will occur in response to your pad playing dynamics.
(Pitch Envelope Ve-	00 100	Increasing this value will produce a greater difference in pitch between softly and strongly played
locity Sensitivity)		notes. Negative (-) values will produce the opposite result.
P-Env T1 V-Sens	-63-+63	Amount by which T1 (time) of the pitch envelope will change in response to the speed (velocity) at
(Pitch Envelope	00 100	which you press a pad.
Time 1		Increasing this value will produce a greater difference between softly and strongly played notes. Set
		this to a positive (+) value if you want to speed up the T1 time, or to a negative (-) value to slow it
Velocity Sensitivity)		down.
P-Env T4 V-Sens	-63-+63	
	-03-+03	Amount by which T4 (time) of the pitch envelope will change in response to the speed at which you
(Pitch Envelope		release a pad (key-off velocity)
Time 4		Increasing this value will produce a greater difference between quickly released and slowly released
Velocity Sensitivity)		notes. Set this to a positive (+) value if you want to speed up the T4 time, or to a negative (-) value to
	100 100	slow it down.
P-Env Time KF	-100-+100	Amount by which the pitch envelope times (T2T4) will change in response to the key you play
(Pitch Envelope		Relative to middle C (C4), higher settings for this parameter will produce greater change. Positive (+)
Time Keyfollow)		values will cause the times to become shorter as you play toward the right on the velocity pad. Con-
		versely, negative (-) values will cause the times to become longer.
		Time
		•
		+100
		+50
		+500
		0
		50
		-100
		C1 $C2$ $C3$ $C4$ $C5$ $C6$ $C7$ Key

Pitch Env (Pitch Envelope)

These parameters specify the depth of the pitch envelope (the way in which pitch will change over time), and the shape of the envelope itself.



Parameter	Value	Description
P-Env Depth #	-12-+12	Pitch envelope depth
		Increasing this value will produce greater change. Negative (-) values will invert the change pro-
		duced by the envelope.
P-Env Time1-4 #	0–127	Pitch envelope times (T1–T4)
		Increasing this value will lengthen the time until the next pitch level is reached (for example, T2 is the
		time over which the pitch will change from L1 to L2).
		* Realtime modify knob [A] adjusts Time 1, and knob [D] adjusts Time 3.
P-Env Level0-4	-63-+63	Pitch envelope levels (L0–L4)
		These parameters specify the amount by which the pitch will change from the basic pitch (specified
		by Coarse Tune and Fine Tune) at each point of the envelope. Positive (+) values will raise the pitch
		above the basic pitch, and negative (-) values will lower it.

Filter

These parameters are settings for the TVF (Time Variant Filter). They modify the timbral character of the tone by adjusting the brightness and fatness of the sound.

Parameter	Value	Description
Filter Type #	OFF, LPF,	Type of filter
	BPF, HPF,	A filter cuts a specific frequency region of the sound to modify the brightness or thickness of the
	PKG, LPF2,	sound.
	LPF3	OFF: A filter will not be used.
		LPF: Low Pass Filter. Cuts the region that lies above the cutoff frequency. The sound will become more mellow as the high frequency region is cut. This is the most commonly used type of filter.BPF: Band Pass Filter. Leaves only the region in the vicinity of the cutoff frequency, and cuts the rest.
		Suitable for creating sounds with a distinctive character.
		HPF: High Pass Filter. Cuts the region that lies below the cutoff frequency. Suitable for creating per- cussion instrument sounds that have a distinctive high range.
		PKG: Peaking filter. Emphasizes the region in the vicinity of the cutoff frequency. You can create a wah effect by using an LFO to cyclically modulate the cutoff frequency.
		LPF2: Low Pass Filter 2. Cuts the region that lies above the cutoff frequency. This lets you leave the cutoff frequency fixed, and use the TVF envelope settings to vary the depth of the cutoff. Since this does not impair the feeling of energy of the sound, it is effective for acoustic-type sounds.
		* The resonance setting is ignored. LPF3: Low Pass Filter 3. Cuts the region that lies above the cutoff frequency. This filter cuts the high frequency region more gently than LPF2. Since this does not impair the feeling of energy of the sound, it is effective for acoustic-type sounds.
		* The resonance setting is ignored.
Cutoff Frequency #	0–127	Frequency (cutoff frequency) at which the filter will begin affecting the frequency content of the wave- form
		If the Filter Type is LPF/LPF2/LPF3, reducing the cutoff frequency will diminish the higher over- tones, producing a more mellow sound. Raising the cutoff frequency will brighten the sound. If the Filter Type is BPF, the cutoff frequency value will change the harmonic content that will be sounded. This is suitable for creating sounds with a distinctive character.
		If the Filter Type is HPF , raising the cutoff frequency will diminish the lower overtones, emphasiz- ing only the bright portion of the sound.
		If the Filter Type is PKG, the cutoff frequency value will change the harmonic content that will be boosted.

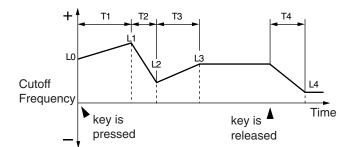
Patch Edit

Parameter	Value	Description
Cutoff Keyfollow	-200-+200	Specifies how the pad position will affect the cutoff frequency Relative to the cutoff frequency of the C4 key, positive (+) values will raise the cutoff frequency as
		you play above C4, and negative (-) values will lower the cutoff frequency as you play above C4. In-
		creasing this value will produce a correspondingly greater change.
		Cutoff frequency
		(Octave)
		+200 +100
		+1 +50
		-1 -2 -50
		C1 C2 C3 C4 C5 C6 C7 Key
Cutoff Velo Curve (Cutoff Frequency	FIX, 1–7	Curve by which pad playing dynamics will affect the cutoff frequency If you select "FIX," the cutoff frequency will remain fixed regardless of your playing dynamics.
Velocity Curve)		in you select 11X, the cubit nequency will remain fixed regardless of your playing dynamics.
		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Cutoff Velo Sens	-63-+63	Amount by which your pad playing dynamics will affect the cutoff frequency
(Cutoff Frequency		Increasing this value will cause a correspondingly greater difference between softly played and
Velocity Sensitivity)	0.125	strongly played notes. Negative (-) values will invert the change.
Resonance #	0–127	Amount by which the sound in the region of the cutoff frequency will be emphasized Increasing this value will produce a more strongly distinctive character. Raising this excessively will
		cause oscillation and distortion.
		LPF BPF HPF PKG
		Level High t a t a t a
		Cutoff frequency $Cutoff frequency$
Reso Velo Sens	-63-+63	Amount by which your pad playing dynamics will affect the resonance
(Resonance Velocity		Increasing this value will cause a correspondingly greater difference between softly played and strongly played notes. Negative (-) values will invert the change.
Sensitivity) F-Env V-Curve	FIX, 1–7	Curve by which keyboard playing dynamics will affect the filter envelope
(Filter envelope	,	If you select "FIX," the filter envelope will remain constant regardless of your playing dynamics.
velocity curve)		
		1 2 3 4 5 6 7
F-Env V-Sens	-63-+63	Amount by which your pad playing dynamics will affect the filter envelope depth
(Filter envelope		Increasing this value will cause a correspondingly greater difference between softly played and
velocity sensitivity)		strongly played notes. Negative (-) values will invert the change.
	-63-+63	Amount by which your pad playing dynamics (velocity) will affect T1 (time) of the filter envelope
F-Env T1 V-Sens	-03-+03	
F-Env T1 V-Sens (Filter Envelope Time 1 Velocity	-03-+03	Increasing this value will cause a correspondingly greater difference between softly played and strongly played notes. Negative (-) values will invert the change. Specify a positive (+) value if you

Parameter	Value	Description	
F-Env T4 V-Sens	-63-+63	Amount by which the speed at which you release the pad (key-off velocity) will affect T4 (time) of the	
(Filter Envelope		filter envelope	
Time 4 Velocity		Increasing this value will cause a correspondingly greater difference between slowly released and	
Sensitivity)		quickly released notes. Specify a positive (+) value if you want to speed up the T4 time, or a negative	
		(-) value to slow it down.	

Filter Env (Filter Envelope)

These parameters specify the depth of the filter envelope (time-variant change in cutoff frequency), and specify the shape of the envelope itself.

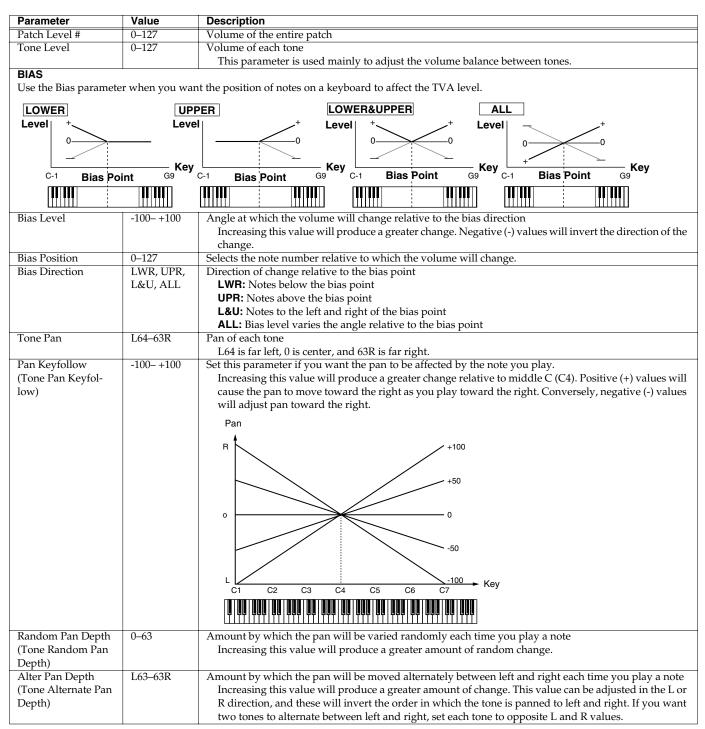


Parameter	Value	Description	
F-Env Depth (Filter envelope depth)	-63-+63	Depth of the filter envelope Increasing this value will produce a greater effect. Negative (-) values will invert the envelope.	
F-Env Time KF (Filter Envelope Time Keyfollow)	-100-+100	Amount by which the note you play (relative to C4) will affect the filter envelope times (T2–T4) Increasing this value will cause greater change to occur. Positive (+) values will cause the times to become shorter as you play toward the right of the keyboard. Conversely, negative (-) values will cause the times to become longer. Time 1 + 100 1 + 100	
F-Env Time1–4 # (Filter Envelope Time 1–4)	0–127	 Filter envelope times (T1–T4) Higher settings of these values will lengthen the time over which the next cutoff frequency level of the envelope is reached. (For example, T2 is the time over which the level changes from L1 to L2.) * Realtime modify knob [A] adjusts Time 1, knob [D] adjusts Time 3, and knob [R] adjusts Time 4. 	
F-Env Level0–4 # (Filter Envelope Level 0–4)	0–127	Filter envelope levels (L1–L3) Specifies the change in cutoff frequency at each point, relative to the reference level. * Realtime modify knob [S] adjusts Level 3.	

Patch Edit

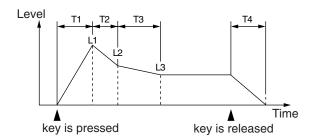
Amp

These TVA (Time Variant Amplifier) parameters specify how the volume and pan of the sound will change.



Amp Env (Amp Envelope)

These parameters specify the depth of the amp envelope (change in volume over time) and the shape of the envelope itself.



Parameter	Value	Description	
A-Env V-Curve (Amp Envelope Velocity Curve)	FIX, 1–7	Curve by which pad playing dynamics will affect the volume of the tone If you specify "FIX," the volume of the tone will remain the same regardless of your playing dynamics. 1 2 3 4 5 6 7	
A-Env V-Sens (Amp Envelope Velocity Sensitivity)	-63-+63	Amount by which pad playing dynamics will affect the volume of the tone Specify a positive (+) value if you want the volume of the tone to increase as you play more strongly. Specify a negative (-) value if you want the volume to decrease.	
A-Env T1 V-Sens (Amp Envelope Time 1 Velocity Sensitivity)	-63-+63	Amount by which T1 (time) of the Amp envelope will change in response to your playing dynamics Increasing this value will produce a greater change between softly played and strongly played notes. Specify a positive (+) value if you want the T1 time to speed up, or a negative (-) value if you want it to slow down.	
A-Env T4 V-Sens (Amp Envelope Time 4 Velocity Sensitivity)	-63-+63	Amount by which T4 (time) of the Amp envelope will change in response to the speed at which you release the pad (key-off velocity) Increasing this value will produce a greater change between slowly released and quickly released notes. Specify a positive (+) value if you want the T4 time to speed up, or a negative (-) value if you want it to slow down.	
A-Env Time KF (Amp Envelope Time Keyfollow)	-100-+100		
A-Env Time1–4 # (Amp Envelope Time 1–4)	0–127	 Amp envelope times (T1–T4) Higher settings of these values will lengthen the time over which the next volume level of the envelope is reached. (For example, T2 is the time over which the level changes from L1 to L2.) * Realtime modify knob [A] adjusts Time 1, knob [D] adjusts Time 3, and knob [R] adjusts Time 4. 	
A-Env Level1–3 # (Amp Envelope Level 1–3)	0–127	Amp envelope levels (L1–L3) Specifies the change in volume at each point, relative to the reference level. * Realtime modify knob [S] adjusts Level 3.	

LFO1/LFO2

LFO (Low Frequency Oscillator) creates cyclic changes. Each tone has two LFOs, and these can be used to apply change to pitch, filter cutoff frequency, amp level, and pan.

Using the LFOs

An LFO applied to pitch creates vibrato, applied to filter cutoff frequency creates a wah effect, and applied to amp level creates tremolo. When LFO is applied to pan, a distinctive auto-pan effect is produced.

LFO settings can also be used to do things such as cyclically exchanging two tones. For example, to cyclically exchange tones 1 and 2, specify the same LFO effect for each, and set the LFO depth to opposite polarities (+/-) for the amp level.

* The parameters of LFO 1 and 2 are the same.

Parameter	Value	Description
LFO1(2) Waveform	SIN, TRI,	LFO waveform
#	SAWU,	SIN: sine wave TRI: triangle wave SAWU: sawtooth wave SAW-D: sawtooth wave (inverted)
	SAWD,	SQR: square wave RND: random wave
	SQR, RND,	BD-U: a waveform that lets the LFO output waveform rise to the reference level and holds it there
	BD-U,	BD-D: a waveform that lets the LFO output waveform fall to the reference level and holds it there
	BD-D, TRP,	TRP: trapezoidal wave S&H: sample and hold wave (LFO value will change once each period)
	S&H, CHS,	CHS: chaos wave
	XSIN,	XSIN: sine wave that reverses between positive and negative at an extremely short interval
	TWM,STRS, VSIN,	TWM: modified triangle wave STRS: stair-step wave VSIN: modified sine wave suitable for vibrato M001–M113: the waveform will change continuously from a sine wave to sample & hold
	M001–M113	* If you select "BD-U" or "BD-D," set the Key Trigger (p. 64) parameter to "ON." There will be no effect if you set it to "OFF."
LFO1(2) Rate #	0–127, note	Speed of the LFO cycle
		* The chaos waveform has no cycle. If you select the chaos waveform, the rate setting will be ignored.
Offset	-100-+100	Offset level of the LFO waveform
(LFO Offset)		Adjusts the waveform upward or downward.
Rate Detune	0–127	Amount by which the LFO rate will be changed
(LFO Rate Detune)		
Delay Time	0–127	Time from when you press (or release) a pad until the LFO amplitude begins to change
(LFO Delay Time)		
Delay Time KF	-100-+100	Amount by which the Delay Time will be affected by the note you play
(LFO Delay Keyfol-		Modifies the Delay Time parameter according to the note you play, relative to C4 (middle C). Specify
low)		a positive (+) value if you want the LFO effect to be applied more quickly as you play higher notes,
,		or specify a negative (-) value if you want a greater delay to occur before the effect is applied. Higher
		settings will produce a correspondingly greater change.
		Time
		× +100
		+50
		-100
		C1 $C2$ $C3$ $C4$ $C5$ $C6$ $C7$ Key
Fade Mode	On<, On>,	How the LFO effect is applied
(LFO Fade Mode)	Off<, Off>	On< (ON-IN): The effect will be applied gradually after you press the pad.
(Er O I due Moue)		On> (ON-OUT): The effect will be applied when you press the pad, and will gradually disappear.
		Off< (OFF-IN): The effect will be applied gradually after you release the pad.
		Off> (OFF-OUT): The effect will be applied gladually after you felease the pad, and will gradually
		disappear when you release the pad.
Fade Time	0–127	Rise (or decay) time for the LFO effect
(LFO Fade Time)	0-12/	
Key Trigger	OFF, ON	Selection for whether the beginning of the LFO cycle will be aligned to the timing at which you press a
(LFO Key Trigger)		pad (ON), or will not be aligned (OFF)
Pitch Depth #	-63-+63	Depth to which the LFO will affect the WG pitch
(LFO Pitch Depth)	-00- +00	
(Li O i nei Depui)		1

Parameter	Value	Description
Filter Depth #	-63-+63	Depth to which the LFO will affect the filter cutoff frequency
(LFO Filter Depth)		
Amp Depth #	-63-+63	Depth to which the LFO will affect the amp level
(LFO Amp Depth)		
Pan Depth #	-63-+63	Depth to which the LFO will affect the amp pan
(LFO Pan Depth)		* If the Waveform is "XSIN," it may be difficult to notice the effect.

note:

+3 (Sixty-fourth-note triplet), + (Sixty-fourth note), 3 (Thirty-second-note triplet), (Thirty-second note), 3 (Sixteenth-note triplet), (Dotted thirty-second note),

) (Sixteenth note), 3_3 (Eighth-note triplet), (Dotted sixteenth note), (Eighth note), (Quarter-note triplet), (Quarter note), (Quarter note), (Half-note triplet),

👃 (Dotted quarter note), 🚽 (Half note), 👦 (Whole-note triplet), 🚽 (Dotted half note), 🔹 (Whole note), 🕬 (Double-note triplet), 🗢 (Dotted whole note), 🕬 (Double note)

Solo/Porta (Portamento)

Parameter	Value	Description
Mono/Poly #	MONO,	Specifies how notes will be produced
-	POLY	MONO: Only one note at a time will sound.
		POLY: More than one note can be played simultaneously.
		It is effective to use the MONO setting when playing a patch of a single-note instrument such as sax
		or flute.
Legato Switch	OFF, ON	Specifies whether legato will be used (ON) or not (OFF)
		Legato is a function that is available when the Mono/Poly parameter is set to MONO. When Legato
		is turned ON, pressing another key while the previously played key is still held down will cause the
		pitch to change to the newly played key, while the note continues to sound. This can be used to sim-
		ulate the hammering-on/pulling-off performance techniques used by a guitarist.
Legato Retrigger	OFF, ON	Selects whether the note will be retriggered when using Legato.
		Normally, you will leave this "ON." If this parameter is turned "OFF," pressing another key while
		the previously played key is still held down will cause only the pitch to change, which may cause an
		unnatural-sounding result for some waveforms. It is best to turn this "OFF" when playing wind or
		bowed-string instrument sounds, or when simulating a monophonic synthesizer.
		* This setting is ignored if the Legato Switch is "OFF."
PORTAMENTO	-1	
Portamento is a funct	ion that causes tl	he Patch's pitch to change smoothly from one note to the next note played. When the Key Mode Asign is
MONO, this can be ef	fective in simula	ıting performance techniques such as a violinist's glissando.
Portamento Switch #	OFF, ON	Portamento on/off
Porta Mode	NORMAL,	Method of play for which the portamento effect will be applied
(Portamento Mode)	LEGATO	NORMAL: Portamento will always be applied.
		LEGATO: Portamento will be applied only when you play legato (i.e., press the next note before re-
		leasing the previous note).
Portamento Type	RATE,	How the difference in pitch between the notes you play will affect the time over which the pitch change
	TIME	occurs
		RATE: The time over which the pitch changes will be proportionate to the difference in pitch between
		the two notes.
		TIME: The pitch change will occur over a fixed time, regardless of the difference in pitch between the
		two notes.

Patch Edit

Parameter	Value	Description		
Porta Start	PITCH,	Portamento begins anew if you press another key during a pitch movement. This setting specifies how		
(Portamento Start)	NOTE	the new portamento starts.		
		PITCH: The pitch begins changing immediately to the new note's pitch when its key is pressed.		
		Pitch		
		▲		
		C5		
		C4		
		Time		
		press D4 key		
		press C5 key		
		press C4 key		
		NOTE: The pitch begins changing to the new note's pitch only after it has first reached its original pitch		
		destination.		
		Pitch		
		↓ ♣		
		CS		
		C4		
		press D4 key		
		press C5 key		
		press C4 key		
Portamento Time	0–127	Time over which the next pitch is reached		
Unison Switch #	OFF, ON	Switches the detune effect on/off		
		If this is "ON," the sound of the selected patch will be layered (three notes), producing a fatter sound.		
		* If this is turned "ON," the Mono/Poly parameter will also be set to "MONO" ([SOLO] will light), and		
		the selected patch automatically uses single notes.		
Unison Fat Level #	0–127	Strength of the detune effect		
		Increasing this value will cause the pitch of the layered notes to be raised and lowered farther away		
		from each other (maximum one octave up and down).		

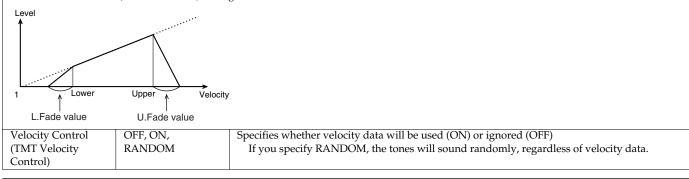
TMT (Tone Mix Table)

These parameters specify how the tones will be combined, and how they will be played.

Parameter	Value	Description
Structure Type 1&2	1-10	How tones 1 and 2, or 3 and 4, will be combined
(3&4)		If you press [F6 (Zoom Edit)] while this parameter is selected, the screen will show the way
		in which the tones are combined. (Press [EXIT] to return to the previous screen.)
		B indicates Booster, and R indicates Ring Modulator.
		* If you select Type 2–10 and turn off one of the tones, the other tone will use the conventional configuration of WG/TVF/TVA.
Booster 1&2 (3&4)	0, +6, +12, +18 dB	Depth of the booster effect when "Type" is set to 3 or 4
(Booster Gain)		

TMT (Tone Mix Table)

On the MC-909, you can specify how each tone will sound in response to pad playing dynamics (velocity). These parameters are collectively referred to as the TMT (Tone Mix Table) settings.



Parameter	Value	Description
Velo Fade Lower	0–127	Rate of volume change when you play less strongly than the lower limit of the velocity range
(TMT Velocity Fade		Greater settings for this value will cause the volume to decrease more gradually. Set this to 0
Width Lower)		if you want notes outside the velocity range to not sound at all.
Velo Range Lower	1–Upper	Lower limit of velocities that will sound the tone
(TMT Velocity		Set this parameter if you want to use velocity to switch between tones.
Range Lower)		
Velo Range Upper	Lower-127	Upper limit of velocities that will sound the tone
(TMT Velocity		Set this parameter if you want to use velocity to switch between tones.
Range Upper)		* It is not possible to set Lower to a greater value than Upper, nor Upper to a lesser value than
		Lower.
Velo Fade Upper	0–127	Rate of volume change when you play more strongly than the upper limit of the velocity range
(TMT Velocity Fade		Greater settings for this value will cause the volume to decrease more gradually. Set this to 0
Width Upper)		if you want notes outside the velocity range to not sound at all.
TMT Control Switch	OFF, ON	Specifies whether the controller of the matrix control will control TMT (ON) or not (OFF)
		By turning Velocity Control (TMT Velocity Control) OFF and turning this parameter on/off,
		you can easily switch between sounding all tones and using the matrix control. This is con-
		venient when checking the sound.
Bend Range Down	-48-0	Specifies the pitch change that occurs when the Pitch Bend lever is moved fully to the left (or
		down on some MIDI controllers).
Bend Range Up	0-48	Specifies the pitch change that occurs when the Pitch Bend lever is moved fully to the right (or
		up on some MIDI controllers).

What is a Booster?

A Booster amplifies the incoming signal, causing it to distort. This creates an effect similar to the distortion often used on an electric guitar.

What is a Ring Modulator?

A Ring Modulator mathematically multiplies two Tones, creating a new sound that includes inharmonic overtones that were not present in either of the two original Tones. Since the difference in pitch between the two Tones changes the overtone structure, an un-pitched "metallic" sound often results. Ring modulation is therefore especially suitable for creating bells and other metallic sounds.

× =

CTRL1

These parameters let you specify the operation and result of various controllers.

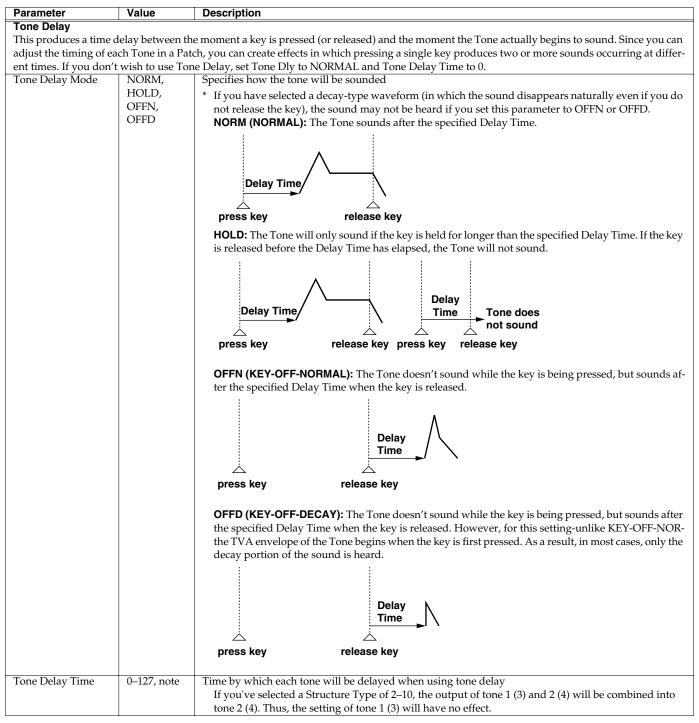
Parameter	Value	Description
MATRIX CTRL #		
This selects the parameter	rs to be controlled by Matrix Control So	ource 1–4 and the Sens settings, as well as the specific Tones whose parameters
you wish to control. Up to	o four destination parameters can be se	elected for each controller and controlled simultaneously.
CTRL1 Destination 1–4	OFF, PCH, CUT, RES, LEV, PAN,	Parameter to be controlled
(Matrix Control 1	DRY, CHO, REV, PIT-LFO1(2),	
Destination 1–4)	TVF-LFO1(2), TVA-LFO1(2),	
	PAN-LFO1(2), LFO1(2)-RATE,	
	PIT-ATK, PIT-DCY, PIT-REL,	
	TVF-ATK, TVF-DCY, TVF-REL,	
	TVA-ATK, TVA-DCY, TVA-REL,	
	TMT, FXM, MFX-CTRL1–4	
CTRL1 Sens 1-4	-63-+63	Range of change obtained through operating the controller
(Matrix Control 1 Sens		Negative (-) values will invert the change. If you set LFO depth to a nega-
1-4)		tive value, the phase will be inverted. Setting LFO rate to a negative value
		will lengthen the cycle, and setting it to a positive value will shorten the cy-
		cle.
CTRL1 Switch 1-4	OFF, ON, REVS	Tones to which the preceding two parameter settings will apply
(Matrix Control 1 Tone		The settings will apply to tones for which this is turned "ON." The effect
Control Switch 1-4)		will be inverted for tones that are set to "REVS."

General

Various other parameters are provided here.

Parameter	Value	Description
Patch Priority	LAST,	Specifies what will happen if the maximum polyphony (64 voices) is exceeded
	LOUDEST	LAST: Voices played most recently will be given priority, while currently sounding voices will be
		successively turned off, beginning with the oldest one.
		LOUDEST: Voices of the loudest volume will be given priority, while currently sounding voices will
		be successively turned off, beginning with the one with the lowest volume.
Tone Env Mode	NSUS, SUST	Specifies how notes will continue to sound while you hold down the key
(Tone Envelope		NSUS (NO-SUSTAIN): The sound will decay naturally even if you continue to hold down the pad.
Mode)		SUST (SUSTAIN): The sound will be sustained as long as you hold down the pad.
		* If you have selected a one-shot waveform, the sound will not be sustained even if you select "SUST."

atch/Sample Mode



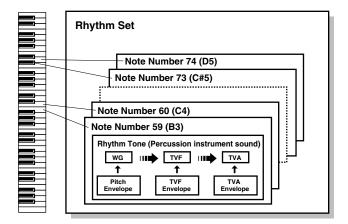
note:

A (Sixty-fourth-note triplet), A (Sixty-fourth note), A (Thirty-second-note triplet), A (Thirty-second note),
 A (Sixteenth note), A (Dotted thirty-second note),
 A (Sixteenth note), A (Dotted triplet), A (Dotted sixteenth note), A (Eighth note), A (Quarter-note triplet), A (Dotted eighth note), A (Dotted triplet), A (Dotted sixteenth note), A (Half-note triplet), A (Dotted note), A (Dotted sixteenth note), A (Dotted half note), A (Dotted hal

Rhythm Edit

How Percussion Instruments Are Organized

A Rhythm Set is a collection of Rhythm Tones, each of which represents a percussion instrument played on a single key. An instrument consists of the following four elements.



WG (Wave Generator)

This specifies the PCM waveform (or "wave") that forms the basis of the Rhythm Tone - four waveforms can be assigned to each Rhythm Tone. You can also determine how the pitch of the Rhythm Tone will change.

The MC-909 has 693 different waveforms. (See Waveform List p. 150.)

All Rhythm Sets built into the MC-909 consist of Rhythm Tones based on these waveforms.

TVF (Time Variant Filter)

This sets how the frequency characteristics of the Rhythm Tone will change.

TVA (Time Variant Amplifier)

This sets how the Rhythm Tone's volume and stereo positioning will change.

Envelope

An envelope applies changes to the Rhythm Tone over time. There are separate envelopes for pitch, TVF (filter) and TVA (volume). For example, you would use the TVA Envelope to modify the way in which the Rhythm Tone attacks and decays.

Selecting the Wave(s) That Will Sound

Turn "on" the wave(s) that you want to sound. If you want to hear just a specific wave, turn the other waves "off."

Press **TONE SWITCH [1]–[4]** to switch a wave on (button's indicator lit) or off (indicator extinguished).

Rhythm editing procedure

- 1. In the top screen of Patch/Sample mode, move the cursor to the rhythm set that you want to edit.
- 2. Press [F2 (Edit)] to access the edit screen.
- **3.** Use [F1] [F2] or [CURSOR (left/right)] to select a parameter group.
- 4. Use [CURSOR (up/down)] to select a parameter.
- 5. Use [VALUE] or [INC/DEC] to edit the parameter.
- * You can also use the panel knobs and sliders to edit the sound (p. 52).
- 6. When you are finished editing, press [EXIT] to return to the top screen.

Selecting the rhythm tone to edit

Press a velocity pad 1–16 to select the rhythm tone that you want to edit.

Selecting the wave that you want to edit

Press TONE SELECT [1]–[4] to illuminate the button for the wave that you want to edit.

* By simultaneously pressing two or more [TONE SELECT] buttons, you can simultaneously select two or more waves.

Wave

These parameters select the PCM waveform that is to form the basis of the rhythm tone, and apply effects to the waveform.

Parameter	Value	Description
Wave Group	INT, SRX, PRES,	Group of the waveform upon which the rhythm tone is to be based
	USER, CARD	INT: Waveforms stored in internal memory
		SRX: Waveforms stored in a wave expansion board
		PRES: Preset sample waveforms
		USER: User sample waveforms
		CARD: Card sample waveforms
		* SRX can be selected only if a wave expansion board is installed.
Wave No. L/MONO	0 (OFF)-693	Waveform upon which the tone is to be based
Wave No. R		On the MC-909 you can specify a separate waveform for the L and R channels.
		* If you want to use the same waveform for the L and R channels, set the R channel to 0 (OFF).
Wave Gain	-6, 0, +6, +12 dB	Waveform gain (amplitude)
		The value will change in steps of 6 dB (decibels). An increase of 6 dB will double the gain. If you want to use the booster to distort the sound, it is effective to set this to the maximum.
FXM (Frequency Cro	ss Modulation)	
FMX creates a comple	x overtone structure	by using a specific waveform to frequency-modulate the selected waveform. This is suitable for cre-
ating extreme sounds	or sound effects.	
Wave FXM SW	OFF, ON	Selects whether FXM will be used (ON) or not (OFF)
(Wave FXM Switch)		
Wave FXM Color	1-4	Selects how FXM will apply frequency modulation.
(Wave FXM Color)		Increasing this value will produce a rougher sound. Decreasing this value will produce a more metallic sound.
Wave FXM Depth	0–16	Depth of frequency modulation applied by FXM
(Wave FXM Depth)		

Rhythm Edit

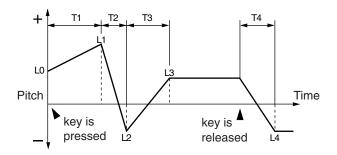
Pitch

These parameters specify the pitch of the waveform.

Parameter	Value	Description
Coarse Tune	0 (C-1)-127	Basic pitch at which the Rhythm tone will play
(Rhythm Tone	(G9)	
Coarse Tune)		
Fine Tune	-50-+50	Pitch of the Rhythm tone
(Rhythm Tone Fine		Adjusts the pitch in one-cent steps (1/100th of a semitone) over a range of 1/2 semitone upward or
Tune)		downward.
Random Pitch	0-1200	This specifies the width of random pitch deviation that will occur each time a key is pressed. If you don't
(Random pitch		want random pitch changes, set it to 0. The parameter can be adjusted in units of 1 cent (1/100th of a
depth)		semitone).
Wave Coarse Tune	-48-+48	Pitch of the Wave
		Adjusts the pitch in semitone steps over a range of $+/-4$ octaves.
Wave Fine Tune	-50-+50	Pitch of the Wave
		Adjusts the pitch in one-cent steps (1/100th of a semitone) over a range of 1/2 semitone upward or
		downward.

Pitch Env (Pitch Envelope)

These parameters specify the depth of the pitch envelope (the way in which pitch will change over time), and the shape of the envelope itself.



Parameter	Value	Description
P-Env Depth	-12-+12	Pitch envelope depth
		Increasing this value will produce greater change. Negative (-) values will invert the change pro-
		duced by the envelope.
P-Env V-Sens	-63-+63	Amount of pitch change that will occur in response to your pad playing dynamics.
(Pitch Envelope Ve-		Increasing this value will produce a greater difference in pitch between softly and strongly played
locity Sensitivity)		notes. Negative (-) values will produce the opposite result.
P-Env T1 V-Sens	-63-+63	Amount by which T1 (time) of the pitch envelope will change in response to the speed (velocity) at
(Pitch Envelope		which you press a pad.
Time 1		Increasing this value will produce a greater difference between softly and strongly played notes. Set
Velocity Sensitivity)		this to a positive (+) value if you want to speed up the T1 time, or to a negative (-) value to slow it
		down.
P-Env T4 V-Sens	-63-+63	Amount by which T4 (time) of the pitch envelope will change in response to the speed at which you
(Pitch Envelope		release a pad (key-off velocity)
Time 4		Increasing this value will produce a greater difference between quickly released and slowly released
Velocity Sensitivity)		notes. Set this to a positive (+) value if you want to speed up the T4 time, or to a negative (-) value to
		slow it down.
P-Env Time1–4	0–127	Pitch envelope times (T1–T4)
		Increasing this value will lengthen the time until the next pitch level is reached (for example, T2 is the
		time over which the pitch will change from L1 to L2).
		* Realtime modify knob [A] adjusts Time 1, and knob [D] adjusts Time 3.
P-Env Level0-4	-63-+63	Pitch envelope levels (L0–L4)
		These parameters specify the amount by which the pitch will change from the basic pitch (specified
		by Coarse Tune and Fine Tune) at each point of the envelope. Positive (+) values will raise the pitch
		above the basic pitch, and negative (-) values will lower it.

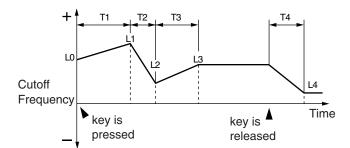
Filter

These parameters are settings for the TVF (Time Variant Filter). They modify the timbral character of the tone by adjusting the brightness and fatness of the sound.

Parameter	Value	Description			
Filter Type	OFF, LPF,	Type of filter			
	BPF, HPF,	A filter cuts a specific frequency region of the sound to modify the brightness or thickness of the sound.			
	PKG, LPF2,				
	LPF3	OFF: A filter will not be used.			
		LPF: Low Pass Filter. Cuts the region that lies above the cutoff frequency. The sound will become			
		more mellow as the high frequency region is cut. This is the most commonly used type of filter.			
		BPF: Band Pass Filter. Leaves only the region in the vicinity of the cutoff frequency, and cuts the rest.			
		Suitable for creating sounds with a distinctive character. HPF: High Pass Filter. Cuts the region that lies below the cutoff frequency. Suitable for creating per-			
		cussion instrument sounds that have a distinctive high range.			
		PKG: Peaking filter. Emphasizes the region in the vicinity of the cutoff frequency. You can create a			
		wah effect by using an LFO to cyclically modulate the cutoff frequency.			
		LPF2: Low Pass Filter 2. Cuts the region that lies above the cutoff frequency. This lets you leave the			
		cutoff frequency fixed, and use the TVF envelope settings to vary the depth of the cutoff. Since this			
		does not impair the feeling of energy of the sound, it is effective for acoustic-type sounds.			
		* The resonance setting is ignored.			
		LPF3: Low Pass Filter 3. Cuts the region that lies above the cutoff frequency. This filter cuts the high			
		frequency region more gently than LPF2. Since this does not impair the feeling of energy of the sound,			
		it is effective for acoustic-type sounds.			
		* The resonance setting is ignored.			
Cutoff Frequency	0–127	Frequency (cutoff frequency) at which the filter will begin affecting the frequency content of the wave-			
		form			
		If the Filter Type is LPF/LPF2/LPF3, reducing the cutoff frequency will diminish the higher over-			
		tones, producing a more mellow sound. Raising the cutoff frequency will brighten the sound.			
		If the Filter Type is BPF, the cutoff frequency value will change the harmonic content that will be			
		sounded. This is suitable for creating sounds with a distinctive character.			
		If the Filter Type is HPF, raising the cutoff frequency will diminish the lower overtones, emphasiz-			
		ing only the bright portion of the sound.			
		If the Filter Type is PKG, the cutoff frequency value will change the harmonic content that will be			
		boosted.			
Cutoff Velo Curve	FIX, 1–7	Curve by which pad playing dynamics will affect the cutoff frequency			
(Cutoff Frequency		If you select "FIX," the cutoff frequency will remain fixed regardless of your playing dynamics.			
Velocity Curve)					
		$1 \qquad 2 \qquad 3 \qquad 4 \qquad 5 \qquad 6 \qquad 7$			
Cutoff Velo Sens	-63-+63	Amount by which your pad playing dynamics will affect the cutoff frequency			
(Cutoff Frequency	-03-+03	Increasing this value will cause a correspondingly greater difference between softly played and			
Velocity Sensitivity)		strongly played notes. Negative (-) values will invert the change.			
Resonance	0–127	Amount by which the sound in the region of the cutoff frequency will be emphasized			
		Increasing this value will produce a more strongly distinctive character. Raising this excessively will			
		cause oscillation and distortion.			
		LPF BPF HPF PKG Level			
		Cutoff frequency			
Reso Velo Sens	-63-+63	Amount by which your pad playing dynamics will affect the resonance			
(Resonance Velocity		Increasing this value will cause a correspondingly greater difference between softly played and			
Sensitivity)	1	strongly played notes. Negative (-) values will invert the change.			

Filter Env (Filter Envelope)

These parameters specify the depth of the filter envelope (time-variant change in cutoff frequency), and specify the shape of the envelope itself.



Parameter	Value	Description
F-Env Depth	-63-+63	Depth of the filter envelope
(Filter envelope		Increasing this value will produce a greater effect. Negative (-) values will invert the envelope.
depth)		
F-Env V-Curve	FIX, 1–7	Curve by which keyboard playing dynamics will affect the filter envelope
(Filter envelope		If you select "FIX," the filter envelope will remain constant regardless of your playing dynamics.
velocity curve)		
F-Env V-Sens	-63-+63	Amount by which your pad playing dynamics will affect the filter envelope depth
(Filter envelope		Increasing this value will cause a correspondingly greater difference between softly played and
velocity sensitivity)		strongly played notes. Negative (-) values will invert the change.
F-Env T1 V-Sens	-63-+63	Amount by which your pad playing dynamics (velocity) will affect T1 (time) of the filter envelope
(Filter Envelope		Increasing this value will cause a correspondingly greater difference between softly played and
Time 1 Velocity		strongly played notes. Negative (-) values will invert the change. Specify a positive (+) value if you
Sensitivity)		want to speed up the T1 time, or a negative (-) value to slow it down.
F-Env T4 V-Sens	-63-+63	Amount by which the speed at which you release the pad (key-off velocity) will affect T4 (time) of the
(Filter Envelope		filter envelope
Time 4 Velocity		Increasing this value will cause a correspondingly greater difference between slowly released and
Sensitivity)		quickly released notes. Specify a positive (+) value if you want to speed up the T4 time, or a negative
		(-) value to slow it down.
F-Env Time1–4	0–127	Filter envelope times (T1–T4)
(Filter Envelope		Higher settings of these values will lengthen the time over which the next cutoff frequency level of
Time 1–4)		the envelope is reached. (For example, T2 is the time over which the level changes from L1 to L2.)
		* Realtime modify knob [A] adjusts Time 1, knob [D] adjusts Time 3, and knob [R] adjusts Time 4.
F-Env Level0-4	0–127	Filter envelope levels (L1–L3)
(Filter Envelope		Specifies the change in cutoff frequency at each point, relative to the reference level.
Level 0-4)		* Realtime modify knob [S] adjusts Level 3.

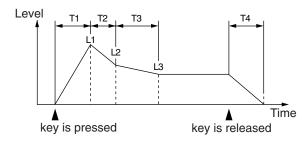
Amp

These TVA (Time Variant Amplifier) parameters specify how the volume and pan of the sound will change.

Parameter	Value	Description	
Tone Level	0–127	Volume of each Rhythm Tone	
(Rhythm Tone Level)		This parameter is used mainly to adjust the volume balance between Rhythm Tones.	
Wave Level	0-127	Volume of each wave	
		This parameter is used mainly to adjust the volume balance between waves.	
Tone Pan	L64–63R	Pan of each Rhythm Tone	
(Rhythm Tone Pan)		L64 is far left, 0 is center, and 63R is far right.	
Random Pan Depth	0-63	Amount by which the pan will be varied randomly each time you play a note	
		Increasing this value will produce a greater amount of random change.	
Alternate Pan Depth	L63-63R	Amount by which the pan will be moved alternately between left and right each time you play a note	
		Increasing this value will produce a greater amount of change. This value can be adjusted in the L or	
		R direction, and these will invert the order in which the tone is panned to left and right. If you want	
		two tones to alternate between left and right, set each tone to opposite L and R values.	
Wave Pan	L64–63R	Pan of each wave	
		L64 is far left, 0 is center, and 63R is far right.	
Wave Rnd Pan Sw	OFF, ON	Use this setting to cause the waveform's panning to change randomly each time a key is pressed (ON)	
(Wave Random Pan		or not (OFF).	
Switch)		The range of the panning change is set by the Random Pan Depth setting.	
Wave Alt Pan Sw	OFF, ON,	Set this to ON to pan the Wave according to the Alternate Pan Depth settings, or to REVS when you	
(Wave Alternate Pan	REVS	want the panning reversed.	
Switch)		If you do not want the panning to change each time a key is pressed, set this to OFF.	

Amp Env (Amp Envelope)

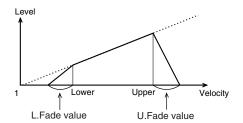
These parameters specify the depth of the amp envelope (change in volume over time) and the shape of the envelope itself.



Parameter	Value	Description		
A-Env V-Curve	FIX, 1–7	Curve by which pad playing dynamics will affect the volume of the tone		
(Amp Envelope		If you specify "FIX," the volume of the tone will remain the same regardless of your playing dynamics.		
Velocity Curve)				
A-Env V-Sens	-63-+63	Amount by which pad playing dynamics will affect the volume of the tone		
(Amp Envelope		Specify a positive (+) value if you want the volume of the tone to increase as you play more strongly.		
Velocity Sensitivity)		Specify a negative (-) value if you want the volume to decrease.		
A-Env T1 V-Sens	-63-+63	Amount by which T1 (time) of the Amp envelope will change in response to your playing dynamics		
(Amp Envelope		Increasing this value will produce a greater change between softly played and strongly played notes.		
Time 1 Velocity		Specify a positive (+) value if you want the T1 time to speed up, or a negative (-) value if you want it		
Sensitivity)		to slow down.		
A-Env T4 V-Sens	-63-+63	Amount by which T4 (time) of the Amp envelope will change in response to the speed at which you		
(Amp Envelope		release the pad (key-off velocity)		
Time 4 Velocity		Increasing this value will produce a greater change between slowly released and quickly released		
Sensitivity)		notes. Specify a positive (+) value if you want the T4 time to speed up, or a negative (-) value if you want it to slow down.		
A-Env Time1-4	0–127	Amp envelope times (T1–T4)		
(Amp Envelope		Higher settings of these values will lengthen the time over which the next volume level of the enve-		
Time 1–4)		lope is reached. (For example, T2 is the time over which the level changes from L1 to L2.)		
		* Realtime modify knob [A] adjusts Time 1, knob [D] adjusts Time 3, and knob [R] adjusts Time 4.		
A-Env Level1–3	0–127	Amp envelope levels (L1–L3)		
(Amp Envelope		Specifies the change in volume at each point, relative to the reference level.		
Level 1–3)		* Realtime modify knob [S] adjusts Level 3.		

WMT (Wave Mix Table)

With the MC-909, up to four stereo Waves can be assigned to a single Rhythm Tone. You can select the way tones sound according to the force with which the keys are played, thus allowing you to create Rhythm Tones featuring great expressive power. This function is called **WMT (Wave Mix Table)**.



