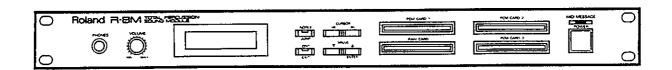
## Roland

## TOTAL PERCUSSION SOUND MODULE



**OWNER'S MANUAL** 





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). 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

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

- Read all the instructions before using the product.
- Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
- 3. This product should be used only with a cart or stand that is recommended by the manufacturer.
- 4. This product, 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 consult an audiologist.
- 5. The product should be located so that its location or position does not interfere with its proper ventilation.
- 6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
- 7. Avoid using the product where it may be effected by dust.
- 8. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

- 9. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
- 10. Do not tread on the power-supply cord.
- 11. Do not pull the cord but hold the plug when unplugging.
- 12. When setting up with any other instruments, the procedure should be followed in accordance with instruction manual.
- 13. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 14. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged;
  - B. Objects have fallen, or liquid has been spilled into the
  - product; or The product has been exposed to rain; or
  - The product does not appear to operate normally or exhibits a marked change in performance; or
  - The product has been dropped, or the enclosure damaged.
- 15. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

#### SAVE THESE INSTRUCTIONS

- For the U.K. --

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. GREEN-AND-YELLOW: EARTH, 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:

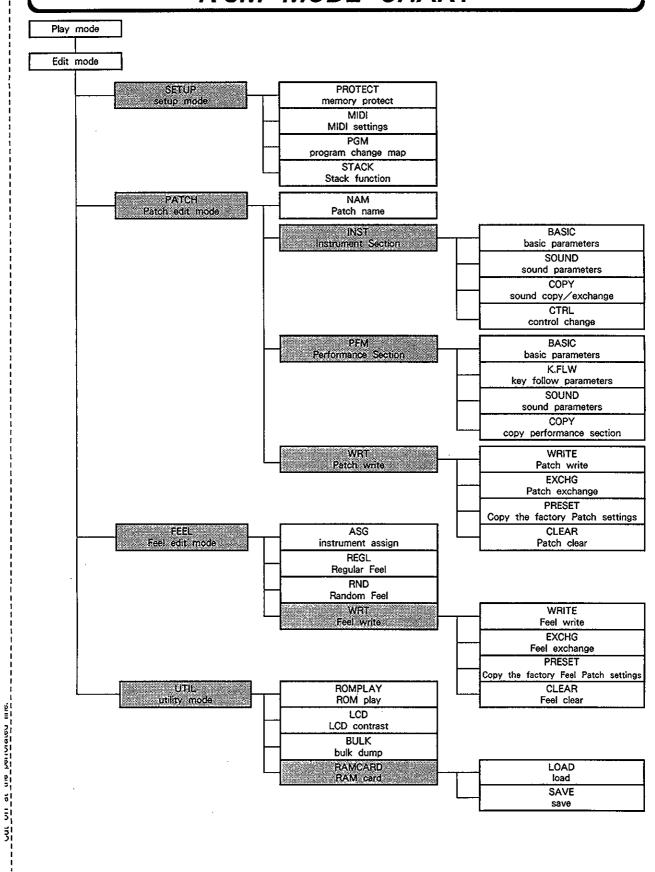
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN-AND-YELLOW.

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.

The product which is equipped with a THREE WIRE GROUNDING TYPE AC PLUG must be grounded.

## R-8M MODE CHART



## R-8M INSTRUMENTS

		<del>,</del>		
Instrument number	Display	Instrument name		
1	* DRY_K1	DRY KICK 1		
2	* DRY_K2	DRY KICK 2		
3	* WOOD_K1	WOOD KICK 1		
4	* DBLH_K1	DOUBLE HEAD KICK 1		
5	* DBLH_K2	DOUBLE HEAD KICK 2		
6	* SOLID_K	SOLID KICK		
7	* ROOM_K1	ROOM AMBIENT KICK 1		
8	* ROOM_K2	ROOM AMBIENT KICK 2		
9	* MONDO_K	MONDO KICK		
10	* WOOD_S1	WOOD SNARE 1		
11	* OPEN_\$1	OPEN SNARE 1		
12	* TIGHT_S	TIGHT SNARE		
13	* NICE_S1	NICE SNARE 1		
14	* FAT_S1	FAT SNARE 1		
15	* IMPCT_S	IMPACT SNARE		
16	* SNAP_S1	SNAP SNARE 1		
17	* OUCH_S	OUCH! SNARE		
18	* RVBS1	REVERB SNARE 1		
19	* PICL_S1	PICCOLO SNARE 1		
20	* RIMSHT1	RIMSHOT SNARE 1		
21	* RIMSHT2	RIMSHOT SNARE 2		
22	SIDSTK1	SIDE STICK 1		
23	SIDSTK2	SIDE STICK 2		
24	* DRY_T1	DRY TOM 1		
25	* DRY_T2	DRY TOM 2		
26	* DRY_T3	DRY TOM 3		
27	* DRYT4	DRY TOM 4		
28	* ROOMT1	ROOM AMBIENT TOM 1		
29	* ROOM_T2	ROOM AMBIENT TOM 2		
30	* R00M_T3	ROOM AMBIENT TOM 3		
31	* ROOMT4	ROOM AMBIENT TOM 4		
32	* POWR_T1	POWER TOM 1		
33	* POWR_T2	POWER TOM 2		
34	* POWR_T3	POWER TOM 3		

		l		
Instrument number	Display	Instrument name		
35	* POWR_T4	POWER TOM 4		
36	* DOOM_T1	DOOM TOM 1		
37	* * CLSD_H1	CLOSED HIHAT 1		
38	* * OPEN_H1	OPEN HIHAT 1		
39	PDAL_H1	PEDAL CLOSED HIHAT 1		
40	CRSH_C1	CRASH CYMBAL 1		
41	* * MLLTC1	MALLET CRASH CYMBAL 1		
42	* * RIDEC1	RIDE CYMBAL 1		
43	** RDBLC1	RIDE - BELL CYMBAL 1		
44	BELLC1	RIDE CYMBAL BELL 1		
45	808CLAP	808 HAND CLAP		
46	* OPEN_D1	OPEN DRUM 1		
47	* TAIKO1	TAIKO 1		
48	CLAVE1	CLAVE 1		
49	CABASA1	CABASA 1		
50	COWBEL1	COWBELL 1		
51	TAMBRN1	TAMBOURINE 1		
52	SHAKER1	SHAKER 1		
53	MUTE_CG	MUTE HIGH CONGA		
54	SLAP_CG	SLAP HIGH CONGA		
55	LOW_CG	OPEN LOW CONGA		
56	* * SLID_CG	SLIDE LOW CONGA		
57	AGOGO1	AGOGO 1		
58	* * OCT_AGG	OCTAVE AGOGO		
59	WHISTL1	WHISTLE 1		
60	WHISTL2	WHISTLE 2		
61	* * CAN1	CAN 1		
62	* * BACK_S1	BACK SNARE 1		
63	BACK_T1	BACK TOM 1		
64	BACK_C1	BACK CYMBAL 1		
65	* * SPARK1	SPARK 1		
	* * SURF	SURF		
66		WHEEL 1		
	* * WHEEL1	WHEEL 1		

<sup>\*</sup> Velocity or nuance settings will modify the sound.

<sup>\*\*</sup> Nuance settings will modify the sound.

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#### INTRODUCTION

Thank you for purchasing the Roland R-8M Total Percussion Sound Module. The R-8M is a digital rhythm sound module capable of producing high quality sounds.

In order to take full advantage of the R - 8M and enjoy long and trouble-free use, please read this manual carefully.

#### **HOW TO USE THIS MANUAL**

This manual is divided into the following five chapters.

If you are using MIDI for the first time, please read "About MIDI" (page 68).

#### Chapter 1 Try out the R - 8M

This explains how to hear the demonstration song in ROM, and how to play each of the instruments in the R - 8M.

#### Chapter 2 Before you modify the settings

This explains the organization and basic operation of the R - 8M. Please be sure to read this section before modifying the settings.

#### Chapter 3 How to modify the settings

This explains the functions of the various Patch, Feel Patch, and setup parameters, and describes how to modify them.

#### Chapter 4 Utility mode functions

This explains how to use a RAM card, transmit exclusive messages, and use other convenient functions.

#### Chapter 5 Appendix

This contains basic information about MIDI, advice for troubleshooting, parameter lists, and the MIDI implementation chart. The index included at the end can be referred to when you come across an unfamiliar word.

\*This manual will refer to panel buttons by the name printed on the panel. If a single button has two names, we will use the name that applies to the function being explained.

<Example> Edit/Exit button → EDIT

Note number/Jump button → NOTE #

#### **MAIN FEATURES**

- The 68 built-in instruments (drum sounds) are sampled at 44.1kHz with 16 bit dynamic range for high quality sound.
- In addition to adjustable pitch/decay/pan for each instrument, the nuance setting can be adjusted to simulate playing strength (for drum sounds), or striking position (for cymbal sounds). This allows detailed control over the tone.
- 32 different drum-sets, each containing instrument assignments and settings for each instrument, can be stored in the R - 8M as Patches. In other words, a single R - 8M allows you to create 32 different drum-sets. You can prepare a Patch appropriate for each song, and instantly change drum-sets by selecting another Patch.
- ROM cards (SN-R8 series sold separately) provide additional instrument sounds. The R - 8M allows you to use up to 3 of the sound ROM cards at once. They can be used freely in conjunction with the internal instruments to create a wide variety of drum-sets.
- ●The R-8M features the Feel Function which was highly acclaimed on the R-8. The Feel Function allows you to combine Regular Feel and Random Feel to realistically simulate the playing of an actual drummer. The R-8M can remember 16 different Feel Patch settings.

Regular Feel allows you to choose from two types; Groove, which modifies the sound in a regular pattern synchronized to MIDI Clock messages from an external device, and Velocity Feel, which modifies the sound according to the velocity value. Random Feel adds unpredictable variation to the sound. This does not simply modify the sound in a haphazard way, but creates natural variation in tone using the "1/f Fluctuations" that appears in many aspects of the natural world.

Simply by changing the Feel Patch settings, the same drum performance can be given a surprisingly wide range of expressive variation.

- A wide variety of MIDI functions are provided, allowing the R-8M to be used not only as a conventional rhythm sound module, but also as a melodic synthesizer. Control change message can also be used to control the sound of a specified instrument.
- A RAM card (M-256E sold separately) can store 32 Patches and 16 Feel Patches, in addition to the internal memory of the R-8M. RAM card Patches and Feel Patches can be selected instantly while playing.

## IMPORTANT NOTES

In addition to the items listed under Safety Precautions, on page 2, we request that you please read and adhere to the following.

#### [Power supply]

- Whenever you make any connections with other devices, always turn off the power to all equipment first. This will help in preventing malfunction, and damage to speakers.
- Do not force the unit to share the same power outlet as one used for distortion producing devices (such as motors, variable lighting devices). Be sure to use a separate power outlet.

#### [Placement]

- Placing the unit near power amplifiers or other equipment containing large transformers may induce hum.
- Should the unit be operated nearby television or radio receivers, TV pictures may show signs of interference, and static might be heard on radios. In such cases, move the unit out of proximity with such devices.
- Avoid placing the unit where it may be subject to direct sunlight, or where near devices that may emanate heat. Avoid confining it within a tightly closed car or other such places. Otherwise, the unit may become deformed or discolored.

#### [Maintenance]

- For everyday cleaning, wipe the unit with a soft dry cloth, or one that is dampened slightly. To remove dirt that is more stubborn, wipe using a mild, neutral detergent. Afterwards, make sure to wipe thoroughly with a soft cloth.
- Never apply benzene, thinners, alcohol or any like agents, to avoid the risk of discoloration and deformation.

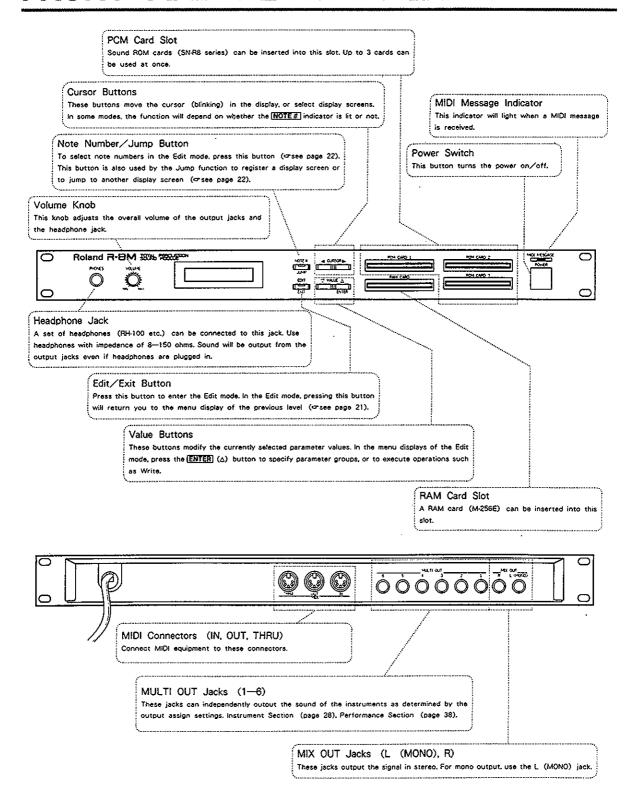
#### [Other Precautions]

- Protect the unit from strong impact.
- Never apply strong pressure to the display, or strike it in any way.
- A certain small amount of heat will be radiated from the unit, and thus should not be considered abnormal.
- Before using the unit in a foreign country, check first with your local Roland Service Station.