Parameter	Value	Description
Velocity Control	OFF, ON,	Specifies whether velocity data will be used (ON) or ignored (OFF)
(WMT Velocity Con-	RANDOM	If you specify RANDOM, the waves will sound randomly, regardless of velocity data.
trol)		
Velo Fade Lower	0–127	Rate of volume change when you play less strongly than the lower limit of the velocity range
(WMT Velocity Fade		Greater settings for this value will cause the volume to decrease more gradually. Set this to 0 if you
Width Lower)		want notes outside the velocity range to not sound at all.
Velo Range Lower	1–Upper	Lower limit of velocities that will sound the tone
(WMT Velocity		Set this parameter if you want to use velocity to switch between waves.
Range Lower)		
Velo Range Upper	Lower-127	Upper limit of velocities that will sound the tone
(WMT Velocity		Set this parameter if you want to use velocity to switch between waves.
Range Upper)		* It is not possible to set Lower to a greater value than Upper, nor Upper to a lesser value than Lower.
Velo Fade Upper	0–127	Rate of volume change when you play more strongly than the upper limit of the velocity range
(WMT Velocity Fade		Greater settings for this value will cause the volume to decrease more gradually. Set this to 0 if you
Width Upper)		want notes outside the velocity range to not sound at all.

Genaral

Various other parameters are provided here.

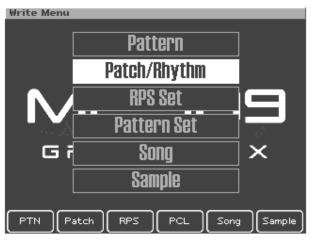
Parameter	Value	Description	
Rhythm Level	0–127	Overall volume of the Rhythm Set	
(Rhythm Set Level)			
Assign Type	MULTI,	This setting determines whether a Rhythm Tone note that is playing is stopped when the same	
	SINGLE	played again (SINGLE), or whether it will continue to play, layered with the new note.	
Mute Group	OFF, 1–31	The Mute Group function allows you to designate two or more Rhythm Tones that are not allowed to	
		sound simultaneously. For example, in a real-world acoustic drum set, an open hi-hat and a closed hi-	
		hat sound will never occur simultaneously, since they're produced by the same instrument. To simulate	
		this behavior on the MC-909, you can set the open and closed hi-hat Rhythm Tones to the same Mute	
		Group. You can have up to 31 Mute Groups per Rhythm Set. If you do not want a Rhythm Tone to use	
		a Mute Group, turn the feature off.	
Tone Env Mode	NSUS, SUST	When a loop-type waveform is selected, it will normally continue to sound as long as a key is pressed.	
(Rhythm Tone		If you want a note to decay naturally even when the key remains pressed, set this to "NSUS."	
Envelope Mode)		* If a one-shot type Wave is selected, it will not sustain even if this parameter is set to "SUST."	
Tone Pitch Bend	0-48	Specifies the amount of pitch change that will occur when you move the Pitch Bend Lever.	
Range			
(Rhythm Tone Pitch			
Bend Range)			
Tone Reverb Send	0–127	Specifies the depth of reverb applied to each Rhythm Tone	
Level		Set this to 0 if you don't want to apply reverb.	
(Rhythm Tone Re-			
verb Send Level)			
Tone Output Asgn	DRY, MFX1,	Specifiests the original sound of each Rhythm Tone will be output	
(Rhythm Tone	MFX2,	DRY: Output to MIX OUTPUT jacks without passing through effects	
Output Assign)	COMP,	MFX1 (2): Output through multi-effects 1 (or 2)	
	DIR1, DIR2	COMP: Output through the compressor	
		DIR1 (2): Output to the DIRECT 1 (or DIRECT 2) jacks without passing through effects	

Saving a Patch/Rhythm Set

Patch/rhythm set settings that you edit will be lost if you re-select the patch/rhythm set or turn off the power. If you want to keep your edits, you must use the following procedure to save the data.

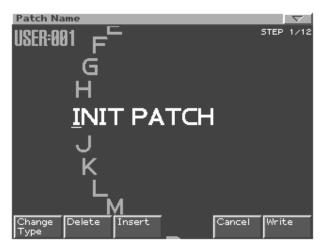
1. Press [WRITE].

The Write menu screen will appear. Make sure that "Patch/Rhythm" is highlighted.



2. Press [ENTER] or [F2 (Patch)].

The patch name/rhythm set name entry screen will appear.



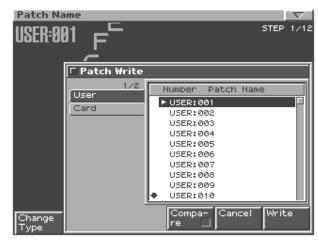
3. Assign a name to the patch/rhythm set.

[CURSOR (left/right)]	Moves the cursor (the location at which
	to enter/edit a character).
[CURSOR (up/down)]	Switches letters between uppercase
	and lowercase.
[VALUE] [INC/DEC]	Selects characters.
[F1 (Change Type)]	Selects the type of character.
	Each time you press this, you will al-
	ternately select the first character of
	the uppercase alphabet (A), lower-
	case alphabet (a), or numerals and
	symbols (0).
[F2 (Delete)]	Deletes the character at the cursor loca-
	tion, while shifting the following char-
	acters to the left, closing the gap.
[F3 (Insert)]	Inserts a space at the cursor location.
* 10 1 11 11 1	(TE(Count))

If you decide not to enter the name, press [F5 (Cancel)].

4. When you have finished entering the name, press [F6 (Write)].

A screen in which you can select the write-destination patch/ rhythm set will appear.



5. Use [VALUE] or [INC/DEC] to select the writedestination patch/rhythm set.

Use [CURSOR (left/right)] to select the bank (user, card).

6. Press [F6 (Write)].

A message will ask you to confirm that you want to write the data.

7. To write the data, press [F6 (Execute)].

* If you decide to cancel, press [F5 (Cancel)].

Copying and Initializing a Patch/Rhythm Set

Copying a Patch Tone

Here's how the tone settings of a patch can be copied to the specified tone of the currently selected patch.

- 1. In the top screen of patch / sample mode, move the cursor to the copy-destination patch.
- 2. Press [F2 (Edit)] to access the edit screen.
- **3.** Press [F5 (Tone Copy)]. The Patch Tone Copy window will appear.
- 4. Use [CURSOR] and [VALUE] to select the copysource patch and tone, and the copy-destination tone.

Parameter	Value	Description
Source		
Patch Bank	Current,	Bank of the copy-source patch
	Preset A-G,	To specify the currently selected
	User, Card	patch as the copy-source, set this
		to "Current."
No.	1-128	Patch number of the copy-source
		If Patch Bank is set to "Current,"
		this cannot be selected.
Source	1–4	Copy-source tone at the copy-
Patch Tone		source patch
Destination		
Temporary	1–4	Copy-destination tone at the cur-
Patch Tone		rently selected patch

5. Press [F6 (Execute)].

A message will ask you for confirmation.

6. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

HINT

If you press [F4 (Compare)] in step 4 so a " \checkmark " appears in the check box, you can use the velocity pads to play the copy source patch.

Initializing a Patch

Here's how the settings of the currently selected patch can be returned to their default values.

- 1. In the top screen of patch / sample mode, select a part assigned a patch.
- **2.** Turn [VALUE] to select the patch that you want to initialize.
- 3. Press [F2 (Edit)] to access the edit screen.

4. Press [F4 (Patch Init)]. A message will ask you for confirmation.

5. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

Copying a Rhythm Tone (Key)

Here's how the rhythm tone (percussion sound) settings of a rhythm set can be copied to the specified rhythm tone of the currently selected rhythm set.

- 1. In the top screen of patch / sample mode, move the cursor to the copy-destination rhythm set.
- 2. Press [F2 (Edit)] to access the edit screen.
- **3.** Press [F5 (R.Tone Copy)]. The Rhythm Tone Copy window will appear.
- Use [CURSOR] and [VALUE] to select the copysource rhythm set and rhythm tone, and the copydestination rhythm tone.

Parameter	Value	Description
Source		
Rhythm	Current,	Bank of the copy-source rhythm set
Bank	Preset A,	To specify the currently selected
	User, Card	rhythm set as the copy-source,
		set this to "Current."
No.	1–128	Rhythm set number of the copy-
		source
		If Rhythm Bank is set to "Cur-
		rent," this cannot be selected.
Source	B3-D5	Copy-source rhythm tone (key) at
Rhythm Key		the copy-source rhythm set
Destination		
Temporary	B3-D5	Copy-destination rhythm tone
Rhythm Key		(key) at the currently selected
		rhythm set

5. Press [F6 (Execute)].

A message will ask you for confirmation.

6. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

HINT

If you press [F4 (Compare)] in step 4 so a " \checkmark " appears in the check box, you can use the velocity pads to play the copy source rhythm set.

Initializing a Rhythm Set

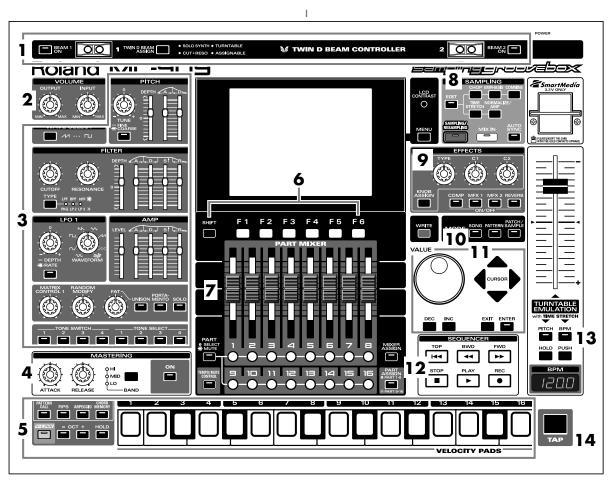
Here's how the settings of the currently selected rhythm set can be returned to their default values.

- 1. In the top screen of patch / sample mode, select a part assigned a rhythm set.
- **2.** Turn [VALUE] to select the rhythm set that you want to initialize.
- 3. Press [F2 (Edit)] to access the edit screen.
- **4.** Press [F4 (Rhythm Init)]. A message will ask you for confirmation.
- 5. Press [F6 (Execute)] to execute.
- * To cancel, press [F5 (Cancel)].

Song Mode

In this mode you can play, record, and edit songs.

How Things Work (in Song mode)



When you press the Mode section **[SONG] button**, the button's indicator will light and the MC-909 will be in Song mode. In Song mode, the various parts of the panel will perform the following functions.

1. D Beam controllers

Pass your hand over these to modify the pattern (p. 35).

[BEAM 1 ON]	Turns the left D Beam controller
	(BEAM 1) on/off.
[BEAM 2 ON]	Turns the right D Beam controller
	(BEAM 2) on/off.
[TWIN D BEAM ASSIGN]	Selects the function of the D Beam
	controller.

2. Volume section

[OUTPUT]	Adjusts the output volume of the MIX OUT jacks and the headphone.
[INPUT]	Adjusts the input volume from the INPUT jacks.

3. Realtime Modify section

These controls modify the sound (p. 33).

4. Mastering section

[ON]	Switches the mastering effect (compressor) on/off.
	0 1 1
[BAND]	Selects the frequency band to adjust.
[ATTACK]	Specify the time from when the volume goes up
	the threshold level until the compressor effect ap-
	plies.
[RELEASE]	Specify the time from when the volume falls below
	the threshold level until the compressor effect no
	longer applies.

5. Velocity pads

Use these pads as a keyboard to play sounds or trigger phrases (p. 27).

6. Function buttons

These buttons access the function screens indicated in the bottom line of the display.

7. Part Mixer section

Here you can adjust the volume, pan, etc., of each part (p. 33).

[PART]	Selects the function of the Part buttons [1]–
(SELECT/MUTE)	[16].
	The buttons work as Part Select buttons
	when the indicator is not lighted, and as
	Mute buttons when the indicator is lit.
[TEMPO/MUTE	Switches on/off the Tempo/Mute part (a
CONTROL]	part that records tempo changes and mute
	operations, p. 42).
[MIXER ASSIGN]	When you press this button so its indicator
	lights, the Mixer screen will appear.
[PART ASSIGN]	Selects the parts that are controlled by the
	sliders.
	The sliders will control parts 1–8 if this indi-
	cator is not lighted, or parts 9–16 if the indi-
	cator is lit.

8. Sampling section

[EDIT]	When you press this button, the Sample edit screen will ap- pear (p. 114).
[SAMPLING/RESAMPLING]	When you press this button, the Sampling menu screen will appear (p. 112).
[MIX IN]	Mix the sound from the INPUT jacks into the output (p. 34).
[AUTO SYNC]	Synchronize a sample with the pattern (p. 36).

9. Effect section

Applies special effects to the sound (p. 88).

[COMP]-[REVERB]	Switch each effect on/off (p. 88).
[KNOB ASSIGN]	Selects the effect to be controlled in real
	time (p. 91).
[TYPE]	Selects the type of effect.
[C1], [C2]	Modifies the assigned function in real
	time.

10. Mode section

Press the [SONG] button to enter Song mode. Pressing one of the other two buttons will switch you to the corresponding mode.

11. Cursor/Value section

Use these buttons and dial to select songs or input values (p. 18).

12. Sequencer section

[PLAY]	Plays a song (p. 82).
[STOP]	Stops playback/recording.
[FWD]	Advances to the next step.
[BWD]	Returns to the previous step.
[TOP]	Moves to the beginning of the song.
[REC]	Used when recording (p. 83).

13. Turntable emulation

Applies an effect that simulates increasing/decreasing the rotational speed of a turntable (p. 36).

14. TAP button

Lets you set the BPM (tempo) by pressing the button at the desired timing (p. 25).

Playing songs

Two or more patterns connected in the order of playback are called a "song."

When you play back a song, the patterns will switch automatically you don't need to select each pattern yourself. In one song, you can register up to 50 patterns in the desired order of playback.

The number describing the order in which the patterns are arranged is called the "step."

Top screen of Song mode

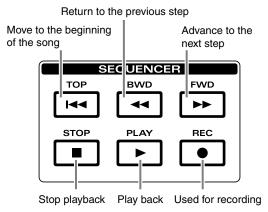


Function buttons

[F1 (Next Step)]	When Song Step Sw (p. 128) is set to "MANU- AL," playback will automatically advance to the next step if you press this button to dis- play the "•" mark.
[F2 (Song Edit)]	Edit the settings of the song (p. 84).
[F3 (Mixer)]	Specify the volume, pan, etc., of each part (p. 33).
[F4 (Effects)]	Apply special effects to the sound (p. 88).
[F5 (Mastering)]	Make settings for the mastering effect (p. 108).
[F6 (BPM Click)]	Set the tempo, and turn the metronome on/ off (p. 25).

Basic playback operation

Use the following buttons to control the playback.



* The [FWD], [BWD], and [TOP] buttons can also be used during playback.

Song Reset

You can have playback resume from step 1 when the currently playing pattern finishes playing.

This is convenient when you want to play back a few measures while you adjust the BPM to match a turntable, and then when the BPM is correct, play back from step 1.

1. While the song is playing, press [PLAY].

The screen will indicate "SONG RESET." When the currently playing pattern finishes, the playback will return to the beginning of the song.

Selecting a song to play

There are two ways to select a song: directly, or from a list.

Selecting a song directly

While the song is stopped, use [VALUE] or [INC/DEC] to select another song.

Selecting a song from a list

1. Press [ENTER].

The song list will appear.

2. Use [VALUE], [INC/DEC], or [CURSOR (up/down)] to select a song.

If you hold down [SHIFT] while using these controls, the song number will change in steps of ten.

- 3. Press [F6 (Select)] or [ENTER] to confirm your selection.
- * If you decide not to execute, press [F5 (Cancel)].

Changing the BPM or mute status

In Song mode as well, you can change the BPM or part muting status in the same way as in Pattern mode. For details on how to change these, refer to the section "Playing a pattern" (p. 24).

Recording a song

You can input patterns one by one to specify the order in which the patterns will be played back.

Recording procedure

- 1. Use [VALUE] or [INC/DEC] to select the song number that you want to record.
- 2. Press [REC].



- **3.** Select the pattern to be played at this step. Refer to Selecting a pattern to play back (p. 24)
- **4. Press [ENTER].** You will proceed to the next step.
- 5. Repeat the above steps 3 and 4 to input the patterns to be played for the subsequent steps.
- 6. After you have finished inputting the last step, press [STOP] to end the recording process.

Auditioning a pattern

While you are recording, you can press [PLAY] to audition the selected pattern. You can select different patterns while you audition them. To stop the auditioning, press [STOP].

Moving between steps

After recording several steps, you can press [BWD] [FWD] to move between steps.

Editing the setup parameters

During song recording, you can edit setup parameters (p. 26) such as part mute and effect settings and then press [ENTER] to register the state of those parameters. This will simply store the setup parameters of each pattern as song data, and does not affect the original pattern in any way.

By using this to change the mute status of a pattern or to change the MFX type, you can have a single pattern play in a variety of ways as the song progresses.

- Tempo (BPM) can be input/edited only at the first step.
 - It is not possible to change the tempo during the song.

Song editing

"Song editing" is the process of editing individual steps of performance data for a song.

- * You must stop the song playback before you can edit the song.
- 1. Select the song that you want to edit.
- 2. In Song mode, press [F2 (Song Edit)] to access the Song Edit screen.

N	ong	_		Psy Trance S		
	urre	ent s	song Po:	sition	ISTE	P06/10
		Step	Patter	n	Tempo M	eas
		1	P:001	MINIMAL_01	J=141.0	4
	I 1	2	P:001	MINIMAL_01	J=141.0	4
	I 1	з	P:001	MINIMAL_01	J=141.0	4
	I 1	4	P:001	MINIMAL_01	J=141.0	4
	Ι_	5	P:001	MINIMAL_01	J=141.0	4
	I D	- 6	P:001	MINIMAL_01	J=141.0	4
		7	P:001	MINIMAL_01	J=141.0	4
	I 1	8	P:001	MINIMAL_01	J=141.0	4
	I 1	9	P:001	MINIMAL_01	J=141.0	4
	 +	10	P:001	MINIMAL_01	J=141.0	4
	_					
A	lear II		Delete	Insert Copy		Close

Type of song editing

[F1 (Clear All)]	Erase all steps.
(Clear All Steps)	
[F2 (Delete Step)]	Delete an unwanted step.
[F3 (Insert Step)]	Insert a step.
[F4 (Copy)]	Copies a song to a different song.
(Song Copy)	
[F6 (Close)]	Returns to the previous screen.

Clear All Steps

This operation clears all of the steps that you input, returning them to the blank condition. Use this when you want to create a song from scratch.

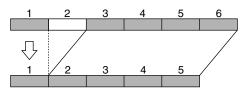
1. Press [F1 (Clear All)].

A message will ask you for confirmation.

- 2. If you are sure that you want to clear all steps, press [F6 (Execute)].
 - * To cancel, press [F5 (Cancel)].

Delete Step

This operation deletes an unwanted step from the song, and joins the two sections.

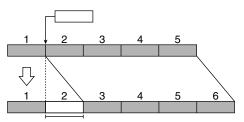


- 1. Use [VALUE] or [INC/DEC] to select the step that you want to delete.
- 2. Press [F2 (Delete)].

The selected step will be deleted.

Insert Step

This operation inserts a step into the song, and moves subsequent steps backward by one.



1. Use [VALUE] or [INC/DEC] to select the step at which you want to insert a pattern.

In the example shown above, select step 2.

2. Press [F3 (Insert)].

A step containing the same pattern as the step you selected in step 1 will be inserted, and the subsequent steps will be moved backward by one.

Song Copy

This operation copies song data to a different song.

- 1. Press [F4 (Copy)].
- 2. Select the copy-destination song.
- 3. Press [F6 (Execute)].
- * To cancel, press [F5 (Cancel)].



If the copy destination contains data, that data will be erased when you execute this copy operation.

Saving a song

Songs that you record will be lost if you turn off the power. If you want to keep the song data, you must save it as follows.

1. Select the song that you want to save.

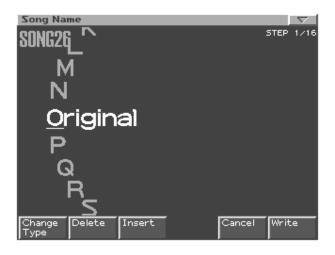
2. Press [WRITE].

The write menu screen will appear. Make sure that "Song" is highlighted.



3. Press [ENTER] or [F5 (Song)].

The song name input screen will appear.



4. Assign a name to the song you created.

[CURSOR (left/right)]	Moves the cursor (the location at which
	to enter/edit a character).
[CURSOR (up/down)]	Switches letters between uppercase
	and lowercase.
[VALUE] [INC/DEC]	Selects characters.
[F1 (Change Type)]	Selects the type of character.
	Each time you press this, you will al-
	ternately select the first character of
	the uppercase alphabet (A), lower-
	case alphabet (a), or numerals and
	symbols (0).
[F2 (Delete)]	Deletes the character at the cursor loca-
	tion, while shifting the following char-
	acters to the left, closing the gap.
[F3 (Insert)]	Inserts a space at the cursor location.

* If you decide not to enter the name, press [F5 (Cancel)].

5. When you finish inputting the name, press [F6 (Write)].

A message will ask you to confirm that you want to write the data.



6. To write the data, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

MEMO



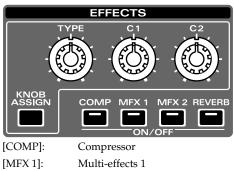
Compressor/Multi-effect/Reverb/Mastering Effect settings

Effects

Here you can apply special effects to the sound.

Effect on/off

Use the ON/OFF buttons of the Effects section to switch each effect on/off.



[MFX 1]: Multi-effects 1 [MFX 2]: Multi-effects 2 [REVERB]: Reverb

Effect settings

- 1. In the top screen of each mode, press [F4 (Effects)].
- 2. Press [F1]–[F5] to select an effect to adjust.

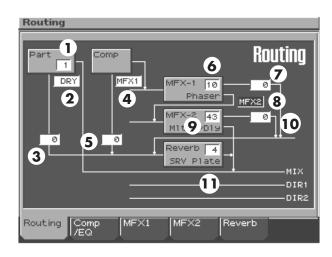
[F1 (Routing)]	Specify the connections (routing) between parts, effects, and output destinations.
[F2 (Comp/EQ)]	Compressor settings.
[F3 (MFX 1)]	Multi-effects 1 settings.
[F4 (MFX 2)]	Multi-effects 2 settings.
[F5 (Reverb)]	Reverb settings.

3. Use [CURSOR] to select a parameter.

4. Use [VALUE] or [INC/DEC] to make settings.

Effect connection (Effect Routing)

You can specify the connections independently for each pattern. The way in which the direct sound is output (**2**) and the depth of reverb (**3**) can be set independently for each part.



Parameter	Range	Explanation
1.	1–16, EXT	The part for which you are
Part Number		making effect settings.
		EXT: External input
2.	DRY, MFX1,	How the original sound of
Part Output	MFX2,	each part will be output
Assign	COMP, DIR1,	DRY: Output to MIX OUT-
0	DIR2, RHY	PUT jacks without passing
		through effects
		MFX1 (2): Output through
		multi-effects 1 (or 2)
		COMP: Output through the
		compressor
		DIR1 (2): Output to the DI-
		RECT 1 (or DIRECT 2) jacks
		without passing through ef-
		fects
		RHY: Output according to
		the settings of the rhythm
		set assigned to the part
		* "RHY" can be set only
		when a rhythm set is as-
		signed to the part.
3.	0–127	Depth of reverb applied to
Part Reverb		each part
Send Level		Set this to 0 if you don't
		want to apply reverb.
4.	(see explana-	Output destination of the
Comp Output	tion)	sound processed through the
Assign		compressor.
		DRY: MIX OUTPUT jacks
		MFX1 (2): Multi-effects 1
		(or 2)
5.	0–127	Depth of reverb applied to the
Comp Reverb		sound processed through the
Send Level		compressor
		Set this to 0 if you don't
-		want to apply reverb.
6.	See "Multi-Ef-	The effect used by multi-ef-
(MFX Type)	fects List" (p.	fects 1
	92)	* For details on each effect,
		refer to "Multi-Effects List"
		(p. 92).

0

MFX1

GAIN

 $(\cdot \cdot \cdot)$

LEVEL

127

Effects

Parameter	Range	Explanation
7.	0–127	Depth of reverb applied to the
MFX1 Reverb		sound processed through
Send Level		multi-effects 1
		Set this to 0 if you don't
		want to apply reverb.
8.	DRY, MFX2	Output destination of the
MFX1 Output		sound processed through
Assign		multi-effects 1
		DRY: MIX OUTPUT jacks
		MFX2: Multi-effects 2
		(multi-effects 1 and 2 will be
		connected in series)
9.	See "Multi-Ef-	The effect used by multi-ef-
(MFX Type)	fects List" (p.	fects 2
	92)	* For details on each effect,
		refer to "Multi-Effects List"
		(p. 92).
10.	0–127	Depth of reverb applied to the
MFX2 Reverb		sound processed through
Send Level		multi-effects 2
		Set this to 0 if you don't
		want to apply reverb.
11.	See "Reverb"	The type of reverb
(Reverb Type)	(p. 90)	* For details on reverb, refer
		to "Reverb" (p. 90).

HINT

If you change the "Output Assign" setting, the routing connections in the screen will also change.



Parameters 4-11 in the above table are linked with the identically named parameters in the setting screens of each effect.

Compressor

The compressor is an effect that limits the level of loud sounds and boosts the level of soft sounds, making the overall level more consistent.

2KEHZJ

0

Reverb

0



0 200[Hz]

 $MF \times 1$

0

0

MF×2

EA

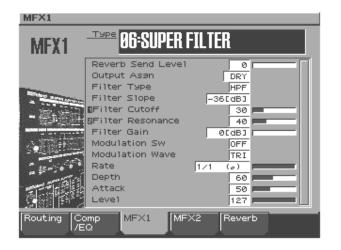
Comp /EQ

Routing

Parameter	Range	Explanation
Comp Reverb	0–127	Depth of reverb applied to the
Send Level		sound processed through the
		compressor
		Set this to 0 if you don't
		want to apply reverb.
Comp Output	DRY, MFX1,	Output destination of the
Assign	MFX2	sound processed through the
		compressor
		DRY: MIX OUTPUT jacks
		MFX1 (2): Multi-effects 1
		(or 2)
Attack Time	0.05–50 ms	Time from when the volume
		goes up the threshold level
		until the compressor effect ap
		plies
Release Time	0.05–2000 ms	Time from when the volume
		falls below the threshold leve
		until the compressor effect no
		longer applies
Threshold	0–127	Volume level at which com-
		pression begins
Ratio	1:1-inf:1	Compression ratio (inf: infini
		ty)
Output Gain	0– +24 dB	Level of the output sound
Low Freq	200, 400 Hz	Reference frequency of the
		low range
Low Gain	-15-+15	Amount of low-range boost/
		cut
High Freq	2k, 4k, 8kHz	Reference frequency of the
		high range
High Gain	-15-+15	Amount of high-range boost/
		cut
Level	0–127	Output volume of the com-
		pressor

Multi-effects

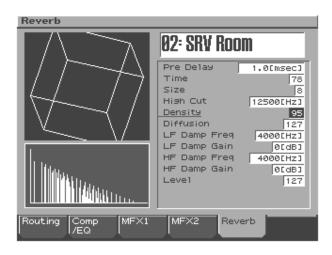
These are general-purpose multi-effects that can transform the sound, and give it a completely different character. MFX1 provides 38 types, and MFX2 provides 47 types. You can select one effect type for each of these two effect units. A wide range of types are included, such as distortion and flanger. Although the multi-effect types include a compressor, this is independent of the compressor described earlier.



Parameter	Range	Explanation
(MFX Type)	0–38 (MFX1) 0–47 (MFX2)	The effect used by multi-ef- fects 1 (or 2)
		 * For details on each effect, refer to "Multi-Effects List" (p. 92).
MFX1 (2) Re- verb Send Level	0–127	Depth of reverb applied to the sound processed through multi-effect 1 (2) Set this to 0 if you don't want to apply reverb.
MFX1 Output Assign	DRY, MFX2	Output destination of the sound processed through multi-effects 1 DRY: MIX OUTPUT jacks MFX2: Multi-effects 2 (multi-effects 1 and 2 will be connected in series) * This parameter exists only for MFX 1.

Reverb

Reverb is an effect that creates the reverberation that is characteristic of sound heard in a hall. You can choose from four types of reverb.

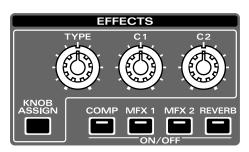


Parameter	Range	Explanation
(Reverb Type)	OFF, 1–4	Type of reverb
		OFF: Reverb not used
		1 (REVERB): Basic reverb
		2 (SRV ROOM): A more de-
		tailed simulation of room
		reverberation
		3 (SRV HALL): A more de-
		tailed simulation of hall re-
		verberation
		4 (SRV PLATE): A simula-
		tion of a plate echo (a reverb
		device using a metal plate)
1 (REVERB)		
Туре	ROOM1,	Type of reverb/delay
51	ROOM2,	ROOM1: Short, high-densi-
	STAGE1,	ty reverberation
	STAGE2,	ROOM2: Short, low-density
	HALL1,	reverberation
	HALL2,	STAGE1: A greater amount
	DELAY,	of late reverberation
	PAN-DELAY	STAGE2: Emphasis on ear-
		ly reflections
		HALL1: Clear reverberation
		HALL2: Rich reverberation
		DELAY: A conventional de-
		lay
		PAN-DELAY: A delay in
		which the reflected sound
		moves between left and
		right
Time	0-127	Length of reverberation
Time	0-127	(Type: ROOM1–HALL2)
		Delay time
		(Type: DELAY, PAN-DELAY)
HF Damp	200–8000 Hz,	Frequency at which the high-
III Damp	BYPASS	frequency portion of the re-
	DIFA55	verberation will be cut (BY-
Dolary E	0.127	PASS: no cut)
Delay Feed-	0-127	Number of delay repetitions
back		(valid only if Type is DELAY
T 1	0.107	or PAN-DELAY)
Level	0-127	Volume of the reverb sound/
		delay sound

Parameter	Range	Explanation	
2 (SRV ROOM) / 3 (SRV HALL) / 4 (SRV PLATE)			
Pre Delay	0.0–100.0 ms	Delay time from original	
		sound until reverb is heard	
Time	0–127	Length of reverb	
Size	1-8	Size of room/hall	
High Cut	160–12500Hz,	Frequency at which the high-	
	BYPASS	frequency portion of the final	
		output sound will be cut (BY-	
		PASS: no cut)	
Density	0–127	Density of reverb	
Diffusion	0–127	Change in reverb density over	
		time	
		Higher settings will cause	
		density to increase as time	
		passes. (This is more notice-	
		able with longer Time set-	
		tings.)	
LF Damp Freq	50–4000 Hz	Frequency at which the low-	
		frequency portion of the re-	
		verb will be cut	
LF Damp	-36–0 dB	Amount of attenuation for LF	
Gain		Damp (0: no attenuation)	
HF Damp	4000-12500	Frequency at which the high-	
Freq	Hz	frequency portion of the re-	
		verb will be cut	
HF Damp	-36–0 dB	Amount of attenuation for HF	
Gain		Damp (0: no attenuation)	
Level	0–127	Volume of the reverb sound	

Realtime control of effects

The Effects section lets you control effect parameters in real time.



Selecting the effect that you want to control

- Press and hold [KNOB ASSIGN]. The ON/OFF button of the currently selected effect will blink.
- 2. Still holding down [KNOB ASSIGN], press one of the [COMP]–[REVERB] buttons to select the effect you want to control.

Knob	Parameter		
When "COMP" is selected			
[TYPE]	Attack Time		
[C1]	Release time		
[C2]	Threshold		
When "MFX1/2" is sele	When "MFX1/2" is selected		
[TYPE]	Select the type of effect (p. 92).		
[C1], [C2]	Control the assigned function in real		
	time.		
When "REVERB" is selected			
[TYPE]	Reverb Type		
[C1]	Time		
[C2]	Level		

NOTE

If you are controlling a multi-effect parameter that is set in terms of a note value, it will not be possible to use the knob to select the note.

Multi-Effects List

Multi-Effects Types

There are 47 types of multi-effect. MFX1 lets you use 38 types (delay-type effects are unavailable), and MFX2 lets you use all 47 types.

FILTE	ER (9 types)	
01	STEREO EO	p. 92
02	SPECTRUM	p. 92
03	ENHANCER	p. 93
04	ISOLATOR	p. 93
05	LOW BOOST	p. 93
06	SUPER FILTER	p. 93
07	STEP FILTER	p. 94
08	AUTO WAH	p. 94
09	HUMANIZER	p. 94
	ULATION (7 types)	r.,-
10	PHASER	p. 94
11	STEREO PHASER	p. 95
12	STEP PHASER	p. 95
13	RING MODULATOR	p. 95
10	TREMOLO	p. 95
15	AUTO PAN	p. 96
16	ROTARY	p. 96
	RUS (6 types)	P. 20
17	HEXA-CHORUS	p. 96
17	TREMOLO CHORUS	p. 96
10	SPACE-D	p. 90 p. 97
20	STEREO CHORUS	p. 97
20	STEREO FLANGER	p. 97 p. 97
21	STEP FLANGER	p. 97
	AMICS (7 types)	p. 90
23	OVERDRIVE	p. 98
23	DISTORTION	
24 25	GUITAR AMP SIMULATOR	p. 98 p. 99
25	STEREO COMPRESSOR	
20	STEREO COMPRESSOR	p. 100
27	SLICER	p. 100 p. 100
20 29	GATE	p. 100 p. 101
	(6 types)	p. 101
30	LOFI NOISE	n 101
31	LOFI COMPRESS	p. 101
31		p. 102
32	LOFI RADIO TELEPHONE	p. 102
		p. 102
34	PHONOGRAPH TAPE ECHO	p. 102
35 DITCI	I (2 types)	p. 103
	FBK PITCH SHIFTER	- n 102
36		p. 103
37	2Vo PITCH SHIFTER	p. 103
	RB (1 type)	104
38	GATED REVERB	p. 104
	Y (9 types)	
	e cannot be selected for MFX1.	101
39	STEREO DELAY	p. 104
40	MODULATION DELAY	p. 105
41	TRIPLE TAP DELAY	p. 105
42	QUADRUPLE TAP DELAY	p. 105
43	MULTI TAP DELAY	p. 106
44	REVERSE DELAY	p. 106
4 -	SHUFFLE DELAY	p. 106
45		
45 46 47	TIME CONTROL DELAY TIME SKIP DELAY	p. 100 p. 107 p. 107

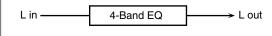
Multi-Effects Parameters

MEMO

Parameters with the designators "#1" and "#2" can be controlled using the [C1] and [C2] knobs of the effect section.

01: STEREO EQ (Stereo Equalizer)

This is a four-band stereo equalizer (low, mid x 2, high).

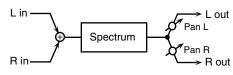


R in	4-Band EQ	→ R out

Parameter	Value	Description
Low Freq	200, 400 Hz	Frequency of the low range
Low Gain	-15– +15 dB	Gain of the low frequency
#1		range
High Freq	2000, 4000,	Frequency of the high range
	8000 Hz	
High Gain	-15– +15 dB	Gain of the high frequency
#2		range
Mid1 Freq	200–8000 Hz	Frequency of Middle Range 1
Mid1 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of Middle Range 1
		Select a higher Q value to
		narrow Middle Range 1.
Mid1 Gain	-15– +15 dB	Gain of Middle Range 1
Mid2 Freq	200–8000 Hz	Frequency of Middle Range 2
Mid2 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of Middle Range 2
		Select a higher Q value to
		narrow Middle Range 2.
Mid2 Gain	-15– +15 dB	Gain of Middle Range 2
Level	0–127	Output level

02: SPECTRUM

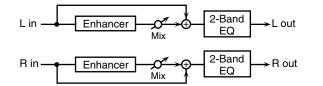
This is a type of filter that modifies the timbre by boosting or cutting the level of specific frequencies. It is similar to an equalizer, but has eight frequency points fixed at locations most useful for adding character to the sound.



Parameter	Value	Description
Q	0.5, 1.0, 2.0,	Simultaneously adjusts the
	4.0, 8.0	width of the adjusted ranges
		for all of the frequency bands.
Pan #1	L64-63R	Stereo location of the SPEC-
		TRUM output
Level #2	0–127	Output level
Band 1 (250Hz)	-15-+15 dB	Gain of each frequency band
Band 2 (500Hz)]	* This can be set using the
Band 3 (1kHz)]	sliders of the part mixer.
Band 4 (1.25Hz)	1	1
Band 5 (2kHz)	1	
Band 6 (3.15Hz)	1	
Band 7 (4kHz)	1	
Band 8 (8kHz)	1	

03: ENHANCER

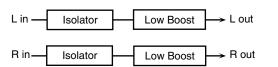
Controls the overtone structure of the high frequencies, adding sparkle and brightness to the sound.



Parameter	Value	Description
Sens #1	0–127	Sensitivity of the enhancer
Mixl #2	0–127	Level of the overtones generated by
		the enhancer
Low Gain	-15– +15 dB	Gain of the low frequency range of
		frequencies
High Gain	-15– +15 dB	Gain of the high frequency range of
		frequencies
Level	0–127	Output level

04: ISOLATOR

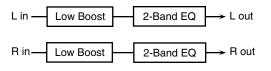
This is an equalizer that radically cuts the volume of selected frequencies, allowing you to create special effects cutting the volume in various ranges.



Parameter	Value	Description
Boost/Cut	-60- +4 dB	These boost and cut each of the
High		High, Middle, and Low frequency
Boost/Cut		ranges.
Middle #1		At -60 dB, the sound becomes in-
Boost/Cut		audible. 0 dB is equivalent to the
Low #2		input level of the sound.
AntiPhase	OFF, ON	Settings of the Anti-Phase function
Middle Sw		for the Middle frequency ranges.
		When turned on, a stereo copy of
		the sound is phase-inverted and
		added to the signal.
AntiPhase	0–127	Adjusts the level settings for the
Middle		Middle frequency ranges.
Level		Adjusting this level for certain
		frequencies allows you to lend
		emphasis to specific elements
		within a sound. (This is effective
		only for stereo source.)
Anti Phase	OFF, ON	Settings of the Anti-Phase function
Low Sw		for the Middle frequency ranges
Anti Phase	0–127	The parameters are the same as
Low Level		for the Middle frequency ranges.
Low Boost	OFF, ON	Turns Low Booster on/off.
Sw		This emphasizes the bottom fre-
		quencies to create a heavy bass
		sound.
Low Boost	0–127	Increasing this value gives you a
Level		heavier low end.
		* Depending on the Isolator and
		filter settings, this effect may be
		hard to hear.
Level	0–127	Output level

05: LOW BOOST

Boosts the volume of the lower range, creating powerful lows.



Parameter	Value	Description
Boost Fre-	50–125 Hz	Center frequency at which the
quency #1		lower range will be boosted
Boost Gain #2	0–12 dB	Amount by which the lower
		range will be boosted
Boost Width	WIDE,	Width of the lower range that
	MID, NAR-	will be boosted
	ROW	
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

06: SUPER FILTER

This is a filter with an extremely sharp slope. The cutoff fre	quency
can be varied cyclically.	

L in	Super Filter	L out
R in	Super Filter	R out

Parameter	Value	Description
Filter Type	LPF, BPF,	Filter type
	HPF,	Frequency range that will pass
	NOTCH	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
		region of the cutoff
Filter Slope	-12, -24,	Amount of attenuation per octave
	-36 dB	-36 dB: extremely steep
		-24 dB: steep -12 dB: gentle
Filter Cut-	0–127	Cutoff frequency of the filter
off #1		Increasing this value will raise the
		cutoff frequency.
Filter Reso-	0–127	Filter resonance level
nance #2		Increasing this value will empha-
		size the region near the cutoff fre-
		quency.
Filter Gain	0–+12 dB	Amount of boost for the filter output
Modula-	OFF,ON	On/off switch for cyclic change
tion Sw		
Modula-	TRI, SQU,	How the cutoff frequency will be
tion Wave	SIN,	modulated
	SAW1,	TRI: triangle wave
	SAW2	SQR: square wave
		SIN: sine wave
		SAW1: sawtooth wave (upward)
		SAW2: sawtooth wave (down-
		ward)
Rate	0.05–10.0	Rate of modulation
	Hz, note	
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

93

07: 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.

L in	Step Filter	──→ L out
R in	Step Filter	→ R out

Parameter	Value	Description
Rate	0.05-10.00	Rate of modulation
	Hz, note	
Attack #1	0–127	Rate at which the cutoff frequency
		will change between beats
Filter Type	LPF, BPF,	Filter type
	HPF,	Frequency range that will pass
	NOTCH	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
		region of the cutoff
Filter Slope	-12, -24,	Amount of attenuation per octave
	-36 dB	-12 dB: gentle
		-24 dB: steep
		-36 dB: extremely steep
Filter Reso-	0–127	Filter resonance level
nance #2		Increasing this value will empha-
		size the region near the cutoff fre-
		quency.
Filter Gain	0– +12 dB	Amount of boost for the filter output
Level	0-127	Output level
Beat	0–127	Cutoff frequency for each 16th note of
1-1-4-4		a 4/4 measure
		* This can be set using the sliders of
		the part mixer.

08: AUTO WAH

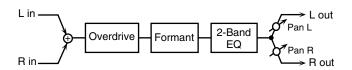
A filter that turns on and off to create a cyclical change in timbre.



Parameter	Value	Description
Filter Type	LPF, BPF	Type of filter
		LPF: The wah effect is applied
		over a wide frequency range.
		BPF : The wah effect is applied
		over a narrow frequency range
Rate #2	0.05-	Frequency of modulation
	10.00 Hz,	
	note	
Depth	0–127	Depth of modulation
Sens	0–127	Adjusts the sensitivity with which
		the filter is controlled.
Manual #1	0–127	Adjusts the center frequency at
		which the effect is applied.
Peak	0–127	Adjusts the amount of the wah ef-
		fect that occurs in the range of the
		center frequency.
		Set a higher value for Q to narrow
		the range to be affected.
Level	0–127	Output level

09: HUMANIZER

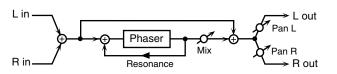
Adds a vowel character to the sound, making it similar to a human voice.



Parameter	Value	Description
Drive Sw	OFF, ON	Turns Drive on/off.
Drive	0–127	Degree of distortion
		Also changes the volume.
Vowel1 #1	a, e, i, o, u	Selects the vowel.
Vowel2 #2	a, e, i, o, u	
Rate	0.05-10.00	Frequency at which the two vowels
	Hz, note	switch
Depth	0–127	Effect depth
Input Sync	OFF, ON	Determines whether the LFO for
Sw		switching the vowels is reset by the
		input signal (ON) or not (OFF).
Input Sync	0–127	Volume level at which reset is ap-
Threshold		plied
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: PHASER

Adds a phase-shifted sound to the original sound, producing a swirling modulation that creates spaciousness and depth.

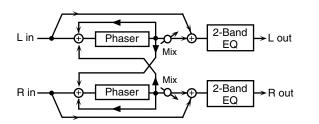


Parameter	Value	Description
Manual #1	0–127	Adjusts the basic frequency at
		which the sound will be modulated.
Rate #2	0.05-10.00	Frequency of modulation
	Hz	
Depth	0–127	Depth of modulation
Resonance	0–127	Amount of feedback
Mix	0–127	Level of the phase-shifted sound
Pan	L64–63R	Stereo location of the PHASER out-
		put
Level	0–127	Output Level

Multi-Effects List

11:STEREO PHASER

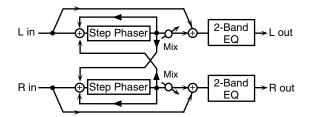
This is a stereo phaser.



Parameter	Value	Description
Mode	4, 8 stage	Number of stages in the phaser
Polarity	INVERSE,	Selects whether the left and right
	SYNCHRO	phase of the modulation are the
		same or opposite each other.
		INVERSE: The left and right
		phase are opposite. When using a
		mono source, this spreads the
		sound in stereo.
		SYNCHRO: The left and right
		phase are the same. Select this
		when working with a stereo source.
Rate #2	0.05-10.00	Frequency of modulation
	Hz, note	
Depth	0–127	Depth of modulation
Manual #1	0–127	Adjusts the basic frequency from
		which the sound is modulated.
Resonance	0–127	Amount of feedback
Cross	-98-+98 %	Adjusts the amount of the phaser
Feedback		sound that's fed back into the effect.
		Negative (-) settings invert the phase.
Mix	0–127	Level of the phase-shifted sound
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

12:STEP PHASER

With the Step effects, you can also make stepped changes in the pitch of sounds to which the Phaser effect is applied.

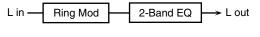


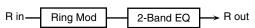
Parameter	Value	Description
Mode	4,8 stage	Number of stages in the phaser
Polarity	INVERSE,	Selects whether the left and right
	SYNCHRO	phase of the modulation are the
		same or opposite each other.
		INVERSE: The left and right
		phase are opposite. When using a
		mono source, this spreads the
		sound in stereo.
		SYNCHRO: The left and right
		phase are the same. Select this
		when working with a stereo source.

Parameter	Value	Description
Rate	0.05-10.00	Frequency of modulation
	Hz, note	
Depth	0–127	Depth of modulation
Manual #1	0–127	Adjusts the basic frequency from
		which the sound is modulated.
Resonance	0–127	Amount of feedback
Cross	-98-+98 %	Adjusts the amount of the phaser
Feedback		sound that's fed back into the effect.
		Negative (-) settings invert the phase.
Step Rate	0.1-20.0	Rate of pitch change
#2	Hz, note	
Mix	0–127	Level of the phase-shifted sound
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

13: 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
#1		modulation is applied.
Sens	0–127	Adjusts the amount of frequency
		modulation applied.
Polarity	UP,	Determines whether the frequency
-	DOWN	modulation moves towards higher
		frequencies (UP) or lower frequen-
		cies (DOWN).
Low Gain	-15-+15 dB	Gain of the low frequency range
High Gain	-15-+15 dB	Gain of the high frequency range
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

14: TREMOLO

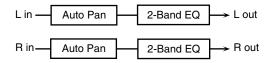
Cyclically modulates the volume to add tremolo to the sound.



Parameter	Value	Description
Modula-	TRI, SQR,	Modulation Wave
tion Wave	SIN,	TRI: triangle wave
	SAW1,	SQR: square wave
	SAW2	SIN: sine wave
		SAW1: sawtooth wave (upward)
		SAW2: sawtooth wave (down-
		ward)
Rate #1	0.05-10.00	Frequency of the change
	Hz, note	
Depth #2	0–127	Depth to which the effect is applied
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

15: AUTO PAN

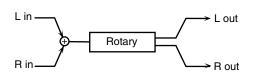
Cyclically modulates the stereo location of the sound.



Parameter	Value	Description
Modula-	TRI, SQR,	Modulation Wave
tion Wave	SIN,	TRI: triangle wave
	SAW1,	SQR: square wave
	SAW2	SIN: sine wave
		SAW1: sawtooth wave (upward)
		SAW2: sawtooth wave (down-
		ward)
Rate #1	0.05-10.00	Frequency of the change
	Hz, note	
Depth #	0–127	Depth to which the effect is applied
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

16: ROTARY

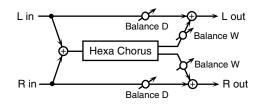
The Rotary effect simulates the sound of the rotary speakers often used with the classic electric organs. Since the movement of the highrange and low-range rotors can be set independently, the unique characteristics of these speakers can be simulated quite accurately. This effect is most suitable for electric organ Patches.



Parameter		Description
	Value	Description
Tweeter	0.05–	Slow speed (SLOW) of the high-fre-
Slow Rate	10.00 Hz	quency rotor
Woofer	0.05–	Slow speed (SLOW) of the low-frequen-
Slow Rate	10.00 Hz	cy rotor
Tweeter	0.05-	Fast speed (FAST) of the high-frequen-
Fast Rate	10.00 Hz	cy rotor
Woofer	0.05-	Fast speed (FAST) of the low-frequency
Fast Rate	10.00 Hz	rotor
Speed #1	SLOW,	Simultaneously switches the rotational
-	FAST	speed of the low frequency rotor and
		high frequency rotor.
		SLOW: Slows down the speed to the
		Slow Rate.
		FAST: Speeds up the speed to the
		Fast Rate.
Tweeter	0–15	Adjusts the time it takes the high frequency
Accelera-		rotor to reach the newly selected speed when
tion		switching between fast and slow speeds.
Woofer	0–15	Adjusts the time it takes the low frequency
Accelera-		rotor to reach the newly selected speed when
tion		switching between fast and slow speeds.
Tweeter	0–127	Volume of the high frequency rotor
Level		0 1 1 1 1 1 1
Woofer	0–127	Volume of the low frequency rotor
Level		1
Separation	0–127	Stereo width of the sound
Level #2	0–127	Output level

17: HEXA-CHORUS

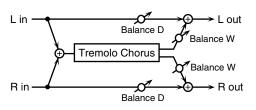
Uses a six-phase chorus (six layers of chorused sound) to give richness and spaciousness to the sound.



Parameter	Value	Description
Pre Delay	0.0–100.0 ms	Adjusts the time until chorusing is
		heard.
Rate #1	0.05-10.00	Frequency of modulation
	Hz	
Depth	0–127	Depth of modulation
Pre Delay	0-20	Adjusts the differences in Pre De-
Deviation		lay between each chorus layer.
Depth	-20-+20	Adjusts the difference in modula-
Deviation		tion depth between each chorus
		layer.
Pan	0-20	Adjusts the difference in stereo lo-
Deviation		cation between each chorus layer.
		0: All chorus layers are in the
		center.
		20: The chorus layers are
		spaced at 60-degree intervals
		relative to the center.
Balance #2	D100:0W-	Volume balance between the di-
	D0:100W	rect sound (D) and the chorus
		sound (W)
Level	0–127	Output level

18: TREMOLO CHORUS

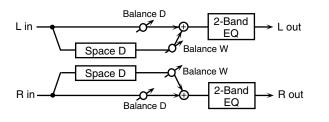
This is a chorus effect with added Tremolo (cyclic modulation of volume).



Parameter	Value	Description
Pre Delay	0.0–100.0 ms	Adjusts the time until the chorus
		sound is heard.
Chorus	0.05-10.00	Modulation frequency of the cho-
Rate	Hz	rus effect
Chorus	0–127	Modulation depth of the chorus
Depth		effect
Tremolo	0.05-10.00	Modulation frequency of the
Rate #1	Hz	tremolo effect
Tremolo	0-127	Spread of the tremolo effect
Separation		
Tremolo	0–180 deg	Depth of the tremolo effect
Phase		
Balance #2	D100:0W-	Volume balance between the di-
	D0:100W	rect sound (D) and the tremolo
		chorus sound (W)
Level	0–127	Output level

19: SPACE-D

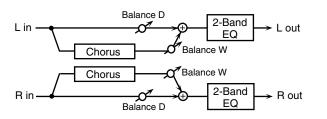
This is a multiple chorus that applies two-phase modulation in stereo. It creates no audible modulation, yet produces a transparent chorus effect.



Parameter	Value	Description
Pre Delay	0.0–100.0	Adjusts the time until the chorus
	ms	sound is heard.
Rate #1	0.05-10.00	Frequency of modulation
	Hz	
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 #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the chorus sound
		(W)
Level	0–127	Output level

20: STEREO CHORUS

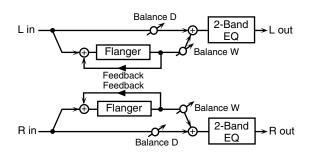
This is a stereo chorus. A filter is provided so that you can adjust the timbre of the chorused sound.



Parameter	Value	Description
Filter Type	OFF, LPF,	Type of filter
	HPF	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	Basic frequency of the filter
_	Hz	
Pre Delay	0.0-100.0	Adjusts the time until the chorus
-	ms	sound is heard.
Rate #1	0.05-10.00	Frequency of modulation
	Hz	
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 #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the chorus sound
		(W)
Level	0–127	Output level

21: STEREO FLANGER

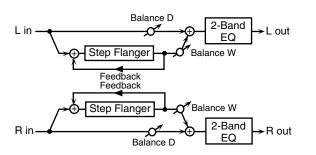
This is a stereo flanger. It produces a metallic resonance that rises and falls somewhat like a jet airplane taking off or landing. A filter is provided so that you can adjust the timbre of the flanged sound.



Parameter	Value	Description
Filter Type	OFF, LPF,	Type of filter
	HPF	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	Basic frequency of the filter
	Hz	
Pre Delay	0.0-100.0	Adjusts the time until the flanger
	ms	sound is heard.
Rate #1	0.05-10.00	Frequency of modulation
	Hz, note	
Depth	0–127	Depth of modulation
Phase	0–180 deg	Spatial spread of the sound
Feedback	-98-+98 %	Adjusts the amount of the flanger
#2		sound that's fed back into the effect.
		Negative (-) settings invert the
		phase.
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-	Volume balance between the direct
	D0:100W	sound (D) and the flanger sound
		(W)
Level	0–127	Output level

22: STEP FLANGER

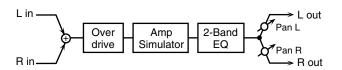
This is a flanger in which the flanger pitch changes in steps. The speed at which the pitch changes can also be specified in terms of a note value based on a specified tempo.



Parameter	Value	Description
Pre Delay	0.0-100.0	Adjusts the time until the flanger
	ms	sound is heard.
Rate	0.05-10.00	Frequency of modulation
	Hz, note	
Depth	0–127	Depth of modulation
Feedback	-98-+98 %	Adjusts the amount of the flanger
#2		sound that's fed back into the effect.
		Negative (-) settings invert the
		phase.
Step Rate	0.10-20.00	Rate (period) of pitch change
#1	Hz, note	
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-	Volume balance between the direct
	D0:100W	sound (D) and the flanger sound
		(W)
Level	0–127	Output level

23: OVERDRIVE

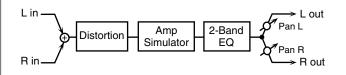
Creates a soft distortion similar to that produced by vacuum tube amplifiers.



Parameter	Value	Description
Drive #1	0–127	Amount of distortion
		Also changes the volume.
Tone #2	0–127	Sound Quality
Pan	L64-63R	Stereo location of the OVERDRIVE
		output
Amp Sw	OFF, ON	Amp simulator on/off
Amp Type	SMALL,	Type of guitar amp
	BUILT-IN,	SMALL: small amp
	2-STACK,	BUILT-IN: single-unit type amp
	3-STACK	2-STACK: large double-stack amp
		3-STACK: large triple-stack amp
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

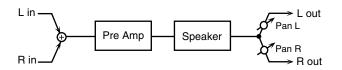
24: DISTORTION

Produces a more intense distortion than Overdrive. The parameters are the same as for "23: OVERDRIVE."



25: GUITAR AMP SIM (Guitar Amp Simulator)

This is an effect that simulates the sound of a guitar amplifier.



Parameter	Value	Description
Pre Amp	OFF, ON	Turns the amp switch on/
Sw		off.
Pre Amp	JC-120,	Type of guitar amp
Туре	Clean Twin,	
	Match Drive,	
	BG Lead,	
	MS1959I,	
	MS1959II,	
	MS1959I+II, SLDN	
	Lead, Metal 5150,	
	Metal Lead,	
	OD-1,OD-2TURBO,	
	Distortion, Fuzz	
Pre Amp	0-127	Volume and amount of dis-
Volume #1		tortion of the amp
Pre Amp	0–127	Volume of the entire pre-
Master #2		amp
Pre Amp	Low, Mid, High	Amount of pre-amp distor-
Gain	0.105	tion
Pre Amp	0–127	Tone of the bass/mid/tre-
Bass	-	ble frequency range
Pre Amp		* Middle cannot be set if
Middle Dro Amn	-	"Match Drive" is selected
Pre Amp Treble		as the Pre Amp Type.
Pre Amp	0–127	Tone for the ultra-high fre-
Presence	(MATCH DRIVE:	quency range
resence	-127 - 0)	queriey range
Pre Amp	OFF, ON	Turning this "On" produc-
Bright		es a sharper and brighter
0		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	(See the table be-	Type of speaker
Туре	low.)	
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
MicLorel	0.127	increases. Volume of the microphone
Mic Level Direct Lev-	0-127 0-127	Volume of the microphone Volume of the direct sound
el	0-12/	vorume of the unect sound
Pan	L64-63R	Stereo location of the out-
		put
Level	0–127	Output level
		T

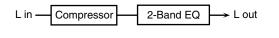
Specifications for each Speaker Type

The speaker column indicates the diameter of each speaker unit (in inches) and the number of units.

Туре	Cabinet	Spea ker	Micro- phone
Small1	small open-back enclosure	10	dynamic
Small2	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 Stack1	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

26: COMPRESSOR

Flattens out high levels and boosts low levels, smoothing out fluctuations in volume.



R in Compressor 2-Band EQ \rightarrow R out

Parameter	Value	Description
Attack #1	0–127	Sets the speed at which compres-
		sion starts
Threshold	0–127	Adjusts the volume at which com-
#2		pression begins
Post Gain	0, +6, +12,	Adjusts the output gain.
	+18 dB	
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

27: LIMITER

Compresses signals that exceed a specified volume level, preventing distortion from occurring.



Parameter	Value	Description
Release #1	0–127	Adjusts the time after the signal vol-
		ume falls below the Threshold Lev-
		el until compression is no longer
		applied.
Threshold	0–127	Adjusts the volume at which com-
#2		pression begins
Ratio	1.5:1, 2:1,	Compression ratio
	4:1,	
	100:1	
Post Gain	0, +6, +12,	Adjusts the output gain.
	+18 dB	
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

28: SLICER

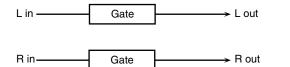
By applying successive cuts to the sound, this effect turns a conventional sound into a sound that appears to be played as a backing phrase. This is especially effective when applied to sustaintype sounds.



Parameter	Value	Description
Rate #1	0.05-	Cycle for one measure
	10.00 Hz,	
	note	
Attack #2	0–127	Speed at which the volume changes
		between beats
Input Sync	OFF, ON	Determines whether the LFO for
Sw		switching the vowels is reset by the
		input signal (ON) or not (OFF).
Input Sync	0–127	Volume level at which the reset be-
Threshold		gins
Mode	LEGATO,	Sets the manner in which the vol-
	SLASH	ume changes as one beat progresses
		to the next.
		LEGATO: The change in volume
		from one beat's level to the next
		remains unaltered. If the level of
		a following beat is the same as the
		one preceding it, there is no
		change in volume.
		SLASH: The level is momentari-
		ly set to 0 before progressing to
		the level of the next beat. This
		change in volume occurs even if
		the level of the following beat is
		the same as the preceding beat.
Shuffle	0–127	Timing of volume changes in levels
		for even-numbered Beats (Beat 1-2/
		Beat 1-4/Beat 2-2/).
		The higher the value, the later the
		beat progresses.
Level	0–127	Output level
Beat	0–127	For a single measure containing
1-1-4-4		four quarter notes, this sets the level
		of each sixteenth note when the
		measure is divided into sixteenth
		notes.
		* This can be set using the sliders of
		8
		the part mixer.

29: GATE

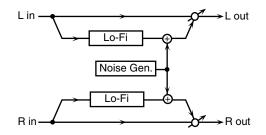
Cuts the reverb's delay according to the volume of the sound sent into the effect. Use this when you want to create an artificialsounding decrease in the reverb's decay.



Parameter	Value	Description
Threshold	0-127	Volume level at which the gate be-
#1		gins to close
Mode	GATE,	Type of gate
	DUCK	GATE: The gate will close when
		the volume of the original sound
		decreases, cutting the original
		sound.
		DUCK (Ducking): The gate will
		close when the volume of the
		original sound increases, cutting
		the original sound.
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Attack	0-127	Adjusts the time it takes for the gate
Time		to fully open after being triggered.
Hold Time	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
Time		fully close after the hold time.
Level	0–127	Output level

30: LOFI NOISE (Lo-Fi Noise)

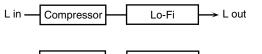
In addition to a lo-fi effect, this adds various types of noise such as white noise and disc noise.

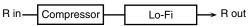


Parameter	Value	Description
LoFi Type	1-9	Degrades the sound quality. The
		sound quality grows poorer as this
		value is increased.
Post Flter	OFF, LPF,	Type of filter
Type	HPF	OFF: no filter is used
51		LPF: cuts the frequency range
		above the Cutoff
		HPF: cuts the frequency range
		below the Cutoff
Post Filter	200-8000	Center frequency of the filter
Cutoff	Hz	1 7
W/PNoise	WHITE,	Switch between white noise and
Туре	PINK	pink noise.
W/PNoise	200-8000	Center frequency of the low pass fil-
LPF	Hz, BY-	ter applied to the white/pink noise
	PASS	(BYPASS: no cut)
W/PNoise	0–127	Volume of the white/pink noise
Level		_
Disc Noise	LP, EP, SP,	Type of record noise
Туре	RND	The frequency at which the noise
		is heard depends on the selected
		type.
Disc Noise	200-8000	Adjusts the cutoff frequency of the
LPF	Hz, BY-	low pass filter applied to the record
	PASS	noise. If you don't want to filter out
		any high frequencies, set this pa-
		rameter to BYPASS.
Disc Noise	0–127	Volume of the record noise
Level		
Hum Noise	50Hz,60Hz	Frequency of the hum noise
Туре		
Hum Noise	200-8000	Center frequency of the low pass fil-
LPF	Hz, BY-	ter applied to the hum noise (BY-
	PASS	PASS: no cut)
Hum Noise	0–127	Volume of the hum noise
Level		
Balance #1	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level #2	0–127	Output level

31: LOFI COMPRESS (Lo-Fi Compress)

This is an effect that intentionally degrades the sound quality for creative purposes.

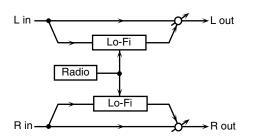




Parameter	Value	Description
Pre Filter	1–6	Selects the type of filter applied to
Туре		the sound before it passes through
		the Lo-Fi effect.
LoFi Type	1-9	Degrades the sound quality. The
		sound quality grows poorer as this
		value is increased.
Post Filter	OFF, LPF,	Type of filter
Туре	HPF	OFF: no filter is used
		LPF: cuts the frequency range
		above the Cutoff
		HPF: cuts the frequency range
		below the Cutoff
Post Filter	200-	Basic frequency of the Post Filter
Cutoff	8000 Hz	
Balance #1	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level #2	0–127	Output level

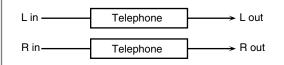
32: LOFI RADIO (Lo-Fi Radio)

In addition to a Lo-Fi effect, this effect also generates various types of noise, such as radio noise or disk noise.



Parameter	Value	Description
LoFi Type	1–9	Degrades the sound quality. The
		sound quality grows poorer as this
		value is increased.
Post Flter	OFF, LPF,	Type of filter
Туре	HPF	OFF: no filter is used
		LPF: cuts the frequency range
		above the Cutoff
		HPF: cuts the frequency range
		below the Cutoff
Post Filter	200-8000	Basic frequency of the Post Filter
Cutoff	Hz	
Radio	0–127	Simulates the tuning noise of a ra-
Detune #1		dio. As this value is raised, the tun-
		ing drifts further.
Radio Noise	0–127	Volume of the radio noise
Level		
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

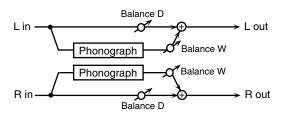
33: TELEPHONE



Parameter	Value	Description
Voice	0–15	Audio quality of the telephone
Quality #1		voice
Treble	-15-+15 dB	Bandwidth of the telephone voice
Balance #2	D100:0-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

34: PHONOGRAPH

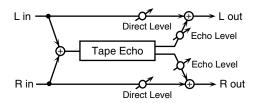
Simulates a sound recorded on an analog record and played back on a record player. This effect also simulates the various types of noise that are typical of a record, and even the rotational irregularities of an old turntable.



Parameter	Value	Description
Signal	0–127	Depth of distortion
Distortion		
Frequency	0–127	Frequency response of the playback
Range		system
		Decreasing this value will pro-
		duce the impression of an old
		system with a poor frequency re-
		sponse.
Disc Type	LP, EP, SP	Rotational speed of the turntable
		This will affect the frequency of
		the scratch noise.
Scratch	0–127	Amount of noise due to scratches
Noise Level		on the record
Dust Noise	0–127	Volume of noise due to dust on the
Level		record
Hiss Noise	0–127	Volume of continuous "hiss"
Level		
Total Noise	0–127	Volume of overall noise
Level #1		
Wow	0–127	Depth of long-cycle rotational irreg-
		ularity
Flutter	0–127	Depth of short-cycle rotational ir-
		regularity
Random	0–127	Depth of indefinite-cycle rotational
		irregularity
Total Wow/	0–127	Depth of overall rotational irregu-
Flutter #2		larity
Balance	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

35: TAPE ECHO

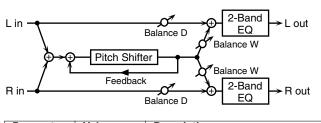
A virtual tape echo that produces a realistic tape delay sound. This simulates the tape echo section of a Roland RE-201 Space Echo.



Parameter	Value	Description
Mode	S, M, L,	Combination of playback heads to
	S+M,S+L,	use
	M+L,	Select from three different heads
	S+M+L	with different delay times.
		S: short M: middle L: long
Repeat Rate	0–127	Tape speed
#1		Increasing this value will shorten
		the spacing of the delayed
		sounds.
Intensity #2	0-127	Amount of delay repeats
Bass	-15-+15	Boost/cut for the lower range of the
		echo sound
Treble	-15-+15	Boost/cut for the upper range of the
		echo sound
Head S Pan	L64–63R	Independent panning for the short,
Head M Pan	1	middle, and long playback heads
Head L Pan	1	
Tape Distor-	0-5	Amount of tape-dependent distor-
tion		tion to be added
		This simulates the slight tonal
		changes that can be detected by
		signal-analysis equipment. In-
		creasing this value will increase
		the distortion.
Wow/Flut-	0–127	Speed of wow/flutter (complex
ter Rate		variation in pitch caused by tape
		wear and rotational irregularity)
Wow/Flut-	0–127	Depth of wow/flutter
ter Depth		
Echo Level	0–127	Volume of the echo sound
Direct Level	0–127	Volume of the original sound

36: FBK PITCH SHIFTER (Feedback Pitch Shifter)

This allows the pitch-shifted sound to be fed back into the effect.

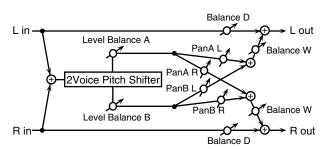


Parameter	Value	Description
Mode	1, 2, 3, 4, 5	Setting a higher value for this pa-
		rameter results in a slower re-
		sponse, but steadier pitch.
Coarse #1	-24- +12	Adjusts the pitch of the pitch-shift-
	semi	ed sound in semitone steps.
Fine	-100-+100	Adjusts the pitch of the pitch-shift-
	cent	ed sound in 2-cent steps.

Parameter	Value	Description
Pre Delay	0.0–500 ms	Adjusts the time until the pitch
		shifted sound is heard.
Feedback	-98-+98 %	Adjusts the amount of the pitch-
#2		shifted sound that's fed back into
		the effect. Negative (-) settings in-
		vert the phase.
Pan	L64–63R	Stereo location of the pitch-shifted
		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-	Volume balance between the direct
	D0:100W	sound (D) and the pitch-shifted
		sound (W)
Level	0–127	Output level

37: 2Vo PITCH SHIFTER (2-Voice Pitch Shifter)

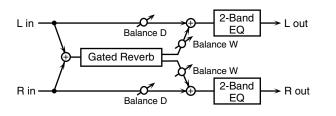
Shifts the pitch of the original sound. This 2-voice pitch shifter has two pitch shifters, and can add two pitch-shifted versions of the original sound.



Parameter	Value	Description
Mode	1, 2, 3, 4, 5	Setting a higher value for this pa-
		rameter results in a slower re-
		sponse, but steadier pitch.
Coarse A #1	-24-+12	Adjusts the pitch of Pitch Shift A/B
Coarse B #2	semi	in semitone steps.
Fine A	-100-	Adjusts the pitch of Pitch Shift A/B
Fine B	+100 cent	in 2-cent steps.
Pre Delay A	0.0-500	Adjusts the time until Pitch Shift A/
Pre Delay B	ms	B is heard.
Pan A	L64-63R	Stereo location of Pitch Shift A/B
Pan B		
Level	A100:0B-	Volume balance between Pitch Shift
Balance	A0:100B	A and Pitch Shift B
Balance	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the pitch shifted
		sound (W)
Level	0–127	Output level

38: GATED REVERB

This is a special type of reverb in which the reverb is cut off without being allowed to decay naturally.

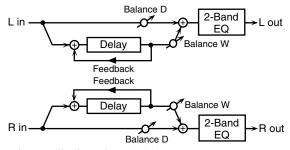


Parameter	Value	Description
Туре	NORMAL,	Type of reverb
	REVERSE	NORMAL: conventional gated
		reverb
		REVERSE: backwards reverb
Pre Delay	0.0-100.0	Adjusts the time until the reverb
	ms	sound is heard.
Time	5–500 ms	Adjusts the time from when the re-
		verb is first heard until it disap-
		pears.
Pan #1	L64-63R	Stereo location of Pitch Shift
Low Gain	-15– +15 dB	Gain of the low frequency range
High Gain	-15– +15 dB	Gain of the high frequency range
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the reverb sound (W)
Level	0–127	Output level

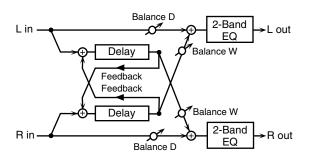
39: STEREO DELAY (MFX2 only)

This is a stereo delay.

When Feedback Mode is NORMAL:



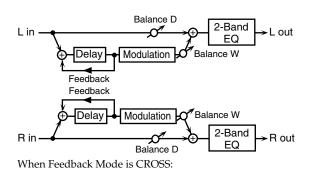
When Feedback Mode is CROSS:

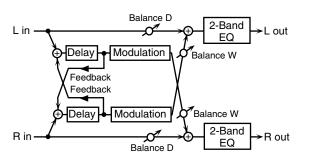


Parameter	Value	Description
Feedback	NORMAL,	Selects the way in which delay
Mode	CROSS	sound is fed back into the effect.
		(See the figures above.)
Delay Left	0–2000 ms,	Adjusts the time until the delay
Delay Right	note	sound is heard.
Phase Left	NORMAL,	Phase of the delay sound
Phase Right	INVERT	
Feedback	-98-+98 %	Adjusts the amount of the delay
#1		sound that's fed back into the effect.
		Negative (-) settings invert the
		phase.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered 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 #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0–127	Output level

40: MODULATION DELAY (MFX2 only)

Adds modulation to the delayed sound. When Feedback Mode is NORMAL:

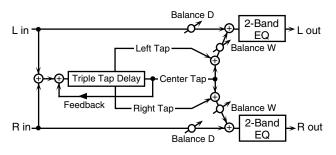




Parameter	Value	Description
Feedback	NORMAL,	Selects the way in which delay
Mode	CROSS	sound is fed back into the effect (See
		the figures above.)
Delay Left	0–2000 ms,	Adjusts the time until the delay
Delay Right	note	sound is heard.
Feedback	-98-+98 %	Adjusts the amount of the delay
		sound that's fed back into the effect.
		Negative (-) settings invert the
		phase.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered out. If you don't want to filter
		out any high frequencies, set this
		parameter to BYPASS.
Rate	0.05-10.00	Frequency of modulation
	Hz	
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-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0-127	Output level

41: TRIPLE TAP DELAY (MFX2 only)

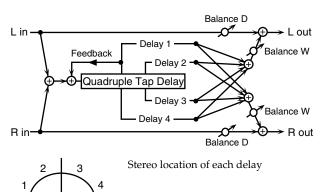
Produces three delay sounds; center, left and right.



Parameter	Value	Description
Delay Left/	0–4000 ms,	Adjusts the time until the delay
Right/Center	note	sound is heard.
Feedback	-98-+98 %	Adjusts the amount of the delay
#1		sound that's fed back into the effect.
		Negative (-) settings invert the phase.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered out. If you do not want to filter
		out any high frequencies, set this
		parameter to BYPASS.
Left/Right/	0–127	Volume of each delay
Center Level		
Low Gain	-15– +15 dB	Gain of the low frequency range
High Gain	-15– +15 dB	Gain of the high frequency range
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0–127	Output level

42: QUADRUPLE TAP DELAY (MFX2 only)

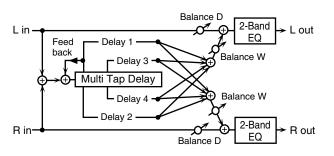
This effect has four delays.



Parameter	Value	Description
Delay 1–4	0–4000 ms,	Adjusts the time until the delay
	note	sound is heard.
Level 1–4	0–127	Volume of each delay
Feedback	-98-+98 %	Adjusts the amount of the delay
#1		sound that's fed back into the effect.
		Negative (-) settings invert the phase.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered out. If you do not want to filter
		out any high frequencies, set this
		parameter to BYPASS.
Balance #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0–127	Output level

43: MULTI TAP DELAY (MFX2 only)

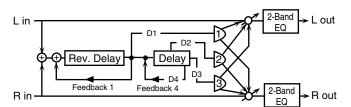
This effect provides four delays. Each of the Delay Time parameters can be set to a note length based on the selected tempo. You can also set the panning and level of each delay sound.



Parameter	Value	Description
Delay 1–4	0–4000 ms,	Adjusts the time until Delays 1–4
	note	are heard.
Pan 1–4	L64-63R	Stereo location of Delays 1–4
Level 1–4	0–127	Output level of Delays 1–4
Feedback	-98-+98 %	Adjusts the amount of the delay
#1		sound that's fed back into the effect.
		Negative (-) settings invert the phase.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered out. If you don't want to filter
		out any the 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 #2	D100:0W-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

44: REVERSE DELAY (MFX2 only)

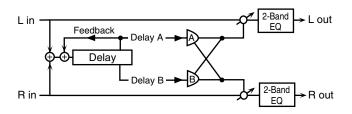
Adds the reverse of the input sound as a delay.



Parameter	Value	Description	
Threshold	0–127	Volume level at which the reverse	
		delay begins	
Delay 1–4	0-2000 ms,	Adjusts the time until Delays 1–4	
	note	are heard.	
Feedback 1	-98-+98 %	Adjusts the amount of the delay	
#1		sound that's fed back into the effect.	
Feedback 4		Negative (-) settings invert the phase.	
HF Damp 1	200-8000	Adjusts the frequency above which	
HF Damp 4	Hz, BY-	sound fed back to the effect is fil-	
_	PASS	tered out. If you do not want to filter	
		out any high frequencies, set this	
		parameter to BYPASS.	
Pan 1–3	L64-63R	Stereo location of Delays 1–3 sound	
Level 1–3	0–127	Output level of Delays 1–3 sound	
Balance #2	D100:0W-	Volume balance between the direct	
	D0:100W	sound (D) and the effect sound (W)	
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	

45: SHUFFLE DELAY (MFX2 only)

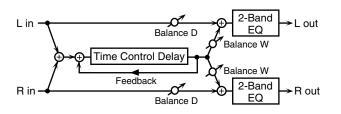
Adds a shuffle to the delay sound, giving the sound a bouncy delay effect with a swing feel.



Parameter	Value	Description
Delay #1	0–4000 ms,	Adjusts the time until the delay
	note	sound is heard.
Shuffle	0-100 %	Adjusts the ratio (as a percentage)
Rate		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.
Pan A/B	L64-63R	Stereo location of Delay A/B
Level	A100:0B-	Volume balance between Delay A
Balance	A0:100B	and Delay B
Feedback	-98-+98 %	Adjusts the amount of the delay
#2		that's fed back into the effect. Nega-
		tive (-) settings invert the phase.
Accelera-	0–15	Adjusts the time over which the De-
tion		lay Time changes from the current
		setting to its specified new setting.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered 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-	Volume balance between the direct
	D0:100W	sound (D) and the effect sound (W)
Level	0–127	Output level

46: TIME CONTROL DELAY (MFX2 only)

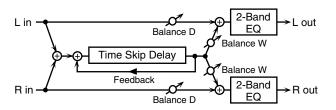
This lets you smoothly vary the delay time. As the delay time is varied, the pitch will change correspondingly; lengthening the delay time will lower the pitch, and shortening it will raise the pitch.



Parameter	Value	Description
Delay #1	0–4000 ms,	Adjusts the time until the delay is
	note	heard.
Feedback	-98-+98 %	Adjusts the amount of the delay
#2		that's fed back into the effect. Nega-
		tive (-) settings invert the phase.
Accelera-	0–15	Adjusts the time over which the De-
tion		lay 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.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered 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-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0–127	Output level

47: TIME SKIP DELAY (MFX2 only)

A delay that changes the delay time in stair-step fashion.



Parameter	Value	Description
Delay #1	0–4000 ms,	Adjusts the time until the delay is
	note	heard.
Skip Rate	0.05-10.0	Frequency at which the delay time
	Hz, note	will change
Feedback	-98-+98 %	Adjusts the amount of the delay
#2		sound that's fed back into the effect.
		Negative (-) settings invert the
		phase.
Accelera-	0–15	Adjusts the time over which the De-
tion		lay Time changes from the current
		setting to its specified new setting.
HF Damp	200-8000	Adjusts the frequency above which
	Hz, BY-	sound fed back to the effect is fil-
	PASS	tered out. If you don't 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-	Volume balance between the direct
	D0:100W	sound (D) and the delay sound (W)
Level	0–127	Output level

note:

 \Rightarrow_3 (Sixty-fourth-note triplet), \Rightarrow (Sixty-fourth note), $\$_3$ (Thirty-second-note triplet),

 \Re (Thirty-second note), \Re_3 (Sixteenth-note triplet), \Re (Dotted thirty-second note),

) (Sixteenth note), b_3 (Eighth-note triplet), h (Dotted sixteenth note),

b (Eighth note), b_3 (Quarter-note triplet), b_2 (Dotted eighth note),

 \downarrow (Quarter note), \downarrow_3 (Half-note triplet), \downarrow (Dotted quarter note), \downarrow (Half note),

•3 (Whole-note triplet), 🚽 (Dotted half note), • (Whole note),

INING (Double-note triplet), IN (Dotted whole note), IN (Double note)

Mastering effect

This is a stereo compressor (limiter) that is applied to the final output of the MC-909. It has independent high, mid, and low ranges. By compressing sounds that exceed the specified volume level, it can be used to prevent the sound from distorting.



Parameter	Range	Explanation
ATTACK	0–100 ms	Time from when the volume
		goes up the threshold level un-
		til the compressor effect ap-
		plies
RELEASE	50–5000 ms	Time from when the volume
		falls below the threshold level
		until the compressor effect no
		longer applies
THRESHOLD	-36-0 dB	Volume level at which com-
		pression begins
RATIO	1.00:1-	Compression ratio (INF: infini-
	INF:1	ty)
LEVEL	0–24 dB	Output volume
Split Frequency	2000-8000	Frequency at which the high-
High	Hz	frequency (HI) and mid-fre-
		quency (MID) bands are split
Split Frequency	200–800 Hz	Frequency at which the low-
Low		frequency (LO) and mid-fre-
		quency (MID) bands are split

You can use the controls of the Mastering section (ATTACK and RELEASE) to adjust the mastering effect parametersin real time.

	MA	ASTERING	
АТТАСК	RELEASE		

[ON]	Switches the mastering effect on/off
[BAND]	Selects the frequency band that you want to adjust

Function buttons

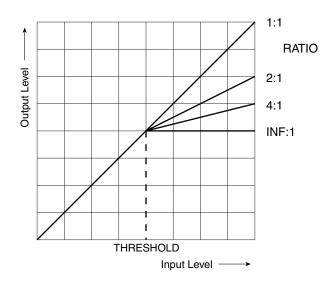
[F1 (Techno)]	Recall settings suitable for the correspond-
[F2 (Hip Hop)]	ing style.
[F3 (Break Beats)]	
[F4 (User)]	Recalls the user settings that you saved.
[F5 (Close)]	Returns to the previous screen.
[F6 (System Write)]	Saves the current settings as the user set-
	tings.
	Only one set of user settings can be
	saved.

NOTE

If you press [F1]–[F4], the settings you are editing will be lost. Press [F6] first to save them.

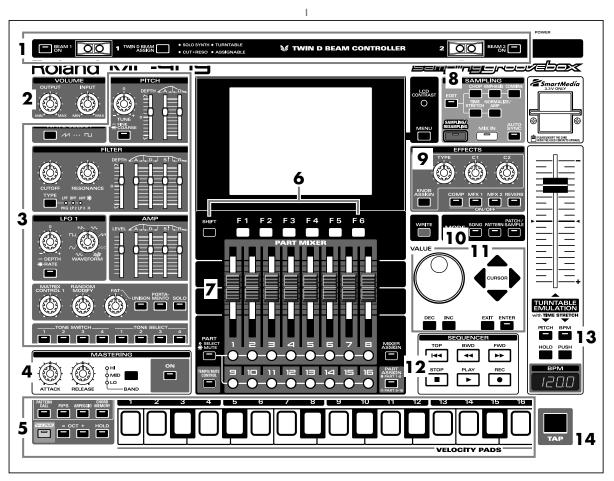
About THRESHOLD and RATIO

As shown in the diagram below, these parameters determine how the volume is to be compressed.



Sampling

How Things Work (in Sampling mode)



In the Sampling section of the panel, press [SAMPLING/ RESAMPLING] so the indicator is lighted. The Sampling Menu screen will appear.

During sampling, the panel controls have the following functions.

1. D Beam controllers

Pass your hand over these to modify the pattern (p. 35).

[BEAM 1 ON]	Turns the left D Beam controller
	(BEAM 1) on/off.
[BEAM 2 ON]	Turns the right D Beam controller
	(BEAM 2) on/off.
[D BEAM ASSIGN]	Selects the function of the D Beam
	controller.

2. Volume section

[OUTPUT]	Adjusts the output volume of the entire MC-909.
[INPUT]	Adjusts the input volume from the INPUT jacks.

3. Realtime Modify section

These controls modify the sound (p. 33).

4. Mastering section

[ON]	Switches the mastering effect (compressor) on/off.
[BAND]	Selects the frequency band to adjust.
[ATTACK]	Adjusts the attack time of the input sound.
[RELEASE]	Adjusts the time from when the volume falls below
	the threshold level until the effect disappears.

5. Velocity pads

Use these pads as a keyboard to play sounds or trigger phrases (p. 27).

6. Function buttons

These buttons access the function screens indicated in the bottom line of the display.

7. Part Mixer section

Here you can adjust the volume, pan, etc., of each part (p. 33).

[PART]	Selects the function of the Part buttons [1]–
(SELECT/MUTE)	[16].
	The buttons work as Part Select buttons
	when the indicator is not lighted, and as
	Mute buttons when the indicator is lit.
[TEMPO/MUTE	Switches on/off the Tempo/Mute part (a
CONTROL]	part that records tempo changes and mute
	operations, p. 42).
[MIXER ASSIGN]	When you press this button so its indicator
	lights, the Mixer screen will appear.
[PART ASSIGN]	Selects the parts that are controlled by the
	sliders.
	The sliders will control parts 1–8 if this indi-
	cator is not lighted, or parts 9–16 if the indi-
	cator is lit.

8. Sampling section

[EDIT]	Displays the Sample Edit
	screen (p. 114).
[CHOP]	Divides a sample (p. 118).
[EMPHASIS]	Emphasize the sample's upper
	range (p. 120).
[COMBINE]	Combines multiple samples
	into a single sample (p. 120).
[TIME STRETCH]	Stretches or shrinks the sample
	to change the length or tempo
	(p. 121).
[NORMALIZE/AMP]	Boosts the level of the sample
	as high as possible (Normalize,
	p. 121), or boosts/cuts the level
	as specified (Amp, p. 122).
[SAMPLING/RESAMPLING]	Displays the Sampling menu
	screen (p. 112).
[MIX IN]	Mixes the sound from the IN-
	PUT jack into the output (p.
	34).
[AUTO SYNC]	Synchronizes the sample to the
	pattern (p. 36).
	Pattern (P. 00).

9. Effect section

Applies special effects to the sound (p. 88).

[COMP]-[REVERB]	Switch each effect on/off (p. 88).
[KNOB ASSIGN]	Selects the effect to be controlled in real
	time (p. 91).
[TYPE]	Selects the type of effect.
[C1], [C2]	Modifies the assigned function in real
	time.

10. Mode section

Press the [PATTERN] button to enter Pattern mode. Pressing one of the other two buttons will switch you to the corresponding mode.

11. Cursor/Value section

Use these buttons and dial to select patterns or input values (p. 18).

12. Sequencer section

[PLAY]	Plays a pattern (p. 24).
[STOP]	Stops playback/recording.
[FWD]	Advances to the next measure.
[BWD]	Returns to the previous measure.
[TOP]	Moves to the beginning of the pattern.
[REC]	Used when recording (p. 37).

13. Turntable emulation

Applies an effect that simulates increasing/decreasing the rotational speed of a turntable (p. 36).

14. TAP button

Lets you set the BPM (tempo) by pressing the button at the desired timing (p. 25).

Sampling procedure

1. Press [SAMPLING/RESAMPLING] to access the Sampling Menu screen.

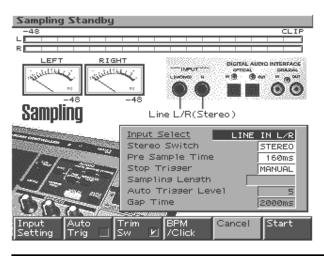


The upper part of the screen will show the amount of free memory. If the free memory reaches 0%, no further sampling is possible.

2. Press [F1 (Sampling)]–[F5 (Solo)] to select the sampling mode. The sampling-standby screen will appear.

F	
[F1 (Sampling)]	Sample a sound from an external input source.
	* Operating the velocity pads or D Beam con-
	trollers will not play the internal sound gen-
	erator.
[F2 (Re-Sampling)]	Resample the sound of the internal sound gen-
	erator.
	* The sound of the external input will not be
	heard.
[F3 (Mix)]	Sample the combined sounds of the internal
(Mix sampling)	sound generator and an external input source.
[F4 (Auto Divide)]	Sample an extended source, and automatically
(Auto divide sam-	divide it into several samples at silent regions.
pling)	* Operating the velocity pads or D Beam con-
	trollers will not play the internal sound gen-
	erator.
[F5 (Solo)]	While playing the internal sound generator as
(Solo sampling)	usual, sample only the sound from the external
	input.
	* Effects cannot be applied to the external in-
	put sound.
[F6 (Cancel)]	Return to the previous screen.

(Example) Standby screen for Sampling



3. Make the settings for things such as the input source of the sound to be sampled, and triggering.

Function buttons

[F1 (Input Setting)]	Make settings for the external input (p. 34).
[F2 (Auto Trig)]	If this is on, sampling will begin automati-
(Auto Trigger)	cally when the input sound is detected.
[F3 (Trim Sw)]	If this is turned on, the Start point and End
	point settings (p. 115) will be automatically
	adjusted after sampling is performed, so
	any silent portions at the beginning or end
	of the sampled sound are excluded.
[F4 (BPM/Click)]	Set the tempo, and turn the metronome on/
	off (p. 25).

Parameters

Parameter	Range	Explanation
Input Select	LINE IN L/R,	Input source to be sampled
	LINE IN L,	LINE IN L/R: INPUT
	DIGITAL(OPT),	jacks L/R (stereo)
	DIGITAL(CO-AX),	LINE IN L: INPUT jack L
	MICROPHONE	(mono)
		DIGITAL(OPT): Digital
		input (optical)
		DIGITAL(CO-AX): Digi-
		tal input (coaxial)
		MICROPHONE: INPUT
		jack L (mono, mic level)
		* This cannot be set when
		resampling.
Stereo	MONO, STEREO	Stereo/mono setting for
Switch	,	sampling
		MONO: The sound will
		be sampled as one wave.
		If the sound is stereo, the
		left and right signals will
		be mixed.
		STEREO: The sound
		will be sampled as two
		waves, L and R.
		* Mono sampling uses
		half as much memory
		space.
Pre Sample	0–1000 ms	The length of sound pre-
Time		ceding the moment at
		which sampling was man-
		ually or automatically initi-
		ated that will be captured
		in the sample
		This lets you prevent the
		attack portion of the
		sound from being omit-
		ted from the sample.
Stop Trigger	MANUAL, BEAT,	How sampling will end
1 00	TIME	MANUAL: Continue
		sampling until you press
		[F5 (STOP)].
		BEAT: Sample the spec-
		ified number of beats at
		the current tempo
		(BPM).
		TIME: Sample the speci-

Parameter	Range	Explanation
Sampling	When Stop Trigger is BEAT	
Length	1-20000	Number of beats to contin-
		ue sampling
	When Stop Trigger	is TIME
	00'00''010-	length of time to continue
	50'00"'000	sampling
	The maximum value	will depend on the amount
	of memory.	
	* This parameter ca	nnot be specified if Stop Trig-
	ger is set to MAN	1 1 0
Auto Trig-	0-7	Volume level at which
ger Level		sampling will begin when
		Auto Trig is ON
		A setting of 0 is the min-
		imum.
Gap Time	500, 1000, 1500,	Length of silence at which
	2000 ms	the sample will be divided
		Whenever there is a si-
		lent region longer than
		the specified time, the
		sample will be divided
		at that point, and the
		next sample number will
		be assigned to the sound
		that follows.
		* This parameter is valid
		only when you are using
		Auto Divide Sampling.

4. In the Volume section of the panel, use [INPUT] to adjust the input level of the external source.

- * If the input level is excessive, the word "CLIP" will appear at the lower right of the level meter in the screen, and the CLIP indicator at the upper right of the meter will light.
- * Using a connection cable that contains a resistor can cause the sound level to be low. Use a connection cable that does not contain a resistor.
- * The level meter shows the level after the signal has passed through the effects (compressor, multi-effects, reverb) and the mastering effect. If you want to see the actual input level, turn off all effects and the mastering effect (p. 88, p. 108).

(During Solo sampling, effects cannot be applied to the external input sound.)

Cautions when using a microphone

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.
- ^t If you use a microphone, connect the ground terminal to an electrical ground (p. 15).

5. Press [F6 (Start)] to begin sampling.

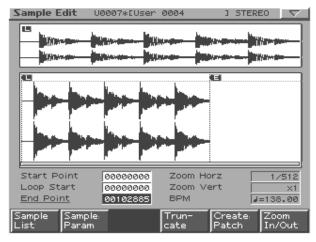
NOTE

You cannot save a sample that is larger than 128 MB (approximately 24 minutes of monaural or 12 minutes of stereo). If you are not using a memory card, you cannot save a sample that is larger than 16 MB (approximately 180 seconds of monaural or 90 seconds of stereo).

* Even if you expand the memory (DIMM), you cannot save a sample that is larger than 128 MB. (However, you can play it.)

6. Press [F5 (Stop)] to stop sampling.

The Sample Edit (p. 114) screen will appear.



7. Press [EXIT] to go back to where you were before you entered the Sampling screen.

About the sample numbers chosen during sampling

The samples created when you execute the sampling operation are placed in an area where there are at least 256 consecutive unused numbers in the sample list.

* You cannot perform sampling if there are not at least 256 consecutive unused numbers in the sample list. You will need to delete unneeded samples (p. 124) in order to allocate 256 or more consecutive free numbers.

Dividing a sample during sampling

1. During sampling, press [F6 (Divide)].

The sample will be divided at the point where you pressed the button, and the subsequent material will be sampled as a sample of the next number.

* When sampling in mono, you can divide the material into a maximum of 256 samples. When sampling in stereo, you can divide the material into a maximum of 128 samples (L/R total 256 samples).

Samples that you load can be used in patches or rhythm sets in the same way as waves.



Samples that you load will be lost when you turn off the power. If you want to keep them, you must Save them (p. 123).

About the volume when resampling

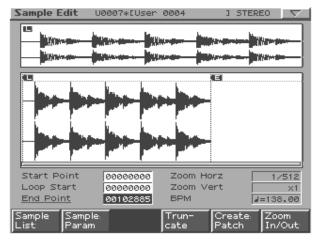
The volume of a phrase that you resample may be less than the volume of the original phrase. If necessary, execute the Normalize command (p. 121) to raise the volume.