#### [Memory backup]

- Within the unit is contained a battery which serves in maintaining the contents of memory while the main power is off. The normal life of this battery is 5 years or more, but it is strongly recommended that you change it every 5 years as a rule. When it is time to change the battery, contact a Roland Service Station.
- \* The first time you need to change the battery could occur before 5 years have passed.
- Please be aware that the contents of memory may at times be lost; when sent for repairs or when by some chance a malfunction has occurred. Important data should be saved on RAM card, or written down on paper. During repairs, due care is taken to avoid the loss of data, however, in certain cases, such as when circuitry related to memory itself is out of order, we regret that it may be impossible to restore the data.

## FRONT AND REAR PANEL



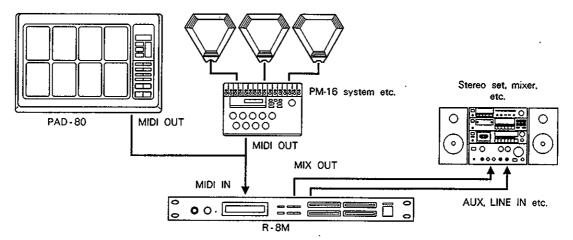
## Chapter 1

## Try out the R-8M

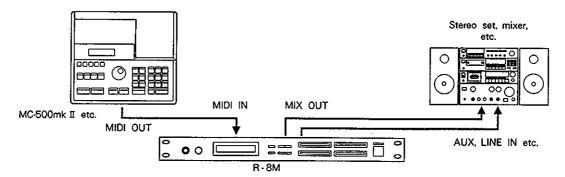
## 1 CONNECTIONS

Make the appropriate connections with your particular system. The following are examples of possible systems. If you are using MIDI for the first time, please read "About MIDI" ( page 68) before continuing.

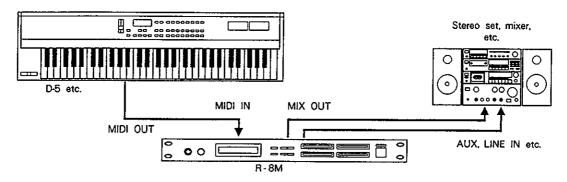
#### Using MIDI pad controllers



#### Using a sequencer



#### Using a keyboard controller



\*With the factory settings, all sounds will be output from the MIX OUT jacks.

If you want to output the sound from the MULTI OUT jacks, modify the output assign settings for each instrument (\$\sigma\$ see page 28).

## 2 HOW TO PLAY THE SOUNDS

Here's how to play the instruments that are built into the R - 8M.

#### 1. Turn the Power On

1 Make sure that all external equipment is connected correctly, and then turn the R - 8M on. The following display will appear. This is called the PLAY MODE.

```
PLAY (Standard)
P:I-01 F:OFF
```

2 Turn on the power of the connected equipment. Turn the amp power on last.

#### 2. Listen to the ROM Play Demonstration

The R - 8M includes one preset song that demonstrates its capabilities. The ROM PLAY function automatically plays this song.

To hear the song, use the following procedure.

1 Select the ROM play display.

Press EDIT (the indicator lights).

Use the CURSOR ◀ ▶ to select "UTIL" (blinks), and press ENTER

Use the CURSOR ◀ ▶ to select "ROMPLAY", and press ENTER



ESCAPE (Copyright @ 1989, Roland Corporation)

- 2 Use the volume knob to set the volume.
- ③ Use the CURSOR ► to select a song and press VALUE △ to start playback.
  - \*Each Sound ROM card (sold separately) also contains a song which uses the instruments in that card. #2---4 indicates the song numbers of the sound ROM card. If a card is not inserted, the display will read "????????". To playback a song from a sound ROM card, see page 13.
- ④ To stop during playback, press VALUE \(\overline{\nabla}\).
  If you press VALUE \(\overline{\nabla}\), play starts again from where you last stopped.
- To return to the Play mode hold JUMP and press EXIT (the indicator goes out).
  - \*During ROM play, the R 8M will not produce sound in response to incoming MIDI message. Nor will the ROM play data be transmitted from MIDI OUT.

\*When you playback a ROM play song, the Patches in the temporary area ( see page 17) will be restored to their unmodified settings. If you have modified Patch settings, your changes will be lost.

## 3. How to Play Each Instrument

Here's how to play each of the 68 internal instruments (drum sounds). Before you do so, set the transmit channel of the controller to match the receive channel of the R - 8M. With the factory settings, the R - 8M receive channel is set to 10, so set the controller to transmit channel 10.

#### Check the receive channel



To check the receive channel of the R - 8M, use the CURSOR to select the left display in the Play mode. The display will show the receive channel for each section, but for now, check only the receive channel of the Instrument Section.

#### Play the internal instruments

#### Play the sounds

When you play a note on the keyboard controller, the instrument corresponding to each key (note number) will sound.

If you are playing the sounds using a pad controller, play each sound by changing the note number transmitted by the controller.

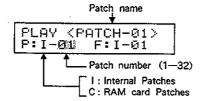
If you are playing the sounds from a sequencer, the musical data in the sequencer must match the instrument assignments of the R - 8M, or the wrong sounds will be played back. Before you playback the sequencer data, set the Instrument Section of the R - 8M to the rhythm note assignments of your sequencer. ( $rac{r}{r}$  see page 25).

#### How to select Patches

The R - 8M can store 32 drum-sets as Patches. A RAM card (M-256E) can store 32 more Patches. While playing, you can instantly select either internal or RAM card Patches.

Here's how to select Patches and play the drum sounds of each Patch. To select a Patch, use the following procedure while in the Play mode.

- \*For the factory Patch settings, refer to "Patch List" on page 84.
- \*In the factory set Patches, the stereo positions of the sounds (pan) are placed as seen from the viewpoint of a drummer. When playing these Patches, reverse the connections of the MIX OUT jacks L and R.
- ① Use the CURSOR Lto move to the Patch number display.



② Use VALUE △ ▽ to select an internal Patch (I-01—I-32), and play the sounds.

When using Patches from a RAM card, insert the RAM card firmly into the RAM card slot. Use the CURSOR ▶ to move to "I" (internal), and use VALUE ☑ ∇ to change this to "C" (card).

- \*Newly purchased RAM cards cannot be used as they are. When using a RAM card with the R 8M for the first time, refer to "Using a RAM Card" (\$\sigma\$ page 60).
- \*Patches can also be selected by incoming program change messages. Program numbers are user assignable (\$\sigma\$ see page 57).

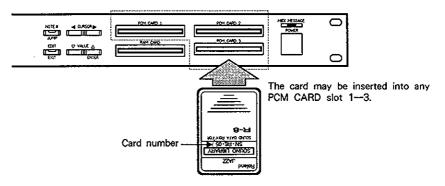
#### ■ Play the instruments of a sound ROM card

A ROM card (SN-R8 series) can increase the available number of instruments. Up to three cards can be used at once. Internal instruments and card instruments can be freely combined to create a Patch.

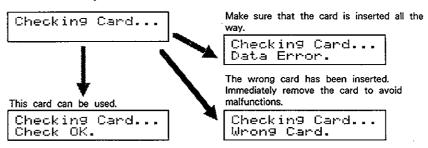
#### How to select instruments

To select instruments from a sound ROM card, use the following procedure.

Make sure that the sound ROM card is inserted correctly and firmly into one of the PCM CARD slots.



When a card is inserted, the R - 8M will check both the validity of the card and whether or not it has been inserted correctly.



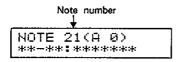
2 Move to the instrument assign setting display.

Press EDIT (the indicator lights).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "INST" and press ENTER.

Use the CURSOR ■ to select "SOUND" and press ENTER



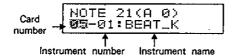
3 To select the note number, use the following procedure.

Press NOTE # (the indicator lights).

Use the CURSOR ■ to select a note number (21—108).

Press NOTE # (the indicator goes off).

Use VALUE △ ▼ to select the number of the inserted card.



\*When "I" is selected, internal instruments will be selected.

- ⑤ Use the CURSOR ▶ to move to the instrument number, and use VALUE △ ▽ to select the instrument.
- When the external controlling device transmits note messages for the displayed note number, the selected instrument will sound. Select the various instruments to hear how they sound.
- When you have finished listening to the instruments, return to the Play mode by holding JUMP and pressing EXIT (the indicator goes off).
  - \*While the display reads "Checking Card", the R 8M will not sound even when a MIDI message is received. If you insert a sound ROM card while a note is sounding, the sound will stop.

#### • Checking a sound ROM card

If instruments from a sound ROM card are assigned to any of the sections, you can check whether the necessary card is inserted by using the CURSOR in the Play mode to select the following display.

The display will show up to 3 card numbers of the ROM cards used by the Patch. If a sound ROM card used by the Patch is not inserted, that card number will blink.

< Example > When the card number 2 is not inserted

If fewer than 3 sound ROM cards are specified by the Patch, "--" will be displayed.

< Example > When only card number 1 is used

If more than 3 sound ROM cards are specified by the Patch, this will be displayed as follows.

#### ● ROM play



Each sound ROM card contains one ROM play song which uses the instruments of that card. To hear the ROM play song, insert the sound ROM card into a PCM CARD slot, and use step ③ of "Listen to the ROM Play Demonstration" ( resee page 9) to select the song. (The numbers will change in the order of the PCM CARD slot number.) The rest of the procedure is the same.

#### Selecting the Feel Patches

The Feel function changes the tone of the specified instruments to simulate the timbral changes that would naturally occur if a drummer were actually playing.

- \*For the factory Feel Patch settings, refer to "Feel Patch List" on page 115.
- \*The way in which the Feel Function works and the setting procedure is explained in detail in "Feel Function" ( see page 45).

#### Selecting a Feel Patch

Use the CURSOR to move to the Feel Patch number.

② Use VALUE △ ▼ to select an internal Feel Patch number (I-01—I-16).

To use a RAM card Feel Patch, insert the RAM card firmly into the RAM card slot. Use the CURSOR to move to "I", and use VALUE \( \overline{\nabla} \) to change it to "C". If you don't want to use a Feel Patch, set "I" to "OFF".

- \*Newly purchased RAM cards cannot be used as they are. If you are using a RAM card for the first time, refer to "Using a RAM Card" (presee page 60).
- \*Program change messages can be used to select Feel Patches from an external device.

  Program numbers are user assignable (rapse = 57).



## Chapter 2

## Before you modify the settings

## 1 ABOUT THE R-8M

This section explains how the sound source of the R - 8M is organized, as well as basic operation. Please read this section carefully before you actually modify any settings.

#### 1. Basic Principles of the R-8M

When using the R-8M, it is important to understand the relationship between the three basic functions; Section, Patch, and Feel Patch.

#### Section

A Section is a unit which can be used as an independent sound module. The R - 8M consists of 1 Instrument Section, and 4 Performance Sections. MIDI settings and settings specifying how the sounds will be produced can also be made independently for each section.

Normally it will be sufficient to use only the Instrument Section, but by using the Performance Sections as well, the R - 8M's possibilities can be expanded even further.

#### Instrument Section

This section is used for normal drum playing. You will specify one receive channel, and assign instruments to each note number to create a drum-set. It is also possible to modify the sound for each note number.

#### Performance Sections 1-4

Each of the four Performance Sections has its own receive channel setting, and can be used independently. You can specify instruments for each Performance Section, and specify how sound parameters (pitch/decay/nuance/pan) will change according to the note number.

For example, by using instruments such as bass, marimba, and/or vibraphone (when using a sound ROM card) and setting the pitch difference chromatically, you can play a melody from the keyboard. In addition, by using hi-hat or ride cymbals with different nuance or decay settings for each note number, you can play variations of the same instrument using different note numbers.

#### Patch

The combination of the Instrument Section and Performance Sections 1—4 is called a Patch. Internal memory can store 32 Patches. A RAM card can store 32 more Patches which can be selected during performance in the same way as internal Patches.

By preparing appropriate Patches for each instrument or song, you can select Patches during your performance to instantly change the R - 8M's drum-sets.

#### • Feel Patch

The Feel Function modifies the instrument tone specified for each section, simulating the natural variations in sound that occur when a real drummer performs.

There are two types of Feel Functions; Regular Feel, which modifies the tone according to velocity or by periodically modifying the tone in synchronization with the MIDI clock, and Random Feel, which randomly modifies the tone. By using the two in combination you can create the natural effects of tonal change. Internal memory can contain 16 Feel Patches, and a RAM card can contain 16 additional Feel Patches. Even for the same drum performance, simply changing the Feel Patches can result in a great difference.

#### 2. Memory Structure

The way in which the R - 8M operates will depend on the settings of various parameters. Settings for these parameters are stored in memory. The memory of the R - 8M is divided into the following areas; setup area, memory area, temporary area, and instrument area.

Setup area

The setup area contains parameters that affect the overall operation of the R-8M, such as MIDI message handling, memory protect, and program change map. Settings in the setup area are preserved even when the power is turned off.

Memory area

The internal memory area contains settings for 32 Patches and 16 Feel Patches. Settings in the memory area are preserved even when the power is turned off. Data in a RAM card is also treated as memory area data.

Temporary area

The temporary area is where Patch and Feel Patch setting are modified. When you select a Patch, the settings from the memory area will be read into the temporary area. Settings in the temporary area are preserved even when the power is turned off. However, when you select another Patch or Feel Patch, the settings will change and the previous settings will be lost.

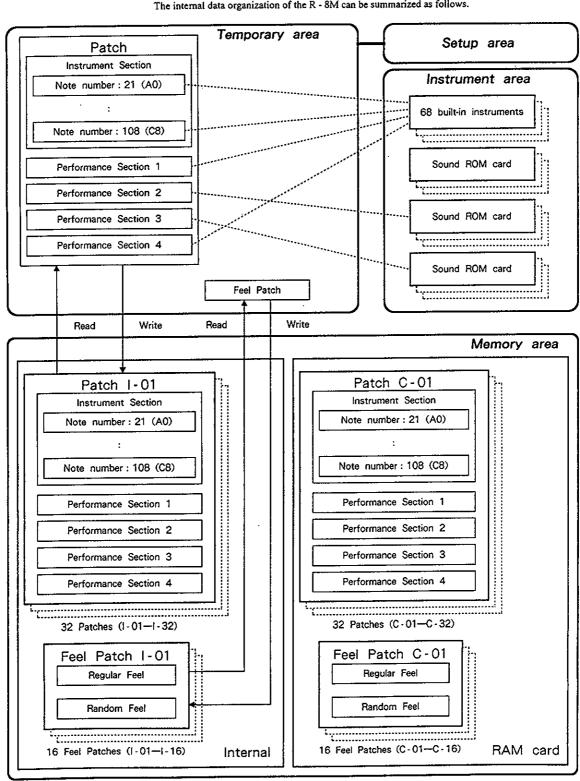
Instrument area

An instrument is the basic waveform data for a drum sound. The R-8M contains 68 different instruments in the instrument area. Instruments in a sound ROM card are also treated as instrument area data. The tone of each instrument can be modified by sound parameter settings, but this will not affect the waveform data itself.

When you play the R - 8M, the sound will be produced according to the settings of the setup area and the current settings of the temporary area. When you select a Patch, the settings of that Patch will be read into the temporary area. The same applies to Feel Patch.

\*When we say that the settings of the memory area are read into the temporary area, we mean that the settings of the memory area are copied into the temporary area.

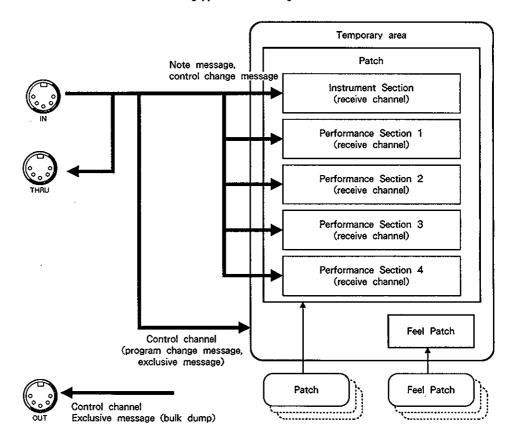
It is important to remember that when you modify Patch or Feel Patch settings, you are modifying the settings of the temporary area, not of the memory area. Settings of the temporary area are stored only temporarily, and will change when another Patch or Feel Patch is selected, so the previous settings will be lost. If you want to keep the settings of the temporary area, you must use the Write operation to store them into the memory area (internal or RAM card).



The internal data organization of the R - 8M can be summarized as follows.

## 3. MIDI Message Flow

The R - 8M uses the following types of MIDI message.



Each section has its own MIDI channel on which MIDI messages will be independently received. The receive channel of each section (resee page 25, 35) receives mainly note message and control change message. In addition, the Instrument Section receives control change message to control the sound of up to 9 specified instruments. In this way, each section can be used as an independent sound source. In addition to the receive channel of each section, there is also a control channel (resee page 55). The control channel receives program change message to select Patches or Feel Patches. You can use the program change map (resee page 57) to specify which Feel Patch or Patch will be selected by each incoming program number. The control channel is also used for reception and transmission of exclusive message.

## 2 BASIC OPERATION

### 1. Mode Structure

The R - 8M operates in two modes; the Play mode, where you will normally perform, and the Edit mode, where you modify Patch and Feel Patch settings. The Edit mode is broadly divided into the following four modes according to the function of each parameter, and subdivided further into several groups.

#### Setup mode

Memory protect  Set the memory protect switch that protects the Patch and Feel Patch se in internal memory.		P.56
MIDI Makes MIDI settings that affect the entire R-8M.		P.55
Program change map Specifies how incoming program numbers will select Patch or Feel Patch numbers.		P.57
Stack	Set this mode when you have connected two or more R-8M's to increase the number of simultaneously playable notes.	P.58

#### ● Patch Edit mode

Patch name	Specifies a name for a Patch.	P.40
Instrument section	Makes settings for the Instrument Section.	P.25
Performance section	Makes settings for the Performance Section.	P.35
Patch write	Uses the Write operation to store Patch settings.	P.40

#### • Feel Edit mode

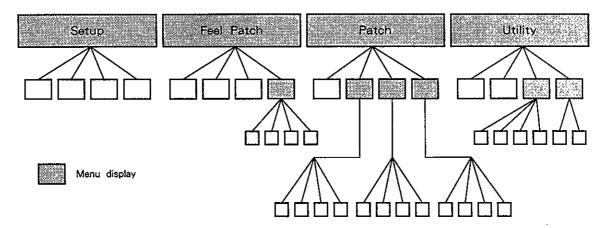
		1
Instrument assign	Selects instruments and parameters for which you wish to modify using the Feel Patch.	P.47
Regular Feel	Specifies Regular Feel.	P.48
Random Feel	Specifies Random Feel.	P.50
Feel write	Uses the Write operation to store Feel Patch settings.	P.51

#### Utility mode

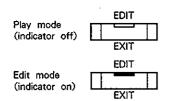
ROM play	Playback of the ROM play songs.	P.9
LCD contrast	Adjust the contrast of the display.	P.65
Bulk dump	Use this operation to transmit exclusive message to another MIDI device.	P.63
RAM card	Use these operations to save internal Patch or Feel Patch data to a RAM card.	P.60

## 2. Basic Operation of the R-8M

The Edit mode is organized in a branching structure by parameter groups, as shown in the following diagram. In the Edit mode, you will select a group from a menu display to move to the desired parameter display, and then modify the parameter. However, for displays other than parameter settings, the procedure will be different. For details, refer to the explanation of each item.



#### ● How to move between the Play mode and the Edit mode



When in the Play mode, press **EDIT**. The indicator will light and the R - 8M will be in the Edit mode.

To return to the Play mode, press **EXIT** several times until the indicator goes out. Or you can hold **JUMP** and press **EXIT** to instantly return from any display to the Play mode.

#### How to move to another display



When you enter the Edit mode, the display shown at left will appear. This is the menu display showing the (abbreviated) names of the four modes explained earlier.

Use the CURSOR to move to the mode name for which you wish to make changes, and press ENTER. When you press ENTER the display will change to the menu display for the next level. Repeat this procedure to select the desired parameter group.

In the Edit mode, each time you press **EXIT** you will return to the previous menu display.

Pressing **EXIT** several more times will return you to the Play mode.

#### How to modify parameter values

Example display: the receive channel setting for the Instrument Section

PATCH/INST/BASIC Receive Ch = 10 The various parameter setting displays will be as shown to the left. The upper line of the display will show the group selected in the menu displays. This lets you see which parameter group you are now working on.

● If a parameter group contains two or more parameters, use the CURSOR to move between parameters or displays.

- If a single display contains two or more parameters, use the CURSOR ▶ to move to the value you wish to modify.
- Use VALUE △ ▽ to modify the parameter values. When you press ▽ the value will decrease, and when you press △ the value will increase. If you continue pressing either button, the value will change continuously. If you press △ (or ▽) while holding ▽ (or △), the value will change more rapidly.

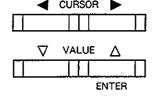
#### ● How to use NOTE#

Normally the CURSOR | buttons are used to select parameters. When editing the parameter groups shown in the following table, however, you must press NOTE # (the indicator will light) so that the buttons function differently.

Press NOTE # once again (the indicator will go off), and operation will return to normal.

Parameter group	Button function
Feel (instrument assign, regular feel, random feel)	Select set numbers in the Feel Patch
Patch / Instrument Section (control change)	Select control change types
Patch / Instrument Section (sound parameters)	Select note numbers
Patch/Performance Section (basic parameters, key follow parameters, sound parameters)	Select Performance Sections

#### The Jump function



This function allows you to instantly move to a display which has previously been assigned to a specific button.

A display can be assigned to each of the CURSOR  $\blacksquare$  and VALUE  $\triangle$   $\bigcirc$  buttons. You can jump to the assigned display at any time. By assigning these buttons to jump to the displays for frequently-used functions, you can speed up editing operations.

#### • How to assign a display to a button

- 1 Move to the display you wish to assign.
- 2 Press and hold JUMP until the JUMP indicator begins blinking.
- ③ Press the button (CURSOR ◀▶ or VALUE △▽) you wish to assign this display to.
  - \*To quit without assigning, press JUMP once again.

#### How to jump to an assigned display

While holding JUMP press the button to which the display has been assigned, and you will move to that display.

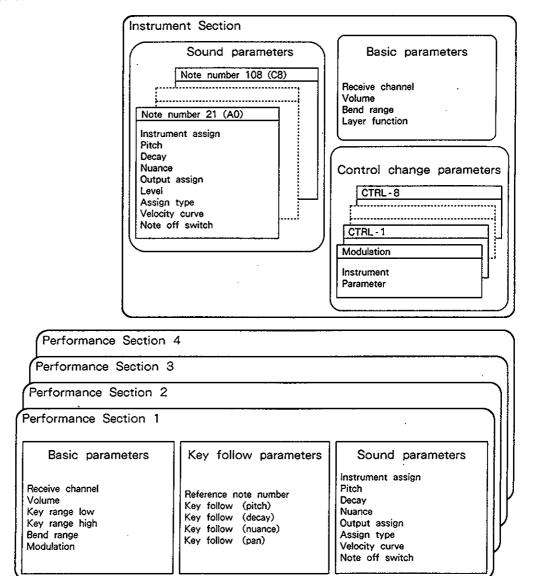
\*Press the assigned button before the JUMP indicator begins blinking.

## Chapter 3

# How to modify the settings

## 1 PATCH

Each Patch contains the following parameter settings. Set the parameters of each section according to the MIDI equipment you are using and your musical situation.



Select a Patch ( resee page 10) and modify its settings to create an original Patch. When you modify the settings of a Patch, an " \* " will be displayed when you return to the Play mode display.

- \* If you want to keep your modified Patch settings, you must use the Patch Write operation ( see page 41).
- \* If you want to create a Patch from scratch, you can use the Clear operation. This initializes all settings in the temporary area (\$\sigma\$ see page 44).

#### 1. Instrument Section

In the Instrument Section you can assign instruments to each note number (21—108) and edit them as shown below.

#### Basic parameters

These parameters will affect the entire Instrument Section. The following basic parameters are provided.

●Receive channel: 1—16

PATCH/INST/BASIC Receive Ch = 10 This determines the MIDI Receive channel. Note message, pitch bender message, and control change message will be received on this channel.

●Volume: 0-127

PATCH/INST/BASIC Volume = 127 This determines the overall volume of the entire Instrument Section. As you increase the value, the volume will become louder. At a setting of 0 there will be no sound.

\*This value can be modified by incoming MIDI volume message (control number 7) (\$\sigma\$ see page 55).

●Bend range: 0—12 (1 octave in units of a semitone step)

PATCH/INST/BASIC Bend Range = 12 This determines the range over which pitch bend message will control the pitch of an instrument. This value specifies the change in pitch that will occur when the bender lever is moved all the way. When this is set to 0, the bender lever will have no effect.

\*The bender switch determines whether or not pitch bender message will be received (\$\sigma\$ see page 55).

●Layer function: ON, OFF

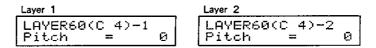
PATCH/INST/BASIC Layer =OFF The Layer function allows the two instruments to be simultaneously sounded by a single note message. When you turn the Layer function ON, note message for note numbers 29(F1)—60(C4) will simultaneously sound the two instruments. The R - 8M will not sound when note message for 77(F5)—108(C8) is received.

For example you might assign the same instrument to one note numbers, and slightly detune the pitch of the two instruments so that they will be played together to create a richer sound. Other interesting effects can be obtained by layering instruments.

Layer function: OFF

	21—108					
Layer fur	Layer function: ON					
21—28	21-28   29-60(sounded together with instruments 77-108)   61~76   77-108 (not sounded)					
	77—108					

If you turn the Layer function ON, displays for layers 1 and 2 will appear when you edit sound parameters for note numbers 29—60.



\*When the Layer function is turned off, the parameter value in Layer 2 will be copied to that of the corresponding note number 77—108, for example above, Layer 60-2 to note number 108.

#### [Setting procedure]

1 Move to the display for setting the basic parameters (Instrument Section).

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "INST" and press ENTER

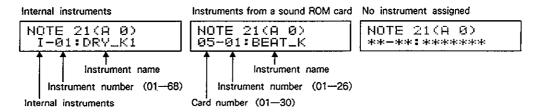
Use the CURSOR ◀ ▶ to select "BASIC" and press ENTER

- ② Use the CURSOR ▶ to select the parameters and use VALUE △ ▽ to set the values.
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

#### Sound parameters

These parameters assign an instrument to each note number (21—108), and modify the sound of each assigned instrument.

#### •Instrument assign



These settings assign an instrument to each note number. After selecting either I, or 01-30 (card number), select the number for the desired instrument (  $rac{r}$  see page 76). If the instrument is not assigned, set the left value (I, 01-30) of the display to " \* \*".

\* The sound chart included with the card will list the instruments in that card. If you specify an instrument number which is not listed in the sound chart, there will be no sound.

If you specify a card instrument when there is no sound ROM card, the following display will appear, but you will be able to set sound parameters. If you insert the specified sound ROM card when playing, the R - 8M will sound as specified.

NOTE 21(A 0) 03-01:???????

\* If you change instrument assignments, the sound parameters of that note number will be set to the initial settings (pr see page 78).

●Pitch: -4800—+4800 cents (in 10 cent steps)

NOTE 21(A 0) Pitch = 0 This adjusts the pitch of the instrument. As you increase the value of the setting the pitch will become higher.