Sample Edit

Use sample edit to modify a waveform (sample) that you sampled/loaded/imported.

Basic sample editing procedure

1. When you press [EDIT] in the sampling section, the Sample Edit screen will appear.



Function buttons

[F1 (Sample List)]	From a list, select the sample to edit (p.
	115).
[F2 (Sample Param)]	Make various settings for the sample (p.
	116).
[F4 (Truncate)]	Cut unwanted portions from the begin-
	ning/end of the sample (p. 117).
[F5 (Create Patch)]	Create a new patch that uses the sample
	(p. 117).
[F6 (Zoom In/Out)]	Change the magnification of the sample
	display (p. 114).

Panel buttons

[CHOP]	Divide the sample (p. 118).
[EMPHASIS]	Emphasize the sample's upper range
	(p. 120).
[COMBINE]	Combine multiple samples into a single
	sample (p. 120).
[TIME STRETCH]	Stretch or shrink the sample to change
	the length or tempo (p. 121).
[NORMALIZE/AMP]	Boosts the level of the sample as high as
	possible (Normalize, p. 121), or boosts/
	cuts the level as specified (Amp, p. 122).

MEMO

You can access the Chop–Amp screens by holding down [SHIFT] and pressing [F1]–[F6]. Alternatively, you can select these screens by pressing [MENU].



Sample edit operations (Chop, Normalize, etc.) apply to the entire sample. Even if you specify a start point or end point, they will be ignored.

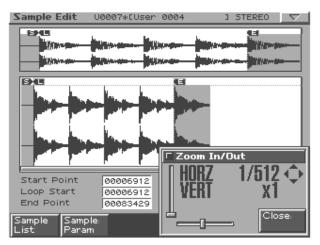
If you want to apply the operation only to the region between the start point and end point, use Truncate to delete unwanted portions of the sample, and then perform the sample editing operation.



Zoom In/Out

Here's how to change the magnification of the sample display.

1. In the Sample Edit screen, press [F6 (Zoom In/Out)]. The Zoom In/Out sub-window will appear.



- 2. Use [CURSOR] to change the magnification of the display.
 - Horizontal axis (time axis): 1/1--1/65536
 Press [CURSOR (left)] to increase the display magnification.
 Press [CURSOR (right)] to decrease the display magnification.
- * You can also use [VALUE] or [INC/DEC] to adjust this setting.
- Vertical axis (waveform amplitude axis): x1--x128
 Press [CURSOR (left)] to increase the display magnification.
 Press [CURSOR (right)] to decrease the display magnification.

3. Press [F6 (Close)] to close the sub-window.

HINT

Even without displaying the Zoom In/Out sub-window, you can press [CURSOR (right/left) to expand/shrink the horizontal axis, or hold down [SHIFT] and press [CURSOR (up/down)] to expand/ shrink the vertical axis.

Setting the start/end points of the sample

You can specify the portion of the sample that will actually sound. You can also specify the region that is to be looped.

1. Select the sample that you want to edit.

For details on how to select a sample, refer to Sample List (p. 115).

2. Use [CURSOR (up/down)] to select the point that you want to set.

• Start Point:

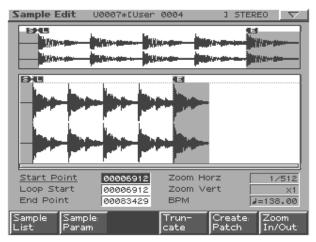
This is the point at which playback will start. Set this so that any unwanted portion at the beginning of the sample will be skipped, and the sound will begin at the desired moment.

Loop Start:

This is the point at which loop playback (second and subsequent times) will start. Set this if you want to loop the sound from a point other than the start point.

• End Point:

This is the point at which playback will end. Set this so that any unwanted portion at the end of the sample will not be heard.



3. Use [VALUE] or [INC/DEC] to move the point so it's where you want it to be.

HINT

You'll probably find it convenient to zoom-in when making fine adjustments, and zoom-out when making major adjustments (p. 114).

MEMO

After specifying the start point and end point, you can execute Truncate (p. 117) to delete unwanted portions at the beginning and end of the sample.

Sample List

Here's how to select a sample from a list.

1. In the Sample Edit screen, press [F1 (Sample List)].

Sample List				∇
15 ALL A		b.		
Number	Sample Name	Ch	Size	
P0001	R&B Vocal1	L	514KB	
P0002		R	514KB	
P0003	R&B Vocal2	L	577KB	
P0004		R	577KB	
P0005	R&B Guitar1	MONO	153KB	
P0006	R&B Guitar2	MONO	320KB	
P0007	Break It On	MONO	67KB	
P0008	Chek It Out	MONO	56KB	
P0009	I Like That	MONO	89KB	
P0010	Thats Tight	MONO	44KB	
Preset U	ser Card	Mark Clear	Mark Set	Select

2. Use [F1 (Preset)]–[F3 (Card)] to specify the bank from which you want to select a sample.

3. Use [VALUE], [INC/DEC], or [CURSOR (up/down)] to select a sample.

If you hold down [SHIFT] while you operate the above buttons, the sample number will change in steps of ten.

4. Press [F6 (Select)].

The edit screen for the selected sample will appear.

Function buttons

[F1 (Preset)]	Select from preset samples.	
[F2 (User)]	Select from user samples.	
[F3 (Card)]	Select from memory card samples.	
[F4 (Mark Clear)]	Remove the check mark from the sample.	
[F5 (Mark Set)]	Add a check mark to the sample.	
[F6 (Select)]	Display the edit screen for the selected	
	sample.	
[SHIFT] +	Delete all checked samples with their files.	
[F1 (Delete Sample)]	(p. 124) (*1)	
[SHIFT] +	Erase all checked samples from memory	
[F2 (Erase)]	(p. 124). (The files will not be deleted.) (*1)	
[SHIFT] +	Load the checked samples into memory.	
[F3 (Load)]	(p. 124) (*1)	
[SHIFT] +	Clear the check marks from all samples in	
[F4 (Mark Clear All)]	the folder.	
[SHIFT] +	Add a check mark to all samples in the	
[F5 (Mark Set All)]	folder.	
[SHIFT] +	Execute "Create Rhythm" (p. 119) on all	
[F6 (Create Rhythm)]	checked samples.	
*1: If not even check mark is assigned, the operation will be		

*1: If not even check mark is assigned, the operation will be executed on the sample selected by the cursor.

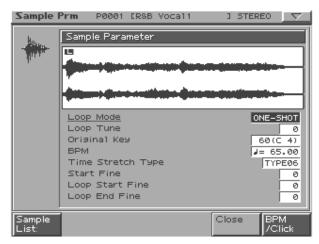
The status of each sample in the sample list

lcon	Sample status
NEW	Sample has just been sampled or imported
EDIT	Sample has been edited but not yet saved
UNLOAD	Sample has not been loaded
None	Sample has just been saved or loaded

Sample Parameters

Here you can make various settings for the sample.

1. In the Sample Edit screen, press [F2 (Sample Param)].



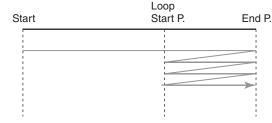
- 2. Use [CURSOR (up/down)] to select a parameter.
- 3. Use [VALUE] or [INC/DEC] to edit the value.
- 4. Press [F6 (Close)] when you are finished.

Parameter	Values	Explanation	
Loop Mode	FWD,	How the sample will be played	
1	ONE-SHOT,	Refer to "About the Loop	
	REV,	Mode" (p. 116)	
	REV-ONE		
Loop Tune	-50-+50	Pitch of the loop region	
		Make fine adjustments in	
		one-cent (1/100 semitone) in-	
		crements.	
Original Key	24 (C1)-	Note number that will play the	
	127 (G9)	sample at the pitch at which it	
		was sampled	
BPM	5-300	Original BPM of the sample	
		* You will need to edit this val-	
		ue when using Auto Sync.	
Time Stretch	TYPE01-	Auto sync method	
Туре	TYPE10	Decreasing this value will op-	
		timize the sound for more	
		rapid phrases, and increasing	
		this value will optimize the	
		sound for slower phrases.	
Start Fine	0-255	Fine adjustment of the Start	
		point.	
Loop Start	0-255	Fine adjustment of the Loop	
Fine		Start point.	
Loop End	0–255	Fine adjustment of the End	
Fine		point.	

About the Loop Mode

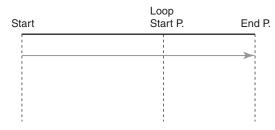
FWD (Forward)

After the Sample played back from the Start point to the End point, it will then be repeatedly played back in the forward direction, from the Loop Start point to the End point.



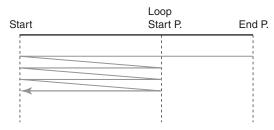
ONE-SHOT

The sample will be played back only once, from the Start point to the End point.



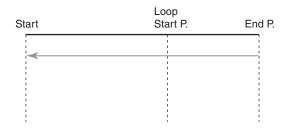
REV (Reverse)

When the sample has been played back from the End point to the Start point, it will be repeatedly played back in the reverse direction, from the Loop Start point to the Start point.



REV-ONE (Reverse One-shot)

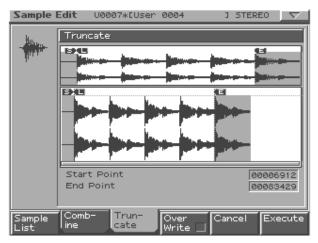
The sample will be played back only once from the End point to the Start point in the reverse direction.



Truncate

This operation cuts the portions of the sample that are earlier than the Start Point and later than the Loop End Point.

1. In the Sample Edit screen, press [F4 (Truncate)].



 If you want to replace the current sample with the truncated sample, press [F4 (Over Write)] to display the "✓" symbol.

3. Press [F6 (Execute)].

A message will ask you for confirmation.

- To execute the Truncate operation, press [F6 (Execute)].
 - * If you want to cancel without executing, press [F5 (Cancel)].

Create Patch

This operation creates a patch that uses the current sample as the wave for Tone 1.

If desired, the created patch can also be assigned to the current part.

1. In the Sample Edit screen, press [F5 (Create Patch)]. The patch name entry screen will appear.

Create Patch			∇
_~		STEP	1/12
R			
S			
–			
I			
<u>U</u> ser 0001			
V			
W			
"			
Ť,			
X			
Change Delete Insert. Type	Cancel	Writ	e:
1.2bc			

- **2.** Assign a name to the patch, and save it. Refer to "Saving a Patch/Rhythm Set" (p. 77).
 - ^{*} If you decide to cancel the Create Patch operation, press [F5 (Cancel)] to return to the previous screen.

MEMO

When you execute Create Patch, a sample will be created at the same time.

When saving the patch, a message will ask you whether you want to assign the newly created patch to the current part.

3. If you want to assign the patch, press [F6 (Execute)].

The newly created patch will be assigned to the current part, and the Patch Edit screen (p. 56) will appear.

4. If you do not want to assign the patch, press [F5 (Cancel)].

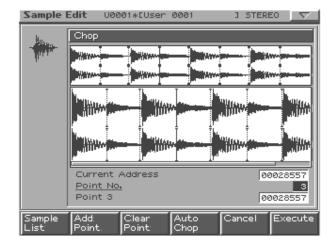
You will return to the Sample Edit screen.

Sample Edit

Chop

This operation divides the sample into two or more samples (a maximum of 16 samples).

- In the Sample Edit screen, press [CHOP].
 Alternatively, hold down [SHIFT] and press [F1 (Chop)].
- **2.** Press [F1 (Sample List)] and select a sample.



Procedure for dividing a sample

You can freely specify the point(s) at which the sample is to be divided.

- 1. Press [CURSOR (up)] to move the cursor to "Current Address."
- 2. Use [VALUE] or [INC/DEC] to move the point.
- **3.** At the location where you want to divide the sample, press [F2 (Add Point)].

The current location will be the dividing point.

4. Repeat steps 2 and 3 to specify other dividing points as desired.

The sample will be divided into a maximum of 16 samples.

5. Press [F6 (Execute)].

A message will ask you for confirmation.

6. To execute, press [F6 (Execute)].

The Chop operation will be executed, and the divided samples will be saved. (Normally, they will be saved in consecutive sample numbers.)

- *To cancel, press* [F5 (Cancel)].
 When you execute the Chop operation, a message will ask whether you want to execute Create Rhythm.
- 7. If you want to execute Create Rhythm, press [F6 (Execute)].
 - Create Rhythm -> p. 119
- 8. If you don't want to execute Create Rhythm, press [F5 (Cancel)].

You will return to the Sample Edit screen.

Automatically dividing a sample (Auto Chop)

Here's how you can automatically specify the points at which the sample is to be divided, and then divide the sample.

- **1.** Press [F4 (Auto Chop)]. The Auto Chop sub-window will appear.
- 2. Press [CURSOR (up)] to move the cursor to "Chop Type."
- **3.** Use [VALUE] or [INC/DEC] to select the method by which the sample is to be divided.
- 4. Press [CURSOR (down)].
- 5. Use [VALUE] or [INC/DEC] to set the value.

Parameter	Explanation	
Chop Type	How the sample is to be divided	
	Level: Divide according to volume.	
	Beat: Divide at beats based on the BPM	
	(p. 116) of the sample.	
	Divide x: Divide into 'x' number of	
	equal lengths.	
If Chop Type is Leve		
Level	Level at which the sample is to be divided	
	Lower settings of this value will cause	
	the sample to be divided more finely.	
	Range: 1–10	
If Chop Type is Beat		
Beat	Beat interval at which the sample is to be	
	divided	
	Range: 1/32, 1/16T, 1/16, 1/8T, 1/8,	
	1/4T, 1/4, 1/2, 1/1, 2/1	
If Chop Type is Divide x		
Times	Number of samples into which the sam-	
	ple is to be divided	
	Range: 2–16	

6. Press [F6 (Auto Chop)].

The dividing points will be automatically specified according to the settings you made.

The sample will be divided into a maximum of 16 samples.

* To cancel Auto Chop, press [F5 (Close)].

7. Press [F6 (Execute)].

A message will ask you for confirmation.

8. To execute, press [F6 (Execute)].

The Chop operation will be executed, and the divided samples will be saved. (Normally, they will be saved in consecutive sample numbers.)

* To cancel, press [F5 (Cancel)].

When you execute the Auto Chop, a message will ask whether you want to execute Create Rhythm.

- 9. If you want to execute Create Rhythm, press [F6 (Execute)].
 - Create Rhythm -> p. 119
- 10. If you don't want to execute Create Rhythm, press [F5 (Cancel)].

You will return to the Sample Edit screen.

Auditioning the divided samples

After dividing the sample, you can press the velocity pads to audition each of the divided samples.

From the sample nearest to the start point, the samples will be played by pads [1], [2], ...

Moving a dividing point

- 1. Use [CURSOR (up/down)] to move the cursor to "Point No."
- 2. Turn [VALUE] to select the point that you want to move.

In order from the start point, the points are numbered 1, 2, ...15.

- 3. Press [CURSOR (down)].
- 4. Turn [VALUE] to move the dividing point.

Deleting a dividing point

- 1. Use [CURSOR (up/down)] to move the cursor to "Point No."
- 2. Turn [VALUE] to select the point that you want to delete.
- 3. Press [F3 (Clear Point)].

The dividing point will be deleted, and the waveforms before and after that point will be connected.

Create Rhythm

This operation lets you create a rhythm set using the samples selected from the sample list, or the samples you created by the Chop operation.

Each of the divided samples will become a separate rhythm tone.

Create a Rhythm Set using the samples selected from the Sample List

1. In the sample list, add a check mark to the samples that you want to use as a rhythm tone.

You can select up to sixteen samples. If you select seventeen or more samples, the rhythm set will be created from the sixteen lowest-numbered samples.

2. Hold down [SHIFT] and press [F6 (Create Rhythm)].

A message will ask whether you want to execute Create Rhythm.

3. To execute, press [F6 (Execute)].

The Rhythm Set Name input screen will appear.

4. Assign a name to the rhythm set, and save it.

For details, refer to "Saving a Patch/Rhythm Set" (p. 77).

* To cancel the Create Rhythm operation, press [F5 (Cancel)] to return to the previous screen.

When you save a rhythm set, you will be asked whether you want to assign the newly created rhythm set to the current part.

5. If you want to assign it, press [F6 (Execute)].

The newly created rhythm set will be assigned to the current part, and the Rhythm Edit screen (p. 70) will appear.

6. If you don't want to assign it, press [F5 (Cancel)]. You will return to the sample edit screen.

Create a Rhythm Set using the samples created by the Chop operation

When the sample chop operation is completed (p. 118), you will be asked whether you want to execute Create Rhythm.

 If you want to execute Create Rhythm, press [F6 (Execute)].

The Rhythm Set Name input screen will appear.

- 2. Assign a name to the rhythm set, and save it. For details, refer to "Saving a Patch/Rhythm Set" (p. 77).
- * To cancel the Create Rhythm operation, press [F5 (Cancel)] to return to the previous screen.

When you save a rhythm set, you will be asked whether you want to assign the newly created rhythm set to the current part.

- **3.** If you want to assign it, press [F6 (Execute)]. The newly created rhythm set will be assigned to the current part, and the Rhythm Edit screen (p. 70) will appear.
- **4.** If you don't want to assign it, press [F5 (Cancel)]. You will return to the sample edit screen.

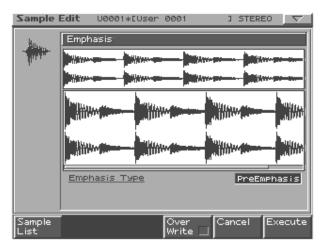
Emphasis

In some cases, the audio quality will be improved if you boost the high-frequency range of an imported sample. Also, the highfrequency range of the sample may be emphasized when you use a sampler made by another manufacturer. In this case, you can minimize the change in tonal character by attenuating the highfrequency range.

1. Press [EMPHASIS].

Alternatively, hold down [SHIFT] and press [F2 (Emphasis)].

2. Press [F1 (Sample List)] and select a sample.



3. Use [VALUE] or [INC/DEC] to select the emphasis type.

PreEmphasis: Emphasizes the high-frequency range. **DeEmphasis:** Attenuates the high-frequency range.

 If you want to replace the current sample with the emphasized sample, press [F4 (Over Write)] to display the "✓" symbol.

5. Press [F6 (Execute)].

A message will ask you for confirmation.

6. To execute, press [F6 (Execute)].

To cancel, press [F5 (Cancel)].

Combine

This operation combines multiple samples into a single sample. You can combine as many as sixteen samples. You can also place silent spaces between the samples.

1. Press [COMBINE].

Alternatively, hold down [SHIFT] and press [F3 (Combine)].

2. Press [F1 (Sample List)] and select a sample.

Sample E	Edit 🔽 🗸 🗸				
ku.	Combine				
	Current PRM 6 User0001:User 0001				
	TYPE BANK PRMTYPE BANK PRM				
	1 Sample U 0001 9 None				
	2 Sample U 0003 10 None				
	3 Time 500 11 None				
	4 Sample U 0005 12 None				
	5 Beat 1/16 13 None				
	6 Sample U 0001 14 None				
	7 None 15 None				
	8 None 16 None				
Sample List:	Comb- Trun- cate Cancel Execute				

3. Use [CURSOR] to select a parameter.

4. Use [VALUE] or [INC/DEC] to set the value.

Parameter	Range	Explanation	
1–16	The sample or	silence to be combined	
TYPE	Sample,	Sample: sample	
	Time, Beat	Time: silent region (specified as	
		time)	
		Beat: silent region (specified as a	
		note value)	
BANK	U, C	Bank that contains the sample	
		U: user	
		C: card	
		* This will be displayed only if	
		TYPE is set to Sample.	
PRM	1–10000 ms	Sample number, or the duration/	
		note value of the silent region	
	note value:	The note value is based on the	
	1/32,1/16T,	BPM of the sample immediately	
	1/16,1/8T,	before the silent region.	
	1/8,1/4T,	* If there is no sample immediate-	
	1/4, 1/2,	ly before the silent region, the	
	1/1,2/1	current BPM will be used.	

5. Press [F6 (Execute)]

A message will ask you for confirmation.

6. To execute, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

Edit Time Stretch

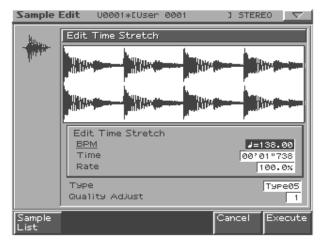
This operation stretches or shrinks the sample to modify the length or tempo.

You can stretch or shrink the sample by a factor of one half to double the original length.

1. Press [TIME STRETCH].

Alternatively, hold down [SHIFT] and press [F4 (Time Stretch)].

2. Press [F1 (Sample List)] and select a sample.



3. Press [CURSOR (up/down)] to select how you want to specify the tempo/length.

Edit	BPM:		
Time	Change the BPM (p. 116) of the sample to the BPM		
Stretch	you spec	cify.	
	Time:		
	Specify t	he length of the sample as a time value.	
	Rate:	0 1	
	Specify the length relative to the current length of		
	the sample.		
	Range: 50.0–200.0%		
Туре	TYPE01-	Lower settings of this value will make	
	TYPE10	the sound more suitable for faster phras-	
		es, and higher settings will make the	
		sound more suitable for slower phrases.	
Quality	1-10	Make fine adjustments to the tonal qual-	
Adjust		ity of the Time Stretch.	

4. Use [VALUE] or [INC/DEC] to specify the tempo/ length.

5. Press [F6 (Execute)].

The length of the sample will be changed as specified.

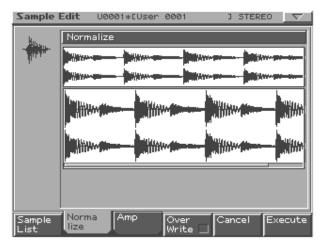
* To cancel, press [F5 (Close)].

Normalize

This operation raises the level of the entire sample as much as possible without exceeding the maximum level.

1. Press [NORMALIZE/AMP].

2. Press [F1 (Sample List)] and select a sample.



 If you want to replace the current sample with the normalized sample, press [F4 (Over Write)] to display the "✓" symbol.

4. Press [F6 (Execute)].

A message will ask you for confirmation.

5. To execute, press [F6 (Execute)].

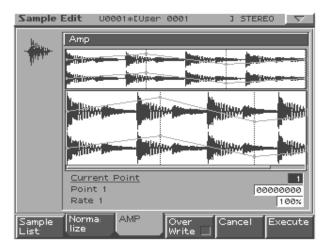
* To cancel, press [F5 (Cancel)].

Sample Edit

Amp

This operation applies an envelope (time-variant change) to the volume of the sample.

- **1.** Press [NORMALIZE/AMP] and then press [F3 (Amp)]. Alternatively, hold down [SHIFT] and press [F6 (Amp)]).
- 2. Press [F1 (Sample List)] and select a sample.



3. Use [CURSOR (up/down)] to select a parameter.

4. Use [VALUE] or [INC/DEC] to set the value.

Current Point	Currently selected point		
	Beginning near the start point, the points		
	will be numbered 1, 2, 3, or 4.		
Point 1–4	Location of the current point		
Rate 1–4	Amplification ratio of the current point		
	Specifies how the volume of each point is		
	to be boosted relative to the current value.		
	Range: 0-400%		

- If you want the edited sample to replace the current sample, press [F4 (Over Write)] to display the "✔" mark.
- 6. Press [F6 (Execute)].

A message will ask you for confirmation.

7. To execute, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

Saving a sample

A newly loaded sample, as well as any changes you've made in the settings for a sample will be lost as soon as you turn off the power. If you want to keep such data, you must save it as follows.

- 1. Press [SAMPLING/RESAMPLING] to access the Sample Edit screen.
- 2. Select the sample that you want to save.

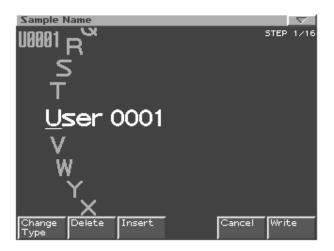
Write Menu		
	Pattern	
	Patch/Rhythm	
N	RPS Set	
	Pattern Set	
Gi	Song	×
	Sample	
	atch RPS PCL Song	Sample

3. Press [WRITE].

The Write Menu screen will appear. Make sure that "Sample" is highlighted.

4. Press [ENTER].

The Sample Name input screen will appear.

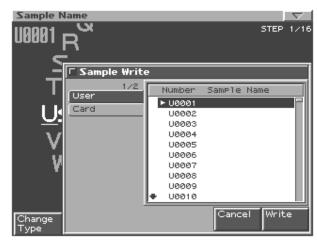


5. Assign a name to the sample.

[CURSOR (left/right)]	Moves the cursor (the location at which
	to enter/edit a character).
[CURSOR (up/down)]	Switches letters between uppercase
	and lowercase.
[VALUE] [INC/DEC]	Selects characters.
[F1 (Change Type)]	Selects the type of character.
	Each time you press this, you will al
	ternately select the first character of
	the uppercase alphabet (A), lower-
	case alphabet (a), or numerals and
	symbols (0).
[F2 (Delete)]	Deletes the character at the cursor loca
	tion, while shifting the following char-
	acters to the left, closing the gap.
[F3 (Insert)]	Inserts a space at the cursor location.

* If you decide to discard your changes, press [F1 (Cancel)].

6. When you have finished inputting the name, press [F6 (Write)].



7. Use [VALUE] or [INC/DEC] to select the writedestination sample.

Use [CURSOR (left/right)] to select the bank (User or Card).

8. Press [F6 (Write)].

A message will ask you for confirmation.

- 9. To write the sample, press [F6 (Execute)].
 - * If you decide to cancel without writing, press [F5 (Cancel)].



- You cannot overwrite onto another sample.
- When saving a stereo sample, two consecutive sample numbers must be available.

Menu (in Sample Edit)

Using the menu

- 1. In the Sample Edit screen, press [MENU].
- **2.** Use [CURSOR (up/down)] or turn [VALUE] to select the function that you want to execute.

3. Press [ENTER].

A message will ask you for confirmation.

4. To execute, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

Sample List	View a list of samples (p. 115).
Sample Parameter	Make various settings for a sample
	(p. 116).
Load Sample	Load a sample.
Load All Sample	Load all samples from the user bank
	and card bank.
Import WAV/AIFF	Import WAV/AIFF files from an ex-
	ternal device.
Create Patch	Create a patch using a sample (p.
	117).
Delete Sample File	Completely delete a sample.
Erase Sample	Erase a sample from memory.

Loading a sample

Here's how a sample that you specify in the sample list (p. 115) can be loaded into memory.

1. From the menu, choose "Load Sample."

2. Press [ENTER].

A message will ask you for confirmation.

3. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

Loading all samples

Here's how all samples in the user bank and card bank can be loaded.

NOTE

When you execute Load All Samples, all unsaved samples will be erased.

NOTE

If the total size of the data in the user bank and card bank exceeds the size of memory, the samples of the user bank will be loaded first. At this time, as many card bank samples as possible will be loaded, starting from the lowest-numbered sample.

1. From the menu, choose "Load All Sample."

2. Press [ENTER].

A message will ask you for confirmation.

3. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

Importing WAV/AIFF data

Here's how to import an audio file (WAV/AIFF) as a sample.

- 1. From the menu, choose "Import WAV/AIFF."
- 2. Press [ENTER].
- 3. Select the sample that you want to import.

[CURSOR (right)]	Display the contents of a folder.
[CURSOR (left)]	Return to the folder above.
[VALUE] [INC/DEC]	Move the cursor upward or downward.
[CURSOR (up/down)]	
[F1 (User)]	Display the contents of the user area.
[F2 (Card)]	Display the contents of the memory card.
[F3 (Mark Clear)]	Remove the check mark from the file.
[F4 (Mark Set)]	Add a check mark to the file.
[F5 (Cancel)]	Return to the previous screen.
[F6 (Import)]	Import the checked files. (*1)
[SHIFT] +	Clear the check marks from all files in the
[F3 (Mark Clear All)]	folder.
[SHIFT] +	Add a check mark to all files in the folder.
[F4 (Mark Set All)]	

F4 (Mark Set All)]

*1: If not even check mark is assigned, the operation will be executed on the file selected by the cursor.

4. Press [F6 (Import Sample)].

A message will ask you for confirmation.

5. To import, press [F6 (Execute)].

The file will be loaded as a sample.

* To cancel, press [F5 (Cancel)].

Deleting a sample

Here's how to completely delete a sample file.

- 1. From the menu, choose "Delete Sample File."
- 2. Press [ENTER].

A message will ask you for confirmation.

3. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

Erasing a sample

Here's how to erase a sample from memory. The file will not be erased.

1. From the menu, choose "Erase Sample."

2. Press [ENTER].

A message will ask you for confirmation.

3. Press [F6 (Execute)] to execute.

* To cancel, press [F5 (Cancel)].

MEMO

In the case of stereo samples, L and R will be loaded/deleted/erased simultaneously.



This section explains the system settings and the utility menu.

System

Here you can make settings that affect the entire system, such as those for tuning and synchronization.

- 1. Press [MENU].
- 2. Press [CURSOR (up/down)] to select "System." In Pattern mode/Song mode, you can also access this by

holding down [SHIFT] and pressing [F5 (System)].



3. Press [ENTER].

The System menu will appear.

System					
	V IL				
	<u> </u>		<u> </u>		
Press F	1-F6 butto	on to selec	t system i	menu.	
		A.K	ku.		
	. <u></u> .	- -		- A <i>F</i> -	
			η		
Panel/	Seq/ MIDI	Sound:	Sampling	D Beam	System
Control	INITYI				Info

4. Press [F1]–[F6] to select the item that you want to set.

[F1 (Panel/Control)]	Make settings for the panel control-
(Panel/Controller)	lers and the screen.
[F2 (Seq/MIDI)]	Make sequencer and MIDI-related
(Sequencer/MIDI)	settings.
[F3 (Sound)]	Specify the tuning and how the
	sounds are to be produced.
[F4 (Sampling)]	Make sampling-related settings.
[F5 (D Beam)]	Make D Beam settings.
[F6 (System Info)]	View the state of the MC-909.
(System Information)	

5. Press a function button to make further selections.

6. Use [CURSOR (up/down)] to select a parameter.

7. Use [VALUE] or [INC/DEC] to edit the value.

- * Settings made here will revert to their original value as soon as you turn off the power. If you want to keep your settings, press **[F6** (System Write)].
- **8.** When you are finished making settings, press [EXIT]. You will return to the System menu.
- 9. Press [EXIT] once again to exit the System menu.

Panel/Controller

Here you can make settings for the panel controllers and the screen.

Parameter	Range	Explanation
[F1 (Pad Velocity)]		
Pad Velocity	REAL, 1–127	Strength of the note when you press a velocity pad
		If you set this to REAL, you can vary the dynamics of the sound by varying the strength with
		which you press the pad.
[F2 (TTE/Tap/DB)]		
TTE Slider Type	TTE, PITCH BEND,	Function of the turntable emulation slider
	MODULATION	TTE: Standard turntable emulation
		PITCH BEND: Pitch bender
		MODULATION: Modulation
TTE Magnify	-1-+1200-+200	Variable range of the turntable emulation slider
Tap Switch	OFF, ON	Tap button on/off
Tap Resolution	QUARTER, 8TH,	Tap tempo resolution
	16TH	The resolution (note value) to be used when using [TAP] to change the tempo
		QUARTER: Quarter note
		8TH: Eighth note
		16TH: Sixteenth note
D Beam ID	0-3	When using two or more MC-909 units together, you can specify a different ID for each unit
		so that the D Beam controllers of the units will not interfere with each other.
D Beam Sens L	0-127	Sensitivity of the D Beam controllers
D Beam Sens R		The sensitivity of the D Beam controller will change depending on the amount of light in
		the vicinity of the unit. If it does not function as you expect, adjust the sensitivity as appro-
		priate for the brightness of your location. Increasing this value will raise the sensitivity.
[F3 (Screen Saver)]		
Screen Saver Type	1-10	Type of screen saver
Screen Saver Time	OFF, 5–60 min	Time (minutes) until the screen saver begins working
		If this is OFF, the screen saver will not appear.
[F4 (Back Ground)]	•	
Back Ground Picture	1-10	File that is to be displayed as the screen background
		Press [F5 (Import BMP)], and load a bitmap file from the TMP/BMP folder within USER/
		CARD.

Sequencer/MIDI

Here you can specify how the sequencer will operate, and make MIDI-related settings.

Parameter	Range	Explanation
[F1 (Seq Sync)]		
Sync Mode	MASTER, REMOTE, SLAVE	Specifies how the internal sequencer will operate and how MIDI Clock messages will be transmitted and received. MASTER: The internal sequencer will synchronize to the internal tempo clock. Any MIDI Clock messages received from an external device will be ignored. REMOTE: Operation will be essentially the same as "MASTER." However, Start/Stop messages from the external MIDI device will control playback/stop for the internal sequencer. SLAVE: The internal sequencer will synchronize to MIDI Clock messages received from an external device. If no MIDI Clock messages are being received, pattern/song playback will not occur even if you press the [PLAY] button.
Sync Output	OFF, ON	 Determines whether synchronization-related MIDI messages will be transmitted. OFF: Messages will not be transmitted. ON: The following messages will be transmitted from the MIDI OUT connector. Timing Clock: F8 Start: FA Continue: FB Stop: FC Song Position Pointer: F2
Arpeggio Sync Mode	OFF, MODE1, MODE2	 Specifies how the arpeggio start timing will be synchronized to the pattern. OFF: The start timing will not synchronize. MODE1: When a pattern plays, the arpeggio will start in synchronization. When the pattern stops, the arpeggio will also stop. MODE2: In addition to the operation of MODE1, the arpeggio will start at the beginning of the next measure of the currently-playing pattern. * If the pattern is stopped, the arpeggio will start immediately, regardless of which of the above settings is selected.

Parameter	Range	Explanation
RPS Trigger	REAL,	When using RPS during pattern playback, patterns and phrases may not play back in precise alignment,
Quantize	16TH, 8TH,	depending on the timing at which you press the velocity pads. On the MC-909 you can specify the playback
	QUARTER,	timing of the phrase, so it will play back in precise synchronization with the pattern.
	MEASURE	REAL: The phrase will play back immediately, at the timing at which you pressed velocity pads.
		16TH, 8TH, QUARTER: The pattern will be divided into selected note units, and when you press the ve-
		locity pads, the phrase will begin playing at the beginning of the next note unit.
		MEASURE: The pattern will be divided into one-measure units, and when you press the velocity pads,
		the phrase will begin playing at the beginning of the next measure.
BPM Lock	OFF, ON	Specifies how the tempo will change when patterns are played back consecutively.
		OFF: When the pattern changes, the tempo will change at the same time.
	L	ON: The tempo of the first-played pattern will continue even when the pattern changes.
[F2 (Song/Pattern)		
Song Loop Mode	OFF,	Specifies how songs will be played back.
	LOOP1,	OFF: The currently selected song will be played back only once.
	LOOP2	LOOP1 : The currently selected song will be played back repeatedly.
		LOOP2: All songs will be played back repeatedly in sequence.
		* When using "LOOP2" to playback a song, we recommend that a pattern which mutes all parts (i.e., a
		silent pattern) be inserted at the end of the song, so that songs are joined smoothly.
Song Play Mode	MODE1,	Specifies whether or not the pattern setup parameters will be loaded when you move to the next step of the
	MODE2	song.
		MODE1: The setup parameters, mute, and realtime modify settings will be loaded each time you move
		to the next step.
		MODE2: Setup parameters, mute, and realtime modify will be maintained during playback only if the
		next step plays a pattern that is the same as the currently playing pattern.
Song Step Switch	AUTO,	Specifies whether playback will automatically advance to the next step of the song.
0 1	MANUAL	AUTO: Automatically advance to the next step.
		MANUAL: Advance to the next step if in Song mode you press [F1 (Next Step)] to display the "✔" mark.
Startup Ptn	LAST	Specifies how the pattern will be selected at power-on.
Mode	WRITTEN,	LAST WRITTEN: The pattern that was most recently written prior to the last power-off will be selected.
inoue	USER DE-	USER DEFINABLE: The pattern specified by the following parameters will be selected.
	FINABLE	••••••••••••••••••••••••••••••••••••••
Startup Ptn Bank	Preset, User,	The pattern that will be selected at power-on
ountup Furbunt	Card	
Startup Ptn	001-***	-
Number		
	 Depends on the 	
	on the	
	hank	
[F3 (MIDI Tx)]	bank.	
[F3 (MIDI Tx)]		Specifies whether or not program changes will be transmitted from MIDLOUT when the patch of each part
Transmit Pro-	bank. OFF, ON	Specifies whether or not program changes will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OEE " program changes will not be transmitted.
Transmit Pro- gram Change	OFF, ON	is changed. When this setting is "OFF," program changes will not be transmitted.
Transmit Pro- gram Change Transmit Bank		is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each
Transmit Pro- gram Change Transmit Bank Select	OFF, ON OFF, ON	is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted.
Transmit Pro- gram Change Transmit Bank Select Transmit Active	OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing	OFF, ON OFF, ON OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch	OFF, ON OFF, ON OFF, ON TYPE-	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing	OFF, ON OFF, ON OFF, ON TYPE- QUICK,	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch	OFF, ON OFF, ON OFF, ON TYPE-	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system ex-
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch	OFF, ON OFF, ON OFF, ON TYPE- QUICK,	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch	OFF, ON OFF, ON OFF, ON TYPE- QUICK,	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit	OFF, ON OFF, ON OFF, ON TYPE- QUICK,	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether the modified settings will be transmitted as System Exclusive data (ON), or not (OFF).
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether the modified settings will be transmitted as System Exclusive data (ON), or not (OFF). Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether the modified settings will be transmitted as System Exclusive data (ON), or not (OFF). Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data Soft Through	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether the modified settings will be transmitted as System Exclusive data (ON), or not (OFF). Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change
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Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data Soft Through [F4 (MIDI Rx)] Remote Key-	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will be re-transmitted. Set this parameter "ON" when you want to use an external MIDI keyboard instead of the MC-909's velocity
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data Soft Through	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted.
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Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data Soft Through [F4 (MIDI Rx)] Remote Key-	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change from the MIDI OUT. When this setting is "OFF," MIDI messages received at the MIDI IN will be re-transmitted. Set this parameter "ON" when you want to use an external MIDI keyboard instead of the MC-909's velocity pads. * This parameter is set to "ON' with the factory settings, enabling patches in the part selected on the MC-909 to be played back regardless of the transmission channels of the external MIDI keyboard.
Transmit Pro- gram Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type Transmit Edit Data Soft Through [F4 (MIDI Rx)] Remote Key-	OFF, ON OFF, ON OFF, ON TYPE- QUICK, TYPE-CC OFF, ON OFF, ON	 is changed. When this setting is "OFF," program changes will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies whether or not bank select messages will be transmitted from MIDI OUT when the patch of each part is changed. When this setting is "OFF," bank select messages will not be transmitted. Specifies the type of MIDI message that will be used to communicate with external devices when the panel knobs are moved. TYPE-QUICK: Knob/slider data will be transmitted and received as control changes and as system exclusive data. TYPE-CC: Knob/slider data will be transmitted and received as control changes. The amount of data will be smaller than for TYPE-QUICK. Specifies whether or not MIDI messages received at the MIDI IN will be re-transmitted without change from the MIDI OUT.When this setting is "OFF," MIDI messages received at the MIDI IN will not be re-transmitted. Set this parameter "ON" when you want to use an external MIDI keyboard instead of the MC-909's velocity pads. * This parameter is set to "ON' with the factory settings, enabling patches in the part selected on the MC-

Parameter	Range	Explanation	
Device ID	17–32	Device ID number of a system exclusive message on the MC-909	
		A system exclusive message can only be received if the device number included in the message matches	
		the device ID number set up on the receiving MIDI equipment. Using this function enables different Sys-	
		tem Exclusive messages to be received by more than one MC-909 unit at the same time.	
		* At the factory settings, the device ID number is set to "17."	
Receive Program	OFF, ON	Specifies whether or not each part will receive program changes. When this is "OFF," program changes will	
Change		not be received.	
Receive Bank Se-	OFF, ON	Specifies whether or not each part will receive bank select messages. When this is "OFF," bank select mes-	
lect		sages will not be received.	
Receive Exclu-	OFF, ON	Specifies whether or not each part will receive system exclusive messages. When this setting is "OFF," sys-	
sive		tem exclusive messages will not be received.	

Sound

Here you can specify the tuning and how the sound is to be produced.

Parameter	Range	Explanation
[F1 (Sound/Tune)]		
Master Tune	415.3–466.2 Hz	Adjusts the overall tuning of the MC-909.
		The setting expressed as the frequency played by the A4.
Master Level	0–127	Adjusts the volume of the entire MC-909.
Output Gain	-12- +12 dB	Adjusts the output gain from the MC-909's Analog Out and Digital Out.
Metronome Level	0-10	Adjusts the volume of the metronome.
Master Key Shift	-24-+24	Shifts the overall pitch of the MC-909.
Patch Remain	OFF, ON	Specifies whether currently sounding notes will continue sounding when another patch or
		rhythm set is selected (ON), or not (OFF).
[F2 (Sound Control)		
Rhythm Octave	OFF, ON	Specifies the [OCT +/-] buttons will have effect when a rhythm set is assigned to current part
Switch		(ON), or not (OFF).
Resonance Limiter	50-127	Specifies the range in which the [RESONANCE] knob can be adjusted.
		As this setting is increased, the variable range of the [RESNANCE] knob will increase.
LFO Morphing	OFF, ON	Specifies whether LFO1 Waveform will be modified smoothly by the knob (ON) or not (OFF).
Switch		

Sampling

Here you can make sampling-related settings.

Parameter	Range	Explanation	
[F1 (Sampling)]			
Default File Type	WAV, AIFF	File format used when saving a sample	
Preset Default Load	OFF, ON	Specifies whether the preset samples will be loaded into memory at power-on (ON) or not (OFF).	
Sample Default Load	OFF, ON	Specifies whether the samples of the user area and memory card will be loaded into mem- ory at power-on (ON) or not (OFF).	
Pre Sample Time	0–1000 ms	The length of sound preceding the moment at which sampling was manually or automati- cally initiated that will be captured in the sample This lets you prevent the attack portion of the sound from being omitted from the sample.	
Trigger Level	0–7	Volume level at which sampling will begin when Auto Trig is ON A setting of 0 is the minimum.	
Gap Time	500, 1000, 1500, 2000 ms	Length of silence at which the sample will be divided Whenever there is a silent region longer than the specified time, the sample will be divid- ed at that point, and the next sample number will be assigned to the sound that follows. * This parameter is valid only when you are using Auto Divide Sampling.	
External Source Select	LINE-L-R, LINE-L, DIGI-OPT, DIGI-COAX, MIC	Input source of the external input sound LINE-L-R: INPUT jacks L/R (stereo) LINE-L: INPUT jack L (mono) DIGI-OPT: Digital Input (Optical) DIGI-COAX: Digital Input (Coaxial) MIC: INPUT jack (mono, mic level)	
Trimming Switch	OFF, ON	If this is turned on, the Start point and End point settings will be automatically adjusted af- ter sampling is performed, so any silent portions at the beginning or end of the sampled sound are excluded.	

D Beam

Here you can make settings for the D Beam controller.

Parameter	Range	Explanation
[F1 (Solo Synth)]		•
Solo Synth Patch Bank	Refer to Patch List (p. 151)	Patch played by the solo synth
Solo Synth Patch No.		
Solo Synth Note	0 (C-1)–127 (G9)	Reference note for the solo synth
Solo Synth Scale	FREE, CHROMATIC	Scale on/off
		FREE: Continuous (no steps)
		CHROMATIC: Semitone steps
Solo Synth Range	20CTAVE, 40CTAVE	Range of the solo synth
[F2 (Cut+Reso)]		
Cutoff Range Lower	0–127	Filter cutoff frequency when you move your hand away from the D Beam
Cutoff Range Upper	0–127	Filter cutoff frequency when you move your hand near the D Beam
Resonance Range	0–127	Filter resonance when you move your hand away from the D Beam
Lower		
Resonance Range Up-	0–127	Filter resonance when you move your hand near the D Beam
per		
[F3 (Turntable)]	1	1
Turntable BPM Type	DOWN, UP	How the tempo will change when you move your hand near the D Beam
		DOWN: The tempo will slow down as you move your hand nearer.
		UP: The tempo will speed up as you move your hand nearer.
Turntable Pitch Type	DOWN, UP	How the pitch will change when you move your hand near the D Beam
		DOWN: The pitch will fall as you move your hand nearer.
		UP: The pitch will rise as you move your hand nearer.
[F4 (User Assign)]		
Туре	Control Change, Bend Up, Bend	Parameter that will be controlled by the D Beam
	Down, Bend Up/Down, Ch After-	
	touch, Start/Stop, Glissando, Adlib,	
	Arp Octave Up, Arp Octave Down,	
	Arp Octave Both, Arp Duration,	
	BPM Up, BPM Down, Pitch UP, Pitch	
	Down, Effects C1, Effects C2, All	
	Mute	
Number	CC#1-CC#31, CC#33-CC#95	Control change number
		This can be set only if Type is set to "Control Change."
Range Lower	0–127	Value of the parameter when you move your hand away
Range Upper	0–127	Value of the parameter when you move your hand nearer

System Information

Here you can view the state of the MC-909.

Press [F6 (Close)] to return to the System menu screen.

- [F1 (Features)] Displays the main features of the MC-909.
- [F2 (Memory Info)] Displays the amount of memory installed.
- [F3 (SRX Exp Info)]

Displays the name of the wave expansion board that is installed.

• [F4 (Version)] Displays the version of the internal program.

Utility

Here you can manage various types of data.

- 1. Press [MENU].
- 2. Use [CURSOR (up/down)] to select "Utility."



3. Press [ENTER].

The Utility menu screen will appear.

Import SMF Import the SMF to the user/card pattern. Save As SMF save the current pattern Import SMF. Save As SMF Save the current pattern Import WAV/AIFF Import sample data from WAV/AIFF. Import. Save Save Save Save Save Import sample data from WAV/AIFF. Save Save

4. Press [F1]–[F6] to select the operation that you want to execute.

[F1 (Import SMF)]	Load SMF data into a user pattern		
	or memory card (p. 131).		
[F2 (Save As SMF)]	Save the data of the current pat-		
	tern in SMF format (p. 132).		
[F3 (Import WAV/AIFF)]	Import sample data from a		
	WAV/AIFF file (p. 132).		
[F4 (Factory Reset)]	Restore the factory settings (p.		
	20).		
[F5 (User Backup)]	Save user data to a memory card		
	(p. 132).		
[F6 (User Restore)]	Load user data from a memory		
	card (p. 132).		

Import SMF

Here's how to load SMF pattern data, and write it to a user pattern or memory card.

The MC-909 supports SMF formats 0 and 1.

NOTE

If the write-destination user pattern contains data, that data will be replaced by the data that is written.

- 1. In the Utility menu screen, press [F1 (Import SMF)].
- 2. Select the SMF that you want to import.

[F1 (User)]	Display the contents of the user area.		
[F2 (Card)]	Display the contents of the memory card.		
[F5 (Cancel)]	Return to the previous screen.		
[F6 (Import)]	Import the selected file.		
[CURSOR (right)]	Display the contents of a folder.		
[CURSOR (left)]	Return to the folder above.		
[VALUE] [INC/DEC]	Move the cursor upward or downward.		
[CURSOR (up/down)]			

3. Press [F6 (Import)].

A screen in which you can specify the write destination will appear.

- 4. Use [CURSOR (left/right)] to specify the type of destination—either a user pattern or a memory card.
- 5. Use the [VALUE] dial, [INC/DEC], or [CURSOR (up/ down)] to select the write-destination pattern.

6. Press [F6 (Write)].

A message will ask you for confirmation.

- 7. To write the data, press [F6 (Execute)].
- * To cancel, press [F5 (Cancel)].

Cautions when importing SMF

- Files with settings not supported by the MC-909's sequencer cannot be imported.
- SMF data created with multiple channels can not be imported correctly in some cases.
- Level data and program changes located earlier than the note data will be imported as setup data.
- On the MC-909, the channel number corresponds to the part number; e.g., channel 1 = part 1. Thus, data created on channel 1 will be imported into part 1.
- Setup data located earlier than the note data will be reflected in the Mixer screen as pattern setup data. Also, the first note message will be imported as the first beat of the first measure. If you import data that does not begin at the beginning of the first measure, use the pattern edit operation Shift Clock to move it.

<Setup Data>

- Program Change (PC)
- Bank Select (CC#0, CC#32)
- Level (CC#7)
- Pan (CC#10)
- Key Shift (CC#85)
- Reverb Send Level (CC#91)
- Various Effects (System Exclusive)

Save As SMF

Here's how to write the data of the current pattern to user memory or memory card as SMF data.

Format 1 SMF data will be created.

- 1. In Pattern mode, select the pattern that you want to save as SMF data.
- 2. In the Utility menu screen, press [F2 (Save As SMF)].
- **3.** Select the destination in which the SMF data is to be saved.

For details on the selection procedure, refer to "Import SMF" (p. 131).

4. Press [F6 (Save As SMF)].

A message will ask you for confirmation.

- 5. To save the data, press [F6 (Execute)].
 - * To cancel, press [F5 (Cancel)].

Import WAV/AIFF

Here's how to import a sample file (WAV/AIFF) as a user sample.

1. In the Utility screen, press [F3 (Import WAV/AIF)].

2. Select the sample that you want to import.

D' = 1 + (1 + (1 + (1 + (1 + (1 + (1 + (1		
Display the contents of a folder.		
Return to the folder above.		
Move the cursor upward or downward.		
Display the contents of the user area.		
Display the contents of the memory card.		
Remove the check mark from the file.		
Add a check mark to the file.		
Return to the previous screen.		
Import the checked files. (*1)		
Clear the check marks from all files in the		
folder.		
Add a check mark to all files in the folder.		

*1: If not even check mark is assigned, the operation will be executed on the file selected by the cursor.

3. Press [F6 (Import)].

A message will ask you for confirmation.

4. To import the sample, press [F6 (Execute)].

The data will be loaded into a user sample.

* To cancel, press [F5 (Cancel)].

Factory Reset

You can restore the settings of the MC-909 to their factory-set condition. Refer to p. 20.

User Backup

Here's how all user data in the user area can be saved on a memory card.

The following user data will be saved.

- User Patterns
- User Patches
- User Rhythm sets
- Songs
- Samples
- Pattern sets
- RPS sets
- Arpeggio styles
- Chord forms
- System settings

MEMO

In order to execute User Backup, the memory card must have approximately 16 MB or more free area.

- 1. Insert a memory card into the slot.
- **2.** In the Utility screen, press [F5 (User Backup)]. A message will ask you for confirmation.

3. To execute the backup, press [F6 (Execute)].

* To cancel, press [F5 (Cancel)].

User Restore

Here's how user data saved on a memory card by the User Backup operation can be reloaded back into the user memory of the MC-909.



When you execute User Restore, the current contents of the user area will be completely erased.

- 1. Into the slot, insert the memory card on which user data has been saved.
- **2.** In the Utility screen, press [F6 (User Restore)]. A message will ask you for confirmation.
- 3. To proceed with the restoration, press [F6 (Execute)].
 - * To cancel, press [F5 (Cancel)].

MIDI

Here you can make MIDI-related settings.

- 1. Press [MENU].
- 2. Use [CURSOR (up/down)] to select "MIDI."



3. Press [ENTER].

The MIDI Tx screen will appear.

For details on the settings, refer to p. 128.

System / Sequencer&MIDI				
	MIDI Transmit Transmit Program Change Transmit Bank Select Transmit Active Sensing Transmit Patch Edit Type TYPE-CC Transmit Edit Data Soft Through ON			
Seq ISync	Song MIDI MIDI Tx Rx Write			

Menu

File Utility

Here you can perform file-handling operations.

- 1. Press [MENU].
- 2. Use [CURSOR (up/down)] to select "File Utility."



3. Press [ENTER].

The File Utility screen will appear.

File Util	ity				
	USER: \				
	File/Folder	Size			
	► EROLAND]			
	C TMP	J			
$ \Phi $					
· · · · · ·	Use 0.0MB Free 15.	.9MB /			
User	Card Card Format	Mark Mark Clear Set	Move		

4. Use [F3]–[F6] to select the operation you want to carry out.

[CURSOR (right)]	Display the contents of a folder.		
[CURSOR (left)]	Return to the folder above.		
[VALUE] [INC/DEC]	Move the cursor upward or downward.		
[CURSOR (up/down)]			
[F1 (User)]	Display the contents of the user area.		
[F2 (Card)]	Display the contents of the memory card.		
[F3 (Card Format)]	Format (initialize) a memory card.		
[F4 (Mark Clear)]	Remove the check mark from the file.		
[F5 (Mark Set)]	Add a check mark to the file.		
[F6 (Move)]	Move the checked files to another folder.		
	(*1)		
[SHIFT] +	Delete the checked files. (*1)		
[F3 (Delete)]			
[SHIFT] +	Clear the check marks from all files in the		
[F4 (Mark Clear All)]	folder.		
[SHIFT] +	Add a check mark to all files in the folder.		
[F5 (Mark Set All)]			
[SHIFT] +	Copy the checked files to another folder.		
[F6 (Copy)]	(*1)		

*1: If not even check mark is assigned, the operation will be executed on the file selected by the cursor.

* About the folder structure, refer to p. 135

Initializing a memory card (Format)

Here's how to initialize a memory card.

NOTE

When you execute the Format operation, the contents of the memory card will be completely erased.

1. Press [F3 (Format)].

A message will ask you for confirmation.

- 2. To format the card, press [F6 (Execute)].
- * To cancel, press [F5 (Cancel)].

Deleting a file (Delete)

Here's how you can delete an unwanted file from a folder.

- 1. Select the file that you want to delete.
- 2. Press [F4 (Delete)].

A message will ask you for confirmation.

- 3. To delete the file, press [F6 (Execute)].
- * To cancel, press [F5 (Cancel)].

Moving a file (Move)

Here's how you can move a file to a different folder.

- 1. Select the file that you want to move.
- 2. Press [F5 (Move)].

A screen will appear, allowing you to select the folder to which the file is to be moved.

- 3. View the contents of the move-destination folder.
- 4. To move the file, press [F6 (Execute)].
- * To cancel, press [F5 (Cancel)].

Copying a file

Here's how you can copy a file to a different folder.

- 1. Select the file that you want to copy.
- 2. Press [F6 (Copy)].

A screen will appear, allowing you to select the folder to which the file is to be copied.

- 3. View the contents of the copy-destination folder.
- 4. To copy the file, press [F6 (Execute)].
 - To cancel, press [F5 (Cancel)].

USB

Here's how USB communication with your computer can be switched on/off.

USB communication allows files in the user area or memory card of the MC-909 to be handled by your computer.

NOTE

USB communication with the MC-909 is possible only for Windows Me/2000/XP or later (Windows users), or Mac OS 9.04 or later (Macintosh users).

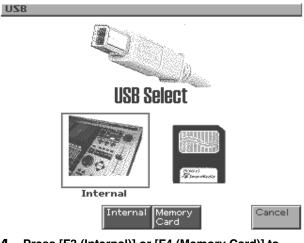
NOTE

Connect or disconnect the USB cable only when the MC-909 is powered-off. Never connect or disconnect the USB cable or turn off the power while in USB mode or while data is being transferred.

USB communication procedure

- * Before you continue, you must use a USB cable to connect the MC-909 with your computer.
- 1. Press [MENU].
- 2. Press [CURSOR (up/down)] to select "USB."
- 3. Press [ENTER].

The USB screen will appear.



4. Press [F3 (Internal)] or [F4 (Memory Card)] to establish the connection with your computer.

- [F3 (Internal)]: Connect to the user memory.
- [F4 (Memory Card)]: Connect to the memory card.
- * To cancel the connection, press [F6 (Cancel)].

Windows Me/2000/XP users

A drive named "Removable disk" will be displayed within My Computer.

This drive will contain a folder named "ROLAND."

Macintosh users

A drive icon named "MC-909 USER" will appear on the desktop. This will contain a folder named "ROLAND."

Canceling USB communication

Windows Me/2000/XP users

- 1. Use the device eject button shown in the taskbar at the lower right of the screen to cancel the connection with the MC-909.
- 2. Then press [F6 (Exit)] on the MC-909.

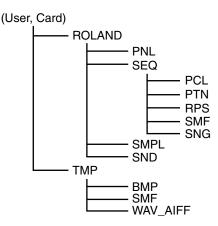
Macintosh users

- 1. Drag the MC-909 drive icon into the trash.
- 2. Then press [F6 (Exit)] on the MC-909.

IMPORTANT!

Cautions Regarding Folders and Files

The folder structure of the user area and memory card is as follows.



NOTE

Do not modify the folder structure from a computer that is connected to the MC-909 via USB.

The only files that can be transferred between the MC-909 and your computer are audio files (WAV/AIFF formats), Standard MIDI Files (SMF format 1), and bitmaps (320×240 pixels). Do not place any other format of file in the user area or memory card.

* The MC-909 can only handle filenames that consist of singlebyte, alphanumeric characters.

When placing files from a USB-connected computer into the MC-909's user area or memory card, make sure to place them in the relevant folders inside the TMP folder.

SMF folder

- Bitmaps
 BMP folder
- SMFs
- Audio files WAV_AIFF folder

NOTE

Do not use your computer to move/delete the files located within the ROLAND folder of the user area. Also, do not use your computer to format or optimize the user area.

d o

Undo/Redo

Here's how you can cancel the results of editing or recording a pattern or song.

1. Press [MENU].

2. Use [CURSOR (up/down)] to select "Undo/Redo."

The object of the Undo command will be displayed. For example if you are undoing a Microscope operation, the display will indicate "Undo Microscope."

3. To execute, press [F6 (Execute)].

* To cancel, press [F6 (Cancel)].



Undo can be executed for a pattern (pattern editing, microscope, and recording) or a song (song editing and song recording). Undo cannot be used for sample editing or patch editing.

MEMO

After executing Undo, you can use Redo to revert to the previous state. After executing Undo, you can execute Redo by performing the above procedure once again.

V-LINK

About V-LINK

What is V-LINK?

V-LINK (**V-LINK**) is a function that provides for the play of music and visual material. By using V-LINK-compatible video equipment, visual effects can be easily linked to, and made part of the expressive elements of a performance.

(Examples)

By using the MC-909 and Edirol DV-7PR together, you can:

- Make Edirol DV-7PR playback settings remotely from the MC-909.
- Use the MC-909's sequencer to enjoy synchronized music and video.
 Use the MC-909's velocity pads to switch the Edirol DV-7PR's
- images (clips/palettes).
 Use the MC-909's knobs to adjust the brightness or color of the
- Use the MC-909's knobs to adjust the brightness or color of the image.
- Use the MC-909's turntable emulation to control the video playback speed along with the music playback speed.
- * In order to use V-LINK with the MC-909 and Edirol DV-7PR, you will need to make connections using an Edirol UM1/UM-1S (sold separately).

By using the MC-909 and Edirol V-4 together, you can:

- Make settings for remotely controlling the V-4 from the MC-909.
- Use the MC-909's sequencer to switch images on the V-4, creating video performances with synchronized music.
- Use the MC-909's velocity pads to control the V-4's input selector, switching between images from various source devices.
- Use the MC-909's knobs to specify the time for transition effects (e.g., overlap or wipe).
- * In order to use V-LINK with the MC-909 and Edirol V-4, you will need a commercially-available MIDI cable.

Connection examples

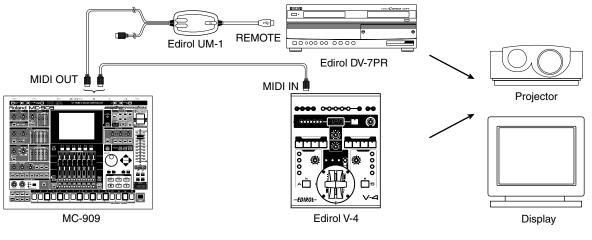
* Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Connection to Edirol DV-7PR

Use a UM-1 to connect the MC-909's MIDI OUT connector to the DV-7PR's remote jack.

Connection to Edirol V-4

Use a commercially-available MIDI cable to connect the MC-909's MIDI OUT connector to the Edirol V-4's MIDI IN connector.



Using V-LINK

Turning V-LINK on

1. In the lower left of the panel, press [V-LINK] so the indicator is lighted.

The V-LINK SETUP screen will appear.

2. Press [F6 (Close)] or [EXIT].

The [V-LINK] indicator will remain lit, and you're returned to the previous screen.

In this state, you can operate the velocity pads and turntable emulation slider to manipulate images in sync with the playback of the MC-909.

MEMO

Even when V-LINK is on, the panel will operate in the same way as usual for Pattern mode (p. 22), Patch/Sample mode (p. 52), and Song mode (p. 80).

Turning V-LINK off

1. Press [V-LINK] to access the V-LINK SETUP screen.

2. Press [V-LINK] again.

The [V-LINK] indicator goes out, and you're returned to the previous screen.



You cannot turn V-LINK off from a screen other than the V-LINK SETUP screen.

V-LINK settings

Parameter	Range	Explanation
Note Tx Ch	1–16	MIDI channel that will switch Edirol DV-7PR clips/palettes and will control dissolve time
Clip 1 Note No.	0(C-1)-127(G9)	Note number (velocity pad) that corresponds to Edirol DV-7PR clip 1
-		If this is set to 59 (B3), velocity pads 1–16 will correspond to clips 1–16.
Play Speed Ctrl	0.0-1.0-2.0, 0.5-1.0-2.0,	Range of video playback speed
	0.0-1.0-4.0, 0.5-1.0-4.0,	The three values are the playback speeds (multiples of normal speed) at the negative,
	0.0-1.0-8.0, 0.5-1.0-8.0,	center, and positive positions of the turntable emulation slider.
	0.0–1.0–16.0, 0.5–1.0–16.0,	
	0.0-1.0-32.0, 0.5-1.0-32.0,	
	0.0-2.0-4.0, 0.0-4.0-8.0,	
	0.0-8.0-16.0, 0.0-16.0-32.0,	
	-2.0-1.0-4.0, -6.0-1.0-8.0	
Dissolve Time	OFF, CC1, CC5, CC7, CC10,	Control change number that controls the dissolve time (time over which the image switch
	CC11, CC71–74, CC91–93,	es)
	Channel Aftertouch	
Ctrl Tx Ch	1–16	MIDI channel that will control the Edirol DV-7PR color Cb/Cr, brightness, and video effect
		switching
Color Cb Ctrl	OFF, CC1, CC5, CC7, CC10,	Control change number that controls the Cb color of the image
Color Cr Ctrl	CC11, CC71–74, CC91–93,	Control change number that controls the Cr color of the image
Brightness Ctrl	Channel Aftertouch	Control change number that controls the brightness of the image
VFX1-4 Ctrl		Control change number that controls the video effect
		* VFX2–4 are not supported by the Edirol DV-7PR.
Fade Ctrl	-	Control change number that controls the output fade
PAD MODE	CLIP, PALETTE	Selects whether the velocity pads will switch clips or palettes.
		Press [F1 (Clip mode)]: switch clips
		Press [F2 (Palette)]: switch palettes
Local Sw	OFF, ON	Specifies whether the internal sound generator is disconnected (OFF) from the velocity
		pads, or not (OFF).
Clip filter	(OFF), ✔ (ON)	Enable/disable switching for each clip
(check boxes 1–32)		Clips that are checked can be switched (see explanatory box below)

Using the Clip Filter

For example, suppose that of the rhythm set you input in the part used for V-LINK (i.e., the part of the same number as the Note Tx Channel), you want only the kick and snare to switch clips. In this case, check only the clips that correspond to the note numbers of the kick and snare. The clips will switch when the kick or snare plays.

Resetting the image

[F3 (Clip Reset)]	Turn off the image (solid black).		
[F4 (All Reset)]	The effect applied to the image will be reset,		
	and brightness, color difference, etc. will all		
	return to the default value.		

* For details on clips/palettes, dissolve time, color difference signals (Cb/ Cr), refer to the Edirol DV-7PR manual.



The MC-909 does not support the Edirol DV-7PR's dual stream mode.

MEMO

Appendices

Installing the Wave Expansion Board

An optional Wave Expansion Board (SRX series) can be installed in the MC-909.

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 MC-909.

Cautions When Installing a 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.
 - 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.
 - Save the bag in which the board was originally shipped, and put the board back into it whenever you need to store or transport it.
- Use a Philips screwdriver that is suitable for the size of the screw (a number 2 screwdriver). If an unsuitable screwdriver is used, the head of the screw may be stripped.
- To remove a screw, rotate the screwdriver counter-clockwise. To tighten the screws, rotate the screwdriver clockwise.

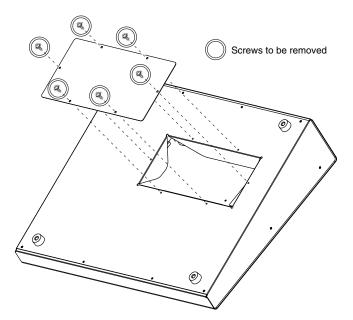


- Be careful that the screws you remove do not drop into the interior of the MC-909.
- Be careful not to cut your hand on the edge of the cover or the opening edge while removing the cover.
- Do not touch any of the printed circuit pathways or connection terminals.
- Never use excessive force when installing 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.
- Always turn the unit off and unplug the power cord before attempting installation of the circuit board (SRX series; Quick Start p. 2).
- Install only the specified circuit board (SRX series). Remove only the specified screws (p. 142).
- 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.
- Do not leave the bottom cover removed. After installation of the Wave Expansion Board is complete, be sure to replace the cover.

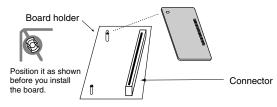
How to Install a Wave Expansion Board

Install the Wave Expansion Board after removing the bottom panel cover.

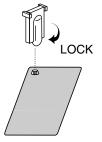
- **1.** Before installing the Wave Expansion Board, turn off the power of the MC-909 and all connected devices, and disconnect all cables, including the Power cable, from the MC-909.
- **2.** Turn the MC-909 over, remove the screws indicated in the following diagram, and remove the cover.



3. Plug the connector of the Wave Expansion Board into the connector on the unit, and at the same time insert the board holder through the hole of the Wave Expansion Board.



4. Use the Installation Tool supplied with the Wave Expansion Board to turn the holder 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.

Installing the Wave Expansion Board

Checking that a wave expansion board is installed correctly

- 1. Turn on the power as described in "Turning On/Off the Power" (p. 16).
- 2. Press [MENU].
- **3.** Use [CURSOR] to select [System].
- 4. Press [ENTER] to access the System Menu screen.

System					
Prose E1		n to selec	t sustam		
Fress F.	-Fo bucc	n co selec	it system	menu.	
	0.10	-1 ^K	_ Human	36	
- 77 -			a second	1000	L.Q.
Panel/	Seq/	Sound:	Sampling	D Beam	System
Control	MIDI				Info

- 5. Press [F6 (System Info)].
- **6.** Press [F3 (SRX Exp Info)].

Verify that the screen shows the model number of the wave expansion board you installed.

- 7. Press [F6 (Close)] to return to the System Menu screen.
- 8. Press [EXIT] to exit the System Menu screen.



If the model number of the board does not appear, it is possible that the wave expansion board is not being recognized properly. Turn off the power as described in "Turning On/Off the Power" (p. 16), and re-install the wave expansion board correctly.



- If SRX-01 "Dynamic Drum Kits" or SRX-02 "Concert Piano" is installed, only the waves can be used. The patches/rhythm sets cannot be used.
- When using the rhythm sets included on an expansion board, the rhythm tones for the sixteen keys from note numbers 35 (B1) through 50 (D3) will correspond to velocity pad 1 (59: B3) through pad 16 (74: D5).
- For some of the patches/rhythm sets included on an expansion board, pitch-related settings and FXM-related settings (p. 57, p. 71) will be ignored.

Installation de la carte d'extension Wave

French language for Canadian Safety Standard (French Language for Canadian Safety Standard)

Une carte d'expansion Wave (modèle SRX) optionnelle peut être installée dans le MC-909.

Les données Waveform, les retouches et les groupes de rythme sont stockés sur la carte d'expansion Wave; vous pouvez donc augmenter le nombre de sons disponibles en installant la carte dans le MC-909.

Précautions à prendre lors de l'installation d'une carte d'expansion Wave

- Veuillez suivre attentivement les instructions suivantes quand vous manipulez la carte afin d'éviter tout risque d'endommagement des pièces internes par l'électricité statique.
 - Toujours toucher un objet métallique relié à la terre (comme un tuyau par exemple) avant de manipuler la carte pour vous décharger de l'électricité statique que vous auriez pu accumuler.
 - Lorsque vous manipulez la carte, la tenir par les côtés. Évitez de toucher aux composants ou aux connecteurs.
 - Conservez le sachet d'origine dans lequel était la carte lors de l'envoi et remettez la carte dedans si vous devez la ranger ou la transporter.
- Utilisez un tournevis de type Philips de la taille adaptée à celle des vis (tournevis numéro 2). Un tournevis inadéquat peut endommager la tête de la vis.
- Pour retirer une vis, tourner le tournevis dans le sens contraire des aiguilles d'une montre. Pour serrer les vis, tourner le tournevis dans le sens des aiguilles d'une montre.

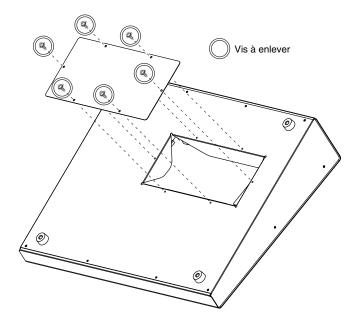


- Assurez-vous que les vis que vous retirez ne tombent pas à l'intérieur du MC-909.
- Faites attention de ne pas vous couper sur le bord du couvercle ou de l'ouverture lorsque vous retirez le couvercle.
- Ne pas toucher aux circuits imprimés ou aux connecteurs.
- Ne jamais forcer lors de l'installation de la carte de circuits imprimés. Si la carte s'ajuste mal au premier essai, enlevez la carte et recommencez l'installation.
- Quand l'installation de la carte de circuits imprimés est terminée, revérifiez si tout est bien installé.
- Toujours éteindre et débrancher l'appareil avant de commencer l'installation de la carte. (modèle SRX; Quick Start p. 2).
- N'installez que les cartes de circuits imprimes spécifiées (modèle SRX). Enlevez seulement les vis indiquées (p. 144).
- Lorsque vous déposez le MC-909 face vers le bas, placez des piles de journaux ou de magazines sous les quatre coins (ou des deux côtés) pour le soutenir. Ainsi, les boutons, manettes et autres pièces ne seront pas endommagés.
- En plaçant l'appareil sens dessus dessous, manipulez-le avec soin pour éviter de l'échapper, de le laisser tomber ou de se renverser.
- Ne pas laisser le panneau de protection avant detache. S'assurer de l'avoir rattacher apres avoir installe le disque dur.

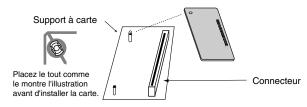
Installation d'une carte d'expansion Wave

Avant d'installer la carte d'expansion Wave, retirez le panneau inférieur.

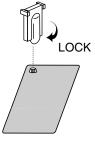
- Avant d'installer la carte d'expansion Wave, coupez l'alimentation du MC-909 et de tous les appareils branchés, et débranchez tous les câbles du MC-909, y compris le cable d'alimentation.
- **2.** Tournez le MC-909 sens dessous dessus, retirez les vis indiquées dans le diagramme ci-dessous et retirez le couvercle.



3. Enfichez le connecteur de la carte d'expansion Wave dans le connecteur de l'unité et, en même temps, insérez le support de carte par l'ouverture de la carte d'expansion Wave.



4. Utilisez l'outil d'installation fourni avec la carte d'expansion Wave pour tourner les supports en position LOCK (verrouillé) afin de retenir la carte en place.



Remettez le couvercle en place à l'aide des vis retirées à l'étape
 2.

Vérifier que la carte d'expansion Wave est installée correctement

- Mettre en marche tel que décrit sous « Turning On/Off the Power » (p. 16)
- 2. Appuyer sur [MENU].
- 3. Utiliser [CURSOR] pour choisir [System].
- **4.** Appuyer sur [ENTER] pour atteindre la fenêtre du menu du système.

System					
		_			
					_
Press F1	I-F6 butto	_ NA ∂ n to selec	t system i	NL G. nenu.	
		1.1	ku.		
		- - - - -	-	- A <i>F</i>	
Panel/ Control	Seq/ MIDI	Sound:	Sampling	D Beam	System Info

- 5. Appuyer sur [F6 (System Info)].
- Appuyer sur [F3 (SRX Exp Info)]. Le numéro du modèle de la carte d'expansion Wave que vous avez installée devrait apparaître dans la fenêtre.
- **7.** Appuyer sur [F6 (Close)] pour revenir dans la fenêtre du menu du système.
- **8.** Appuyer sur [EXIT] pour quitter la fenêtre du menu du système.

NOTE

Si le numéro du modèle de la carte n'apparaît pas, il est possible qu'elle n'ait pas été détectée correctement. Fermer tel que décrit sous « Turning On/Off the Power » (p. 16), et réinstaller la carte d'expansion Wave conformément aux instructions.



- Si SRX-01 «Dynamic Drum Kits» ou SRX-02 «Concert Piano» est installé, seules les ondulations peuvent être utilisées. Il n'est pas possible d'utiliser les groupes patch/rythme.
- Lorsque les groupes de rythme inclus sur une carte d'expansion sont utilisés, les rythmes d'accompagnement des seize touches allant de la note 35 (B1) à 50 (D3) correspondent aux touches de vélocité 1 (59: B3) à 16 (74: D5).
- Pour certains des groupes patch/rythme inclus sur une carte d'expansion, les réglages de tonie et FXM (p. 57, p. 71) ne sont pas pris en compte.

Expanding the Memory

The MC-909 comes with 16 MB of memory into which audio samples can be loaded. However, in some cases, 16 MB of memory will be insufficient for loading large amounts of data. In such a case, you will have to add separately sold memory (DIMM). Memory can be expanded up to 256 MB.

Before expanding the memory, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor.

Precautions for Expanding Memory

- 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.
 - 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.
 - Save the bag in which the board was originally shipped, and put the board back into it whenever you need to store or transport it.
- Use a Philips screwdriver that is suitable for the size of the screw (a number 2 screwdriver). If an unsuitable screwdriver is used, the head of the screw may be stripped.
- To remove a screw, rotate the screwdriver counter-clockwise. To tighten the screws, rotate the screwdriver clockwise.

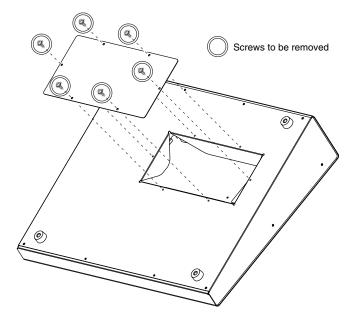


- Be careful that the screws you remove do not drop into the interior of the MC-909.
- Be careful not to cut your hand on the edge of the cover or the opening edge while removing the cover.
- Do not touch any of the printed circuit pathways or connection terminals.
- Never use excessive force when installing 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.
- Always turn the unit off and unplug the power cord before attempting installation of the memory DIMM board.
- Install only the specified memory DIMM board. Remove only the specified screws (p. 146).
- 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.
- Do not leave the bottom cover removed. After installation of the memory module is complete, be sure to replace the cover.

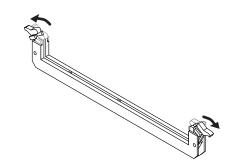
How to Expand the Memory

Install the memory module after removing the bottom panel cover.

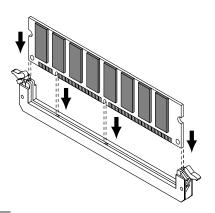
- **1.** Before expanding the memory, turn off the power of the MC-909 and all connected devices, and disconnect all cables, including the Power cable, from the MC-909.
- **2.** Turn the MC-909 over, remove the screws indicated in the following diagram, and remove the cover.



3. Press outward the white clips at either end of the socket should be in the downward position.



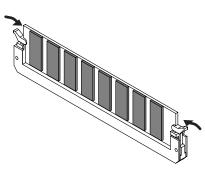
4. Paying attention to the location of the notch on the memory module and the orientation, insert it vertically within the guides at either side of the socket.



HINT

If you have difficulty inserting the memory module, try tilting it a bit and inserting one end at a time.

5. Move the white clips upward, and press them until the memory module is locked in place.

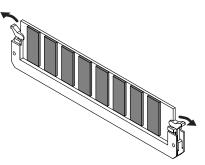


6. Use the screws that you removed in step **2** to fasten the cover back in place.

Removing the Memory

To remove the memory module, reverse the installation procedure.

1. Simultaneously press outward the white clips located at either end of the socket.



2. Remove the memory module from the socket.

Checking that memory is installed correctly

- Turn on the power as described in "Turning On/Off the Power" (p. 16).
- 2. Press [MENU].
- **3.** Use [CURSOR] to select [System].
- 4. Press [ENTER] to access the System Menu screen.

System					
Press Fi	5 4 1-F6 butto	n to selec	t system	NG.	
F		1	-	9e	
Panel/ Control	Seq/ MIDI	Sound:	Sampling	D Beam	System Info

- 5. Press [F6 (System Info)].
- 6. Press [F2 (Memory Info)]. Verify that the screen correctly shows the amount of memory you installed.
- 7. Press [F6 (Close)] to return to the System Menu screen.
- 8. Press [EXIT] to exit the System Menu screen.
- * If the correct amount of memory is not shown, it is possible that the memory is not being recognized properly. Turn off the power as described in "Turning On/Off the Power" (p. 16), and re-install the memory correctly.

Specifications of the expansion memory (DIMM) that can be used

Number of pins: Speed: Voltage: Capacity: Board height: 168-pin 100 MHz (PC100 CL=2) 133 MHz (PC133 CL=3) 3.3 V 128 MB 256 MB 38 mm or less



The MC-909 has been confirmed to work with standard memory that meets the above specifications. However, we cannot guarantee that all memory of these specifications will work correctly. Please be aware that even with identical specifications, differences in the design of the memory module or the conditions of use may mean that a memory module may not be usable.

Ajouter de la mémoire

(French Language for Canadian Safety Standard)

French language for Canadian Safety Standard

Précautions à prendre lors de l'ajout de mémoire

- Veuillez suivre attentivement les instructions suivantes quand vous manipulez la carte afin d'éviter tout risque d'endommagement des pièces internes par l'électricité statique.
 - Toujours toucher un objet métallique relié à la terre (comme un tuyau par exemple) avant de manipuler la carte pour vous décharger de l'électricité statique que vous auriez pu accumuler.
 - Lorsque vous manipulez la carte, la tenir par les côtés. Évitez de toucher aux composants ou aux connecteurs.
 - Conservez le sachet d'origine dans lequel était la carte lors de l'envoi et remettez la carte dedans si vous devez la ranger ou la transporter.
- Utilisez un tournevis de type Philips de la taille adaptée à celle des vis (tournevis numéro 2). Un tournevis inadéquat peut endommager la tête de la vis.
- Pour retirer une vis, tourner le tournevis dans le sens contraire des aiguilles d'une montre. Pour serrer les vis, tourner le tournevis dans le sens des aiguilles d'une montre.

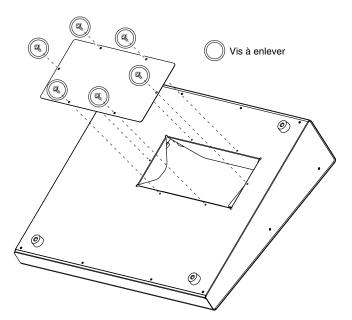


- Assurez-vous que les vis que vous retirez ne tombent pas à l'intérieur du MC-909.
- Faites attention de ne pas vous couper sur le bord du couvercle ou de l'ouverture lorsque vous retirez le couvercle.
- Ne pas toucher aux circuits imprimés ou aux connecteurs.
- Ne jamais forcer lors de l'installation de la carte de circuits imprimés. Si la carte s'ajuste mal au premier essai, enlevez la carte et recommencez l'installation.
- Quand l'installation de la carte de circuits imprimés est terminée, revérifiez si tout est bien installé.
- Avant de procéder à l'installation d'un module DIMM, il faut toujours mettre l'unité hors tension et débrancher le câble d'alimentation.
- Installez uniquement le module DIMM spécifié. Retirez uniquement les vis spécifiées (p. 148).
- Lorsque vous déposez le MC-909 face vers le bas, placez des piles de journaux ou de magazines sous les quatre coins (ou des deux côtés) pour le soutenir. Ainsi, les boutons, manettes et autres pièces ne seront pas endommagés.
- En plaçant l'appareil sens dessus dessous, manipulez-le avec soin pour éviter de l'échapper, de le laisser tomber ou de se renverser.
- Une fois l'installation du module terminée, remettez le couvercle en place.

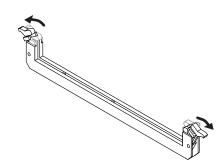
Installation du module de mémoire

Installez le module de mémoire après avoir retiré le couvercle inférieur.

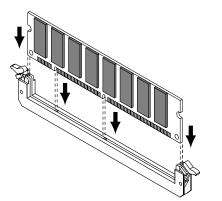
- Avant d'installer la mémoire additionnelle, mettez hors tension le MC-909 et tous les périphériques connectés et débranchez tous les câbles, y compris le câble d'alimentation du MC-909.
- **2.** Tournez le MC-909 sens dessous dessus, retirez les vis indiquées dans le diagramme ci-dessous et retirez le couvercle.



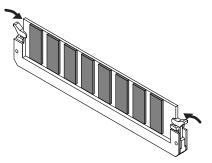
3. Appuyez sur les clips blancs à l'extrémité de la prise qui devraient être orientés vers le bas.



4. Prenez bien note de l'emplacement et de l'orientation de l'encoche du module de mémoire et insérez-le verticalement à l'intérieur des guides qui se trouvent de chaque côté de la prise.



- * Si vous éprouvez de la difficulté à insérer le module de mémoire, inclinez-le légèrement et insérez une extrémité à la fois.
- **5.** Ramenez les clips blancs vers le haut et appuyez dessus jusqu'à ce que le module de mémoire soit verrouillé en place.

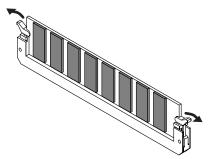


6. À l'aide des vis retirées à l'étape 2, remettez le couvercle en place.

Retrait du module de mémoire

Pour retirer le module de mémoire, procédez à l'inverse de la procédure d'installation.

1. Appuyez simultanément, vers l'extérieur, sur les clips blancs situés aux extrémités de la prise.



2. Retirez le module de mémoire de la prise.

Vérifier que la mémoire est installée correctement

- Mettre en marche tel que décrit sous « Turning On/Off the Power » (p. 16).
- 2. Appuyer sur [MENU].
- 3. Utiliser [CURSOR] pour choisir [System].
- **4.** Appuyer sur [ENTER] pour atteindre la fenêtre du menu du système.

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Panel/ Control	Seq/ MIDI	Sound:	Sampling	D Beam	System Info

- 5. Appuyer sur [F6 (System Info)].
- Appuyer sur [F2 (Memory Info)].S'assurer de lire dans la fenêtre la taille de la mémoire que vous avez installée.
- **7.** Appuyer sur [F6 (Close)] pour revenir dans la fenêtre du menu du système.
- **8.** Appuyer sur [EXIT] pour quitter la fenêtre du menu du système.
- * Si la taille de la mémoire dans la fenêtre n'est pas exacte, il est possible que la mémoire n'ait pas été détectée correctement. Éteindre tel que décrit sous « Turning On/Off the Power » (p. 16), et réinstaller la mémoire conformément aux instructions.

Spécifications de la mémoire d'expansion (DIMM) qui peuvent être utilisées

Nombre de broches :	168 broches
Vitesse :	100 MHz (PC100 CL=2)
	133 MHz (PC133 CL=3)
Tension :	3.3 V
Capacité :	128 Mo
	256 Mo
Hauteur de la carte :	38 mm ou moins

NOTE

Il a été confirmé que le MC-909 fonctionne avec la mémoire standard possédant les spécifications ci-dessus. Nous ne pouvons toutefois pas certifier que toutes les mémoires possédant ces spécifications fonctionneront correctement. Il faut se rappeler que même si les spécifications sont identiques, des différences dans la conception du module de mémoire ou les conditions d'utilisation peuvent faire en sorte qu'il n'est pas possible d'utiliser le module de mémoire.