\*For some instruments, settings higher than a certain value may have no effect.

●Decay: 0-127

NOTE 21(A 0) Decay = 4: 19 This adjusts the decay (time over which the sound decreases) of the instrument. As you increase the value of the setting the decay will become longer.

If the instrument allows you to set the nuance, the display will show two decay values. These specify the decay for each.

Low frequency components

High frequency components

Frequency

Instruments marked " \* " (kick, snare, tom, etc.) in the chart on page 76 allow you to set the decay independently for the attack component (high frequency component: the value at left) and the resonance component (low frequency component: the value at right).

This allows you to simulate different snare tensions for a snare drum, or the sound of a muted tom.



Instruments marked by " \* \* " (hi-hat, ride cymbal, etc.) in the chart on page 76 allow you to set the decay independently for the sound component when the cymbal is struck near the bell (the value at right) or near the edge (the value at left).

The two decay values give you control over fine shades of the tone.

When struck near the edge

\*For some instruments, decay will not change beyond a certain value. For reverse-type instruments (I-62, I-63, I-64), decay will have no effect.

#### ●Nuance: 0-15

NOTE 21(A 0) Nuance = 8 Instruments designated by "\*" or "\*\*" in the chart on page 76 allow you make subtle changes in the sound using the nuance setting.

For " \* " instruments, increased values will increase the low frequency component of the sound. For " \* \* " instruments, increased values will bring the sound closer to the bell sound of the cymbal.

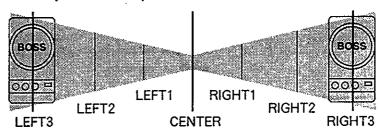
\*If the instrument does not allow you to set nuance, this display will not appear.

#### Output assign: LEFT1-3, CENTER, RIGHT1-3, MULTI1-6

NOTE 21(A 0) Out As9n= CENTER This selects the output jack (MIX OUT, MULTI OUT 1—6) from which the sound of the instrument will be sent.

If you are using the R-8M with a mixer, you can send each instrument from one of the MULTI OUT jacks and create complex mixes by adjusting the output balance or adding effects to specific instruments.

If you send the instruments from the MIX OUT jacks, the panning position (stereo position) can be adjusted over seven steps.



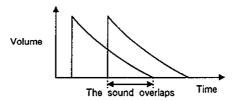
#### ●Level: 0-15

NOTE 21(A 0) Level = 15 This adjusts the volume of the instrument. As you increase the value, the volume will become louder. At a setting of 0 there will be no sound.

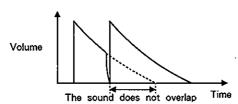
#### ●Assign type: POLY, MONO, EXC1-8

NOTE 21(A 0) Asgn Type = POLY This determines how the instrument will sound.

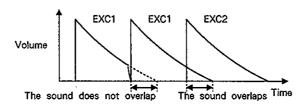
POLY: When sounds are triggered in succession, the most recently played notes will be added without affecting the previous sounds. Use this setting when you do not want to cut off the decay for instruments such as cymbals.



MONO: When sounds are triggered in succession, previously sounded notes will be turned off before the most recently played notes will sound.

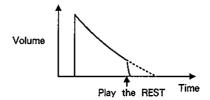


EXC1—8: Instruments of the same EXC number will not sound together. Use this setting when you do not want specific instruments to sound at the same time. For example, instruments such as an open hi-hat, and a closed hi-hat, which do not normally sound simultaneously can be set to the same EXC number.



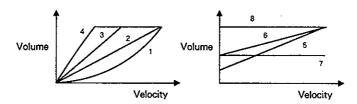
I-68 is a REST and therefore will produce no sound. It can be used with the assign type settings to choke or simulate gated drum effects.

For example, if you set the REST and the crash cymbal to the same EXC number and play the REST before the crash cymbal has finished decaying, the crash cymbal will be muted.



●Velocity curve: 1—8

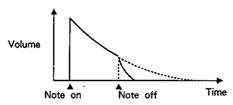
NOTE 21(A 0) Velo Curve = 2 Select one of the following 8 curves to determine how the velocity of the incoming note on message will affect the volume.



●Note off switch: ON, OFF

NOTE 21(A 0) Note Off Rx =OFF This determines whether or not "note off" messages (or "note on" messages with velocity of 0) will be received. Normally you will set this to OFF, but if you wish to use the "note off" message to mute a cymbal etc., set this to ON.

ON: When a "note off" (for the currently sounding note number) is received while the instrument is sounding, that sound will be muted. When the Velocity switch (= page 56) is set OFF, the note off velocity value will control the speed of decay.



OFF: The sound will not be muted even when a "note off" message is received.

[SETTING PROCEDURE]

Move to the sound parameter (Instrument Section) setting display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "INST" and press ENTER.

Use the CURSOR ◀ ▶ to select "SOUND" and press ENTER.

NOTE 21(A 0) I-01:DRY\_K1

2 Select the note number.

Press NOTE # (the indicator will light).

Use the CURSOR ▶ to select the note number (21—108).

Press NOTE # (the indicator will go out).

③ Use the CURSOR ▶ to select the parameter and use VALUE △ ♡ to set it.

\* To move to another note number, repeat step ②.

While pressing JUMP press EXIT to return to the Play mode (the indicator goes out).

You can specify the note number by transmitting a note message to the R - 8M from an external MIDI device. Press and hold **NOTE** # until the following symbol appears in the display. (Release the button before the **NOTE** # indicator begins blinking).

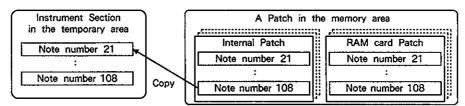
NOTE 21(A 0) [F] I-01:DRY\_K1

When this symbol is displayed, the displayed note number will change according to the note number received on the Receive channel of the Instrument Section. To return to normal operation, press and hold the NOTE # until the symbol disappears.

#### Convenient functions when setting sound parameters

#### Copy

This function copies note number (sound parameter) settings from a Patch (memory area) to the note number in the temporary area. This is convenient when you want to use the same settings as a previously stored instrument.



1 Move to the sound parameter (Instrument Section) copy display.

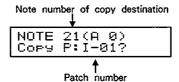
Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "INST" and press ENTER.

Use the CURSOR ■ to select "COPY" and press ENTER.

Use the CURSOR ■ to select "Sound Copy?" and press ENTER.



2 Select the note number of the copy destination (temporary area).

Press NOTE # (the indicator will light).

Use the CURSOR ■ to select the note number (21—108) of the copy destination.

Press NOTE # (the indicator will go out).

③ Use the CURSOR ◀ ▶ to select the Patch which contains the instrument which you wish to copy, and press ENTER.

Select from I-01—I-32 (internal Patches) or C-01—C-32 (RAM card Patches).

Use the CURSOR ■ to select the note number (21—108) of the instrument you wish to copy.

5 Press ENTER and the data will be copied.

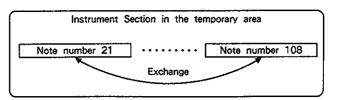
To quit without copying, press **EXIT**.

If you want to copy settings from another note number, repeat steps 2-6.

6 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

#### Exchange

This function exchanges the settings of two specified note numbers (sound parameters) in the temporary area. This is convenient when you want to swap two instruments.



1 Move to the exchange display for sound parameters.

Press **EDIT** (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ■ to select "INST" and press ENTER

Use the CURSOR ◀ ▶ to select "COPY" and press ENTER.

Use the CURSOR ◀ ▶ to select "Sound Exchange?" and press ENTER.

2 Select the note number you wish to exchange.

Press NOTE # (the indicator will light).

Use the CURSOR ■ to select the note number (21—108).

Press NOTE # (the indicator will go out).

- ③ Use the CURSOR ◀ ▶ to select the other note number (21—108).
- Press ENTER to exchange the data.

To quit without exchanging press **EXIT** 

If you want to exchange the settings of other note numbers, repeat steps ②—④.

(5) While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

#### Control Change settings

The Control Change functions allow you to use control change message, such as modulation or hold, to create musically expressive performances. The Instrument Section can use control change message to control up to 9 specified types of instrument parameter.

Type of control change		Control number	Selectable parameters
CTRL-1 CTRL-2 CTRL-3 CTRL-4 CTRL-5 CTRL-6 CTRL-7	(modulation) (general purpose controller 1) (general purpose controller 2) (general purpose controller 3) (general purpose controller 4) (general purpose controller 5) (general purpose controller 6) (general purpose controller 7) (general purpose controller 7)	1 16 17 18 19 80 81 82 83	PITCH DECAY NUANCE PANPOT

- \*Some MIDI equipment is not able to transmit control change message, or can transmit only specific control change message. Consult the manual for your MIDI device.
- \* Unused control numbers can cause problems, so set these instruments to " \*\*-\*\*".
- \*Pitch cannot be selected for CTRL-5—8.
- \*When the pan switch ( resee page 55) is ON, pan will be controlled by control number 10, so pan settings for Modulation or CTRL-1—8 will be ignored. If control number 10 is used to control the panning of the Instrument Section, the all instruments of the Instrument Section will be panned together.

#### [SETTING PROCEDURE]

1 Move to the control change message setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ■ to select "INST" and press ENTER.

Use the CURSOR ◀ ▶ to select "CTRL" and press ENTER.

Type of control change

PATCH/INST/MOD
I-57: AGOGO1

2 Select the type of control change.

Press NOTE # (the indicator will light).

Use the CURSOR \[ \bigsit \] to select the type of control change.

Press NOTE # (the indicator will go out).

③ Use the CURSOR ▶ to move between the displays, and use VALUE △ ▽ to select the instrument or parameters.

To set other control numbers, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

If you want to use note messages from an external device to select instruments in the instrument select display, press and hold the **NOTE** # button until the following symbol appears in the display. (Release the button before the **NOTE** # indicator begins to blink.)

When a note message is received on the receive channel of the Instrument Section, the instrument which corresponds to the received note number will be selected. To return to normal operation, press and hold the **NOTE** # button until the symbol disappears.

\*If you press the **EXIT** button, this function will be canceled.

#### [HOW TO TRANSMIT CONTROL CHANGE MESSAGE]

Transmit control change message before a "note on" message. Once an incoming control change message has modified a data value, the sound will be produced using that value until another Patch is selected or another control change message is received.

# 2. Performance Section

Each of the four Performance Sections has its own receive channel setting, and can be used independently. You can specify instruments for each Performance Section, and specify how sound parameters (pitch/decay/nuance/pan) will change according to the note number.

\*For the Performance Section which is not used, set the sound parameter's instrument assign to OFF ( \* \*-\* \* ) ( page 38).

# Basic parameters

These are the basic parameters of each Performance Section. The following basic parameters can be modified.

●Receive channel: 1-16

PATCH/PFM1/BASIC Receive Ch = 1 This determines the MIDI Receive channel. Note message, pitch bend message, and control change message will be received on this channel.

●Volume: 0-127

PATCH/PFM1/BASIC Volume = 127 This determines the volume of each Performance Section. Higher values will result in a louder volume. At a setting of 0 there will be no sound.

\*This value can be modified by volume messages (control number 7) received from an external device (\$\sigma\$ see page 55).

●Key range low/high: C-(0) —G9 (127)

Key range low

PATCH/PFM1/BASIC Key Range L= C -

Key range high

PATCH/PFM1/BASIC Key Range H= G 9 This determines the range of notes that will be received by each Performance Section. Note message between the key range low (lower limit) and the key range high (upper limit) will be received. For example, you can set two or more Performance Sections to the same receive channel and set them to different key ranges so that different sounds can be played over different ranges.

●Bend range: 0—12 (1 octave in semitone step units)

PATCH/PFM1/BASIC Bend Range = 2 This determines the range of pitch change when using pitch bender message to control the pitch of an instrument. The value indicates the pitch change that will occur when the bender lever is moved fully up or down. At a setting of 0 the bender lever will not affect the pitch.

\*The bender switch ( see page 55) will determine whether or not pitch bender message is received.

●Modulation : OFF, DECAY, NUANCE

PATCH/PFM1/BASIC Mod = OFF This determines whether modulation message (control number 1) will control decay or nuance. If you do not wish to use modulation message, set this to OFF.

# [SETTING PROCEDURE]

1 Move to the basic parameter (Performance Section) setting display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "PFM" and press ENTER.

Use the CURSOR ◀ ▶ to select "BASIC" and press ENTER

Performance Section number

PATCH/PFM1/BASIC Receive Ch = 1

2 Select the Performance Section.

Press NOTE # (the indicator will light).

Use the CURSOR ■ to select the Performance Section (1—4).

Press NOTE # (the indicator will go out).

③ Use the CURSOR ✓ ▶ to select the parameter, and use VALUE △ ▽ to set the value.

If you wish to make settings for another Performance Section, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# ■Key Follow parameters

These parameters determine how each parameter (pitch/decay/nuance/pan) will be affected as you play notes further away from a specified reference note number. This can be set for each Performance Section.

●Reference note number: 0-127

PATCH/PFM1/K.FLW Refer Note = 60 This selects the note number that will be the reference point around which all parameters will be affected. This reference note number is used in common by all parameters.

●Key follow

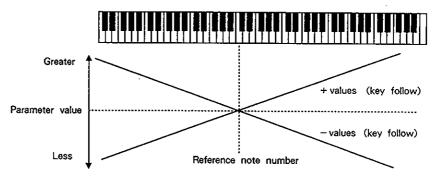
This function determines how greatly each parameter will be affected as you move between note numbers. When the reference note is played, the instrument will be played exactly as specified by its sound parameters ( see page 38).