Waveform List

N -	N		Manua		N	N -	N	N-	N	N -	News		Nama
<u>No.</u> 001	<u>Name</u> MC SuperSawA	<u>No.</u> 100	<u>Name</u> EP MkI mf	<u>No.</u> 199	<u>Name</u> Smear Hit 1	<u>No.</u> 298	<u>Name</u> BPF Fx	<u>No.</u> 397	<u>Name</u> R8 HiCongaOp	<u>No.</u> 496	<u>Name</u> TR606 Kick	<u>No.</u> 595	<u>Name</u> R&B RegSnr 3
002	MC SuperSawB	101	Stage p A	200	Smear Hit 2	299	Artful Perc1	398	R8 LoCongaOp	497	Jive Kick	596	R&B RegSnr 4
003 004	MC SuperSawC SuperSawSlwA	102 103	Stage f A Lo-Fi Wurly	201 202	LoFi MinorHt OrchPrc Hit	300 301	Artful Perc2 MG Noise Fx	399 400	Reg HiCng Mt Reg HiCng Op	498 499	TR909 Kick 5 TR909 Kick 6	597 598	R&B RegSnrG1 Funk Snr 1
005	SuperSawSlwB	104	FM EP mf	203	Sitar Gliss	302	Beep	400	Reg LoCng Op	500	Lo-Fi Kick 2	599	Picc. Hrd Sn
006 007	SuperSawSlwC Trance Saw A	105 106	D-50 EP Clavi	204 205	Scratch Menu	303 304	DarkSteam	402 403	Reg HiBng Mt Reg HiBng Op	501 502	Wet Kick	600 601	Picc. Rol Sn
007	Trance Saw A	107	E.Organ 1	205	Scratch 16 Scratch 17	304	MG Zap 1 MG Zap 2	403	Reg LoBng Op	502	Tight Kick TR707 Kick 1	602	SnareWithCym R8 BrshSwill
009	Trance Saw C	108	E.Organ 2	207	Scratch 18	306	MG Zap 3	405	TablaBayam 1	504	TR909 Kick 7	603	R8 BrushRoll
010 011	Alpha Rave MG Big Lead	109 110	Full Stop FM Club Org	208 209	Scratch 19 Scratch 20	307 308	MG Zap 4 MG Zap 5	406 407	TablaBayam 2 TablaBayam 3	505 506	Regular Kick Lite Kick 1	604 605	Urban RollSD Roll Snare
012	JUNO Rave	111	Old Organ	210	Scratch 21	309	MG Zap 6	408	TablaBayam 4	507	Roll Kick	606	RimShot Menu
013 014	Blaster Sync Sweep	112 113	Church Org Tubular	211 212	Scratch 22 Scratch 23	310 311	MG Zap 7 MG Zap 8	409 410	TablaBayam 5 TablaBayam 6	508 509	Snare Menu 1 Snare Menu 2	607 608	TR909 Rim TR808 Rim
015	TB Natural	114	Glockenspiel	212	Scratch 24	312	MG Zap 9	410	TablaBayam 7	510	Snare Menu 3	609	R&B Rim 1
016	TB303Saw HD	115	Vibraphone	214	Scratch 25	313	MG Zap 10	412	Udo	511	Snare Menu 4	610	R&B Rim 2
017 018	106 Saw HD CustomSawAHD	116 117	FantabellSub DIGI Bell	215 216	Scratch 26 Tape Rewind	314 315	MG Zap 11 MG Zap 12	413 414	Udu Pot1 Hi Udu Pot1 Slp	512 513	Snare Menu 5 Snare Menu 6	611 612	R&B Rim 3 Neck Rim
019	JP8000 Saw	118	Steel Dr	217	Vox Menu 1	316	MG Zap 13	415	Cajon 1	514	Snare Menu 7	613	Swag Rim
020 021	MG Reso Saw MGSaw HD	119 120	FM Mallet mf Marimba	218 219	Vox Menu 2 One M	317 318	MG Zap 14 MG Zap 15	416 417	Cajon 2 Cajon 3	515 516	Sizzle Snr 1 LowDownSnr 1	614 615	Step Rim R&B Rim 4
022	Synth Saw	121	Balaphone	220	Two M	319	MG Blip	418	AfroDrum Rat	517	Jngl Tiny SD	616	Street Rim
023 024	JP-8 Saw P5Saw HD	122 123	Kalimba Soft Nulon Ct	221 222	Three M Four M	320 321	Beam HiQ MG Attack	419 420	Chenchen On Bandaira	518 519	Tiny Snr 1	617	Regular Rim
024	P5 Saw	123	Soft NylonGt Steel Guitar	222	Aah! M	321	MG Sweep 1	420	Op Pandeiro Mt Pandeiro	519	DJ Snare R8 Brush Tap	618 619	R8 Comp Rim Tom Menu
026	OB2Saw HD	125	Clean TC	224	Hou! M	323	MG Sweep 2	422	Timpani	521	Phat Snare	620	R8 Comp Tom1
027 028	OB Saw Digital Saw	126 127	Funk Gt Funk Gt Mute	225 226	Ha! M Hi! M	324 325	MG Sweep 3 MG Sweep 4	423 424	Tambourine1 Tambourine2	522 523	Lo-Hard Snr ElectroSnr 1	621 622	R8 Comp Tom2 R8 Comp Tom3
029	OSC Saw	128	Overdrive	227	Hi2 M	326	MG Sweep 5	425	Tambourine3	524	RaggaTightSD	623	R8 Comp Tom4
030 031	OSC Reso Saw Air Wave	129 130	D.MuteGt mp DistGtrChord	228 229	Wow M Yeah2 M	327 328	MG Sweep 6 Space FX Swp	426 427	Tambourine4 CR78 Tamb	525 526	Flange Snr Slap Snr 1	624 625	Natural Tom TR909 Tom
032	DistTB Sqr	131	CleanGtrCut	230	You Know M	329	SFX Menu 1	428	CR78 Beat	527	Analog Snr 1	626	TR909 DstTom
033	DistTBSqr Lp	132	Gtr Trill	231	Get It Up M	330	SFX Menu 2	429	Timbale Hi Timbala Lo	528	Analog Snr 2	627	TR808 Tom
034 035	TB Dst Sqr TB303Sqr HD	133 134	Gtr Cut DistGtrRiff1	232 233	Come On M Ah Hah M	331 332	Dial Door Knob	430 431	Timbale Lo 808 Maracas	529 530	Analog Snr 3 Modern Snr 1	628 629	TR606 Tom Deep Tom
036	TB Square 1	135	DistGtrRiff2	234	Ah M	333	Vinyl burst	432	Maracas	531	Swallow Snr	630	CHH Menu 1
037 038	TB Square 2 JP-6 Square	136 137	Wah Gtr Riff GtrShtSlide	235 236	Ah2 M Uuh Yeah! M	334 335	Water Cock 1 Water Cock 2	433 434	R8 Shaker A R8 Shaker B	532 533	Jam Snr Back Snr	631 632	CHH Menu 2 Modern CHH
039	MGSqr HD	138	FullStr mf A	237	ComeOn F	336	Bomb Noise	435	R8 Cabasa	534	Keen Snr 1	633	Hipping CHH
040	MG Square	139	FullStr mf B	238 239	Ha F Woow F	337	Sea Bruch Noice	436 437	Triangle 1	535 536	Boys Snr 1	634	Urban CHH
041 042	P5Sqr HD P5 Square	140 141	FullStr mf C JV Strings	239	MetalVoiceW1	338 339	Brush Noise Space Noise	437	Triangle 2 CR78 Guiro	530	Slap Snr 2 Neck Snr	635 636	Regular CHH1 Regular CHH2
043	OB2Sqr HD	142	Tron Strings	241	MetalVoiceW2	340	Scream	439	Reg Guiro A	538	Artful Snr	637	Regular CHH3
044 045	CustomSquAHD PureSqr1kHz	143 144	JP Strings Tremolo sfz	242 243	MetalVoiceW3 Aah Formant	341 342	Jet Plane Toy Gun 1	440 441	Reg Guiro B Reg Guiro C	539 540	Pin Snr Chemical Snr	638 639	Bristol CHH R8 Brush CHH
046	PureSqr440Hz	145	STR Attack	244	Eeh Formant	343	Toy Gun 2	442	Whistle Shrt	541	Sizzle Snr 2	640	Bang CHH
047 048	106 SubOscHD JP8PLS05 HD	146 147	StrChord Maj	245 246	lih Formant Ooh Formant	344 345	Emergency	443 444	Whistle TR727Quijada	542 543	Antigua Snr	641 642	LowDownCHH Disc CHH
048	JP8PLS25 HD	148	StrChord Min VInPizzicato	240	Uuh Formant	345	Buzzer Insect	444	TR808 Claves	543	Tiny Snr 2 Real Snare	643	Club CHH 1
050	JP8PLS40 HD	149	Pizzy Techno	248	MetalVoiceL1	347	Tonality	446	R8 ClavesCmp	545	R&B Snr 1	644	HipHop CHH
051 052	JP8PLS45 HD JP-8 Pulse	150 151	FemChoirOosA FemChoirOosB	249 250	MetalVoiceL2 MetalVoiceL3	348 349	Ring OSC Reso FX	447 448	Club FinSnap Single Snap	546 547	R&B Snr 2 Cross Snr	645 646	TR909 CHH 1 TR909 CHH 2
053	MG Pulse	152	FemChoirOosC	251	VoxPerc Menu	350	Vinyl Noise	449	Snap	548	Grave Snr	647	Shaky CHH
054 055	260 Pulse Frog Wave	153 154	Brass Sect A Brass Sect B	252 253	Vox Kick 1 Vox Kick 2	351 352	Vinyl Stop Construct.	450 451	Kick Menu 1 Kick Menu 2	549 550	Boys Snr 2 Boys Snr 3	648 649	Club CHH 2 Swallow CHH
056	FM Pulse	155	Brass Sect C	254	VoxKickSweep	353	Jack Hammer	452	Kick Menu 3	551	LowDownSnr 2	650	TR808 CHH 1
057 058	JP8000 PWM JP8000 FBK	156 157	BrsShortFall Solo Trumpet	255 256	Vox Snare 1 Vox Snare 2	354 355	Turbine Sawing	453 454	Kick Menu 4 Click Kick 1	552 553	TR909 SD 1 TR909 SD 2	651 652	TR808 CHH 2 TR606 CHH 1
059	260 Sub OSC	158	Mute Trumpet	257	Vox Hihat 1	356	Firebomb	455	Pick Kick	554	TR909 SD 3	653	TR606 CHH 2
060	MGTri HD	159	Soft AltoSax	258	Vox Hihat 2	357	Applause	456	Mild Kick	555	TR909 SD 4	654	TR606 DstCHH
061 062	MG Triangle ARPSin HD	160 161	Blow Tnr Sax Wild Tnr Sax	259 260	Vox Hihat 3 Vox Cymbal	358 359	Thunderbolt Dolphin Hi 1	457 458	Back Kick Vinyl Kick 1	556 557	TR909 SD 5 TR909 SD 6	655 656	Lite CHH CR78 CHH
063	Sine	162	Afro Flute	261	Pa!	360	Dolphin Hi 2	459	Low Kick 1	558	TR909 DstSD	657	DR55 CHH 1
064 065	PureSine1kHz PureSin440Hz	163 164	Pure Flute Tron Flute	262 263	Chiki! Punch	361 362	Dolphin Md Dolphin Lo	460 461	Click Kick 2 Boys Kick	559 560	TR808 SD 1 TR808 SD 2	658 659	Neck CHH Jungle Hat
066	700SynthBass	165	Pan Flute	264	AahVoice Maj	363	MetallicShot	462	Hippie Kick	561	TR808 SD 3	660	PHH Menu
067 068	Mini Bs 1A Mini Bs 1B	166 167	Flute Gliss Shamisen	265 266	AahVoice Min Auh Voice	364 365	Siren Drill Hit	463 464	Frenzy Kick PlasticKick1	562 563	TR808 SD 4 Lite Snare	661 662	Hip PHH Pedal Hat 1
069	Mini Bs 1C	167	Sitar	266	Breath	365	Clap Menu 1	464	Artful Kick	563 564	TR808 SD 5	663	Street PHH
070	Syn Bass 1	169	Hit Menu 1	268	Feedbackwave	367	Clap Menu 2	466	Swallow Kick	565	TR808 SD 6	664	Swallow PHH TR909 PHH 1
071 072	Syn Bass 2 Syn Bass 3	170 171	Hit Menu 2 Hit Menu 3	269 270	Atmosphere MG White Nz	368 369	Disc Clap Dist Clap	467 468	Neck Kick Skool Kick	566 567	TR808 SD 7 DanceHall SD	665 666	TR909 PHH 1 TR909 PHH 2
073	Mini Bs 2	172	OrangeHit 1	271	MG Pink Nz	370	PD Clap	469	Dance Kick 1	568	TR606 SD 1	667	TR808 PHH 1
074 075	Mini Bs 2 Lp MG Big Bass	173 174	OrangeHit 2 OrangeHit 3	272 273	DigiAtkNoise P5 Noise	371 372	Old Clap R8 Clap	470 471	HipHop Kick1 HipHop Kick2	569 570	TR606 SD 2 CR78 Snare	668 669	TR606 PHH 1 TR606 PHH 2
076	Garage Bass	175	OrangeHit 4	274	106 Noise	373	TR909 Clap 1	472	Rap Kick	571	Sim Snare	670	OHH Menu
077 078	Delta Bass Jungle Bass	176 177	OrangeHit 5 OrangeHit 6	275 276	Noise AGG Noise TMBR	374 375	TR909 Clap 2 TR808 Clap	473 474	Low Kick 2 Pin Kick	572 573	Rap Snr 2 Frenzy Snr 1	671 672	Neck OHH Regular OHH
078	SH-101 Bass	178	OrangeHit 7	276	Noise GIS	375	TR707 Clap	474	Low Kick 3	573	Frenzy Snr 1 Frenzy Snr 2	672	Pop Hat Open
080	MC-202 Bass	179	OrangeHit 8	278	ThroatWind	377	Cheap Clap	476	Low Kick 4	575 576	Frenzy Snr 3	674 675	HipHop OHH
081 082	Poly Bass Organ Bass	180 181	Ambience 7th Hit	279 280	Metal Wind FX Menu 1	378 379	Real Clap 2 Hip Clap	477 478	AnalogKick 3 PlasticKick2	576 577	Jngl Rim 1 Jngl Rim 2	675 676	Bang OHH TR909 OHH 1
083	Voco Bass	182	Minor Hit	281	FX Menu 2	380	Group Clap	479	TR909 Kick 1	578	R8 Snr 1	677	TR909 OHH 2
084 085	Reso Bass 1A Reso Bass 1B	183 184	Drive Hit Brassy Hit	282 283	FX Menu 3 FX Menu 4	381 382	Claptail Planet Clap	480 481	TR909 Kick 2 TR909 Kick 3	579 580	R8 Snr 1cmp R8 Snr 2	678 679	TR808 OHH 1 TR808 OHH 2
086	Reso Bass 2A	185	6th Hit	284	Euro Fx	383	Royal Clap	482	AnalogKick 4	581	Slap Snr 3	680	TR606 OHH
087	Reso Bass 2B	186	Filtered Hit	285	LoFi Beep 1	384	Happy Clap	483	TR909 Kick 4 Gabba Kick 1	582	Keen Snr 2 Roagao Spr	681 682	
088 089	FM Bass f Solid Bass	187 188	Mild Hit Bright Hit	286 287	LoFi Beep 2 LoFi Beep 3	385 386	Club Clap Funk Clap	484 485	Gabba Kick 1 AnalogKick 5	583 584	Reagae Snr DR660 Snr	682 683	CR78 OHH Cymbal Menu
090	Fingered Bs	189	5th StackHit	288	Hardhock	387	Perc Menu 1	486	AnalogKick 6	585	RegularSnrMP	684	TR909 Crash
091 092	Stick Bass P.Bass	190 191	Euro Hit Dist Hit	289 290	Orbit Density	388 389	Perc Menu 2 Perc Menu 3	487 488	AnalogKick 7 AnalogKick 8	586 587	RegularSnrMF RegularSnr F	685 686	NaturalCrash Jungle Crash
093	Slap Bass	192	Tekno Hit	291	LoFi Beep 4	390	Perc Menu 4	489	AnalogKick 9	588	RegularSnrR1	687	Asian Gong
094 095	Bass Slide FretlessSoft	193 194	Back Hit Techno Chord	292 293	LoFi Beep 5 LoFi Beep 6	391 392	R8 Cowbell TR808Cowbell	490 491	AnalogKick10 PlasticKick3	589 590	RegularSnrR2 RegularSnrG1	688 689	RAMA Cymbal Analog Cym
095	Fretless Bs	194	Thin Beef	294	Metal Bar 1	393	CR78 Cowbell	491	TR606 Dst BD	590	RegularSnrG2	690	TR606 Cym
097	UprightBs	196 107	Tao Hit Philly Hit	295	Metal Press	394 395	R8 Hi Agogo	493	AnalogKick11	592	RegularSnrG3	691 692	Regular Ride
098 099	Ac Bass Piano EQ	197 198	Philly Hit ClassicHseHt	296 297	Sand Hit Metal Bar 2	395 396	R8 LowAgogo R8 HiCongaMt	494 495	Sweep Kick TR808 Kick	593 594	R&B RegSnr 1 R&B RegSnr 2	692 693	TR909 Ride TR707 Ride
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Preset Patch List

Preset A (CC#0 = 81,CC#32 = 64)

CC#3	oz = 04)
No.	<u>Name</u>
001	Trance Chord
002	UltimateEuro
003	JP OctAttack
004	DstTBSQR Atk
005	DistTB SQR
006	Traveler
007	BreathingPad
008	Lonely Heart
009	STR Attack
010	DistGtrChord
011	Detune Saw
012	Pressyn
013	BooSoloBoo
	JUNO Rave 2
015	SuperSawSlow
016	Trance Wave
017	SuperSawFast
018	Powerline
019	Detune Saws
020	Bustranza
021	Cyber Lead
022	Noisey
023	RAVtune
024	Blaster
025	Detuned Pad
026	Clean?
027	DelayStrings
028	DOC Stack
029	Syn Stack
030	Saw Stack
031	Trancy Synth
032	ScreaminLead
	World Anthem
034	Houze Clav
	PlayLow Dark
036	Digitaless
037	You know?
038	Moon Synth
039	Innercross
040	MultiDance02
040	Brand X
042	Sweep Lead
042	SweepPad w/D
043	Remix Stack
045	Def Filter
046	Freedom
047	Fast Detune
048	DenMrk Lead
049	Squeepy
050	Xtatic
051	SaturnHolida
052	Anna Harp
052	Hyperactiver
054	Syn Lead
	RetroRave 2
056	RAVE w/me
057	HouseParty02
058	Rave Party
	Rave Farty Rave It Up
059	BPF Sweeper
	Alpha Time
	Alpha Time
062	Electricity
063	Bend Rave
004	

<u>No.</u> Name Alpha Rave Club Classic Rubbery Polychords Atmorave MG Big Lead Tech Lead NRG Synthe 1 High Five Noise Punch OB M6 Saw Organ Stack SftFatPolyOB SftPolyPfive Poly Key Pulse Komp NRG Synthe 2 **OB** Shinethru KeyRand Saw RndClaviator Deowah Saw PKG Key forSequence1 Shrtpin PsycoActive SMILE :-) **OB** Raindrops 5th Saw PlasmaFields HeavenlySine FM Harp Syn Harp Glow Bugs Dust Rave Klangosaurus Grandiosity 12th Planet NoisePeaker Cave Tone 106 Saw Kiss My Grts Lone Prpht W-Side Saw Basic Mg Legato Saw QuackyPfive LPassRzSawMg The Prpht OB The Prpht TB Q DualSaws Dual Profs DualP BandSawMg BandSawMg2 Slow Mg Freaky Fry The Brothers Mosquito Digital BPF HPF Sweep Pulse Line ArtifFrog Metal Frog Waspy Lead

Preset B (CC#0 = 81,CC#32 = 65)No

<u>No.</u>	Name
001	RetroSynLead
	Warm SawLead
002	
003	Kickin'Synth
004	Buzz Saw
005	HiPass Mg
006	LateFlapSqr
007	DualRateSqr
800	QuackyPSqr
009	Some Squares
010	Zooba Dooba
011	Pure Square
012	Voyage Mg
	PortaSynLead
013	
014	Jupiter6Sqr2
015	BandSqrMg
016	My OneOSix
017	DCOs4ever
018	Dist Lead 2
019	Griggley
020	Buzz Sucker
021	SonicVampire
022	Electrovox
023	Beep Mod
	MosquitoLead
024	
025	Destroyed Ld
026	HC Solo Lead
027	Synkronizor
028	Sync Dink
029	Da Sync
030	Sync Sweep
031	Elect Shock
032	Qube Sync
033	See a Chance
034	Splatter
035	Nasty Blade
036	Criminal
037	Syncing Sand
038	Uranus
039	Play with ME
033	IRobot
040	
	3rd Pulse Mg
042	GumbyBot
043	Vibrato Saw
044	Arpness TB
045	Dist TB
046	headHit Lead
047	Too Pure
048	Old Synth
049	Basic 1
050	ResoLFO LD
051	Similar Lead
052	Air Wave
053	Mew Lead
054	Cue Tip
055	Basic 2
056	PeakArpSine
057	PekingTriMg
058	TubbyTriangl
059	Square Lead
060	Sine Mallet
061	SQR Diamond
062	Classy Pulse
063	Eat Skip
064	NRG Synthe 3

No.	Name
065	Rave Stack
066	Line S&H
067	Yellow Strobe 909
068 069	Comptron
070	JPpulsingPWM
071	Dot16LFO Mg
072	Ray
073 074	Galaxy Mars
075	Blurp
076	Bottle Clown
077	909 Waltz Slice Choir
078 079	Fashion
080	Sync'ed Pass
081	909 Racer
082	MetroPoly 2
083 084	Sands of LFO PanningFrmnt
085	Bells of Q
086	TempoLFO OB
087	SlicedBread2
088 089	Bass Engine GuitarGroove
090	Twang Woo
091	Flow
092	ClassicRaver
093 094	Mission time Small_Groove
094	OB M6 x2
096	Dub Tales
097	Plus3 4 Bob
098 099	Venus Timed Hit
100	.16 Orch
101	EchoResoPizz
102	TB Trancer
103 104	Doink Seg.Synth 1
104	Saw SEQ
106	NY83 SEQ
107	Sqr SEQ
108 109	PortaSqr SEQ Seq.Synth 2
110	Reso Bass 2
111	Detune Bass
112	JunoWotImean
113 114	Dust Bass TechnoTribal
115	Glide-iator
116	Pop JunkBass
117	New Acid Grv
118 119	WoodenGroove RubberBass
120	Reso TB Bs
121	TB Legato
122	Robot
123	Loco Voco
124 125	Vel-o-TB Gate Me Buzz
126	eRobot Bass
127	Metalic Bass
128	Goldon Bass

Preset C (CC#0 = 81,CC#32 = 66)

No.	Name
001	SynBs 4 Seq
002	StabSaw Bass
002	Now Bass
004	Poly Bass
005	D9 Trcker
006	TB + Sine
007	Low Downer
008	Basstrap
009	Foundation
010	Thick Bass 2
011	Home Baze
012	Atk Syn Bs
013	TB Tra Bass
014	Electro Rubb
015	Smoothbass MC-404 Bass
016 017	MC-404 Bass MC-202 Bs
017	R&B Bass 1
019	R&B Bass 2
020	Enorjizor
021	MG Bass
022	MC-TB Bass
023	ArpeggioBass
024	HipHop Bs 1
025	Voco Bass 1
026	Voco Bass 2
027	Alter Bass
028	Farmer Joe
029	MG Big Bass
030	SH-101 Bs 2
031	Big Bass Mini Bs
032 033	MiniMoe Bass
034	Chordpatch
035	Kickin'Bass
036	Phat bass
037	Super-G DX
038	Syn Bass 1
039	Pong
040	R&B Bass 3
041	R&B Bass 4
042	Syn Bass 2
043	OctSaw Bass
044	R&B Bass 5
045	Monster TB TB Clone
046 047	NU-NRG Bass
048	Inside Bass
049	Rezo Bass
050	R&B Bass 6
051	FuzzBlockHed
052	Tracore Bass
053	Bau Bass
054	Acdg Bass
055	RingerBass
056	SQ Pan
057	LFO Bass
058	AcidMoon
059	Jungle Bass
060	Sine Bass R&B Bass 7
061 062	LFO SqrBs 2
063	SQR+Sub Bs
064	Square Bass

Preset Patch List

Preset D

<u>No.</u>	Name
065	FallDown Bs
066	PeakOfTEBE
067	Dub Bass
068	Bass it
069	Basic SynBs
070	R&B Bass 8
071 072	808 Bass 2 Organ Bass 2
073	Org Atk Bs
074	Sqr Atk Bs
075	FM Bass
076	Front 909
077	FM Super Bs2
078	Univ Studies
079	Buum Bass
080	Solid Bass
081	T Nite Bass
082	Solid Goa
083	Solid Bottom
084 085	Dark Bass 1 Dark Bass 2
086	Dark Bass 3
087	HipHop Bs 2
088	HipHop Bs 3
089	HipHop Bs 4
090	ConcreteBass
091	AfterHoursMx
092	Delta Bass
093	Basstar
094	Tabla Bass
095	Pizz Bass
096	Destroyed Bs
097	FXM Bass Dendo Bass
098 099	XL Too
100	NY83 Bass
101	Velo fingers
102	P.Bass
103	All Round
104	Nice P /
105	Stick Bass
106	NiceStick /
107	Heavy Bass
108	Upright Bs
109	Acousta Bass
110 111	LoFiAtk Bass Downright
112	E.Ac.Bass
113	Acid Jazz Bs
114	Fretless Bs1
115	FretlessBs P
116	Fretless Bs2
117	Warm LeadG
118	Slap Bass
119	Bass Slide
120	V-BassHarm
121	MeanNoHarmBs
122	Tempest
123 124	Sweep Pad 1 Sweep Pad 2
124	Size Rizer
125	Juno Sweep
127	BPF Syn Pad
128	SmoothChange
	5

(CC#0 = 81,CC#32 = 67)No. Name 001 Morphed Silk 002 Hy Synstring 003 **OB** Rezo Pad 004 Rev Sweep 005 Phat Pad 006 DCO Stack 007 Rise Pad 008 Penta Pad 009 Juno Waves 010 Mod Pad 011 Slow Gear 012 DeepForest2 013 HPF Ensemble 014 Steamed Sawz 015 AiRve Bread-016 Analogscape 017 The Pad 018 JP Str Pad Saw Pad 019 020 Palm Pad 021 909 Sweep 022 Undulate Pad 023 Sweet Vocode 024 Double Morph 025 Floating Pad 026 Juno Waves 2 027 Cosmosis 028 Metal Pad 029 Warm Pad 030 Soft Pad 031 Phaedra 032 Sine Pad 033 Heavenly Pad HauntedStars 034 035 Female Oos 036 Floor Choir 037 Windy Vox 038 Digi Voices 039 SmoothGroove 040 Auh Luv Rave 041 JungleFever 042 Cheesy Stab 043 AahVoiceMaj 044 Sample Age 045 Sun Shower 046 CalifnSunset 047 AahVoiceMin 048 Right&Left 049 Hit Chorus 050 VOCOclavinet 051 Aah Formant 052 Eeh Formant 053 lih Formant 054 Ooh Formant 055 **Uuh Formant** 056 MetalVoice1L 057 MetalVoice2L 058 MetalVoice3I 059 Vox Menu 1 060 Vox Menu 2 061 MetalVoice 1 062 MetalVoice 2 063 MetalVoice 3

064

Try This

No	Namo
<u>No.</u> 065	<u>Name</u> With ME
066	1 Get Up^_^)
067	Puwa
068	Dance Grand
069	64voicePiano Hard Piano
070 071	Epic House
072	Honktonkhous
073	Piano Trance
074	NY Piano+Str Sine EP+
075 076	Sine EP+ Soul Vibe
077	Talkin EP
078	Psychic EP
079	Wah EP
080 081	Noir StageEP w/Tr
082	Back2the60s
083	Creep
084	Analog EP
085	Old EP X
086 087	Str8Up Wurly Wirle EeePee
088	Gentle Wurly
089	Dist Wurly
090	Trem EP Mod
091	Cool EP
092 093	FM E.Piano EppEEppE
094	SuperLushMod
095	Clavi
096	Funky D
097	Pulse Clav Analog Clavi
098 099	Harpsichord
100	Pulse Key 2
101	Digi Key
102	Cold Key
103 104	E.Organ 1 E.Organ 2
104	Organic
106	Percs Organ
107	Fake Organ
108	Vade Retro 2
109 110	Club Organ Continential
111	Hippy Organ
112	Bright Organ
113	Clubless Org
114	Happy Organ
115 116	Plastic Remix Organ
117	Cheese Organ
118	Church Org
119	Rave Organ
120	Vibraphone Vibrarimba
121 122	CTA Bell
123	Marimba
124	FM Mallet
125	Balaphone
126 127	Ethno Keys 1 Seq Fodder
127	Seq Fouder Mu Island

(CC#0 = 81,CC#32 = 68)No. Name 001 Glockenspiel Steel Drums 002 003 Sweep Mallet 004 Toy Jungle 005 FantabellSub 006 Small Bell 007 Synth Bell 008 Kalimbells 009 DIGI Bell 010 TribellDance 011 NitrousDragn 012 Tubular-Bell 013 Gigoloid 014 **Ring Sine** 015 Steel Guitar 016 Steel-Str.Gt 017 HipHop Gtr 018 Twin Aco Gtr 019 PureAcoustic 020 Bright Nylon 021 Fake Guitar 022 Clean TC 023 CleanEG w/Tr 024 Clean&String 025 Lo-Fi Gtr **BPF** Guitar 026 027 Funk Gtr 028 **FnkDittvMute** 029 JAMIn' 01 030 Jazzin 031 CleanGtrCut 032 VeloWahDMute 033 ReTrigDsMute RockinMuteGt 034 AutoWahMute 035 036 Wah Gtr Riff 037 Tripled8 Wah 038 GtrShtSlide 039 MuteFall / 040 Gtr Cut 041 DistGtrRiff1 042 DistGtrRiff2 043 Gtr Trill 044 909 Strings 045 Hybrid Str 1 046 Hybrid Str 2 047 JV Strings 048 Lo-FiStrings 049 Vinvl Strnas 050 Odd Strings 051 Melo Tapes 052 Mellody 053 Swim Strings 054 GloryOfCaesr 055 BunVox&Str 056 Tremolo SFZ 057 Finale 058 NostalgicOrc 059 ScaryStringz 060 DrkTrem Orch 061 **IfIKingDaFst** 062 Radio 30's 063 Ping 064 Queasv

Preset E

No.

Name

065 Golem StrChord Maj 066 067 StrChord Min 068 SynStrings 069 **OB Slow Str** 070 Super SynStr 071 Contrabass 072 VInPizzicato 073 Pizz Orch 074 Wet 075 Piezzo 076 E-piz 077 Pizzicato 078 Pizz It 079 Techno Pitz 080 AfricanFlute 081 Jazzy Flute 082 McFlute Atk 083 FluteSoloist 084 Faked Flute 085 TronM Flute 086 TronFlute5th 087 Lonely Ghost 088 Strangefruit 089 Casals dream 090 Flute Pipe 091 Pan Flute 092 ACIDJdvnaflt 093 Flute Gliss 094 Dr. Bellows 095 Whistle 096 Wide SynBrs 097 Special Saw Silk Pad 098 099 Silky JP 100 Detuned DCOs 101 Cheap SynBrs 102 Synth Brass 103 Brass Stack St Sfz Brass 104 105 30's Tpt 106 Stereo Brass 107 ThunderBrass 108 Solo Tpt 109 LitlNapolian 110 Grit Brassh 111 Soft Brass **MuteTrumpet** 112 113 KingApprochz Brass Fall 1 114 Brass Fall 2 115 116 Mercury Fall 117 AltoSoftSax 118 Breathy Sax 119 Slow BlowSax 120 LatinTnr Sax 121 Sax Section 122 Bombav Real Sitar 123 124 Sitar LFO 125 FarOutSGliss 126 Tripn'Bombay 127 Cheep Lead 128 Maharagna

Preset F
(CC#0 = 81,
CC#32 = 69)

<u>No.</u>	<u>Name</u>
001	Tsugaru Road
002	TribalRitual
003	It Began in
004	Duel Ethno
005	Ethno Keys 2
006	FX Menu 1
007	FX Menu 2
	FX Menu 3
009	FX Menu 4
010	Hi?
011	Weird Snare
	BreathingArp Chiki /
	Underground
014	Ambitech
016	ModtheGong
	Breath Hit
018	Smooth Jet
	Lazer Points
020	Mod Hit 1
021	Stopper
022	We'r d'ROBOZ
023	Orbit Mod
024	Affects
025	LogicalSweep
026	BullsEye
027	DownThePitch
028	DnB Fall
	Let it beep
030	Mousey Kick
031	Strange
032 033	Fear Touch EF
	NoFXrequired
	Feedbackwave
036	Noise Voice
037	In The Mist
038	MagneticStrm
039	Take Effect
040	Random LFO
041	S&H Voc
042	RubbrBandSaw
043	Nasty Filt
044	Lipple Ring
045	2Matt Colors
	Flag Flash
047	Metalythm
048	Sync Tone Down The Hit
049 050	MetallicShot
050	Kick Da Lion
052	Boost Tom
053	Perk Breath
054	WaitnOutside
055	GogSign
056	DingDong
057	Transport
058	GK Ready
059	to the stars
060	Dusted
061	Destructo
062	RockNSleestk
063	3D Flanger
064	Pacifica

<u>No.</u>	<u>Name</u>
065	Home Sweep
066	Sub Atmosphe
067	Breeze
068	Liquid Air
069	Rev Cord
070	Trancer
071	Autovox
072	Randooom
073	Mod Hit 2
074 075	Mod Hit 3 Mad Mod
075 076	Q Jet FX 01
070	Abduction
078	Scratch Menu
079	SFX Menu 1
080	SFX Menu 2
081	Bomb Noise
082	Hit Menu 1
083	Hit Menu 2
084	Hit Menu 3
085	Bliss Sweepz
086	Maj7+11 Hit
087	Agent Orange
088	DfloorOrch
089	Blue Ice
090	Sweet Garage
091	Orch Hit 1
092	Orch Hit 2
093	Rave Hit
094	Chunky
095	Tekno ChdHit
096	Happy Hit
097 098	Dly Rls Stab Classic Hit
098	RevHouse Hit
100	Smear Hit 1
101	Smear Hit 2
102	Dark Hit
103	Vinyl Brass
104	Funk Chank
105	Cheezy Movie
106	Mojo Man
107	Philly Hit
108	Power Hit
109	Neo Hit
110	HardHitnHous
111	Goto Europe
112	Dis The Bass
113	Bright Hit
114	Disminished
115	Tribal Song
116 117	Industrial02 Clap Menu 1
118	Clap Menu 2
119	Perc Menu 1
120	Perc Menu 2
121	Perc Menu 3
122	Perc Menu 4
123	Tablabaya
124	Hip Pluck
125	Udu/Udo
126	Asian Gong
127	Timpani
128	VoxPerc Menu

CC ;C# <u>o.</u>	set G #0 = 81, 32 = 70) <u>Name</u>	User: (CC#) CC#3 User:
Vo. 001 002 003 004 005 006 007 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 0303	Name Kick Menu 1 Kick Menu 2 Kick Menu 3 Kick Menu 4 TR808 Kick Snare Menu 1 Snare Menu 2 Snare Menu 3 Snare Menu 4 Snare Menu 5 Snare Menu 7 NY83 SD TR909 Snare Blip SD RimShot Menu Tom Menu CHH Menu 1 CHH Menu 2 PHH Menu OHH Menu Cymbal Menu AirWave Solo TronFlt Solo SuperSawSolo SuperSawSolo SuperSawSolo E.Organ Solo RealStr Solo MTLVoiceSolo E.Voice Solo	User: (CC#0 CC#3

r: 001–128 0 = 81, 32 = 0)	Card: 001–128 (CC#0 = 81, CC#32 = 32)
r: 129–256 f0 = 81, 32 = 1)	Card: 129–256 (CC#0 = 81, CC#32 = 33)

Preset Rhythm Set List

(Preset: FCC#0 = 82, CC#32 = 64 User: CC#0 = 82, CC#32 = 0 Card: CC#0 = 82, CC#32 = 32)

Nata Na						
Note No.	001: 909 TR-909 1	004: 909 TR-909 3	007: 909 Techno 1	010: 909 Techno 4	013: 909 Trance 3	016: 909 House 2
59	PlasticKick1	TR909 Kick 1	TR808 Kick	TR909 Kick 6	AnalogKick 9	Neck Kick
C4 60	TR909 Kick 1	TR909 Kick 2	TR606 Dst BD	Pick Kick	AnalogKick 5	Back Kick
61	TR909 Kick 7	TR909 Kick 3	TR808 Kick	AnalogKick 9	PlasticKick3	Tight Kick
62	TR909 SD 1	TR909 SD 1	TR808 SD 1	Tiny Snr 1	TR909 SD 3	Tiny Snr 1
63 64	TR909 SD 2	TR909 SD 2	TR808 SD 2	Jngl Tiny SD	Boys Snr 2	Rap Snr 2
64	TR909 SD 3	TR909 SD 3	TR808 SD 3	Slap Snr 1	Analog Snr 1	Tiny Snr 2
65	TR909 Rim	TR909 Rim	TR808 Rim	Aah Formant	R&B Rim 4	R&B Rim 4
66	TR909 Clap 1	TR909 Clap 2	TR808 Clap	R8 ClavesCmp	Claptail	Old Clap
67	TR909 Tom	TR909 Tom	TR606 Tom	MG Attack	Deep Tom	GtrShtSlide
68	TR909 Tom	TR909 Tom	TR606 Tom	Beam HiQ	Deep Tom	Tambourine4
69 70	TR909 Tom	TR909 DstTom	TR808 Claves	MG Blip	Deep Tom	AahVoice Maj
71	TR909 CHH 1	TR909 CHH 1	TR606 CHH 1	TR808 CHH 1	Urban CHH	LowDownCHH
	TR909 PHH 2	TR909 PHH 1	TR606 PHH 1	TR808 PHH 1	TR808 PHH 1	Swallow PHH
C5 72	TR909 OHH 2	TR909 OHH 1	TR606 OHH	TR808 OHH 1	Regular OHH	Regular OHH
73	TR909 Crash	TR909 Crash	TR606 Cym TR909 Ride	TR606 OHH	TR909 Crash	NaturalCrash
74	TR909 Ride	TR909 Ride	i neue nide	NaturalCrash	TR707 Ride	Regular Ride
	」 002: 909 TR-808 1	005: 909 TR-909 4	008: 909 Techno 2	011: 909 Trance 1	014: 909 Minimal	017: 909 House 3
59	TR808 Kick	TR909 Kick 4	Back Kick	AnalogKick 8	TR808 Kick	TR909 Kick 5
_	TR808 Kick	TR909 Kick 5	PlasticKick1	AnalogKick 6	TR909 Kick 1	Pick Kick
C4 60	TR808 Kick	TR909 Kick 6	PlasticKick1	AnalogKick 7	AnalogKick10	PlasticKick3
<u>61</u> 62	TR808 SD 2	TR909 SD 4	Real Snare	Analog Snr 2	TR909 SD 1	LowDownSnr 1
63	TR808 SD 4	TR909 SD 5	Lo-Hard Snr	Analog Snr 3	TR808 SD 4	Jngl Tiny SD
64	TR808 SD 5	TR909 SD 6	Swallow Snr	Analog Snr 1	TR909 SD 3	Tiny Snr 1
	TR808 Rim	TR909 Rim	R&B Rim 3	Picc. Rol Sn	Snap	TR808 Rim
65 66	TR808 Clap	TR909 Clap 2	R8 Clap	Dist Clap	TR909 Clap 1	Club FinSnap
	TR808 Tom	TR909 Tom	TablaBayam 1	R8 Shaker A	Disc Clap	MG Attack
67 68	TR808 Tom	TR909 Tom	TablaBayam 2	BPF Fx	Claptail	MG Blip
69	TR808 Tom	TR909 DstSD	TablaBayam 3	Density	CR78 Tamb	Beam HiQ
70	TR808 CHH 1	TR909 CHH 2	Regular CHH1	TR909 CHH 2	TR909 OHH 2	TR808 CHH 1
71	TR808 CHH 2	TR909 PHH 2	Street PHH	TR909 PHH 2	Neck OHH	TR808 PHH 1
0	TR808 OHH 1	TR909 OHH 2	Regular OHH	TR909 OHH 2	TR909 OHH 2	TR808 OHH 1
C5 72	TR606 Cym	TR909 Crash	NaturalCrash	TR909 Crash	TR909 Crash	TR606 Cym
74			Inaturatorasii	111303 014311	111303 014311	· ·
			TB707 Bide	TB909 Bide	TB909 Bide	NaturalCrash
/4	TR606 Cym	TR909 Ride	TR707 Ride	TR909 Ride	TR909 Ride	NaturalCrash
59	TR606 Cym 003: 909 TR-909 2 AnalogKick 6	TR909 Ride 006: 909 TR-808 2 TR808 Kick	009: 909 Techno 3 AnalogKick 9	012: 909 Trance 2 Wet Kick	015: 909 House 1 Wet Kick	018: 909 BrkBts 1 Density
59	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick	009: 909 Techno 3 AnalogKick 9 AnalogKick11	012: 909 Trance 2 Wet Kick AnalogKick10	015: 909 House 1 Wet Kick Low Kick 1	018: 909 BrkBts 1 Density MG Zap 4
	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick
59 C4 60	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1
59 C4 60 62 63	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 1 TR808 SD 2	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr
59 C4 60 61 62	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 3	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2
59 C4 60 61 62 63 64	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 3 TR808 Rim	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2
59 C4 60 62 63	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Rim TR808 Clap	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R8 Clap	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2
59 C4 60 61 62 63 64 65 66 67	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Clap TR808 Tom	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R& Clap Reg HiBng Mt	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom
59 C4 60 61 62 63 64 65 66 67 68	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Clap TR808 Tom TR808 Tom TR808 Tom	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R& Clap Reg HiBng Mt Reg LoBng Op	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom
C4 60 61 62 63 64 65 66 67 68 69	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom TR909 Tom TR909 DstTom	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Clap TR808 Tom TR808 Tom TR808 Tom TR808 Cowbell	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom Deep Tom	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom Deep Tom	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R& Clap Reg HiBng Mt Reg LoBng Op Reg HiBng Op	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom TR909 DstTom
59 C4 60 61 62 63 64 65 67 68 69 70	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom TR909 Tom TR909 DstTom TR909 CHH 1	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Clap TR808 Tom TR808 Tom TR808 Tom TR808 Cowbell TR808 CHH 1	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom Deep Tom Deep Tom TR606 CHH 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R8 Clap Reg HiBng Mt Reg LoBng Op Reg HiBng Op Regular CHH1	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom TR909 DstTom TR909 DstTom Hipping CHH
C4 60 61 62 63 64 65 66 67 68 69	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom TR909 Tom TR909 DstTom TR909 CHH 1 TR909 PHH 1	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 3 TR808 SD 3 TR808 Rim TR808 Clap TR808 Clap TR808 Tom TR808 Tom TR808 Tom TR808 Cowbell TR808 CHH 1 TR808 PHH 1	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom Deep Tom Shaky CHH Hip PHH	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom Deep Tom Deep Tom TR606 CHH 1 TR606 PHH 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R& Clap Reg HiBng Mt Reg LoBng Op Reg HiBng Op	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom TR909 DstTom TR909 DstTom Hipping CHH Street PHH
59 C4 60 61 62 63 64 63 65 66 67 68 69 70 71	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom TR909 Tom TR909 DstTom TR909 CHH 1	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 2 TR808 SD 3 TR808 Rim TR808 Clap TR808 Tom TR808 Tom TR808 Tom TR808 Cowbell TR808 CHH 1	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom Deep Tom Shaky CHH	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom Deep Tom Deep Tom TR606 CHH 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R8 Clap Reg HiBng Mt Reg LoBng Op Reg HiBng Op Regular CHH1	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom TR909 DstTom TR909 DstTom Hipping CHH
59 C4 60 61 62 63 64 65 67 68 69 70	TR606 Cym 003: 909 TR-909 2 AnalogKick 6 AnalogKick 7 AnalogKick 8 Analog Snr 1 Analog Snr 2 Analog Snr 3 TR909 Rim TR909 Clap 2 TR909 Tom TR909 Tom TR909 Tom TR909 DstTom TR909 CHH 1 TR909 PHH 1	TR909 Ride 006: 909 TR-808 2 TR808 Kick TR808 Kick TR808 Kick TR808 SD 1 TR808 SD 2 TR808 SD 3 TR808 SD 3 TR808 Rim TR808 Clap TR808 Clap TR808 Tom TR808 Tom TR808 Tom TR808 Cowbell TR808 CHH 1 TR808 PHH 1	009: 909 Techno 3 AnalogKick 9 AnalogKick11 TR909 Kick 1 TR909 SD 4 Pin Snr Flange Snr Street Rim Old Clap Deep Tom TR808 Tom Deep Tom Shaky CHH Hip PHH	012: 909 Trance 2 Wet Kick AnalogKick10 Frenzy Kick TR909 SD 1 Frenzy Snr 1 TR808 SD 4 Swag Rim TR707 Clap Deep Tom Deep Tom Deep Tom Deep Tom TR606 CHH 1 TR606 PHH 1	015: 909 House 1 Wet Kick Low Kick 1 Skool Kick TR909 SD 3 LowDownSnr 1 Tiny Snr 2 R&B Rim 4 R8 Clap Reg HiBng Mt Reg LoBng Op Reg HiBng Op Regular CHH1 TR606 PHH 1	018: 909 BrkBts 1 Density MG Zap 4 Pick Kick Analog Snr 1 Swallow Snr Tiny Snr 2 R&B Rim 2 TR909 Clap 2 TR909 DstTom TR909 DstTom TR909 DstTom TR909 DstTom Hipping CHH Street PHH

Preset Rhythm Set List

Note No.	019: 909 BrkBts 2	022: 909 DnB 1	025: 909 2Step 1	028: 909 HipHop 2	031: 909 G-Funk 1	034: 909 R&B 1
59	Vinyl Kick 1	Jive Kick	TR808 Kick	Mild Kick	TR606 Kick	Mild Kick
	Skool Kick	Pick Kick	Jive Kick	HipHop Kick1	Low Kick 3	HipHop Kick1
C4 60	Click Kick 1	AnalogKick10	Wet Kick	Low Kick 4	Low Kick 4	Low Kick 4
62	R8 Brush Tap	Jngl Tiny SD	Cross Snr	Tiny Snr 1	Back Snr	Jngl Tiny SD
63	Real Snare	Jngl Tiny SD	R&B Snr 1	Analog Snr 3	Sizzle Snr 1	LowDownSnr 1
64	Chemical Snr	DJ Snare	R&B RegSnr 1	TR909 SD 6	Chemical Snr	DanceHall SD
65	R8 Comp Rim	TR808 Rim	Swag Rim	R&B Rim 1	R&B Rim 2	R&B Rim 2
66	TR909 Clap 1	Funk Clap	Snap	Group Clap	TR808 Clap	Royal Clap
67	R8 Comp Tom3	MG Attack	Ah M	Scratch 17	TR606 Tom	Scratch 17
<mark>68</mark> 69	R8 Comp Tom2	MG Blip	Triangle 1	Scratch 20	TR606 Tom	LoFi MinorHt
70	R8 Comp Tom1	Beam HiQ TR808 CHH 1	Uuh Yeah! M Bristol CHH	Sand Hit Hipping CHH	TR606 Tom HipHop CHH	Scratch 17 Urban CHH
71	Hipping CHH Hip PHH	TR808 PHH 1	Hip PHH	Hip PHH	TR808 PHH 1	Hip PHH
0.5	Neck OHH	TR808 OHH 1	Pop Hat Open	Pop Hat Open	TR808 OHH 2	Pop Hat Open
C5 72	TR909 OHH 2	TR606 Cym	Analog Cym	NaturalCrash	NaturalCrash	NaturalCrash
74	NaturalCrash	Analog Cym	TR606 Cym	Regular Ride	Regular Ride	Regular Ride
59 C4 60 62 64 65 66 67 68 69 70 71	020: 909 BrkBts 3 Pick Kick HipHop Kick2 AnalogKick 3 Flange Snr Tiny Snr 1 RegularSnrMF R&B Rim 4 Group Clap Euro Fx Scratch 23 LoFi Beep 6 Urban CHH	023: 909 DnB 2 TR909 Kick 5 Pick Kick AnalogKick10 Tiny Snr 1 Jngl Tiny SD R8 Brush Tap R&B Rim 1 Hip Clap MG Attack MG Blip Beam HiQ TR808 CHH 1	026: 909 2Step 2 Pick Kick Jive Kick AnalogKick10 Tiny Snr 1 Boys Snr 3 R8 Snr 1cmp R8 Comp Rim TR909 Clap 2 R8 Comp Tom4 R8 Comp Tom4 R8 Comp Tom1 Neck CHH	029: 909 HipHop 3 Mild Kick Skool Kick Low Kick 3 LowDownSnr 1 Jngl Tiny SD DanceHall SD R&B Rim 2 Claptail Scratch 19 Ha! M Dial TR909 CHH 1	032: 909 G-Funk 2 Low Kick 3 Low Kick 1 Skool Kick Back Snr Slap Snr 1 Boys Snr 2 Swag Rim Planet Clap R8 Comp Tom3 R8 Comp Tom2 R8 Comp Tom1 Bang CHH	035: 909 R&B 2 Low Kick 3 Low Kick 1 Skool Kick Back Snr Slap Snr 1 Grave Snr Swag Rim Planet Clap Snap R8 Hi Agogo Snap Hipping CHH
/ 1	Hip PHH	TR808 PHH 1	Pedal Hat 1	Hip PHH	TR808 CHH 1	TR808 CHH 1
C5 72	Pop Hat Open	TR808 OHH 1	Regular OHH	TR808 OHH 1	Regular OHH	HipHop OHH
<u>73</u> 74	NaturalCrash	NaturalCrash	TR909 Crash	TR909 Crash	TR909 Crash	NaturalCrash TR707 Ride
	Regular Ride	TR606 Cym	Analog Cym	Regular Ride	Regular Ride	
FO	021: 909 BrkBts 4	024: 909 DnB 3	027: 909 HipHop 1	030: 909 HipHop 4	033: 909 G-Funk 3	036: 909 R&B 3
59	Artful Kick	Jive Kick	Mild Kick	Mild Kick	Pin Kick	Swallow Kick
C4 60	TR707 Kick 1	Mild Kick	HipHop Kick1	HipHop Kick1	Skool Kick	Back Kick
61	TR909 Kick 7	PlasticKick3	Low Kick 4	TR909 Kick 1	Click Kick 1	Tight Kick
62	Real Snare	Jngl Tiny SD	Jngl Tiny SD	RaggaTightSD	Keen Snr 1	Tiny Snr 1
63 64	DanceHall SD TR808 SD 7	LowDownSnr 1	LowDownSnr 1 DanceHall SD	RaggaTightSD DanceHall SD	Boys Snr 1	Rap Snr 2
04	R&B Rim 4	RegularSnr F R&B Rim 1	R&B Rim 2		Slap Snr 1	Tiny Snr 2
65	TR808 Clap	Disc Clap	Claptail	Swag Rim Cheap Clap	Regular Rim Hip Clap	Street Rim Old Clap
66	TablaBayam 7	MG Sweep 5	Scratch 16	Scratch 25	CR78 Tamb	Tape Rewind
67	TR909 DstTom	MG Sweep 3	Scratch 19	Scratch 21	R8 Shaker B	Tambourine4
69	Maracas	MG Sweep 3	Metal Press	ThroatWind	R8 Cabasa	Vox Cymbal
70	Bristol CHH	Swallow CHH	Hipping CHH	Modern CHH	Bang CHH	LowDownCHH
71	TR606 PHH 1	TR606 PHH 2	Hip PHH	Street PHH	Street PHH	Swallow PHH
CE 70	TR606 OHH	НірНор ОНН	Pop Hat Open	HipHop OHH	Bang OHH	Regular OHH
C5 72	NaturalCrash	NaturalCrash	NaturalCrash	TR909 Crash	TR606 Cym	NaturalCrash
74	TR707 Ride	Jungle Crash	Regular Ride	Regular Ride	Analog Cym	Regular Ride
		I	I	I		I