Pitch	Decay
PATCH/PFM1/K.FLW KF Pitch = 100	PATCH/PFM1/K.FLW KF Decay = 2
Nuance	Pan
PATCH/PFM1/K.FLW KF Nuance = 1	PATCH/PFM1/K.FLW

Parameter	Values
Pitch	- 990+ 990 cent
Decay	-9+9
Nuance	-2-+2
Pan	-2-+2/OFF

As you play above (or below) the reference note number, the value of each parameter will be increased (or decreased) by the key follow value you specify. In other words, higher key follow values will result in greater change (a steeper slope in the diagram below). If you do not wish a parameter to be affected, set it to 0 (or OFF).

Nuance and pan can be set to fractional key follow values. For example, a setting of 1/4 will modify the parameter value by 1 when the note number increases (or decreases) by 4.



# **[SETTING PROCEDURE]**

1 Move to the key follow setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "PFM" and press ENTER.

Use the CURSOR ■ to select "K.FLW" and press ENTER.

Performance Section number

2 Select the Performance Section.

Press NOTE # (the indicator will light).

Use the CURSOR ◀ ▶ to select the Performance Section (1—4).

Press NOTE # (the indicator will go out).

③ Use the CURSOR ◀▶ to select the parameter, and use VALUE △▽ to set the value.

If you wish to make settings for another Performance Section, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# Sound parameters

These parameters determine the instruments used by each Performance Section, and how they will sound when played at the reference note number.

Except for level, all sound parameters in a Performance Section are the same as those in the Instrument Section (the level of a Performance Section is determined by the volume setting of the basic parameters). For the function of each sound parameter, please refer to the Instrument Section (page 26).

# [SETTING PROCEDURE]

1 Move to the sound parameter (Performance Section) setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "PFM" and press ENTER.

Use the CURSOR ◀ ▶ to select "SOUND" and press ENTER

Performance Section number

PATCH/PFM1/SOUND I-57:AGOGO1

2 Select the Performance Section.

Press NOTE # (the indicator will light).

Use the CURSOR ◀ ▶ to select the Performance Section (1—4).

Press NOTE # (the indicator will go out).

- ③ Use the CURSOR ▶ to select the parameter, and use VALUE △ ▽ to set the value. If you wish to make settings for another Performance Section, repeat steps ② and ③.
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# **(SETTING EXAMPLE)**

• When using marimba or vibraphone (in a separately sold sound ROM card) to play the melody

Key Follow (Pitch) = 100 ( rgp.36)Assign Type = POLY ( rgp.28)Note Off Switch = OFF ( rgp.30)

- \*When using the Hold Pedal, set the Hold Switch ( page 55) ON, and shorten the decay of the Sound parameters. If the decay is long, the sound will not immediately disappear when Hold is turned off.
- When using a bass etc. to play single notes

Key Follow (Pitch) = 100

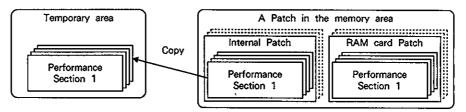
Assign Type = EXC1-8

Note Off Switch = ON

\*When the Assign Type is set to MONO, notes of the same note number will not be sounded simultaneously, but notes of different note numbers are sounded individually.

# ■How to copy a Performance Section

Performance Section settings of a Patch (memory area) can be copied to a Performance Section in the temporary area. This is convenient when you want to use the same settings as a previously stored Performance Section.



1 Move to the Performance Section copy display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ■ to select "PFM" and press ENTER.

Use the CURSOR ◀ ▶ to select "COPY" and press ENTER.

Performance Section number of the copy destination

PATCH/PFM1/COPY
COPY P: I-01?

Patch number

2 Select the Performance Section of the copy destination.

Press NOTE # (the indicator will light).

Use the CURSOR ◀ ▶ to select the Performance Section (1—4).

Press NOTE # (the indicator will go out).

③ Use the **CURSOR** ■ to select the Patch which contains the Performance Section you wish to copy, press ENTER.

I-01-I-32 (internal Patches), C-01-C-32 (RAM card Patches)

PATCH/PFM1/COPY Copy PFM1?

5 Press ENTER to copy the data.

To quit without copying press **EXIT**.

If you wish to copy settings from another Performance Section, repeat steps ②—⑤.

6 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 3. How to Name a Patch

Each Patch can be given a name using up to 8 characters. This can be a convenient reminder of the song which uses the Patch, or of the type of drum-set used.

1 Move to the Patch name setting display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "NAM" and press ENTER



- ② Use the CURSOR and VALUE △ ▼ buttons to select the characters.
- 3 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 4. How to Store Patch Settings

Here's how to store a modified Patch (temporary area) into the memory area.

\*If you wish to store the data on a RAM card, remember that a newly purchased RAM card, or a RAM card that has been used for other devices, cannot be used as it is. You must first use the Save operation to save internal data to the RAM card. For details refer to "Using a RAM Card" (page 60).

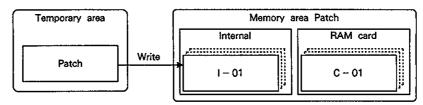
### [ABOUT MEMORY PROTECT]

The memory protect function is a protective measure to prevent you from accidentally rewriting the Patch or Feel Patch settings in the internal memory area. If you wish to store Patch or Feel Patch settings in the internal memory area, you must first turn this memory protect off. When storing data on a RAM card, you must turn the card protect switch off.

Normally you will temporarily turn memory protect off during the Write procedure. However, if you will be repeating the write procedure many times, you can turn memory protect off beforehand to avoid this extra step. To turn memory protect off beforehand, refer to page 56.

# ■Patch write procedure

Here's how to write Patch (temporary area) settings into either of the memory areas.



The Patch writing procedure is used not only to store modified Patch settings, but also to copy Patch settings or rearrange Patches.

To copy Patch settings, in Play mode select the Patch you wish to copy, use step ② of the Patch write procedure to select the copy destination Patch, and execute.

To rearrange Patch settings, select the Patch you wish to move, use step ② of the Patch write procedure to select the move destination, and execute. By repeating this as necessary, you can rearrange Patches.

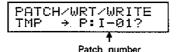
- \*To store data on a RAM card, turn the protect switch off after inserting the RAM card.
- 1 Move to the Patch write display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER.

Use the CURSOR ■ to select "WRITE" and press ENTER.



- ② Use the CURSOR to select the destination Patch number into which you wish to write.
  - I-01---I-32 (internal Patches), C-01---C-32 (RAM card Patches)
- 3 Press ENTER and you will be asked "Are you sure?".
- 4 Press ENTER once again and the data will be written.

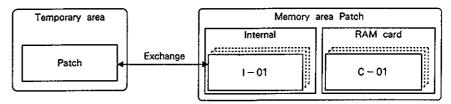
To quit without writing press **EXIT**.

If the internal memory protect is on, the following display will appear. Press **ENTER** once again to temporarily turn off the memory protect and write the data.

5 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# Patch exchange procedure

This function exchanges (swaps) Patch settings between the temporary area and the memory area. By repeated exchanges, you can rearrange the order of Patch settings. By exchanging a modified Patch with same Patch number, you can compare the edited and unedited settings.



- \*When exchanging RAM card Patches, turn the protect switch off after inserting the RAM card.
- 1 Move to the Patch exchange display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER

Use the CURSOR ◀ ▶ to select "EXCHG" and press ENTER.



- ② Use the CURSOR ▶ to select the Patch number you wish to exchange. I-01—I-32 (internal Patches), C-01—C-32 (RAM card Patches)
- 3 Press ENTER and you will be asked "Are you sure?".
- 4 Press ENTER once again and the data will be exchanged.

To quit without exchanging press EXIT.

If the internal memory protect is on, the following display will appear. Press **ENTER** once again to temporarily turn off the memory protect and exchange the data.

(5) While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# **■**Copy the factory Patch settings

Here's how to copy any one of the 30 factory Patch settings into the Patch in the temporary area. This is convenient when you wish to restore a patch you created to its original settings.

\*For the factory Patch settings, refer to "Patch List" on page 84.

Œ	Select the Patch copy display.
	Press the EDIT button (the indicator will light).
	Use the CURSOR to select "PATCH" and press the ENTER button.
	Use the CURSOR ■ to select "WRT" and press the ENTER button.
	Use the <b>CURSOR</b> ◀ ▶ to select "PRESET" and press the <b>ENTER</b> button.
	POTCH/MPT/PRESET

The name of the Patch you wish to copy

- ② Use the CURSOR to select the Patch you wish to copy.
- 3 Press the ENTER button and the display will ask "Are you sure?".
- Press the **ENTER** button once again, and the data will be copied.

  To cancel the operation press the **EXIT** button.
- To return to Play mode hold JUMP and press EXIT. (The indicator will go out.)

# Patch clear

This function initializes the Patch settings in the temporary area. Use this function when you wish to create a Patch from scratch.

		Parameter -	Initial value							
Pa	tch Na	me								
		Receive channel	10							
	, <u>Q</u>	Volume	127							
	Basic	Bend range	12							
		Layer function	OFF							
		Instrument assign	**-**							
	8	Pitch	-							
Section	21—108)	Decay	-							
Š	1	Nuance	_							
탏	Sound ober :	Output assign	_							
Instrument	S e numb	S e numb	S e numb	S e numb	Sound (note number:	S H	S FE	S FE	Level	_
nst						Assign type	-			
[ ]	not	Velocity curve	ļ — <u>,                                     </u>							
		Note off switch	-							
	Control	Modulation, Control 1-4	**-** PITCH							
		Control 5—8	**-** DECAY							

		Paran	neter	Initial value	
			section 1	11	
		Receive	section 2.	12	
		channel	section 3	13	
	l o	·	section 4	14	
	Basic	Volume		127 •	
	_	Key range low		C- (0)	
		Key range high		G9 (127)	
4		Bend range		12	
Performance Section 1-4		Modulation		OFF	
ij		Reference note	60		
တ္တ	Key follow	Key follow (pi	+ 100		
9	\$	Key follow (de	0		
na.	Ke.	Key follow (no	0		
ī.		Key follow (pa	OFF		
g.		Instrument assi	gn	**-**	
	ļ	Pitch			
		Decay		-	
	Sound	Nuance		_	
	Sot	Output assign			
		Assign type			
		Velocity curve			
		Note off switch	)	] -	

1 Move to the Patch clear display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "PATCH" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER.

Use the CURSOR ◀ ▶ to select "CLEAR" and press ENTER.

PATCH/WRT/CLEAR Clear TMP?

- 2 Press ENTER and you will be asked "Are you sure?".
- 3 Press ENTER once again and the data will be cleared.
  To quit without clearing press EXIT.
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 2 FEEL FUNCTION

The Feel Function modifies the tone of the instruments specified in each section to create a natural effect of variation.

# 1. About the Feel Function

# Regular Feel and Random Feel

There are two types of Feel function; Regular Feel and Random Feel. These can be used together to affect the sound.

# [REGULAR FEEL]

When a real drummer performs, he consciously modifies the force, striking position, and striking technique with which he plays the drums. This means that when the same drum part is played by different drummers, the result can differ greatly. Regular Feel adds this type of cyclic and intentional tonal variation.

You can select either Groove or Velocity Feel as the source of Regular Feel.

### Groove

This function periodically modifies the sound of specified instruments in synchronization with MIDI clock message from an external device. Use this function when playing the R - 8M from a sequencer or rhythm machine. For example, if you select snare drum velocity, the playing strength of the snare drum will be varied at a specific time.

# Velocity Feel

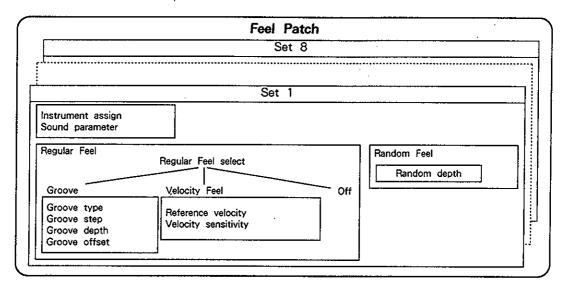
This function modifies the sound of specified instruments in response to the velocity (playing strength). It is effective to use this function when playing the R - 8M from drum pads or other real-time controllers. In real-time, pitch, decay and nuance can be changed with the velocity (playing strength) and these variations can be stored in each Feel Patch. However, when Groove is selected, these effects cannot be realized.

# [RANDOM FEEL]

Even when a drummer attempts to play consistently, there will be slight differences in the force or striking position with which he plays the drums. This results in subtle changes in tone, and keeps the performance from becoming monotonous. Random Feel creates this type of irregular variation in tone. "Random" does not mean that the sound will change haphazardly. Rather, this varies the sound in a natural way, using the same "1/f Fluctuations" that appears in many aspects of the natural world. By using this function to modify the nuance of a ride cymbal for example, you can simulate the naturally occurring change in tone that results from a shift in striking position.

# How a Feel Patch is organized

Each Feel Patch contains 8 sets, with each set containing the instrument to be modified, Regular Feel settings, and Random Feel settings. Internal memory can accommodate 16 Feel Patches, and a RAM card can accommodate 16 more.



# 2. Feel Patch Settings

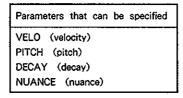
To create an original Feel Patch, select one of the Feel Patches ( = see page 14) and modify the settings. If Feel Patch settings have been modified, an ":" will be displayed when you return to the Play mode display.

- \*If you wish to keep your edited Feel Patch settings, you must use the Feel Patch Write operation ( resee page 51).
- \*If you want to create a new Feel Patch from scratch, first use the Clear operation to reset the Feel Patch data in the temporary area to the initial settings (\$\sigma\$ see page 54).
- \*If a Feel Patch is not selected in the Play mode, the following display will appear in the Feel Edit mode. Use the CURSOR to select the Feel Patch you wish to edit and press ENTER.

```
Select for EDIT.
Feel:OFF ?
```

# **I**Instrument Assign settings

Select the instruments and parameters that will be affected by the Feel Patch. One of each can be specified for each of the 8 sets.