Appendices

Preset Rhythm Set List

Note No.	037: 909 Human 1	040: 909 80's 2	043: 909 Elctrnca	046: 909 Regge 2	049: 909 Real 2	052: 909 World
59	Vox Kick 1	PlasticKick1	AnalogKick 9	Vinyl Kick 1	Low Kick 4	Cajon 3
	Vox Kick 2	Artful Kick	TR808 Kick	Low Kick 3	Mild Kick	TablaBayam 1
4 60 61	VoxKickSweep	AnalogKick 5	TR808 Kick	Back Kick	Dance Kick 1	TablaBayam 2
62	Vox Snare 1	Artful Snr	R&B RegSnr 1	Analog Snr 1	Back Snr	TablaBayam 3
63	Vox Snare 2	Analog Snr 3	R8 Snr 2	Real Snare	Slap Snr 1	TablaBayam 4
64	Vox Snare 1	Analog Snr 1	TR606 SD 1	Antigua Snr	Cross Snr	TablaBayam 5
	Chiki!	R&B Rim 2	Scratch 20	R&B Rim 2	Swag Rim	TablaBayam 6
65 66	Pa!	Disc Clap	Happy Clap	Real Clap 2	Hip Clap	Club Clap
	Chiki!	TR808 Tom	Snap	Deep Tom	R8 Comp Tom3	Udo
67	Ah M	TR606 Tom	TablaBayam 3	Deep Tom	R8 Comp Tom2	Udu Pot1 Hi
69	Ah2 M	Deep Tom	Udu Pot1 Hi	Deep Tom	R8 Comp Tom1	Udu Pot1 Slp
70	Vox Hihat 2	TR606 CHH 1	CR78 CHH	Hipping CHH	Hipping CHH	Chenchen
71	Vox Hihat 1	TR606 PHH 1	CR78 OHH	Hip PHH	TR808 CHH 1	Op Pandeiro
	Vox Hihat 3	TR808 OHH 2	CR78 OHH	Neck OHH	TR606 PHH 1	Mt Pandeiro
5 72				TR909 OHH 2	NaturalCrash	
<u>73</u> 74	Vox Cymbal Vox Hihat 3	TR606 Cym TR707 Ride	Analog Cym Regular Ride	NaturalCrash	Regular Ride	Asian Gong RAMA Cymbal
F0	038: 909 Human 2	041: 909 80's 3	044: 909 Cheap	047: 909 Regge 3	050: 909 Jazz	053: 909 Perc 1
59	Vox Kick 1	PlasticKick2	Lite Kick 1	TR909 Kick 7	Pick Kick	R8 Cowbell
4 60	Vox Kick 2	AnalogKick10	Artful Kick	Skool Kick	Low Kick 1	TR808Cowbell
61	VoxKickSweep	PlasticKick3	TR606 Kick	Jive Kick	TR707 Kick 1	CR78 Cowbell
62	Vox Snare 1	TR808 SD 5	Lite Snare	DanceHall SD	Real Snare	R8 Hi Agogo
63	Vox Snare 2	TR808 SD 3	CR78 Snare	TR909 SD 5	Cross Snr	R8 LowAgogo
64	Ah M	TR808 SD 7	TR808 SD 1	TR808 SD 3	R&B RegSnr 4	Noise AGG
0.5	Woow F	TR808 Rim	TR808 Rim	TR808 Claves	Neck Rim	Triangle 1
65 66	Funk Clap	TR808 Clap	PD Clap	Hip Clap	R8 Clap	Triangle 1
67	Scratch 20	TR808Cowbell	CR78 Tamb	Udo	R8 Comp Tom3	Triangle 2
68	Pa!	MG Zap 9	CR78 Beat	Udu Pot1 Hi	R8 Comp Tom2	Triangle 2
69	Chiki!	Beam HiQ	CR78 Guiro	Udu Pot1 Slp	R8 Comp Tom1	Tambourine1
70	Vox Hihat 2	TR808 CHH 1	Lite CHH	TR606 CHH 2	Regular CHH1	Tambourine2
71	Vox Hihat 1	CR78 CHH	Lite OHH	Hip PHH	Pedal Hat 1	Tambourine3
_	Vox Cymbal	TR606 OHH	Lite OHH	TR909 OHH 2	Regular OHH	Tambourine4
5 72					_ ~	
<u>73</u> 74	Asian Gong	TR606 OHH	TR606 Cym	NaturalCrash	NaturalCrash	CR78 Tamb
	Scratch 24	TR909 Ride	Analog Cym	TR707 Ride	Regular Ride	CR78 Beat
59	039: 909 80's 1 HipHop Kick2	042: 909 Electro Low Kick 3	045: 909 Regge 1 Rap Kick	048: 909 Real 1 Boys Kick	051: 909 Brash Jive Kick	054: 909 Perc 2 808 Maracas
4 60	HipHop Kick2	Low Kick 3	Rap Kick	Boys Kick	Jive Kick	808 Maracas
4 60 61	HipHop Kick2 PlasticKick3	Low Kick 3 PlasticKick2	Rap Kick Neck Kick	Boys Kick Low Kick 1	Jive Kick TR707 Kick 1	808 Maracas Maracas
4 60 62	HipHop Kick2 PlasticKick3 TR909 Kick 1	Low Kick 3 PlasticKick2 AnalogKick10	Rap Kick Neck Kick Vinyl Kick 1	Boys Kick Low Kick 1 Regular Kick	Jive Kick TR707 Kick 1 Regular Kick	808 Maracas Maracas R8 Shaker A
4 60 61	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2	Boys Kick Low Kick 1 Regular Kick RegularSnrMP	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill	808 Maracas Maracas R8 Shaker A R8 Cabasa
4 60 62 63	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnr F RegularSnrMF	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A
4 60 61 62 63 64 65	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnr F RegularSnrMF Regular Rim	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B
4 60 61 62 63 64 65 66	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnr F RegularSnrMF Regular Rim R&B RegSnrG1	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C
4 60 61 62 63 64 65 66 67	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrF RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt
4 60 61 62 63 64 65 66 67 68	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrF RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom2	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle
4 60 61 62 63 64 65 66 67 68 69	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom Deep Tom	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom TR606 Tom	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom TR808 Tom	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom2 R8 Comp Tom1	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom Natural Tom	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle TR727Quijada
4 60 61 62 63 64 65 66 67 68	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom Deep Tom Deep Tom Modern CHH	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom TR606 Tom TR909 CHH 2	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom TR808 Tom Swallow CHH	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom2 R8 Comp Tom1 Urban CHH	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom Natural Tom Regular CHH2	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle TR727Quijada R8 ClavesCmp
4 60 61 62 63 64 65 66 67 68 69 70	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom Deep Tom Deep Tom Modern CHH Swallow PHH	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom TR606 Tom TR606 Tom TR909 CHH 2 TR606 CHH 1	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom TR808 Tom Swallow CHH Street PHH	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom2 R8 Comp Tom1 Urban CHH Pedal Hat 1	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom Natural Tom Regular CHH2 Street PHH	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle TR727Quijada R8 ClavesCmp TR808 Claves
$4 \begin{array}{c} 60 \\ 62 \\ 64 \\ 65 \\ 66 \\ 67 \\ 68 \\ 69 \\ 71 \\ 71 \\ 572 \\ - \end{array}$	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom Deep Tom Deep Tom Modern CHH Swallow PHH Regular OHH	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom TR606 Tom TR909 CHH 2 TR606 CHH 1 TR606 OHH	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom TR808 Tom Swallow CHH Street PHH Neck OHH	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom4 R8 Comp Tom2 R8 Comp Tom1 Urban CHH Pedal Hat 1 Regular OHH	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom Natural Tom Regular CHH2 Street PHH Regular OHH	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle TR727Quijada R8 ClavesCmp TR808 Claves Single Snap
4 60 61 62 63 64 65 66 67 68 69 70	HipHop Kick2 PlasticKick3 TR909 Kick 1 TR909 SD 5 Tiny Snr 1 Analog Snr 1 R&B Rim 3 TR909 Clap 1 Deep Tom Deep Tom Deep Tom Deep Tom Modern CHH Swallow PHH	Low Kick 3 PlasticKick2 AnalogKick10 DanceHall SD Lite Snare RegularSnr F TR808 Rim Dist Clap TR606 Tom TR606 Tom TR606 Tom TR606 Tom TR909 CHH 2 TR606 CHH 1	Rap Kick Neck Kick Vinyl Kick 1 Frenzy Snr 2 Reagae Snr Urban RollSD Modern CHH R8 Clap TR909 DstTom TR909 Tom TR808 Tom Swallow CHH Street PHH	Boys Kick Low Kick 1 Regular Kick RegularSnrMP RegularSnrMF Regular Rim R&B RegSnrG1 R8 Comp Tom4 R8 Comp Tom2 R8 Comp Tom1 Urban CHH Pedal Hat 1	Jive Kick TR707 Kick 1 Regular Kick R8 BrushRoll R8 BrshSwill R&B RegSnr 4 R&B Rim 3 Real Clap 2 Natural Tom Natural Tom Natural Tom Regular CHH2 Street PHH	808 Maracas Maracas R8 Shaker A R8 Cabasa CR78 Guiro Reg Guiro A Reg Guiro B Reg Guiro C Whistle Shrt Whistle TR727Quijada R8 ClavesCmp TR808 Claves

* Numbers 065–072 are sets to which the sample data used by patterns 1–5 have been assigned.

Note No.	055: 909 Perc 3	058: 909 Scratch	061: 909 Vox Perc	064: 909 Sound FX	067: G-Funk Voice	070: House Guitar
59	R8 HiCongaMt	Scratch 16	Vox Kick 1	Dial	Break It On	House Gtr1
	R8 HiCongaOp	Scratch 17	Vox Kick 2	Door Knob	Check It Out	House Gtr2
C4 60	R8 LoCongaOp	Scratch 18	VoxKickSweep	Water Cock 2	I Like That	
61	Reg HiCng Mt	Scratch 19	Vox Snare 1	Sea	Thats Tight	
62	Reg HiCng Op	Scratch 20	Vox Snare 2	Dolphin Md		
63 64	Reg LoCng Op	Scratch 21	Vox Hihat 1	Dolphin Lo		
04		Scratch 24	Vox Hihat 2			
65	Reg HiBng Mt			Applause		
66	Reg HiBng Op	Scratch 25	Vox Hihat 3	Thunderbolt		
67	Reg LoBng Op	Scratch 26	Vox Cymbal	Vinyl burst		
68	Timbale Hi	Scratch 22	Pa!	Bomb Noise		
69	Timbale Lo	Scratch 22	Chiki!	Firebomb		
70	Cajon 1	Scratch 23	Punch	Jack Hammer		
71	Cajon 2	Scratch 23	Vox Cymbal	Turbine		
C5 72	Cajon 3	Tape Rewind	Pa!	Sawing		
73	Op Pandeiro	Vinyl Stop	Chiki!	Siren		
74	Mt Pandeiro	Vinyl Noise	Punch	Drill Hit		
59 C4 60 61 62 63 64 65 66 67 68 69 70 71 C5 72 73 74	056: 909 Perc 4 TablaBayam 1 TablaBayam 2 TablaBayam 3 TablaBayam 4 TablaBayam 5 TablaBayam 6 TablaBayam 7 Udo Udu Pot1 Hi Udu Pot1 Hi Udu Pot1 Slp AfroDrum Rat Sitar Gliss Sitar Gliss Chenchen RAMA Cymbal Asian Gong	059: 909 Voice 1 One M Two M Three M Four M Aah! M Hou! M Ha! M Hi! M Hi2 M Wow M Yeah2 M You Know M Get It Up M Come On M Ah Hah M Ah M	062: 909 Zap MG Zap 1 MG Zap 2 MG Zap 3 MG Zap 4 MG Zap 5 MG Zap 6 MG Zap 7 MG Zap 8 MG Zap 9 MG Zap 10 MG Zap 11 MG Zap 12 MG Zap 13 MG Zap 14 MG Zap 15 MG Blip	065: R&B Vocal R&B Vocal1 R&B Vocal2	068: Trance Vocal All Right1 All Right2	071: Breath Breath1 Breath2
59 C4 60 62 64 65	057: 909 Hit&Stab OrangeHit 1 OrangeHit 3 OrangeHit 4 OrangeHit 7 7th Hit Minor Hit Dist Hit	060: 909 Voice 2 Ah2 M Uuh Yeah! M ComeOn F Ha F Woow F Aah Formant Eeh Formant	063: 909 Synth FX LoFi Beep 1 LoFi Beep 2 LoFi Beep 3 LoFi Beep 4 LoFi Beep 5 LoFi Beep 6 Hardhock	066: R&B Guitar R&B Guitar1 R&B Guitar2	069: House Vocal Set Me Free Uhh	072: Techno Voice Yah What I Want
67 67 68 69	Tekno Hit Back Hit Thin Beef Tao Hit	lih Formant Ooh Formant Uuh Formant MetalVoiceW1	Euro Fx Orbit Density Metal Bar 1			
71	Philly Hit	MetalVoiceW2	Metal Bar 2			
71	ClassicHseHt	MetalVoiceW3	Metal Press			
C5 72	Smear Hit 1	AahVoice Maj	Sand Hit			
73	Smear Hit 2	AahVoice Min	DarkSteam			
74	LoFi MinorHt	Auh Voice	Ambience			
1		1 · · · · · · ·		1	1	1

Preset Pattern List

<u>No.</u>	Pattern Name	<u>BPM</u>	<u>Mes.</u>	<u>Programmer</u>
001	R&B 1	65	4	Shinichiro Murayama
002	G-Funk 1	77	4	Kazuhiko Maeda
003	Euro Trance 1	138	8	B.U.S
004	Garage 1	130	4	B.U.S
005	Minimal 1	137	4	grogman
006	Techno 1	132	8	Q'HEY
007	Techno 2	130	4	Heigo Tani
008	Techno 3	128	4	Heigo Tani
009 010	Techno 4 Techno 5	132	4 4	Heigo Tani
010	Techno 6	137 135	4 8	grogman Roland Corporation
012	Techno 7	133	8	Nick Tidy
012	Techno 8	130	4	Takatoshi Nishibu
010	Techno 9	130	8	Heigo Tani
015	Techno 10	130	4	Heigo Tani
016	Techno 11	128	4	Q'HEY
017	Techno 12	130	8	Kunihiro Ueno
018	Techno 13	130	8	Kunihiro Ueno
019	Techno 14	128	4	Kunihiro Ueno
020	Techno 15	127	8	Cappadocia Productions
021	Techno 16	125	4	Heigo Tani
022	Techno 17	132	4	Q'HEY
023	Techno 18	140	8	Nick Tidy
024	Techno 19	132	4	Q'HEY
025	Techno 20	135	8	Q'HEY
026	Techno 21	127	8	Nick Tidy
027	Techno 22	138	8	Nick Tidy
028	Minimal 2	140	4	Heigo Tani
029	Minimal 3	140	4	Heigo Tani
030	Minimal 4	141	4	Daishiro Minami
031	Minimal 5	138	4	Roland Corporation
032 033	Minimal 6 Minimal 7	137	4	grogman O'HEV
033	Minimal 8	135 135	8 8	Q'HEY Q'HEY
034	Minimal 9	135	4	Q'HEY
035	Minimal 10	135	4	Q'HEY
037	Minimal 10 Minimal 11	135	8	Q'HEY
038	Minimal 12	135	8	Q'HEY
039	Minimal 13	135	8	Q'HEY
040	Hardcore 1	180	8	NEURON
041	Hardcore 2	180	8	NEURON
042	Hardcore 3	180	8	NEURON
043	Hardcore 4	150	8	NEURON
044	Hardcore 5	150	8	NEURON
045	Ambient 1	89	8	Cappadocia Productions
046	Ambient 2	89	8	Cappadocia Productions
047	Ambient 3	82	8	Roland Corporation U.S.
048	Ambient 4	100	4	Roland Corporation
049	Ambient 5	120	4	MASA
050	Ambient 6	130	4	Q'HEY
051	Drum'n'Bass 1	180	8	Kunihiro Ueno
052	Drum'n'Bass 2	180	8	Kunihiro Ueno
053	Drum'n'Bass 3	175	4	Heigo Tani
054	Drum'n'Bass 4	166	8	Nick Tidy
055	Drum'n'Bass 5	180	8	Nick Tidy
056	Drum'n'Bass 6	170	4	Roland Corporation
057	Drum'n'Bass 7	175	8	Roland Corporation
058	Drum'n'Bass 8 Drum'n'Bass 9	170	8	Heigo Tani Kunihiro Ueno
059 060	Drum'n'Bass 9 Drum'n'Bass 10	180 180	8 8	Kunihiro Ueno
000	Diamin Dass IV	100	0	

No.	Pattern Name	BPM	Mes	Programmer
061 062	Drum'n'Bass 11 Drum'n'Bass 12	170 180	8 8	Kunihiro Ueno Kunihiro Ueno
063	Drum'n'Bass 13	180	4	Kunihiro Ueno
064	Break Beats 1	140	4	Heigo Tani
065	Break Beats 2	140	4	Heigo Tani
066	Break Beats 3	136	8	Kunihiro Ueno
067	Break Beats 4	126	8	Nick Tidy
068	Break Beats 5	110	4	Kunihiro Ueno
069	Break Beats 6	128	8	Nick Tidy
070	Break Beats 7	120	8	Kunihiro Ueno
071	Break Beats 8	120	8	Nick Tidy
072	Break Beats 9	154	8	Kunihiro Ueno
073	Break Beats 10	170	8	Heigo Tani
074	Break Beats 11	175	4	Heigo Tani
075	Break Beats 12	138	4	Heigo Tani
076	Break Beats 13	127	4	B.U.S
077	Break Beats 14	144	8	Nick Tidy
078	Euro Trance 2 Euro Trance 3	140	8	Roland Corporation
079 080	Euro Trance 3	135 140	8 8	Roland Corporation
080	Euro Trance 5	140	о 8	Hans-Joerg Scheffler B.U.S
082	Euro Trance 6	138	4	B.U.S
083	Euro Trance 7	136	4	B.U.S
084	Euro Trance 8	138	8	Roland Corporation U.S.
085	Euro Trance 9	145	8	NEURON
086	Hard Trance 1	140	8	Hans-Joerg Scheffler
087	Hard Trance 2	150	8	NEURON
880	Hard Trance 3	150	8	NEURON
089	Hard Trance 4	140	8	Hans-Joerg Scheffler
090	Hard Trance 5	145	8	Roland Corporation
091	Hard Trance 6	136	4	Takatoshi Nishibu
092	Hard Trance 7	140	8	Hans-Joerg Scheffler
093	Hard Trance 8	134	4	Roland Corporation U.S.
094	Hard Trance 9	140	4	MASA
095	Hard Trance 10	138	4	MASA
096	Hard Trance 11	140	4	MASA
097	Psy. Trance 1	140	4	MASA
098	Psy. Trance 2	140	4	MASA
099 100	Psy. Trance 3 Psy. Trance 4	138 138	4 4	MASA MASA
101	Psy. Trance 5	138	8	MASA
102	Psy. Trance 6	143	8	NEURON
103	Psy. Trance 7	140	8	NEURON
104	UK HardHouse 1	150	8	Roland Corporation
105	UK HardHouse 2	145	8	Roland Corporation
106	UK HardHouse 3	142	4	B.U.S
107	UK HardHouse 4	142	8	Roland Corporation U.S.
108	UK HardHouse 5	142	8	Roland Corporation U.S.
109	UK HardHouse 6	140	4	Roland Corporation U.S.
110	UK HardHouse 7	140	8	B.U.S
111	US HardHouse 1	133	4	Roland Corporation U.S.
112	US HardHouse 2	125	4	Roland Corporation
113	US HardHouse 3	125	4	Roland Corporation
114	US HardHouse 4	129	4	Roland Corporation U.S.
115	US HardHouse 5	130	4	Kazuhiko Maeda
116	US HardHouse 6	130	4	Kazuhiko Maeda
117	US HardHouse 7	130	4	Kazuhiko Maeda
118	Progressive 1	133	8	Roland Corporation
119	Progressive 2	130	8 8	Roland Corporation
120	Progressive 3	132	8	Roland Corporation U.S.

Preset Pattern List

<u>No.</u>	Pattern Name	<u>BPM</u>	<u>Mes.</u>	<u>Programmer</u>
121	Progressive 4	136	4	B.U.S
122	Progressive 5	136	4	B.U.S
123	Progressive 6	138	4	B.U.S
124	Progressive 7	137	8	Nick Tidy
125	Garage 2	128	4	Roland Corporation U.S.
126	Garage 3	132	4	B.U.S
127	Garage 4	130	4	B.U.S
128	Garage 5	125	8	Hans-Joerg Scheffler
129	Garage 6	129	8	Hans-Joerg Scheffler
130	Garage 7	134	8	Hans-Joerg Scheffler
131	Garage 8	142	8	Naoki Matsuura
132	Garage 9	134	8	Naoki Matsuura
133	Garage 10	138	8	Naoki Matsuura
134	Disco 1	132	8	B.U.S
135	Disco 2 Disco 3	132 135	8 4	B.U.S Baland Corporation U.S.
136 137	House 1	135	4	Roland Corporation U.S. MASA
137	House 1 House 2	124	4	Hans-Joerg Scheffler
139	House 3	134	4	Hans-Joerg Scheffler
140	House 4	127	8	Nick Tidy
141	House 5	128	8	Hans-Joerg Scheffler
142	House 6	126	8	Hans-Joerg Scheffler
143	R&B 2	104	4	Shinichiro Murayama
144	R&B 3	99	4	Kazuhiko Maeda
145	R&B 4	89	4	Kazuhiko Maeda
146	R&B 5	66	8	Shinichiro Murayama
147	R&B 6	70	4	Kazuhiko Maeda
148	R&B 7	80	4	Kazuhiko Maeda
149	R&B 8	92	4	Kazuhiko Maeda
150	R&B 9	96	8	Shinichiro Murayama
151	R&B 10	97	4	Kazuhiko Maeda
152	R&B 11	100	8	Shinichiro Murayama
153	R&B 12	90	8	Shinichiro Murayama
154	R&B 13	90	8	Shinichiro Murayama
155	R&B 14	105	8	Shinichiro Murayama
156	R&B 15	100	8	Shinichiro Murayama
157	R&B 16	98	8	Shinichiro Murayama
158	R&B 17	100	8	Shinichiro Murayama
159	R&B 18	102	8	Shinichiro Murayama
160	Hip Hop 1	84	8	Kazuhiko Maeda
161	Hip Hop 2	93	4	Kazuhiko Maeda
162	Hip Hop 3	113	8	Roland Corporation U.S.
163	Hip Hop 4	108	8	Roland Corporation U.S.
164	Hip Hop 5	116	8	Roland Corporation U.S.
165	Hip Hop 6	71	4	Roland Corporation
166	Hip Hop 7	98	8	Roland Corporation
167	Hip Hop 8	95	4	Roland Corporation
168	Hip Hop 9	89	4	Cappadocia Productions
169	Hip Hop 10	89	4	Cappadocia Productions
170	Hip Hop 11	87	8	Roland Corporation U.S.
171	Hip Hop 12	91	8	Roland Corporation U.S.
172	Hip Hop 13	89	4	Cappadocia Productions
173	G-Funk 2	97	4	Kazuhiko Maeda
174	G-Funk 3	96	4	Kazuhiko Maeda
175	G-Funk 4	97	8	Roland Corporation U.S.
176	G-Funk 5	94	8	Roland Corporation U.S.
177	G-Funk 6	91	8	Roland Corporation U.S.
178	G-Funk 7	97	8	Roland Corporation U.S.
179	G-Funk 8	91	8	Roland Corporation U.S.
180	G-Funk 9	91	8	Roland Corporation U.S.

<u>No.</u>	Pattern Name	<u>BPM</u>	<u>Mes.</u>	Programmer
181	G-Funk 10	95	4	Roland Corporation
182	G-Funk 11	90	4	Roland Corporation
183	Abstract 1	95	4	Roland Corporation
184	Abstract 2	80	4	Roland Corporation
185	Abstract 3	60	4	Roland Corporation
186	Abstract 4	95	4	Roland Corporation
187	Abstract 5	92	8	Roland Corporation U.S.
188	Abstract 6	96	8	Roland Corporation U.S.
189	Electro 1	124	4	Cappadocia Productions
190	Electro 2	135	8	Cappadocia Productions
191	Electro 3	127	8	Cappadocia Productions
192	Electro 4	100	4	Cappadocia Productions
193	Electro 5	133	8	Nick Tidy
194	Electro 6	113	8	Roland Corporation U.S.
195	Electronica 1	120	4	Roland Corporation
196	Electronica 2	120	4	Roland Corporation
197	Electronica 3	110	4	Roland Corporation
198	Electronica 4	110	4	Roland Corporation
199	Electronica 5	120	4	Roland Corporation
200	Electronica 6	120	4	Roland Corporation
201	Electronica 7	130	8	Roland Corporation
202	Electronica 8	128	8	Q'HEY
203	Electronica 9	130	4	Q'HEY
204	Reggae 1 (Dance Hall) 90	4	Roland Corporation
205	Reggae 2 (Dance Hall) 90	4	Roland Corporation
206	Reggae 3 (Dance Hall) 85	4	Naoki Matsuura
207	Reggae 4 (Dance Hall) 85	4	Naoki Matsuura
208	Reggae 5 (Dance Hall) 93	4	Roland Corporation
209	Reggae 6 (Lovers)	90	4	Roland Corporation
210	Reggae 7 (Lovers)	89	4	Kazuhiko Maeda
211	Reggae 8 (Lovers)	78	8	Naoki Matsuura
212	Reggae 9 (Lovers)	68	8	Naoki Matsuura
213	Reggae 10 (Roots)	80	4	Naoki Matsuura
214	Reggae 11 (Roots)	65	4	Naoki Matsuura
215	Reggae 12 (Dub)	71	8	Naoki Matsuura

* Depending on the country in which you purchased your MC-909, the first five preset patterns may be in a different order.

002 003 004	Euro Trance 1 Garage 1 Minimal 1 R&B 1	137 65	4	B.U.S B.U.S grogman Shinichiro Murayama
005	G-Funk 1	77	4	Kazuhiko Maeda
003 004	Minimal 1 R&B 1	137 65	4 4	grogman Shinichiro Murayama

No.: Pattern Number / Mes.: Measure Length

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RPS Pattern List

<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name
216	Techno Drums 1	271	Techno Bass 2	326	Kick Fill 5	381	Cymbal 3
217	Techno Drums 2	272	Techno Bass 3	327	Kick Fill 6	382	Cymbal 4
218	Techno Drums 3	273	Techno Bass 4	328	Kick Fill 7	383	Clap Fill 1
219	Techno Drums 4	274	Techno Bass 5	329	Kick Fill 8	384	Clap Fill 2
220	Techno Drums 5	275	Techno Bass 6	330	Kick Fill 9	385	Clap Fill 3
221	Techno Drums 6	276	Techno Bass 7	331	Kick Fill 10	386	Clap Fill 4
222	Techno Drums 7	277	Techno Bass 8	332	Kick Fill 11	387	Clap Fill 5
223	Techno Drums 8	278	Techno Bass 9	333	Kick Fill 12	388	Clap Fill 6
224	Techno Drums 9	279	Techno Bass 10	334	Kick Fill 13	389	Clap Fill 7
225	Techno Drums 10	280	Techno Bass 11	335	Snare Fill 1	390	Clap Fill 8
226	Techno Drums 11	281	Techno Bass 12	336	Snare Fill 2	391	Tom Fill 1
227	Techno Drums 12	282	Techno Bass 13	337	Snare Fill 3	392	Tom Fill 2
228	Techno Drums 13	283	Techno Bass 14	338	Snare Fill 4	393	Perc. Fill 1
229	Techno Drums 14	284	Trance Bass 1	339	Snare Fill 5	394	Perc. Fill 2
230	Trance Drums 1	285	Trance Bass 2	340	Snare Fill 6	395	Perc. Fill 3
231	Trance Drums 2	286	Trance Bass 3	341	Snare Fill 7	396	Perc. Fill 4
232	Trance Drums 3	287	Trance Bass 4	342	Snare Fill 8	397	Perc. Fill 5
233	Trance Drums 4	288	Trance Bass 5	343	Snare Fill 9	398	Perc. Fill 6
234	Trance Drums 5	289	Trance Bass 6	344	Snare Fill 10	399	Perc. Fill 7
235	Trance Drums 6	290	Trance Bass 7	345	Snare Fill 11	400	Perc. Fill 8
236	Trance Drums 7	291	Trance Bass 8	346	Snare Fill 12	401	Perc. Fill 9
237	Trance Drums 8	292	House Bass 1	347	Snare Fill 13	402	Perc. Fill 10
238	House Drums 1	293	House Bass 2	348	Snare Fill 14	403	Perc. Fill 11
239	House Drums 2	294	House Bass 3	349	Snare Fill 15	404	Perc. Fill 12
240	House Drums 3	295	House Bass 4	350	Snare Fill 16	405	Perc. Fill 13
241	House Drums 4	296	House Bass 5	351	Snare Fill 17	406	Perc. Fill 14
242	House Drums 5	297	House Bass 6	352	Snare Fill 18	407	Perc. Fill 15
243	House Drums 6	298	House Bass 7	353	Snare Fill 19	408	Perc. Fill 16
244	House Drums 7	299	House Bass 8	354	Snare Fill 20	409	Perc. Fill 17
245	House Drums 8	300	2Step Bass 1	355	Hi-hat Fill 1	410	Perc. Fill 18
246	2Step Drums 1	301	2Step Bass 2	356	Hi-hat Fill 2	411	Perc. Fill 19
247	2Step Drums 2	302	Dnb Bass 1	357	Hi-hat Fill 3	412	Perc. Fill 20
248	Dnb Drums 1	303	Dnb Bass 2	358	Hi-hat Fill 4	413	Perc. Fill 21
249	Dnb Drums 2	304	Dnb Bass 3	359	Hi-hat Fill 5	414	Perc. Fill 22
250	Dnb Drums 3	305	Dnb Bass 4	360	Hi-hat Fill 6	415	Perc. Fill 23
251	Dnb Drums 4	306	B.Beats Bass 1	361	Hi-hat Fill 7	416	Perc. Fill 24
252	B.Beats Drums 1	307	B.Beats Bass 2	362	Hi-hat Fill 8	417	Perc. Fill 25
253	B.Beats Drums 2	308	B.Beats Bass 3	363	Hi-hat Fill 9	418	Perc. Fill 26
254	B.Beats Drums 3	309	B.Beats Bass 4	364	Hi-hat Fill 10	419	Perc. Fill 27
255	B.Beats Drums 4	310	HipHop Bass 1	365	Hi-hat Fill 11	420	Cowbell 1
256	HipHop Drums 1	311	HipHop Bass 2	366	Hi-hat Fill 12	421	Human Fill 1
257	HipHop Drums 2	312	HipHop Bass 3	367	Hi-hat Fill 13	422	Human Fill 2
258	HipHop Drums 3	313	HipHop Bass 4	368	Hi-hat Fill 14	423	Human Fill 3
259	HipHop Drums 4	314	HipHop Bass 5	369	Hi-hat Fill 15	424	Human Fill 4
260	HipHop Drums 5	315	HipHop Bass 6	370	Hi-hat Fill 16	425	Human Fill 5 Human Fill 6
261	HipHop Drums 6	316	HipHop Bass 7	371	Hi-hat Fill 17 Hi hat Fill 18	426	
262	HipHop Drums 7	317	HipHop Bass 8	372	Hi-hat Fill 18 Hi hat Fill 10	427	Scratch 1 Scratch 2
263 264	HipHop Drums 8	318 319	HipHop Bass 9	373	Hi-hat Fill 19 Hi hat Fill 20	428 429	
264 265	HipHop Drums 9 HipHop Drums 10	319	HipHop Bass 10 Reggae Bass 1	374 375	Hi-hat Fill 20 Hi-hat Fill 21	429	Scratch 3 Scratch 4
			•••			430	
266 267	Reggae Drums 1 Reggae Drums 2	321 322	Reggae Bass 2 Kick Fill 1	376 377	Cymbal Fill 1 Cymbal Fill 2	431	Scratch 5 Scratch 6
267	Human Beat 1	322	Kick Fill 2	377	Cymbal Fill 2 Cymbal Fill 3	432	Scratch 7
266 269	Human Beat 2	323 324	Kick Fill 3	378	Cymbal 1	433	Scratch 8
209	Techno Bass 1	324	Kick Fill 4	380	Cymbal 2	434	Scratch 9
210		525			Cymbal 2	-+00	Condition J

RPS Pattern List

<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name	<u>No.</u>	Pattern Name
436	Scratch 10	491	Flute 1	546	Synth Riff 21	601	Voice 13
437	Scratch 11	492	Flute 2	547	Synth Riff 22	602	Voice 14
438	Scratch 12	493	Flute 3	548	Synth Riff 23	603	Voice 15
439	Scratch 13	494	Ethnic Riff 1	549	Synth Riff 24	604	Voice 16
440	Scratch 14	495	Ethnic Riff 2	550	Synth Riff 25	605	Voice 17
441	Scratch 15	496	Balaphone 1	551	Synth Riff 26	606	Voice 18
442	Scratch 16	497	Balaphone 2	552	Synth Riff 27	607	Voice 19
443	Scratch 17	498	Bass Riff 1	553	Synth Riff 28	608	FX 1
444	Piano 1	499	Bass Riff 2	554	Synth Riff 29	609	FX 2
445	Piano 2	500	Synth Lead 1	555	Synth Riff 30	610	FX 3
446	Piano 3	501	Synth Lead 2	556	Synth Riff 31	611	FX 4
447	Piano 4	502	Synth Lead 3	557	Synth Riff 32	612	FX 5
448	Piano 5	503	Synth Lead 4	558	Synth Riff 33	613	FX 6
449	Piano 6	504	Synth Lead 5	559	Synth Riff 34	614	FX 7
450	Piano 7	505	Synth Lead 6	560	Synth Riff 35	615	FX 8
451	E.Piano 1	506	Synth Lead 7	561	Synth Riff 36	616	FX 9
452	E.Piano 2	507	Synth Lead 8	562	Synth Seq 1	617	FX 10
453	E.Piano 3	508	Synth Lead 9	563	Synth Seq 2	618	FX 11
454	E.Piano 4	509	Synth Pad 1	564	Synth Seq 3	619	FX 12
455	E.Piano 5	510	Synth Pad 2	565	Synth Seq 4	620	FX 13
456	E.Piano 6	511	Synth Pad 3	566	Synth Seq 5	621	FX 14
457	Organ 1	512	Synth Pad 4	567	Synth Seq 6	622	FX 15
458	Organ 2	513	Synth Pad 5	568	Synth Seq 7	623	FX 16 FX 17
459 460	Organ 3 Guitar Riff 1	514 515	Synth Pad 6 Synth Pad 7	569	Synth Seq 8	624 625	FX 17 FX 18
460 461	Guitar Riff 2		Synth Pad 7 Synth Pad 8	570	Synth Seq 9 Synth Seg 10		FX 10 FX 19
461	Guitar Riff 3	516 517	Synth Pad 8 Synth Pad 9	571 572	Synth Seq 10 Synth Seq 11	626 627	FX 19 FX 20
463	Guitar Riff 4	518	Synth Pad 10	572	Synth Seq 12	628	FX 21
464	Guitar Riff 5	519	Synth Pad 11	574	Synth Seq 13	629	FX 22
465	Guitar Riff 6	520	Synth Pad 12	575	Synth Seq 14	630	FX 23
466	Guitar Riff 7	521	Synth Pad 13	576	Synth Seq 15	631	FX 24
467	Guitar Riff 8	522	Synth Pad 14	577	Synth Seq 16	632	FX 25
468	Guitar Riff 9	523	Synth Pad 15	578	Synth Seq 17	633	FX 26
469	Guitar Riff 10	524	Synth Pad 16	579	Synth Seq 18	634	FX 27
470	Guitar Riff 11	525	Synth Pad 17	580	Synth Seq 19	635	FX 28
471	Guitar Riff 12	526	Synth Riff 1	581	Synth Seq 20	636	FX 29
472	Strings 1	527	Synth Riff 2	582	Synth Seq 21	637	FX 30
473	Strings 2	528	Synth Riff 3	583	Synth Seq 22	638	FX 31
474	Strings 3	529	Synth Riff 4	584	Hit 1	639	FX 32
475	Strings 4	530	Synth Riff 5	585	Hit 2	640	FX 33
476	Strings 5	531	Synth Riff 6	586	Hit 3	641	FX 34
477	Strings 6	532	Synth Riff 7	587	Hit 4	642	FX 35
478	Strings 7	533	Synth Riff 8	588	Hit 5	643	FX 36
479	Vox 1	534	Synth Riff 9	589	Voice 1	644	FX 37
480	Vox 2	535	Synth Riff 10	590	Voice 2	645	FX 38
481	Vox 3	536	Synth Riff 11	591	Voice 3	646	FX 39
482	Vox 4	537	Synth Riff 12	592	Voice 4	647	FX 40
483	Vox 5	538	Synth Riff 13	593	Voice 5	648	FX 41
484	Vox 6	539	Synth Riff 14	594	Voice 6	649	FX 42
485	Vox 7	540	Synth Riff 15	595	Voice 7	650	FX 43
486	Brass 1	541	Synth Riff 16	596	Voice 8	651	FX 44
487	Brass 2	542	Synth Riff 17	597	Voice 9	652	FX 45
488	Brass 3	543	Synth Riff 18	598	Voice 10	653 654	FX 46
489	Brass 4	544 545	Synth Riff 19	599	Voice 11	654 655	FX 47
490	Brass 5	545	Synth Riff 20	600	Voice 12	655	FX 48

RPS Set List

<u>Pad</u>	<u>No.</u>	Pattern Name
01.	Techi	no 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	216 217 270 271 376 322 335 383 526 562 527 563 509 608 609 589	Techno Drums 1 Techno Drums 2 Techno Bass 1 Techno Bass 2 Cymbal Fill 1 Kick Fill 1 Snare Fill 1 Clap Fill 1 Clap Fill 1 Synth Riff 1 Synth Seq 1 Synth Seq 2 Synth Seq 2 Synth Pad 1 FX 1 FX 2 Voice 1
02.	Techi	10 2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	218 219 272 273 355 391 323 393 500 501 564 528 510 610 611 612	Techno Drums 3 Techno Drums 4 Techno Bass 3 Techno Bass 4 Hi-hat Fill 1 Tom Fill 1 Kick Fill 2 Perc. Fill 1 Synth Lead 1 Synth Lead 1 Synth Lead 2 Synth Seq 3 Synth Riff 3 Synth Pad 2 FX 3 FX 4 FX 5
03.	Techi	no 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	220 221 274 395 384 356 529 530 531 532 479 590 584 613	Techno Drums 5 Techno Drums 6 Techno Bass 5 Techno Bass 6 Perc. Fill 2 Perc. Fill 2 Perc. Fill 2 Hi-hat Fill 2 Synth Riff 4 Synth Riff 5 Synth Riff 5 Synth Riff 6 Synth Riff 7 Vox 1 Voice 2 Hit 1 FX 6
04.	Minir	nal
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	222 223 276 277 324 336 396 496 494 480 533 565 534 481 585 614	Techno Drums 7 Techno Drums 8 Techno Bass 7 Techno Bass 8 Kick Fill 3 Snare Fill 2 Perc. Fill 4 Balaphone 1 Ethnic Riff 1 Vox 2 Synth Riff 8 Synth Seq 4 Synth Riff 9 Vox 3 Hit 2 FX 7

Pad	<u>No.</u>	Pattern Name
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Harce 224 225 278 279 337 338 397 379 566 567 444 535 536 537 615 591	Techno Drums 9 Techno Drums 10 Techno Bass 9 Techno Bass 10 Snare Fill 3 Snare Fill 4 Perc. Fill 5 Cymbal 1 Synth Seq 5 Synth Seq 6 Piano 1 Synth Riff 10 Synth Riff 10 Synth Riff 12 FX 8 Voice 3
	Amb	-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	226 227 280 281 357 377 398 325 568 569 570 511 512 616 617 472	Techno Drums 11 Techno Drums 12 Techno Bass 11 Techno Bass 12 Hi-hat Fill 3 Cymbal Fill 2 Perc. Fill 6 Kick Fill 4 Synth Seq 7 Synth Seq 8 Synth Seq 9 Synth Pad 3 Synth Pad 4 FX 9 FX 10 Strings 1
07.	Drun	n'n'Bass 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	248 249 302 303 358 380 326 327 502 503 504 473 571 618 619 620	Dnb Drums 1 Dnb Drums 2 Dnb Bass 1 Dnb Bass 2 Hi-hat Fill 4 Cymbal 2 Kick Fill 5 Kick Fill 6 Synth Lead 3 Synth Lead 3 Synth Lead 4 Synth Lead 5 Strings 2 Synth Seq 10 FX 11 FX 12 FX 13
	-	n'n'Bass 2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	250 251 304 305 328 360 399 445 451 513 514 515 621 622 572	Dnb Drums 3 Dnb Drums 4 Dnb Bass 3 Dnb Bass 4 Kick Fill 7 Hi-hat Fill 5 Hi-hat Fill 6 Perc. Fill 7 Piano 2 E.Piano 1 Synth Pad 5 Synth Pad 5 Synth Pad 6 Synth Pad 7 FX 14 FX 15 Synth Seq 11

<u>Pad</u>	<u>No.</u>	Pattern Name	Pad	N
09.	Brea	k Beats 1	13.1	Ho
1	252	B.Beats Drums 1	1	23
2 3	253 306	B.Beats Drums 2 B.Beats Bass 1	2 3	23
4	307	B.Beats Bass 2	4	28
5	329	Kick Fill 8	5	34
6 7	339 361	Snare Fill 5 Hi-hat Fill 7	6 7	34 36
8	421	Human Fill 1	8	40
9	538	Synth Riff 13	9	54
10 11	460 623	Guitar Riff 1 FX 16	10 11	57 49
12	624	FX 17	12	57
13	461	Guitar Riff 2	13	51
14 15	427 625	Scratch 1 FX 18	14 15	54 54
16	592	Voice 4	16	54
10.	Brea	k Beats 2	14.	Ps
1	254	B.Beats Drums 3	1	23
2 3	255 308	B.Beats Drums 4 B.Beats Bass 3	2 3	23
4	309	B.Beats Bass 4	4	29
5	340	Snare Fill 6	5	34
6 7	400 401	Perc. Fill 8 Perc. Fill 9	6 7	34 38
8	422	Human Fill 2	8	36
9	446	Piano 3	9	54
10 11	462 463	Guitar Riff 3 Guitar Riff 4	10 11	54 55
12	486	Brass 1	12	57
13	487	Brass 2	13	51
14 15	593 428	Voice 5 Scratch 2	14 15	63 63
16	539	Synth Riff 14	16	46
11.	Euro	Trance 1	15. (Uŀ
1	230 231	Trance Drums 1 Trance Drums 2	1	23
2 3	284	Trance Bass 1	2	23
4	285	Trance Bass 2	4	29
5 6	341 362	Snare Fill 7 Hi-hat Fill 8	5 6	34 38
7	379	Cymbal 1	7	38
8	385	Clap Fill 3	8	40
9 10	505 540	Synth Lead 6 Synth Riff 15	9 10	55 55
11	573	Synth Seq 12	11	55
12	574	Synth Seq 13	12	55
13 14	516 575	Synth Pad 8 Synth Seg 14	13 14	49 52
15	626	FX 19	15	59
16	627	FX 20	16	63
		Trance 2	16.	
1 2	232 233	Trance Drums 3 Trance Drums 4	1	24 24
3	286	Trance Bass 3	3	29
4	287	Trance Bass 4	4	29
5 6	342 363	Snare Fill 8 Hi-hat Fill 9	5 6	33
7	378	Cymbal Fill 3	7	38
8	402	Perc. Fill 10	8	40
9 10	506 541	Synth Lead 7 Synth Riff 16	9 10	55 55
11	542	Synth Riff 17	11	47
12	543	Synth Riff 18	12	48
13 14	517 576	Synth Pad 9 Synth Seq 15	13 14	52 59
15	628	FX 21	15	63
16	629	FX 22	16	63

Pattern Name lo. ard Trance 34 Trance Drums 5 35 Trance Drums 6 88 Trance Bass 5 89 Trance Bass 6 Snare Fill 9 43 44 Snare Fill 10 64 Hi-hat Fill 10 03 Perc. Fill 11 44 Synth Riff 19 77 Synth Seq 16 Bass Riff 1 98 78 Synth Seq 17 18 Synth Pad 10 45 Synth Riff 20 Synth Riff 21 46 Synth Riff 22 47 sy. Trance Trance Drums 7 36 37 Trance Drums 8 90 Trance Bass 7 Trance Bass 8 91 45 Snare Fill 11 46 Snare Fill 12 86 Clap Fill 4 65 Hi-hat Fill 11 48 Synth Riff 23 Synth Riff 24 49 Synth Riff 25 50 79 Synth Seq 18 19 Synth Pad 11 30 FX 23 31 FX 24 Guitar Riff 5 64 K HardHouse House Drums 1 38 39 House Drums 2 92 House Bass 1 93 House Bass 2 Snare Fill 13 47 87 Clap Fill 5 81 Cymbal 3 Perc. Fill 12 04 51 Synth Riff 26 Synth Riff 27 52 53 Synth Riff 28 54 Synth Riff 29 .99 Bass Riff 2 20 Synth Pad 12 94 Voice 6 32 FX 25 S HardHouse House Drums 3 40 41 House Drums 4 House Bass 3 94 House Bass 4 95 30 Kick Fill 9 66 Hi-hat Fill 12 88 Clap Fill 6 05 Perc. Fill 13 Synth Riff 30 55 56 Synth Riff 31 74 Strings 3 88 Brass 3 21 Synth Pad 13 Voice 7 95 FX 26 33 34 FX 27

Pattern Name

Pad

<u>No.</u>

29. Human Set

Pad <u>No.</u> Pattern Name 17. Progressive House Drums 5 House Drums 6 House Bass 5 House Bass 6 Snare Fill 14 Hi-hat Fill 13 Clap Fill 7 Perc. Fill 14 Synth Riff 32 Synth Riff 33 Synth Riff 34 E.Piano 2 Synth Pad 14 Voice 8 FX 28 FX 29 18. Garage 1 House Drums 7 House Drums 8 House Bass 7 House Bass 8 Snare Fill 15 Perc. Fill 15 Perc. Fill 16 Tom Fill 2 Piano 4 Piano 5 Strings 4 E.Piano 3 Synth Riff 35 Brass 4 Hit 3 FX 30 19. Garage 2 2Step Drums 1 2Step Drums 2 2Step Bass 1 2Step Bass 2 Kick Fill 10 Hi-hat Fill 14 Perc. Fill 17 Human Fill 3 Organ 1 F Piano 4 Guitar Riff 6 Guitar Riff 7 Synth Pad 15 Flute 1 Piano 6 Hit 4 20. R&B HipHop Drums 1 HipHop Drums 2 HipHop Bass 1 HipHop Bass 2 Hi-hat Fill 15 Perc. Fill 18 Perc. Fill 19 Cymbal 4 Strings 5 Piano 7 E.Piano 5 Synth Seq 19 Synth Pad 16 Scratch 3 FX 31