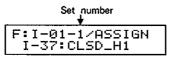


- \*When using Velocity Feel, specifying the velocity parameter will have no effect.
- 1 Move to the instrument assign (Feel Patch) setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "FEEL" and press ENTER

Use the CURSOR ■ to select "ASG" and press ENTER.



2 Select the set in the Feel Patch.

Press NOTE # (the indicator will light).

Use the CURSOR ◀ ▶ to select the set (1—8) to make the settings for.

Press NOTE # (the indicator will go out).

③ Use the CURSOR ▶ to select the display and use VALUE △ ▽ to select the instrument and the parameter.

If you wish to make settings for other sets, repeat steps 2 and 3.

- \*When you modify a parameter, all Groove offsets (proceed see page 49) will be cleared to 0.
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

If you wish to use note messages from an external device to select instruments in the intsrument select display, press and hold the **NOTE** # button until the following symbol appears in the display. (Release the button before the **NOTE** # indicator begins to blink.)

When a note message is received on the receive channel of any section, the instrument sounded by that note will be selected.

To return to normal operation, press and hold the **NOTE** # button until the symbol disappears from the display.

\* If you press the EXIT button, this function will be canceled.

# Regular Feel settings

●Regular Feel select: GROOVE, VELOCITY, OFF

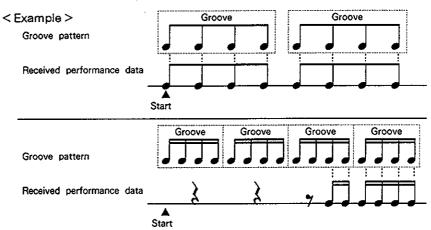
F:I-01-1/REGULAR Regular= OFF Select Groove or Velocity Feel. If you do not wish to use Regular Feel, set this function to OFF.

### Groove

Groove settings determine the timing at which the parameter is modified (Groove type, Groove step) and the amount of change (Groove depth, Groove offset).



When a sequencer or rhythm machine connected to the R-8M begins playback, the R-8M will synchronize to the MIDI clock message and repeat the Groove pattern. When note message is received at the timing of the Groove pattern, the parameter value specified for the instrument will be given a relative change according to the various timing settings.



\*Notes which do not fall on the timing of the groove will be sounded at the nearest timing setting.

●Groove type: 1-16

F:I-01-1/REGULAR Type = 16 This function determines how many times the parameter will be modified during one cycle of the Groove.

•Groove step: 1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32

F:I-01-1/REGULAR Step = 1/16 This function determines the timing interval at which the parameter will be modified.



### ●Groove depth: 1—8

F:I-01-1/REGU Derth	L	R.
Depth	=	8

This function determines the amount of effect the Groove will have. Higher settings will cause a greater change in the parameter.

### Groove offset

Γ	F	:	Ι		Ū	1	_	1	/	Ō	ť	3	=			Ø	
l	-			_	•	•	•	•	•	*	•	H		•	•	-	

This function determines the amount of parameter change (relative value) for each timing

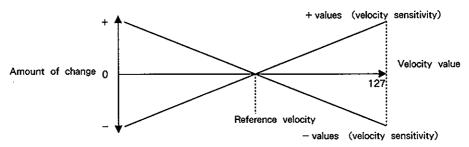
Use the CURSOR be to select the timing unit (blinking), and use VALUE to set the amount of change. The specified value will be graphically displayed in the lower line.

Parameter	Values				
Velocity	- 99-+ 99				
Pitch	-99+99 (1 = 10 cent)				
Decay	- 20 + 20				
Nuance	– 15— + 15				

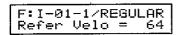
### Velocity Feel

This function modifies the parameter value according to the received velocity.

\*When using Velocity Feel, the specified velocity parameter in instrument assign will have no effect on the Feel function.



# ●Reference velocity: 1—127



This function determines the standard velocity around which the parameter value will be modified.

# ◆Velocity sensitivity: -7-+7



This function determines how greatly the parameter value will be modified in response to velocity. This corresponds to the slope in the above diagram; higher settings will make the parameter change greater. Positive or negative settings will change the direction of the slope. At a setting of 0 there will be no change.

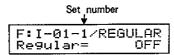
# **[SETTING PROCEDURE]**

1 Move to the Regular Feel setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "FEEL" and press ENTER

Use the CURSOR ◀ ▶ to select "REGL" and press ENTER



2 Select the set in the Feel Patch.

Press NOTE # (the indicator will light).

Use the CURSOR ■ to select the set (1—8) you wish to modify.

Press NOTE # (the indicator will go out).

③ Use the CURSOR ▶ to select the parameter, and use VALUE △ ▽ to modify the

You can modify the parameter selected by Regular Feel select. If Regular Feel select has been turned off, the display can not be selected.

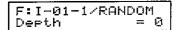
If you wish to make settings for other sets, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# ■ Random Feel settings

These settings randomly modify the parameters of the instruments assigned to a set.

●Random depth: 0-8



This function specifies how greatly the parameter value will be modified. Higher settings will result in greater change. At a setting of 0 there will be no Random Feel.

# [SETTING PROCEDURE]

Move to the Random Feel setting display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "FEEL" and press ENTER.

Use the CURSOR ◀ ▶ to select "RND" and press ENTER.

Set number

F: I-01-1/RANDOM
Depth = 1

2 Select the set in the Feel Patch.

Press NOTE # (the indicator will light).

Use the CURSOR ▶ to select the set (1—8) you wish to modify.

Press NOTE # (the indicator will go out).

3 Use VALUE △ ♥ to specify the random depth (0—8).

If you wish to make settings for other sets, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 3. How to Store Feel Patch Settings

Here's how to store a modified Feel Patch (temporary area) into the memory area.

\*If you wish to store the data on a RAM card, remember that a newly purchased RAM card, or a RAM card that has been used for other devices, cannot be used as it is. You must first use the Save operation to save internal data to the RAM card. For details refer to "Using a RAM Card" (\$\sigma\$ page 60).

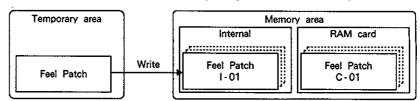
# [ABOUT MEMORY PROTECT]

The memory protect function is a protective measure to prevent you from accidentally rewriting the Patch or Feel Patch settings in the internal memory area. If you wish to store Patch or Feel Patch settings in the internal memory area, you must first turn this memory protect off. When storing data on a RAM card, you must turn the card protect switch off.

Normally you will temporarily turn memory protect off during the write procedure. However, if you will be repeating the write procedure many times, you can turn memory protect off beforehand to avoid this extra step. To turn memory protect off beforehand, refer to page 56.

# Feel Patch write procedure

Here's how to write Feel Patch (temporary area) settings into either of the memory areas.



- \* To store data on a RAM card, turn the protect switch off after inserting the RAM card.
- 1 Move to the Feel Patch write display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "FEEL" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRITE" and press ENTER.



Feel Patch number

② Use the CURSOR to select the destination Feel Patch number into which you wish to write.

I-01-I-16 (internal Feel Patches), C-01-C-16 (RAM card Feel Patches)

- 3 Press ENTER and you will be asked "Are you sure?".
- Press ENTER once again and the data will be written.

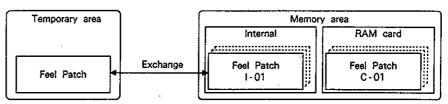
  To quit without writing press EXIT.

If the internal memory protect is on, the following display will appear. Press **ENTER** once again to temporarily turn off the memory protect and write the data.

(the indicator will go out).

# Feel Patch exchange procedure

This function exchanges (swaps) Feel Patch settings between the temporary area and the memory area. By repeated exchanges, you can rearrange the order of Feel Patch settings. By exchanging a modified Feel Patch with the same Feel Patch number, you can compare the edited and unedited settings.



- \*When exchanging RAM card Feel Patches, turn the protect switch off after inserting the RAM card.
- Move to the Feel Patch exchange display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "FEEL" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER.

Use the CURSOR 

to select "EXCHG" and press ENTER.

Feel Patch number

- ② Use the CURSOR to select the Feel Patch number you wish to exchange. I-01—I-16 (internal Feel Patches), C-01—C-16 (RAM card Feel Patches)
- 3 Press ENTER and you will be asked "Are you sure?".
- Press ENTER once again and the data will be exchanged.

To quit without writing press **EXIT**.

If the internal memory protect is on, the following display will appear. Press **ENTER** once again to temporarily turn off the memory protect and exchange the data.

(5) While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# Copy the factory Feel Patch settings

Here's how to copy any one of the 16 Feel Patch factory settings into the Patch in the temporary area. This is convenient when you wish to restore a Feel Patch you created to its original settings.

\*For the factory Feel Patch settings, refer to "Feel Patch List" on page 115.

1 Select the Feel Patch copy display	
Press the <b>EDIT</b> button (the indicator	will light).
Use the CURSOR ◀ ▶ to select "F	FEEL" and press ENTER.
Use the CURSOR ◀ ▶ to select "\	WRT" and press ENTER.
Use the CURSOR ◀ ▶ to select "F	PRESET" and press ENTER
FEEL/WRT/PRESET	

The Feel Patch you wish to copy

- ② Use the CURSOR to select the Feel Patch (1—16) you wish to copy.
- 3 Press the ENTER button and the display will ask "Are you sure?".
- Press the ENTER button once again, and the data will be copied. To cancel the operation press the **EXIT** button.
- (5) To return to Play mode hold JUMP and press EXIT. (The indicator will go out.)

# Feel Patch clear

This function initializes the Feel Patch settings in the temporary area. Use this function when you wish to create a Feel Patch from scratch.

		Parameter	Setting valu	ie	
Instrument assign		Instrument assign	**-**		
		Parameter	VELO		
Regular Feel s		select	OFF		
		Groove type	16		
	Groove	Groove step	1/16		
		Groove depth	8		
Regular Feel			Velocity	0	
riegulai i eer		Groove offset	Pitch	0	
			Decay	0	
	1	ļ	Nuance	0	
	Malasia - Fast	Reference velocity	64		
	Velocity Feel	Velocity sensitivity	0		
Random Feel		Random depth	0		

1 Move to the Feel Patch clear display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "FEEL" and press ENTER.

Use the CURSOR ◀ ▶ to select "WRT" and press ENTER.

Use the CURSOR ◀ ▶ to select "CLEAR" and press ENTER.

PATCH/WRT/CLEAR Clear TMP?

- 2 Press ENTER and you will be asked "Are you sure?".
- ③ Press ENTER once again and the data will be cleared.
  To quit without clearing press EXIT.
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# **3 SETUP**

These settings for MIDI, memory protect and program change map, affect the entire system of the R - 8M.

\*Setup settings are preserved even when the power is turned off.

# ■MIDI settings

These MIDI settings affect the entire system.

●Control channel: 1—16

SETUP/MIDI Control Ch = 16 This function determines the channel on which program change message (to select Patches or Feel Patches) will be received. The control channel is also used as the basic channel on which exclusive message is received and transmitted (\$\sigma\$ see page 63).

●Program change switch: ON, OFF

SETUP/MIDI P9m Chan9e = ON This switch determines whether or not program change message will be received.

●Exclusive switch: ON, OFF

SETUP/MIDI SysEx = ON This switch determines whether or not exclusive message will be received.

\*If memory protect ( resee page 56) is on, exclusive message will not affect the settings in the memory area even if the exclusive switch is ON.

Volume switch: ON, OFF

SETUP/MIDI Volume = ON This switch determines whether or not volume message (control number 7) will be received.

Bender switch: ON, OFF

SETUP/MIDI Pitch Bender= ON This switch determines whether or not pitch bender message will be received.

●Pan switch: ON, OFF

SETUP/MIDI Panpot =OFF This switch determines whether or not pan message (control number 10) will be received.

\*If the pan switch is turned ON, the pan setting specified by the control number in the Instrument Section will be ignored ( see page 33).

Hold switch: ON, OFF

SETUP/MIDI Hold = ON This switch determines whether or not hold messages (control number 64) will be received or not. Normally, "hold" messages carry a data value of on/off, but by using a MIDI devices that can transmit a continuous value, you can control instrument decay.

\*Some sequencers will handle only on/off data for "hold" messages. In such cases, decay changing can not be recorded.

# ● Velocity switch (note off): ON, OFF

SETUP/MIDI Off Velocity=OFF This switch determines whether or not note off velocity will be received. This will be effective when using the R-8M with MIDI devices that are able to transmit note off velocity. As the note off velocity value is higher, the decay time will become shorter.

\*For instruments which receive note off velocity, set the Note Off switch on (see page 30, 38).

# [SETTING PROCEDURE]

1 Move to the MIDI (setup) setting display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "SETUP" and press ENTER.

Use the CURSOR ◀ ▶ to select "MIDI" and press ENTER

SETUP/MIDI Control Ch = 16

- ② Use the CURSOR to select the parameter, and use VALUE △ ▽ to modify the setting.
- 3 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# ■How to turn memory protect on/off

The memory protect function is a protective measure to prevent you from accidentally rewriting the Patch or Feel Patch settings in the internal memory area. Normally you will leave memory protect on, but when storing Patch or Feel Patch settings into the internal memory area, you must turn this memory protect off.

Normally you will temporarily turn memory protect off during the write procedure. However, if you will be repeating the write procedure many times, you can turn memory protect off beforehand to avoid this extra step.

1 Move to the memory protect setting display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "SETUP" and press ENTER.

Use the CURSOR ◀ ▶ to select "PROTECT" and press ENTER.

SETUP/PROTECT Mem Protect = ON

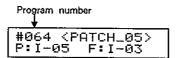
- ② Use VALUE △ ▼ to turn memory protect ON/OFF.
- 3 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# How to set the program change map

If you wish to select Patches or Feel Patches using program change message from an external device, set the program change map to specify which Patch number or Feel Patch number will be selected in response to each incoming program number. A program number can simultaneously select both a Patch and a Feel Patch, or either one.

Program change messages can be received in the Play mode, and will be received on the control channel (see page 55). If you want program change messages to be received, set the Program Change switch to on (see page 55).

When program change message is received, the display will show the received program number as follows.

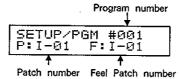


1 Move to the program change map setting display.

Press EDIT (the indicator will light).

Use the CURSOR between to select "SETUP" and press ENTER.

Use the CURSOR ■ to select "PGM" and press ENTER.



Select the program number for which you wish to make settings.

Press NOTE # (the indicator will light).

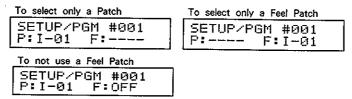
Use the CURSOR 

to select the program number (1—128).

Press NOTE # (the indicator will go out).

\*Program numbers can be selected from an external device using Program Change messages.

③ Use the CURSOR ▶ and VALUE △ ▼ respectively to select a Feel Patch and a Patch. If you wish to select only a Patch or only a Feel Patch, select " - - - " for the type you do not wish to change. If you do not wish to use a Feel Patch, select "OFF".



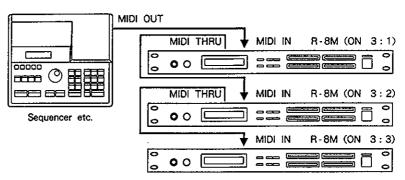
If you wish to make settings for another program number, repeat steps 2 and 3.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# ■Using two or more R-8M units (Stack)

A single R - 8M is able to produce up to 12 notes at once. The Stack function allows you to connect two or more R - 8M units together to increase the number of simultaneous notes that can be produced. Turn Stack on for each R - 8M, specify the number of connected R - 8M units (1—8), and specify the device number for each R - 8M. As long as each R - 8M is set to a different device number, the order in which they are connected does not matter.

< Setting example > When using three R-8M units; set Stack function ON; number of unit 3 device number 1, 2, or 3



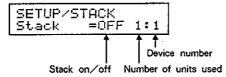
In addition to the Stack settings, each R - 8M must be have the same Patch settings. If they do not have the same Patch settings, different instruments will sound, or the notes will not sound properly. To give each R - 8M the same Patch settings, use the bulk dump procedure ( see page 63) to copy the Patch data.

- \*Stack settings are preserved even when the power is turned off.
- \*If you are using only one R 8M, turn Stack OFF.
- \*If you incorrectly specify the number of units used, or if two or more R 8M units are set to the same device number, notes will not sound properly.
- 1 Move to the Stack setting display.

Press EDIT (the indicator will light).

Use the CURSOR to select "SETUP" and press ENTER.

Use the CURSOR to select "STACK" and press ENTER.



- ② Use CURSOR ▶ to select the parameter, and use VALUE △ ▽ to set each parameter.
- 3 While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).



# Chapter 4

# Utility mode functions

# 1 USING A RAM CARD

# Data that can be stored in a RAM card



A RAM card (M-256E) can store the following settings.

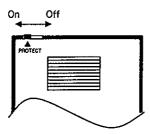
32 Patches	
16 Feel Patches	
Setup data (MIDI, program change map)	,

If you leave a RAM card inserted while playing the R-8M, you will be able to instantly select the card Patches or Feel Patches in the same way as internal settings. It is also possible to write modified settings from the temporary area directly into a RAM card. However, if you wish to use setup data from a card, you must use the Load operation to copy the setup data from the RAM card into internal memory.

\*M-256D RAM cards can be used.

# ■ Precautions when using a RAM card

- ●Use only the specified type of RAM card (M-256E).
- •When using a new RAM card for the first time, install the included lithium battery into the card. Use the Save procedure to copy the internal data into the RAM card before using it.
- ◆RAM cards have a protect switch that protects the stored data. Normally you will leave this on, but turn it off before saving data to the RAM card.

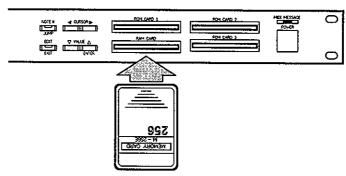


●Do not turn the power off or remove the card while saving or loading data from a RAM card. Doing so could damage the data in the RAM card or internal memory.

# Saving data from the R-8M to a RAM card

This SAVE operation copies all internal data (32 Patches, 16 Feel Patches, and setup data) from the R-8M into a RAM card. When using a new RAM card or a RAM card which has been used by another device, use this Save operation first.

1 Insert the RAM card firmly into the RAM CARD slot, and set the RAM card protect switch off.



2 Move to the save display.

Press EDIT (the indicator will light).

Use the CURSOR ■ to select "UTIL" and press ENTER.

Use the CURSOR to select "RAMCARD" and press ENTER.

Use the CURSOR ■ to select "SAVE" and press ENTER.

UTIL/RAM/SAVE Press ENTER.

- 3 Press ENTER and you will be asked "Are you sure?".
- 4 Press ENTER and the data will be saved.

To quit without saving press **EXIT**.

If the RAM card is new or if it has been used by another device, the following display will appear. Press **ENTER** once again. To quit without saving press **EXIT**.

UTIL/RAM/SAVE Format?

- 5 Turn the protect switch of the RAM card on again.
- (6) While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# ■Loading data from a RAM card into the R-8M

The LOAD operation copies all data from a RAM card (32 Patches, 16 Feel Patches, and setup data) into the R-8M. When you use the load operation, internal settings of the R-8M will be replaced by the settings from the RAM card, and the previous settings will be lost.

- 1 Insert the RAM card firmly into the RAM CARD slot.
- 2 Move to the load display.

Press EDIT (the indicator will light).

Use the CURSOR ◀ ▶ to select "UTIL" and press ENTER.

Use the CURSOR ◀ ▶ to select "RAMCARD" and press ENTER.

Use the CURSOR ◀ ▶ to select "LOAD" and press ENTER.

UTIL/RAM/LOAD Press ENTER.

- 3 Press ENTER and you will be asked "Are you sure?".
- 4 Press ENTER and the data will be loaded.

To quit without loading press EXIT.

If memory protect is turned on the following display will appear. Press **ENTER** once again to temporarily turn memory protect off and load the data.

\*\* PROTECT ON \*\* Turn off once?

**5** While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 2 OTHER FUNCTIONS

# 1. Transmitting Exclusive message

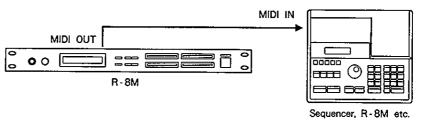
R-8M settings can be transmitted as exclusive message to another R-8M or any MIDI device that is able to receive exclusive message.

# How to transmit exclusive message (bulk dump)

The following categories of R-8M data can be transmitted.

	Display	Transmitting data
	INT	Patch (temporary area, I01—I32) Feel Patch (temporary area, I01—I16) Setup data (internal)
ALL	CARD	Patch (C01—C32) Feel Patch (C01—C16) Setup data (RAM card)
	INT & CARD	both INT and CARD
	TMP	the Patch in the temporary area
PATCH	101-32	any one of the internal Patches (memory area)
	C01-C32	any one of the RAM card Patches
	TMP	the Feel Patch in the temporary area
FEEL	101-16	any one of the internal Feel Patches (memory area)
	C01C16	any one of the RAM card Feel Patches
SETUP		internal setup data

# [CONNECTIONS]



\* If you wish to transmit data from a RAM card, insert the RAM card.

# [PROCEDURE]

- ① Set the R-8M control channel ( page 55) to match the basic channel of the receiving device.
- 2 Set the receiving MIDI device to receive exclusive message.
- 3 Move to the bulk display.

Press **EDIT** (the indicator will light).

Use the CURSOR ◀ ▶ to select "UTIL" and press ENTER.

Use the CURSOR ■ to select "BULK" and press ENTER.

UTIL/BULK |ALL PATCHIFEELISETUP

- Use the CURSOR to select the data to be transmitted and press ENTER.

  If you have selected anything other than SETUP, use the CURSOR to select the type of data to be transmitted.
- 5 Press ENTER and you will be asked "Are you sure?".
- 6 Press ENTER and the data will be transmitted.

  To quit without transmitting press EXIT.

While the data is being transmitted the display will read "Transmitting".

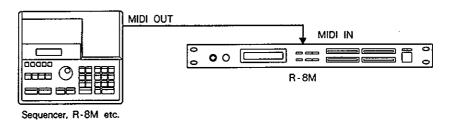
To abort while the data is being transmitted, press **EXIT**.

While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# How to receive exclusive message (bulk load)

This function receives exclusive message from another R-8M or other MIDI device and reads it into internal memory or a RAM card, replacing the previous settings.

# [CONNECTIONS]



### [PROCEDURE]

- ① Set the R-8M control channel (propage 55) to match the basic channel of the transmitting device (if you are receiving the data from a sequencer, set the control channel that you used when recording the data into the sequencer).
- 2 Turn the exclusive switch of the R-8M on (pr page 55).
- (3) If you want the settings in the R-8M internal memory to be changed, turn the R-8M memory protect off ( page 56). If you want the RAM card settings to be changed, insert a RAM card and turn the card protect switch off.
- Transmit exclusive message from the transmitting MIDI device.

  When exclusive message is received, the display will show "Receiving SysEx".

# 2. Adjusting the Display Contrast

This function adjusts the contrast of the R-8M's LCD. When using the R-8M in different locations you can adjust the contrast for maximum visibility.

1 Move to the contrast setting display.

Press **EDIT** (the indicator will light).

Use the CURSOR ◀ ▶ to select "UTIL" and press ENTER.

Use the CURSOR ◀ ▶ to select "LCD" and press ENTER.

- ② Use VALUE △ ♥ to adjust the contrast (0—15).
- While pressing JUMP, press EXIT to return to the Play mode (the indicator will go out).

# 3. Restoring All R-8M Data to the Factory Settings (Initialize)

If you wish to restore all data of the R-8M to the factory settings, use the following procedure.

- 1 Turn the R 8M power off.
- ② While pressing the CURSOR ▶ and ENTER, turn the power on.

- 3 Press ENTER and you will be asked "Are you sure?".
- Press ENTER once again and the data will be initialized.

  To quit without initializing the data press EXIT.

<sup>\*</sup>The contrast setting will be maintained even when the power is turned off.



# Chapter 5

# Appendix

# ABOUT MIDI

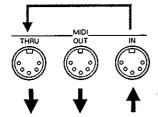
MIDI stands for Musical Instrument Digital Interface, and is a worldwide standard for transmitting notes, musical expressions, and other musical data between electronic musical instruments. If an instrument has MIDI, it can transmit musical data to other instruments regardless of the manufacturer or type. When a note is played or a pedal is pressed, this information is transmitted as a MIDI message.

# 1. How MIDI message is Transmitted and Received

The following is a simple explanation of how MIDI message is transmitted and received.

# **MIDI** Connectors

The following three connectors are used to transmit and receive MIDI message. Use MIDI cables to connect these connectors as your setup requires.



MIDI IN : This connector receives data from another MIDI device.

MIDI OUT : This connector transmits data from the device itself.

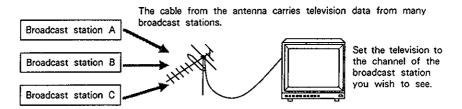
MIDI THRU: This connector retransmits the exact data that was received at MIDI IN.

\*You can use MIDI THRU to connect as many MIDI devices as you like, but the practical limit is 4 or 5 devices. If more devices are connected, the MIDI signal may become garbled, and the data may not be correctly received.

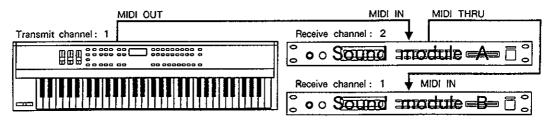
### MiDI Channels

MIDI uses a single MIDI cable to transmit data independently to two or more MIDI devices using various channels.

A MIDI channel is similar to a television channel. By changing the channel on a television set, you can view programs from many broadcast stations. When the receiving channel matches the transmitting channel, the data of that channel will be received.



MIDI uses sixteen channels (1—16), and when a MIDI device is set to receive the same channel as transmitted by the transmitting device, it will receive that message. For the connections and MIDI channel settings shown in the following diagram, only sound module B will produce sound when the keyboard is played.



# A p

# 2. The Main Types of MIDI message Used by the R-8M

MIDI uses many different types of MIDI messages to transmit a wide variety of musical information. MIDI message can be broadly divided into two categories; data that is handled by MIDI channels (channel messages), and data that is handles without regard to the MIDI channel (system messages).

# ■ Data handled by MIDI channels (channel messages)

These messages transmit performance nuances. Normally, these messages are all you will be using. The settings of the sound source will determine the effect that these MIDI messages will have.

Note message

This message transmits the drum hits (corresponding to the notes pressed on a keyboard). Note messages include the following.

Note number		The type of drum sound (a number indicating the key position)
Note on		Strike the drum (press the key)
Note off		Release the key
Velocity	Note on	the strength with which the drum (key) is hit
	Note off	Key release strength (when using a keyboard that transmits note off velocity)

Note number is expressed as a number from 0—127, with middle C (C4) as 60. In general, the note number determines the pitch. However, for rhythm sound sources, the note number is used to specify the type of drum sound. The R -8M's Instrument Section allows it to be used as a conventional rhythm sound source, and the Performance Sections allow it to be played like a synthesizer sound source with different pitches for each note number.