FX 32

Pad	No.	Pattern Name
21.	258	HipHop Drums 3
2	258	HipHop Drums 3
3	312	HipHop Bass 3
4 5	313 370	HipHop Bass 4 Hi-hat Fill 16
6	412	Perc. Fill 20
7	413	Perc. Fill 21
8	414 495	Perc. Fill 22 Ethnic Riff 2
9 10	495 477	Strings 6
11	492	Flute 2
12	467	Guitar Riff 8
13 14	588 430	Hit 5 Scratch 4
15	431	Scratch 5
16	597	Voice 9
22.	G-Fu	nk
1	260	HipHop Drums 5
2 3	261 314	HipHop Drums 6 HipHop Bass 5
4	314	HipHop Bass 6
5	350	Snare Fill 16
6 7	371 372	Hi-hat Fill 17 Hi-hat Fill 18
7 8	372 415	Perc. Fill 23
9	507	Synth Lead 8
10	493	Flute 3
11 12	468 478	Guitar Riff 9 Strings 7
13	456	E.Piano 6
14	640	FX 33
15	641 432	FX 34
16		Scratch 6
	Abst	
1		HipHop Drums 7
	262 263	
2 3	262 263 316	HipHop Drums 8 HipHop Bass 7
2 3 4	263 316 317	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8
2 3 4 5	263 316 317 373	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19
2 3 4	263 316 317	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8
2 3 4 5 6 7 8	263 316 317 373 416 417 351	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17
2 3 4 5 6 7 8 9	263 316 317 373 416 417 351 497	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2
2 3 4 5 6 7 8 9 10	263 316 317 373 416 417 351 497 458	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2
2 3 4 5 6 7 8 9	263 316 317 373 416 417 351 497	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2
2 3 4 5 6 7 8 9 10 11 12 13	263 316 317 373 416 417 351 497 458 642 643 644	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37
2 3 4 5 6 7 8 9 10 11 12 13 14	263 316 317 373 416 417 351 497 458 642 643 644 645	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38
2 3 4 5 6 7 8 9 10 11 12 13	263 316 317 373 416 417 351 497 458 642 643 644	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	263 316 317 373 416 417 351 497 458 642 643 644 645 482	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 Wox 5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2 3	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Electi 264 265 318	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX HipHop Drums 9 HipHop Drums 10 HipHop Bass 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 TO HipHop Drums 9 HipHop Drums 10 HipHop Bass 9 HipHop Bass 10
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2 3 4	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 1 264 265 318 319	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX HipHop Drums 9 HipHop Drums 10 HipHop Bass 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2 3 4 5 6 7	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 318 319 352 390 418	HipHop Drums 8 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 57 FX 38 FX 38 FX 57 FX 38 FX 57 FX 38 FX 57 FX 58 FX 57 FX 58 FX 57 FX 58 FX 57 FX 58 FX 57 FX 58 FX 58
2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 3 14 5 6 7 8 9 9 10 11 12 3 14 5 16 8 9 9 10 11 11 12 13 14 5 16 8 9 10 11 11 15 16 16 17 10 10 10 10 10 10 10 10 10 10 10 10 10	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265 318 319 352 390 418 420	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX 38 Vox 4 Vox 5 FX 5 FX 38 Vox 4 Vox 5 FX 5 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 57 FX 38 FX 38 FX 57 FX 38 FX 57 FX 58 FX 58
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24. 1 2 3 4 5 6 7	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 318 319 352 390 418	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FO HipHop Drums 9 HipHop Drums 10 HipHop Bass 9 HipHop Bass 10 Snare Fill 18 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9
2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 8 14 5 6 7 8 9 9 10 11 12 13 14 5 16 16 17 10 16 16 16 17 16 16 17 16 16 17 16 17 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265 318 319 352 390 418 420 508	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX 38 Vox 4 Vox 5 FX 5 FX 38 Vox 4 Vox 5 FX 5 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 38 Vox 4 Vox 5 FX 38 FX 57 FX 38 FX 38 FX 57 FX 38 FX 57 FX 58 FX 58
$\begin{smallmatrix} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ \textbf{24.} \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ $	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Electi 264 265 318 319 352 390 418 420 508 469 581 582	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX HipHop Drums 9 HipHop Drums 9 HipHop Drums 10 HipHop Bass 9 HipHop Bass 10 Snare Fill 18 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 20 Synth Seq 21
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ \textbf{24.}\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ \end{array}$	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 1 264 265 318 319 352 390 418 420 508 469 581 582 525	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 TO HipHop Drums 9 HipHop Drums 9 HipHop Drums 10 HipHop Bass 9 HipHop Bass 9 HipHop Bass 10 Snare Fill 18 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 20 Synth Seq 21 Synth Pad 17
$\begin{smallmatrix} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ \textbf{24.} \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ 12 \\ 11 \\ $	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Electi 264 265 318 319 352 390 418 420 508 469 581 582	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 FX HipHop Drums 9 HipHop Drums 9 HipHop Drums 10 HipHop Bass 9 HipHop Bass 10 Snare Fill 18 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 20 Synth Seq 21
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ \textbf{24.}\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ \end{array}$	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265 318 319 352 390 418 420 508 418 420 581 582 525 484	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 TO HipHop Drums 9 HipHop Drums 10 HipHop Dass 9 HipHop Bass 9 HipHop Bass 10 Snare Fill 18 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 21 Synth Pad 17 Vox 6
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ \textbf{24.}\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ \end{array}$	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265 318 319 352 390 418 420 508 469 582 525 484 646	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 P HipHop Drums 9 HipHop Drums 10 HipHop Dass 10 Snare Fill 8 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 20 Synth Seq 21 Synth Pad 17 Vox 6 FX 39
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ \textbf{24.}\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ \end{array}$	263 316 317 373 416 417 351 497 458 642 643 644 645 482 483 Elect 264 265 318 319 352 390 418 420 508 469 582 525 484 646	HipHop Drums 8 HipHop Bass 7 HipHop Bass 7 HipHop Bass 8 Hi-hat Fill 19 Perc. Fill 24 Perc. Fill 25 Snare Fill 17 Balaphone 2 Organ 2 FX 35 FX 36 FX 37 FX 38 Vox 4 Vox 5 P HipHop Drums 9 HipHop Drums 10 HipHop Dass 10 Snare Fill 8 Clap Fill 8 Perc. Fill 26 Cowbell 1 Synth Lead 9 Guitar Riff 10 Synth Seq 20 Synth Seq 21 Synth Pad 17 Vox 6 FX 39

<u>No.</u>	Pattern Name
Elect	ronica
228 229 282 283 332 333 374 424 583 648 649 650 651 652 653 654	Techno Drums 13 Techno Drums 14 Techno Bass 13 Techno Bass 14 Kick Fill 11 Kick Fill 12 Hi-hat Fill 20 Human Fill 4 Synth Seq 22 FX 41 FX 42 FX 43 FX 44 FX 45 FX 46 FX 47
Regg	jae
266 267 320 321 334 353 375 419 459 470 471 561 485 655 598 490	Reggae Drums 1 Reggae Drums 2 Reggae Bass 1 Reggae Bass 2 Kick Fill 13 Snare Fill 19 Hi-hat Fill 21 Perc. Fill 27 Organ 3 Guitar Riff 11 Guitar Riff 12 Synth Riff 36 Vox 7 FX 48 Voice 10 Brass 5
	e Fill Set
349 337 335 341 339 354 347 342 348 353 340 345 344 350 352 336	Snare Fill 15 Snare Fill 3 Snare Fill 3 Snare Fill 7 Snare Fill 7 Snare Fill 20 Snare Fill 20 Snare Fill 13 Snare Fill 14 Snare Fill 14 Snare Fill 19 Snare Fill 10 Snare Fill 10 Snare Fill 16 Snare Fill 18 Snare Fill 18 Snare Fill 2
FX S	
632 625 628 610 636 616 620 623 648 653 619 627 615 629 612 639	FX 25 FX 18 FX 21 FX 3 FX 29 FX 9 FX 13 FX 16 FX 41 FX 46 FX 12 FX 20 FX 8 FX 22 FX 5 FX 32
	Elect 228 229 282 283 333 374 424 583 648 649 651 652 653 654 Regg 266 267 320 334 353 375 419 459 470 471 561 485 655 598 490 Snar 349 337 349 337 341 339 354 349 353 341 339 354 353 375 419 459 470 471 561 485 655 598 490 Snar Shar 528 653 654 Regg Snar 548 549 555 598 490 Snar 548 549 555 598 490 Snar 548 549 349 355 341 339 354 349 355 341 339 355 341 339 355 341 339 355 341 339 355 341 339 355 341 339 355 341 339 355 341 339 355 341 339 355 341 359 Snar 632 632 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 616 620 632 648 655 629 612 615 629 612

Human Beat 1 Human Beat 2 Human Fill 5 Human Fill 6 Voice 11 Voice 4 Voice 12 Voice 13 Voice 14 Voice 15 Voice 7 Voice 16 Voice 2 Voice 17 Voice 18 Voice 19 **30. Scratch Set** Scratch 1 Scratch 7 Scratch 8 Scratch 9 Scratch 10 Scratch 11 Scratch 2 Scratch 5 Scratch 6 scratch 12 Scratch 4 Scratch 13 Scratch 14 Scratch 15 Scratch 16 Scratch 17

No.: RPS Pattern Number

* All data is that programmed at the factory. For instructions on carrying out Factory Reset, refer to p. 20.

Pattern Set List

Pad No. Pattern Name

01. Techno 1

-		
1	6	Techno 1
2	7	Techno 2
3	8	Techno 3
4	9	Techno 4
5	10	Techno 5
6	11	Techno 6
7	12	Techno 7
8	13	Techno 8
9	14	Techno 9
10	15	Techno 10
11	16	Techno 11
12	17	Techno 12
13	18	Techno 13
14	19	Techno 14
15	20	Techno 15
16	21	Techno 16

02. Techno 2

1	28	Minimal 2
2	29	Minimal 3
3	30	Minimal 4
4	31	Minimal 5
5	32	Minimal 6
6	33	Minimal 7
7	34	Minimal 8
8	35	Minimal 9
9	36	Minimal 10
10	37	Minimal 11
11	38	Minimal 12
12	39	Minimal 13
13	22	Techno 17
14	23	Techno 18
15	24	Techno 19
16	25	Techno 20
03.	Dr	um'n'Bass
1	51	Drum'n'Bass 1
2	52	Drum'n'Bass 2
3	53	Drum'n'Bass 3

2	52	Drum'n'Bass 2
3	53	Drum'n'Bass 3
4	54	Drum'n'Bass 4
5	55	Drum'n'Bass 5
6	56	Drum'n'Bass 6
7	57	Drum'n'Bass 7
8	58	Drum'n'Bass 8
9	59	Drum'n'Bass 9
10	60	Drum'n'Bass 10
11	61	Drum'n'Bass 11
12	62	Drum'n'Bass 12
13	63	Drum'n'Bass 13
14	51	Drum'n'Bass 1
15	52	Drum'n'Bass 2
16	53	Drum'n'Bass 3

<u>Pad</u>	<u>No.</u>	Pattern Name
04.	Bro	eak Beats
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	64 65 66 67 68 69 70 71 72 73 74 75 76 77 26 27	Break Beats 1 Break Beats 2 Break Beats 3 Break Beats 4 Break Beats 5 Break Beats 6 Break Beats 7 Break Beats 7 Break Beats 9 Break Beats 10 Break Beats 11 Break Beats 12 Break Beats 13 Break Beats 14 Techno 21 Techno 22
05.	Tro	ance 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	78 79 80 81 82 83 84 85 86 87 88 87 88 90 91 92 93	Euro Trance 2 Euro Trance 3 Euro Trance 4 Euro Trance 5 Euro Trance 6 Euro Trance 7 Euro Trance 8 Euro Trance 9 Hard Trance 9 Hard Trance 2 Hard Trance 3 Hard Trance 4 Hard Trance 5 Hard Trance 6 Hard Trance 7 Hard Trance 8
06.	Tro	ance 2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	94 95 96 97 98 99 100 101 102 103 118 119 43 44 42 41	Hard Trance 9 Hard Trance 10 Hard Trance 11 Psy. Trance 1 Psy. Trance 2 Psy. Trance 3 Psy. Trance 4 Psy. Trance 6 Psy. Trance 6 Psy. Trance 7 Progressive 1 Progressive 2 Hardcore 4 Hardcore 5 Hardcore 3 Hardcore 2

Pad No. Pattern Name

07. House 1

1	104	UK HardHouse 1
2	105	UK HardHouse 2
3	106	UK HardHouse 3
4	107	UK HardHouse 4
5	108	UK HardHouse 5
6	109	UK HardHouse 6
7	110	UK HardHouse 7
8	111	US HardHouse 1
9	112	US HardHouse 2
10	113	US HardHouse 3
11	114	US HardHouse 4
12	115	US HardHouse 5
13	116	US HardHouse 6
14	117	US HardHouse 7
15	120	Progressive 3
16	121	Progressive 4

08. House 2

1	125	Garage 2
2	126	Garage 3
3	127	Garage 4
4	128	Garage 5
5	129	Garage 6
6	130	Garage 7
7	131	Garage 8
8	132	Garage 9
9	133	Garage 10
10	134	Disco 1
11	135	Disco 2
12	136	Disco 3
13	137	House 1
14	138	House 2
15	139	House 3
16	141	House 5
09.	R&	В
1	143	R&B 2
2	144	R&B 3
3	145	R&B 4
4	146	R&B 5
5	147	R&B 6

148 R&B 7 149 R&B 8

150 R&B 9 151 R&B 10

152 R&B 11

153 R&B 12

154 R&B 13

155 R&B 14

156 R&B 15

157 R&B 16

158 R&B 17

6

7 8

9

10

11

12

13

14 15

16

Pad No. Pattern Name

10. Hip Hop

1	160	Hip Hop 1
2	161	Hip Hop 2
3	162	Hip Hop 3
4	163	Hip Hop 4
5	164	Hip Hop 5
6	165	Hip Hop 6
7	166	Hip Hop 7
8	167	Hip Hop 8
9	168	Hip Hop 9
10	169	Hip Hop 10
11	170	Hip Hop 11
12	171	Hip Hop 12
13	172	Hip Hop 13
14	173	G-Funk 2
15	174	G-Funk 3
16	175	G-Funk 4

11. Abstract

1	183	Abstract 1
2	184	Abstract 2
3	185	Abstract 3
4	186	Abstract 4
5	45	Ambient 1
6	46	Ambient 2
7	47	Ambient 3
8	48	Ambient 4
9	49	Ambient 5
10	195	Electronica 1
11	196	Electronica 2
12	197	Electronica 3
13	198	Electronica 4
14	199	Electronica 5
15	200	Electronica 6
16	201	Electronica 7
12.	Re	ggae
		ggae
1	204	Reggae 1(Dance Hall)
1 2	204 205	Reggae 1(Dance Hall) Reggae 2(Dance Hall)
1 2 3	204 205 206	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall)
1 2 3 4	204 205 206 207	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall)
1 2 3 4 5	204 205 206 207 208	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall)
1 2 3 4 5 6	204 205 206 207 208 209	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers)
1 2 3 4 5 6 7	204 205 206 207 208 209 210	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers)
1 2 3 4 5 6 7 8	204 205 206 207 208 209 210 211	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers)
1 2 3 4 5 6 7 8 9	204 205 206 207 208 209 210 211 212	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers)
1 2 3 4 5 6 7 8 9 10	204 205 206 207 208 209 210 211 212 213	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots)
1 2 3 4 5 6 7 8 9 10 11	204 205 207 208 209 210 211 212 213 214	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots) Reggae 11(Roots)
1 2 3 4 5 6 7 8 9 10 11 12	204 205 206 207 208 209 210 211 212 213 214 215	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots) Reggae 11(Roots) Reggae 12(Dub)
1 2 3 4 5 6 7 8 9 10 11 12 13	204 205 207 208 209 210 211 212 213 214 215 209	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots) Reggae 11(Roots) Reggae 12(Dub) Reggae 6(Lovers)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	204 205 206 207 208 209 210 211 212 213 214 215 209 210	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots) Reggae 11(Roots) Reggae 12(Dub) Reggae 6(Lovers) Reggae 7(Lovers)
1 2 3 4 5 6 7 8 9 10 11 12 13	204 205 207 208 209 210 211 212 213 214 215 209	Reggae 1(Dance Hall) Reggae 2(Dance Hall) Reggae 3(Dance Hall) Reggae 4(Dance Hall) Reggae 5(Dance Hall) Reggae 6(Lovers) Reggae 7(Lovers) Reggae 8(Lovers) Reggae 9(Lovers) Reggae 10(Roots) Reggae 11(Roots) Reggae 12(Dub) Reggae 6(Lovers)

No.: Pattern Number

- * All data is that programmed at the factory. For instructions on carrying out Factory Reset, refer to p. 20. * When the unit shipped
- from the factory, pattern sets 13–24, 25–36, and 37–48 contained the same sets as pattern sets 1–12, and 49 and 50 contained the same sets *as* 1 *and* 2.

Song List

Song No.	Song Name	<u>No.</u>	Pattern Name
01	Techno 1	10	Techno 5
02	Techno 2	14	Techno 9
03	Minimal	37	Minimal 11
04	Hardcore	40	Hardcore 1
05	Ambient	45	Ambient 1
06	Drum'n'Bass 1	51	Drum'n'Bass 1
07	Drum'n'Bass 2	62	Drum'n'Bass 12
08	Break Beats 1	64	Break Beats 1
09	Break Beats 2	68	Break Beats 5
10	Euro Trance	78	Euro Trance 2
11	Hard Trance	91	Hard Trance 6
12	Psy. Trance	102	Psy. Trance 6
13	UK HardHouse	104	UK HardHouse 1
14	US HardHouse	111	US HardHouse 1
15	Progressive	120	Progressive 3
16	Garage 1	126	Garage 3
17	Garage 2	129	Garage 6
18	Disco	136	Disco 3
19	R&B	143	R&B 2
20	Нір Нор	160	Hip Hop 1
21	G-Funk	174	G-Funk 3
22	Abstract	183	Abstract 1
23	Electro	189	Electro 1
24	Electronica	195	Electronica 1
25	Reggae	213	Reggae 10(Roots)

No.: Pattern Number

* All data is that programmed at the factory. For instructions on carrying out Factory Reset, refer to p. 20.

Arpeggio Style List

No.	Number of Notes	Number of Steps	Effective Chord Forms
001	2	2	
002	3	3	
003	4	4	
004	2	2	
005	3	3	
006	4	4	
007	4	6	
008	3	8	
009	3	6	
010	4	4	
011	5	8	
012	12	16	
013	3	4	
014	3	6	
015	3	8	
016	3	4	
017	4	4	
018	4	8	
019	6	6	
020	4	8	
021	4	8	
022	5	8	
023	3	16	
024	1	16	
025	2	16	
026	3	16	
027	3	16	
028	3	16	
029	3	16	
030	3	16	
031	3	16	
032	3	32	
033	3	16	
034	4	16	
035	4	16	
036	4	16	
037	3	8	
038	2	16	
039	4	16	29
040	4	16	30
041	3	8	
042	2	8	
043	2	8	
044	2	4	
045	3	4	
046	4	16	
047	4	16	31
048	3	16	
049	4	16	
050	4	16	32
051	4	16	
052	4	16	33
053	3	16	
054	7	8	
055	9	16	
056	9	16	
057	6	32	
058	7	16	
059	9	16	34
060	12	32	35
061	5	16	
062	8	16	36
063	7	24	37
064	5	16	

No.	Number of Notes	Number of Steps	Effective Chord Forms
065	5	16	
066	5	16	38
067	5	16	
068	6	8	
069	5	8	
070	4	8	39
070	4	8	40
071	4	8	40
			41
073	4	8	41
074	4	8	41
075	4	16	42
076	4	8	41
077	4	8	43
078	4	16	
079	4	8	44
080	4	8	45
081	4	16	46
082	4	16	47
083	4	16	
084	4	8	
085	4	8	48
086	4	16	-10
	4		
087		8	
088	4	8	
089	4	8	
090	4	8	
091	2	4	
092	2	16	
093	2	16	
094	4	16	
095	4	16	
096	4	16	
097	4	32	
098	5	16	
099	10	16	
100	10	8	
	10		
101		16	
102	4	32	
103	10	8	
104	10	16	
105	10	16	
106	4	16	
107	4	8	
108	5	16	
109	5	12	
110	5	4	
111	6	16	
112	5	23	49
112	6	32	50
113	6	32	50
114	6	32	52
116	7	16	53
117	5	16	54
118	7	32	55
119	4	32	56
120	6	32	57
121	9	32	58
122	6	16	59
123	7	16	60
124	9	16	61
125	8	16	62
126	7	16	63
120	10	32	64
127	6	16	04
120	U U	10	

Chord Form List

No.	Chord Name	Constituent Notes of Chord Form (when C4 is pressed)
1	С Мај	C4, E4, G4
2	C Maj7	C4, E4, G4, B4
3	C7	C4, E4, G4, Bb4
4	C min	C4, Eb4, G4
5	C min7	C4, Eb4, G4, Bb4
6	C dim	C4, Eb4, Gb4, A4
7	C min7 b5	C4, Eb4, Gb4, Ab4
8	C Aug	C4, E4, G#4
9	C sus4	C4, F4, G4
10	C 7sus4	C4, F4, G4, Bb4
11	C add9	C4, E4, G4, D5
12	C #11 C min7 b9	C4, E4, F#4
13		C4, Eb4, G4, Bb4, Db5
14	C min add9	C4, Eb4, G4, D5 C4, E4, G4, A4
15 16	C 6 C 6 9	C4, E4, G4, A4 C4, E4, G4, A4, D5
10	C Maj9	C4, E4, G4, A4, D5 C4, E4, G4, B4, D5
17	C min6	C4, E4, G4, B4, D5 C4, Eb4, G4, A4
10	C min9	C4, Eb4, G4, B4, D5
20	C min9 C min Maj7	C4, Eb4, G4, B04, D5 C4, Eb4, G4, B4
20	C7b5	C4, E04, G4, B4 C4, E4, Gb4, Bb4
21	C7b9	C4, E4, G4, Bb4, Db5
22	C 7 b9	C4, E4, G4, Bb4, D5
23	C 7 #9	C4, E4, G4, Bb4, D5 C4, E4, G4, Bb4, D#5
25	C7#11	C4, E4, G4, Bb4, F#5
26	C Aug7	C4, E4, G#4, Bb4
27	C7b13	C4, G4, Bb4, E5, Ab5
28	C 7 13	C4, G4, Bb4, E5, A5
29	A min add9	E4, A4, B4, C5
30	A min add11	A3, C4, D4, E4
31	G Maj add9	A3, G4, A4, B4
32	A min9 11	A3, B3, C4, D4
33	A 7 b9	A3, G4, A4, Bb4
34	A min7 11	G3, A3, C4, D4, E4, G4, A4, C5, D5
35	C Maj9 #11 13	A1, C2, D2, E2, D4, E4, F#4, G4, A4, B4, C5, D5
36	A min6 9 11	A4, B4, C5, D5, E5, F5, G#5, B5
37	C min7 11	Bb1, C2, Eb2, F2, Gb2, G2, Bb2
38	G Maj add9	G1, G4, A4, B4, D5
39	B Maj7	B2, F#3, A#3, D#4
40	D sus4	D2, D3, A3, G4
41	A min	A2, A3, C4, E4
42	C sus4	F2, F3, C4, G4
43	A min	A2, E3, A3, C4
44	G sus4	C3, G3, D4, G4
45	A F Maj	A2, A3, E4, A4 F2, F3, A3, C4
46	F Мај А	A2, E3, A3, E4
47	G Maj	C2, C3, E3, G3
40	C min9 11	G3, C4, D4, Eb4, F4
50	A min9 11	E5, G5, A5, B5, C6, D6
50	A min9 11	E3, A3, B3, C4, D4, E4
52	E 7 #11 13	G#2, A#2, B3, C#4, D4, E4
53	A min9	A2, C3, A3, B3, C4, E4, G4
54	A min9	A3, G4, A4, B4, C5
55	A min9	A3, C4, E4, G4, A4, B4, C5
56	A min9 11	A4, B4, C5, D5
57	F Maj9 #11	A3, F4, G4, A4, B4, C5
58	A min9 11	A2, A3, B3, C4, D4, A4, B4, C5, D5
59	A min9 11	C2, G3, G4, A4, B4, D5
60	G min9	G2, A2, Bb2, A4, Bb4, E5, F5
61	C Maj9	G2, B2, C3, D3, G3, B3, C4, D4, E4
62	F Maj9	C1, C2, C3, G3, A3, C4, E4, F4
63	F Maj9 13	E1, F2, G3, A3, C4, D4, E4
64	F Maj9 #11	E1, G2, B2, F4, G4, A4, B4, C5, E5, F5
* 1_'	28 are basic chords	

* 1–28 are basic chords

* 29–64 are chords effective for arpeggio styles

SRX-05 Special Patch List

SRX-05 Special Patches are patches that can be used only if the SRX-05 "Supreme Dance" wave expansion board is installed in the MC-909.

<u>No.</u>	Name	<u>No.</u>	Name	<u>No.</u>	Name	<u>No.</u>	Name
313	SRX05 SupSaw	331	MG Tri Solo	349	Twilight	367	080:BladeBt
314	Oct SuperSaw	332	SynVox Ld	350	TranceWarmer	368	093:R&Bees
315	Rave Saws	333	Vib Sine 2	351	5th PianoPad	369	096:RugBurn
316	KrasheadSaws	334	Pulsing Saws	352	FM HouseBs /	370	120:Clubbin
317	Saw Stack	335	PulsingSaws2	353	SH Rubber Bs	371	135:X Racer
318	Saws&Pulses	336	SyncroSaws	354	SynBs Slide	372	LoFi Tre EP
319	Super 5th	337	LFO Dance	355	SqrResoSwpBs	373	BPF Clavi
320	Reso Saw 5th	338	Crawl Pulse	356	LFO Bass	374	JUNO-D Bell
321	Drain-O	339	FilSweep Pls	357	FingerE.Bs /	375	Square Bell3
322	Brow Out	340	JunoUnisnSEQ	358	Piano Hit	376	High Dist Ld
323	Andes 909	341	Oct Sqr SEQ	359	Organ Hit 5	377	ShredFuzzGtr
324	PnoStack 909	342	JU2 Saw SEQ	360	Aah Hit	378	Dance Str 2
325	Northern EP	343	Seq 909	361	Sand Hit	379	DanceStrings
326	Unison Lead	344	BPF Sweep 2	362	OldBrass Hit	380	StrChd Min11
327	FM Lead	345	SawStrings	363	Ring FX 1	381	StrChd Min 9
328	Noise Lead	346	Panning Saws	364	Ring FX 2	382	Saw Brass
329	Belly Lead	347	UndrWater909	365	Tri Alarm	383	BPF Sax
330	Whistle Ld	348	FilSweep Pad	366	Noise Kick	384	ShmiSynth

SRX-05 Special Rhythm Set List

SRX-05 Special Rhythm Sets are rhythm sets that can be used only if the SRX-05 "Supreme Dance" wave expansion board is installed in the MC-909.

	board is installed in	the MC-909.			
Note No.	035: SRX05 TR-909	038: SRX05 Techno	041: SRX05 R&B	044: SRX05 FX	
59	909 DryKick3	PlasticKick2	R&B Kick 1	Bobs Slide	
	909 DryKick2	AnalogKick10	R&B Kick 2	Cave Hit	
C4 60	909 DryKick1	PlasticKick1	Dinky Kick 2	Thru Hit 2	
62	909 Dry SD5	TR909 SD 3	Dinky SD 2	Ripper L	
63	909 Dry SD2	Grim SD	Retro SD3	Tramp Hit	
64	909 SD&CLP	Layer SD5 mb	R&B SD 2	Cartn Fall	
	909 Dry RSht	Deviant RM3	Deviant RM1	Nz Pass	
⁶⁵ 66	909 Dry Clap	Claptail	Real Clap	Thumpkin	
67	909 Dry LTom	MG S Zap 1	WindChime Up	Dist Slide	
67	909 Dry MTom	Electric Saw	Long Triangl	Cartn Boing1	
69	909 Dry HTom	US SweepD L3	Long Triangl	Electronica	
70	909 Dry CHH1	TR909 CHH 1	Miami CHH	Electric Saw	
71	909 Dry CHH3	TR909 PHH 1	Mosaic CHH 1	Howl Sync	
	909 Dry OHH2	TR909 OHH 1	Miami OHH	PercolateHit	
C5 72	909 Dry CR 2	909 Dry CR 2	Pop Crash2	Metal Atk Hi	
73	909 Dry RD2	Pop ChinaCym	PopRideCym 3	Metal Atk Lo	
74	505 DIY HD2	P op ChinaCym	r oprideCylli S		
	036: SRX05 TR-808	039: SRX05 House	042: SRX05 Elctro		
59	808 DryKick5	909 DryKick3	LoBit Kick 1		
C4 60	808 DryKick4	TR909 Kick 7	Livn Kick		
61	808 DryKick3	909 DryKick1	SH2 U Zap 6		
62	808 Dry SD1	TR909 SD 1	Sim Snare		
63	808 Dry SD2	909 Dry SD4	707 Dry SD1		
64	808 Dry SD3	TR909 SD 3	106 SD2		
	808 Dry RSht	Basis Rim	Lo-Bit CStk		
65	808 Dry Clap	Club Clap	Old Clap		
66	808 Dry Clvs	HiConga Opn	Sim5 Tom4S		
67 68	808 Dry Mrcs	LoConga Opn	Sim5 Tom2S		
69	808 Dry Cwbl	Tmbl Hi	Sim5 Tom1S		
70	808 Dry CHH	909 Dry CHH1	Urban CHH		
71	-	-			
	808 CI&OpHH	909 Dry CHH3	Pedal Hat 1		
C5 72	808 Dry OHH3	909 Dry OHH1	Pop Hat Open		
73	808 Dry Cym1	909 Dry CR 2	MG Nz Cym		
74	808 Dry Cym3	909 Dry RD2	US Nz Cym		
	037: SRX05 TR-707	040, CDX05 Hinkler	043: SRX05 Perc		
		040: SRX05 HipHop			
59	707 DryKick1	Old Kick 2	HiBongo Opn		
C4 60	707 DryKick2	Vinyl Kick	LoBongo Opn		
61	707 DryKick2	Boys Kick	HiConga Opn		
62	707 Dry SD1	HipHop SD 1	LoConga Opn		
63	707 Dry SD2	Filter SD3	Tmbl Hi		
64	707 Dry SD1	RegularSnrMF	Tmbl Hi Flm		
	707 Dry RSht	Deviant RM2	Real Shaker1		
65 66	707 Dry Clap	Hip Clap	Real Cabasa3		
	707 Dry LTom	TablaBayam 1	Short Guiro2		
67	707 Dry MTom	Scratch 6	Long Guiro2		
69	707 Dry HTom	Warp Hit 3	St. FgSnap		
69 70	707 Dry CHH	Hipping CHH	GospelClap		
71	707 Dry CHH	Hip PHH	Cwbl Hi		
C5 72	707 Dry OHH	HipHop OHH	Cwbl Lo WindChime Lin		
- 73	707 Dry CR	Pop Crash1	WindChime Up		
74	707 Dry RD	PopRideCym 2	WindChime Dn		

sampling groovebox (Sound Generator Section)

MIDI Implementation Chart

	Function	Transmitted	Recogn	ized	Remarks
Basic Channel	Default Changed	x 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 0	0 0		
After Touch	Key's Channel's	x o	0 0	* 1 * 1	
Pitch Bend	b	0	0	* 1	
Control Change	0, 32 1 5 6, 38 7 10 11 16 18 19 64 65 66 68 71 72 73 74 75 80 81 82 83 84 91 1–3, 33–95*3 98, 99 100, 101	0 *1 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*1	Bank select Modulation Portamento time Data entry Volume Panpot Expression General Purpose Controller 1 General Purpose Controller 3 General Purpose Controller 4 Hold 1 Portamento Sostenuto Legato Foot Switch Resonance Release Time Attack Time Cutoff Decay Time General Purpose Controller 5 General Purpose Controller 5 General Purpose Controller 7 General Purpose Controller 8 Portamento control General Purpose Effect 1 NRPN LSB, MSB RPN LSB, MSB
Program Change	: True Number	O *1	0 0–127	*1	Program No. 1–128
System Ex	clusive	0	0	*1	
System Common	: Song Position : Song Select : Tune Request	x x x	X X X		
System Real Time	: Clock : Commands	X X	O X		
Aux Messages	: All Sound Off : Reset All Controllers : Local On/Off : All Notes Off : Active Sensing : System Reset	X *4 X *4 O *4 O *1 X	X 0 (123–127)		
Notes		 * 1 O X is selectable. * 2 Recognized as M=1 * 3 The settings are cha * 4 Transmitted only who 	ngeable.		

sampling groovebox (Sequencer Section) Model MC-909

MIDI Implementation Chart

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1–16 X	1–16 X	There is no basic channel.
Mode	Default Messages Altered	X X	X X	
Note Number :	True Voice	0–127 *****	0–127 0–127	
Velocity	Note On Note Off	0 0	0 0	
After Touch	Key's Channel's	0 0	0 0	
Pitch Bend	I	0	0	
Control Change	0–119	0	0	
Program Change	: True Number	O ****	0 0–127	
System Ex	clusive	0	0	
System Common	: Song Position : Song Select : Tune Request	O ** X X	I O *2 X X	
System Real Time	: Clock : Commands	0 ** 0 **		
Aux Messages	: All Sound Off : Reset All Controllers : Local On/Off : All Notes Off : Active Sensing : System Reset	0 0 X 0 X X	4 O (123–127) *4 X	
Notes		*3 Recognized only when Sy *4 Mode messages (123–12	nc Mode is SLAVE or REMOTE.	ote Off processing is performed.

Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO

O : Yes X : No

Index

Α

	()
Alter Pan Depth	
AMP	122
Amp	62, 75
Amp Env	
Arpeggiator	
Arpeggio Sync Mode	127
Assign Type	
Auto Chop	118
Auto Sync	
Auto Trigger	112
Auto Trigger Level	113
~~	

В

Back Ground Picture	127
Bend Range	67
Bias	62
Booster	67
Booster Gain	66
BPM	
BPM Lock	128

С

Card)
Change Duration 45	
Change Velocity 45	
СНОР 118	;
Chord Memory 32	
Clear	
step 84	
COMBINE)
Compressor 89)
Сору	
file	
patch tone78	;
pattern 44, 49)
rhythm tone 78	;
song 84	
Create Patch 117	1
Create Rhythm 119)
CUT + RESO	,
Cutoff Frequency 59, 73	;

D

=	
D Beam	30
D Beam Controller	35
D Beam ID 12	27
Data Thin	46
Delete	
file 13	34
sample	24
step 8	34
Delete Measure	
DIMM 19, 14	46

E Edit

Edit	
patch	
pattern	
rhythm	
sample	
song	
Edit Quantize	
EMPHASIS	
Envelope	
amp	
filter	
pitch	
Erase	
pattern	
sample	
External Source Select	
Extract Rhythm	
,	

F

Factory Reset	
FAT	
File Utility	
Filter	
Filter Env	
Filter Type	
Format	
Frequency Cross Modulation	
FXM	
	-

G

Gap Time	113,	129
Groove Template		. 46

| Initiali

memory card1	34
patch	78
rhythm set	
Input Select	12
Insert Measure	45
Insert Step	84

Κ Κε

Keyfollow	
Amp Envelope Time	
Cutoff	60
Filter Envelope Time	61
LFO Delay	
Pitch Envelope Time	
Tone Pan	
Wave Pitch	

L

LCD CONTRAST	
Legato	65
LFO	
LFO Rate	64
LFO Waveform	64
Loop Mode	116
Low Frequency Oscillator	54

Μ

Mastering	108
MATRIX CTRL1	68
Memory	
Memory Card	6, 19
Menu	125
Sample Edit	124
metronome	25
MFX	
2Vo PITCH SHIFTER	103
AUTO PAN	
AUTO WAH	
COMPRESSOR	100
DISTORTION	
ENHANCER	
FBK PITCH SHIFTER	103
GATE	101
GATED REVERB	104
GUITAR AMP SIM	
HEXA-CHORUS	
HUMANIZER	
ISOLATOR	
LIMITER	
LOFI COMPRESS	
LOFI NOISE	
LOFI RADIO	
LOW BOOST	
MODULATION DELAY	
MULTI TAP DELAY	
OVERDRIVE	
PHASER	
PHONOGRAPH	
QUADRUPLE TAP DELAY	
REVERSE DELAY	
RING MODULATOR	
ROTARY	
SHUFFLE DELAY	
SLICER	
SPACE-D	
SPECTRUM	
STEP FILTER	
STEP FLANGER	
STEP PHASER	
STEREO CHORUS	
STEREO DELAY	
STEREO DELAT	
STEREO EQ STEREO FLANGER	
JIEREU FLAINGER	

STEREO PHASER	
SUPER FILTER	
ТАРЕ ЕСНО	
TELEPHONE	
TIME CONTROL DELAY	
TIME SKIP DELAY	
TREMOLO	
TREMOLO CHORUS	
TRIPLE TAP DELAY	
Microscope	48
MIDI	127
Sync Mode	127
Sync Output	127
Mix În	
Mono/Poly	
Move	
file	
Multi-Effects	
Multi-effects	
Mute	
Mute Group	

Ν

NORMALIZE	121
	141

Ρ

Pad Velocity	127
Part Mixer	
Patch	151
Patch Coarse Tune	
Patch Fine Tune	
Patch Level	
Patch Priority	
Pattern Call	
Pattern Mode	
Pitch	
Pitch Env	59, 72
play	
pattern	
song	
Portamento	
Pre Sample Time	112, 129

R	
RANDOM MODIFY	56
Random Pan Depth	62
Random Pitch Depth	57
Random pitch depth	
Realtime Erase	39
Realtime erase	39
Realtime Modify	33
Realtime recording	
Reclock	

Index

Decording	
Recording	
pattern	
song	83
Recording Cancel	
Rehearsal	
Resonance	60, 73
Reverb	90
Rhythm Set Level	
Rhythm Tone Coarse Tune	
Rhythm Tone Fine Tune	
Rhythm Tone Level	
Rhythm Tone Output Assign	
Rhythm Tone Pan	
Rhythm Tone Reverb Send Level	
Ring Modulator	
RPS	28, 160, 162
RPS Trigger Quantize	

S

•
Sample List 115
Sample Memory 19
Sampling 109, 129
Sampling Length 113
Save
patch
pattern
rhythm set
sample 123
song
Saving 50
Screen Saver 127
Sequencer 127
Sequencer Output Assign 55
setup parameter
Shift Clock 45
SmartMedia 6, 19
SMF
import 131
save
SOLO SYNTH
Song Loop Mode 128
Song Mode
Song Play Mode 128
Song Step Switch 128
Step recording 41
Stop Trigger 112
Structure Type
Sync Mode 127
Sync Output 127
System
•

Т

TAP	. 25
Tap Resolution	
Tempo/mute recording	42

TIME STRETCH	121
Time Variant Amplifier	54, 70
Time Variant Filter	
TMT	66
Tone Coarse Tune	57
Tone Delay	
Tone Envelope Mode	
Tone Fine Tune	
Tone Level	
Tone Mix Table	66
Tone Pan	
Transpose	45
Trigger Level	
Trimming Switch	
TR-REC	
Truncate	
TTE Slider Type	127
TURNTABLE	
Turntable emulation	
TVA	
TVF	54, 70

U

Undo	
Unison	
USB	
User Area	
User Backup	
User Restore	

V

Velocity pads	27
V-LINK	137

W

Wave	57, 71
Wave Coarse Tune	72
Wave Fine Tune	72
Wave Gain	57
Wave Generator	54, 70
Wave Group	57, 71
Wave Level	75
Wave Mix Table	
Wave No.	57, 71
Wave Pan	75
Waveform Morphing	56
WG	
WMT	

Ζ

Zoom In/Out 114	1
-----------------	---

Specifications

MC-909: Sampling groovebox

Sound Generator Section

Maximum Poliphony	64 voices
	(shared with sampling section)
Sampling Frequency	44.1 kHz
Parts	16 (Main) + 16 (RPS)
Waves	693
Patches	
Preset	800
User	256
Card	256
Rhythm Set	
Preset	72
User	128
Card	128

Sampling Section

Data Format 16-bit linear (File Type: WAV/AIFF) Maximum Poliphony Sampling Frequency

shared with sound generator section 44.1 kHz (fixed)

Maximum Sampling Time

• Internal memory (16 MB) only mono: 180 sec. approx. (stereo: 90 sec. approx.)

• with DIMM (256 MB) mono: 51 min. approx. (stereo: 25.5 min. approx.) Samples

2,000 User Card 7,000 (128 MB SmartMedia)

Sequencer Section

Sequencer Section	
Parts	16 + Tempo/Mute Control
Resolution	480 ticks per quarter note
Tempo	5–300
Maximum Note Storage	approx. 1,300,000 notes
Patterns	
Preset	215
RPS	440
User	200
Card	999
Recording Mode	Realtime, TR-REC, Step
Songs	50
Arpeggio Style	
Preset	128
User	128
Chord Memory	
Preset	64
User	128
RPS Set	50
Pattern Set	50
Effects Section	
Reverb	1 (4 types)
Compressor	1 (1 type)
Multi-effects (MFX)	2
	(MFX1: 38 types)
	(MFX2: 47 types)
Pitch Shifter	
(for external input)	1 (1 type)
Mastering Section	

3-bands Compressor 1 (1 type)

Specifications

Expansion Slot

Wave Expansion Board SRX Series: 1 slot DIMM: 1 slot

Number of pins: Speed:

Voltage: Capacity: 168-pin 100 MHz (PC100 CL=2) 133 MHz (PC133 CL=3) 3.3 V 128 MB 256 MB 38 mm or less

External Memory

Board height:

SmartMedia card: 1 slot 8MB/16MB/32MB/64MB/128MB (3.3V)

Controllers, **Display**

Display QVGA LCD BPM Diplay: 7 segment 4 character (LED) Control Knob Pitch: 1 (FINE TUNE/COARSE TUNE) Filter: 2 (CUTOFF, RESONANCE) LFO 1: 2 (DEPTH/RATE, WAVEFORM) Sound Others: 3 (FAT, RANDOM MODIFY, MATRIX CONTROL 1) Effects: 3 (TYPE, C1, C2) Mastering: 2 (Attack, Release) **OUTPUT Volume: 1** INPUT Volume: 1 Control Slider Envelope: 13 (Pitch/Filter/Amp) Part Mixer: 8 Turntable Emulation (100 mm): 1 Other Controllers Twin D Beam Controller Velocity Pads

Connectors

MIX OUTPUT Jack (L (MONO), R) DIRECT 1 OUTPUT Jack (L (MONO), R) DIRECT 2 OUTPUT Jack (L (MONO), R) IPUT Jack (L (MONO), R) Headphones Jack MIDI Connectors (IN, OUT) USB Connector Digital Audio Interface IN/OUT (OPTICAL, COAXIAL) AC Inlet

Power Supply

AC 117 V, AC 230 V, AC 240 V

Power Consumption

20 W

Dimensions

491 (W) x 386 (D) x 123 (H) mm 19-3/8 (W) x 15-1/4 (D) x 4-7/8 (H) inches

Weight

6.0 kg 13 lbs 4 oz

Accessories

Quick Start Owner's Manual Sample Data (Audio) CD Power Cord Card Protecter

Options

Wave Expansion Board: SRX Series

- * A separate publication titled "MIDI Implementation" is also available. It provides complete details concerning the way MIDI has been implemented on this unit. If you should require this publication (such as when you intend to carry out byte-level programming), please contact the nearest Roland Service Center or authorized Roland distributor.
- * In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

176

Error Message List

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	Cause/Action
Beat Differs!	While using the Pattern Edit operation Copy, the copy	You must copy between patterns that have the same time
	could not be executed since the copy-source and copy-	signature.
	destination patterns have differing time signatures.	
	The imported SMF has a time signature that cannot be	Import SMF data with a time signature that can be played
	played by the MC-909, or has a changing time signature.	by the MC-909, and whose time signature does not change.
Cannot Assign	Since there are two or more unmuted parts, the phrase	Choose one part of the phrase that you want to register,
Phrase!	cannot be registered in an RPS set.	and mute all of the remaining parts (p. 28).
Cannot Edit Preset Sample!	This is a preset sample, and therefore cannot be edited.	
Cannot Extract!	When executing the Pattern Edit command Extract a	Specify a note number for which data exists in the move-
	Rhythm Instrument, the move-source part contained no	source part.
	data of the note number you specified by Extract Note.	
Card Not Ready!	A memory card is not inserted in the slot.	Insert a memory card into the slot.
Card Protected!	The write-protect sticker is affixed to the card.	_
Empty Pattern!	The pattern cannot be played since it contains no perfor-	Select a pattern that contains data.
	mance data.	Ī
Empty Sample!	The sample contains no data.	Select a sample that contains data.
Empty Song!	The song has not been recorded, and therefore cannot be	Select a song that contains data.
Empty cong.	played.	
Illegal File!	The MC-909 cannot use this file.	The MC-909 can use only audio files (WAV/AIFF format),
		SMF, and bitmap files.
Memory Damaged!	The contents of memory may have been damaged.	Please perform the Factory Reset operation (p. 20). If this
		does not resolve the problem, please contact your dealer or
		the nearest Roland Service Center.
Memory Full!	Saving is not possible because there is insufficient space in	Delete unneeded data.
(USER/CARD	the user area or memory card.	
Area Full!)	,	
MIDI Offline!	There is a problem with the MIDI cable connection.	Check that the MIDI cable has not been disconnected or
	1	broken.
No More Sample	The sample cannot be divided any further.	Delete unneeded samples (p. 124) in order to allocate 256 or
Numbers!	Since fewer than 256 consecutive sample numbers are va-	more consecutive sample numbers.
	cant, no further sampling is possible.	1
Now Playing!	Since the MC-909 is playing, this operation cannot be exe-	Stop playback before you execute the operation.
	cuted.	
Pattern Full!	Since the maximum number of notes that can be recorded	Erase unneeded data from the pattern you are recording
	in one pattern has been exceeded, no further pattern re-	(p. 49).
	cording is possible.	
Permission Denied!	The file is protected.	_
Sample Length Too	The sample is too short, and cannot be edited correctly.	If the sample is extremely short, editing may not produce
Short!	I I I I I I I I I I I I I I I I I I I	the desired result.
Sample Memory	Since there is insufficient sample memory, no further sam-	Erase unneeded samples (p. 124).
Full!	pling or sample editing is possible.	1 VI
Song Recording	Since the maximum number of patterns that can be re-	A maximum of 50 patterns can be recorded in one song. No
Full!	corded in one song has been exceeded, no further song re-	further patterns can be recorded.
	cording is possible.	r
Unformatted!	The memory card is in an unsupported format.	Format the memory card (p. 134).
Wrong Setting!	The pattern edit setting is incorrect.	Make the correct setting.
······································	ine partiti can betang is inconteet.	mane are correct octning.

MEMO

For FU Countries

This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

-For the USA -

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

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.

Information

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