- \* Most rhythm machines either transmit the "note on" and "note off" messages in immediate succession, or transmit the note off message at a specific time interval after the note on message.
- Pitch bender message This message transmits changes in the bender lever position (pitch).
- Aftertouch message This message transmits changes in aftertouch (the force with which you press down on the keyboard to modify the sound). This message is ignored by the R-8M.
- Program change message

# Control change message

This message includes messages such as modulation or pan that are used for musical expression. A control number is used to distinguish the various functions. Each MIDI device will respond to this message in a different way.

The Instrument Section of the R-8M can receive control numbers to modify the sound of specified instruments in up to 9 different ways (ppage 33).

Real-time

# Data handled without regard to the MIDI channel (system messages)

System messages include exclusive message, synchronization message, and message that helps keep a MIDI system running correctly. The R -8M uses mainly real-time messages and exclusive messages.

Common message includes song select messages that select songs, and song position messages that
 specify the position in a song. Song position messages are received by the Feel (Groove) function.

Real-time message is used to keep MIDI devices in synchronization. It includes clock messages to keep the tempo together, and messages that start/stop playback, and continue start (resume playback from where the song was last stopped). The R-8M can use real-time message to control the Feel (Groove) function.

● Active sensing This function monitors the connection and condition of the MIDI cable. That is, whether the cable is connected to the device and if the cable is functioning properly.

Exclusive message is data that is unique to a particular device, such as sound data. Exclusive message is generally transmitted and received between devices of the same manufacturer. R - 8M Patch or Feel Patch data can be transmitted as exclusive message and stored in a sequencer, or sent to another R - 8M.

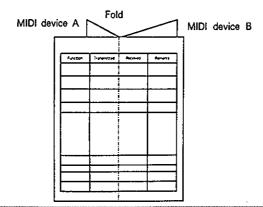
The R - 8M transmits and receives exclusive message on the control channel (\$\sigma\$ page 55).

# MIDI implementation chart

MIDI allows various electronic musical instruments to communicate, but it is possible that not all types of data will be received or transmitted.

For example, even if you transmit aftertouch message from a keyboard, the sound source will not respond unless it is able to receive aftertouch message. The receiving device must be able to receive the type of message that is being transmitted.

This is why the operation manual of each MIDI device includes a MIDI Implementation Chart. This chart tells you at a glance the types of MIDI message that the device is able to transmit and receive. By comparing the implementation charts for two devices, you can see how they will be able to communicate. Since the implementation chart is always a standard size, you can fold the charts in half and place them together to see how the transmitted message of one device matches the received message of the other device.



### TROUBLESHOOTING

If there is no sound or if the unit appears to be operating incorrectly, check the following points first. If you are unable to solve the problem, consult your dealer or a nearby Roland service station.

#### No sound/Volume is too low

● Is the volume knob turned down?

Check the volume of the R-8M and the volume of the mixer and amp.

Is there sound in the headphones?

If there is sound in the headphones, the problem is either in the connecting cable or in the mixer/amp system. Check the connections and the mixer/amp system ( P. 8).

- When you transmit MIDI message to the R-8M, does the MIDI message indicator light? If the indicator does not light, check the MIDI channel of the transmitting device and the MIDI cable
- Is the ROM play display selected?

The R-8M will not receive MIDI message in the ROM Play mode.

#### Instrument section does not sound

Are the instruments correctly assigned?

Instrument assign (P. 26)

● Are the output assignments set to MULTI 1—6? Instruments set to MULTI 1—6 will not be sent from MIX OUT.

Output assign (P. 28)

- Is Layer function turned on? If Layer function is on, there will be no sound even if note message for note numbers 77-108 is received. Layer function (₽ P. 25)
- Are the volume-related parameters set correctly?

Volume ( P. 25), Level ( P. 28)

◆ Has the volume been lowered by volume messages received from an external device? Reselect the Patch.

#### Performance section does not sound

● Is the output assign set to MULTI 1—6? When MULTI 1—6 is selected the sound will not be sent from MIX OUT.

Output assign (P. 38)

● Is the key range set correctly?

Key range high/low (\$\sigma\$ P. 35)

• Are the volume-related parameters set correctly?

Volume ( □ P. 35)

• Has the volume been lowered by volume messages received from an external device? Reselect the Patch.

The sound breaks off • Are you playing too many instruments at once?

The R-8M can produce up to 12 simultaneous notes. A single R-8M cannot produce more than 12 notes at once.

◆Are the stack settings correct?

Stack ( ₽ P. 58)

Is the assign type set to MONO or EXC?

Instrument Section (P. 28), Performance Section (P. 38)

● Is the "note off" switch turned on?

Instrument Section ( P. 30), Performance Section ( P. 38)

● Is the velocity switch (note off) turned on? Velocity switch (note off) (□P. 56)

#### Variations in velocity do not affect the volume

● Is the velocity curve set to 7 or 8?

Instrument Section ( P. 29), Performance Section ( P. 38)

#### Two instruments sound at once

● Is Layer function turned on? If Layer function is turned on, two instruments will be sounded simultaneously for note numbers 29—60. Layer function ( $\sigma$ P. 25)

◆Check to see if Instrument Section and Performance Section share same MIDI channel. Instrument Section ( P.25), Performance Section ( P.35)

#### Cannot make settings for note numbers 77-108 (Instrument Section)

● Is Layer function turned on? If Layer function is turned on, the instruments of note numbers 77—108 will be treated as note numbers 29—60. Layer function ( ¬P. 25)

#### Sound does not change in a Performance Section

● Is Key Follow set to 0 or off? Key follow (□ P. 36)

#### Feel function does not affect the sound

● Is a Feel Patch selected? Select a Feel Patch (□ P. 14)

● Is Feel function turned off? Regular Feel select ( P. 48), Random depth ( P. 50)

- Is the instrument specified by the Feel Patch assigned to the currently selected Patch? Instrument Assign of the Patch (\$\sigma\$P.26, P.38), Instrument Assign of the Feel Patch (\$\sigma\$P.47)
- Regular Feel (Groove) will operate only when MIDI clock message is being received.

#### Program changes do not select Patches or Feel Patches

● Is the program change switch off? Program change switch ( P. 55)

- ullet Does the transmit channel of the controller match the control channel of the R 8M? Control channel ( $\simeq$  P. 55)
- Is the program change map set correctly? Program change map (□ P. 57)

#### Cannot control the R-8M using certain types of MIDI message

● Are the various reception switches in the setup mode turned off? MIDI (setup) settings ( P. 55)

• Is the pan switch (setup) turned on?

If the pan switch is turned on, control number 10 will control panning. This means that the control number specified in the Instrument Section will not control panning ( $rac{r}$  P. 55).

#### Cannot receive exclusive message

● Is the exclusive switch turned off? Exclusive switch (□P. 55)

◆ Is memory protect turned on? Memory protect (□ P. 56)

◆ Does the basic channel of the transmitting device match the control channel of the R - 8M? Control channel ( ¬ P. 55)

#### The R-8M's display is difficult to read

● Adjust the display contrast ( → P. 65).

### ERROR MESSAGES

If you operate the R-8M incorrectly or if some unexpected condition occurs, the R-8M will display one of the following error messages. Take the appropriate action given for each error message.

\*\* BACKUP NG. \*\* Press ENTER. Problem: The backup battery inside the R-8M has run down.

Action: Press ENTER and normal operation will resume, but the settings of the R-8M internal memory will not be preserved. Consult your dealer or nearby Roland service station to have the battery replaced.

MIDI Buffer Full

Problem: The R - 8M received more MIDI message than it could handle at once.

Action : Reduce the amount of MIDI message that is being transmitted to the R-8M.

Chk Sum Enn [\*\*]

Check sum of the received data

Problem: An exclusive messages was not correctly received (check sum error).

Action : Check the data being transmitted from the transmitting device, and repeat the operation.

Serial Error.

Problem: MIDI message was not received correctly.

Action : If this display appears frequently, consult your dealer or nearby Roland service

station.

Act Sensin9 Err.

Problem: A malfunction has occurred in the device connected to the R-8M's MIDI IN connector (active sensing error).

Action : Check the MIDI IN connections (broken cable, MIDI cable pulled out, etc.).

Problem: The RAM card protect switch is turned on.

Card Protected.

Action: Turn the protect switch off.

Card Not Ready.

Problem: The RAM card is not correctly inserted into the RAM card slot.

Action : Insert the RAM card correctly (all the way) into the RAM card slot.

Unavailable Card

Problem: The R - 8M cannot use this RAM card.

Action: Use the correct RAM card (M - 256E/D).

SAVE/LOAD Error.

Problem: Could not correctly save/load RAM card data.

Action : Check that the RAM card is inserted correctly, and try the operation once again.

Wrong Card.

Problem: The R-8M cannot use this Card.

Action : Immediately remove the card to avoid malfunction.

New Card.

Problem: The RAM card does not contain R - 8M data.

Action: If you wish to use the card with the R-8M, use the save operation ( $\Rightarrow$  page 61).

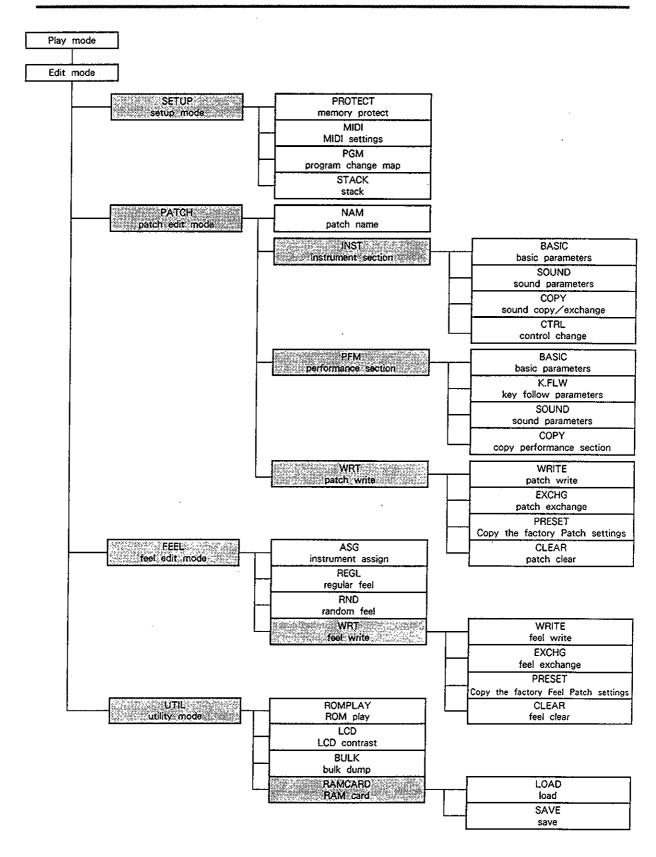
Card for \*\*\*\*\*

Model name

Problem: The RAM card contains data for another Roland device.

Action: If you wish to use the card with the R - 8M, use the save operation ( = page 61).

# R-8M MODE CHART



# **R-8M PARAMETERS**

### Patch

### Setup

		Parameter	Range of values			-	Parameter		Rane	ge of values
$\Box$	- ^	1	- (space) A-Z a-z	╓			Control channel	-	1 10113	1—16
1 3	name	Patch name (8 characters)	0-9 & #!? • ,:; " *				Program change swi	tch		ON, OFF
٥	ĭë	1	+-/<=> () []				Exclusive switch			ON, OFF
		Receive channel	1—16		_		Volume switch			ON, OFF
1	Basic	Volume	0—127		₫		Bender switch			ON, OFF
	&	Bend range	0-12		_		Pan Switch			ON, OFF
		Layer function	ON, OFF				Hold switch			ON, OFF
	-108)	Instrument assign	**-**, I-01—I-68, 01-01—01-26, •••				Velocity switch (not	te off)		ON, OFF
	21—1	mstrament assign	30-01-30-26			_	protect			ON, OFF
_	l .	Pitch	- 4800+ 4800	Program change map (1—128)		8	Patch number		1-01— C-01—	I · 32. -C · 32. ————
Section	numbers :	Decay	0—127	8	, e	-12				
၂မွ	<u>=</u>	Nuance	0—15	2-15		7	Feel Patch number		1-01-	i - 16. OFF.
Instrument	(note n	Output assign	LEFT1—3, CENTER, RIGHT1—3, MULTI1—6			_				-C-16
5	٤	Level	0-15				Stack switch		ON, O	FF
ıst	ᄝ	Assign type	POLY, MONO, EXC1-8	Stack			Number of units		1-8	
1-	Sound	Velocity curve	1-8				Device number		1-8	
	S	Note off switch	ON, OFF	·	l lailia		_			
	ao	Modulation	**-**, 1-01-1-68.	Utilit		HŁ	y			
1	change	Control 1	01 - 01 - 01 - 26,				Parameter		Rang	ge of values
		Control 2	30-01-30-26	╟			LCD contrast		0-15	
	Control	:		<u> </u>	-					<u> </u>
	Ş	:	PITCH, DECAY, NUANCE,	F	ee	el	Patch (se	ts 1	<b>—8</b>	)
L	)	Control 8	PANPOT			_				
		Receive channel	1—16	_			Parameter	H	ange c	f values
	;	Volume	0—127		Ē	ļ		1-01—	- 68,	
	Basic	Key range low	C- —G9		assign		strument assign	01 - 01 - 01 - 26,		-
	82	Key range high	C- —G9	'	nstrument Par			30-01-30-26		6
		Bend range	0—12		Ě	<b>-</b>		VELO, PITCH, DECAY, NUANCE		DECAY
		Modulation	OFF, DECAY, NUANCE		USI	Pa	rameter			DECAT,
		Reference note number	0-127		_ 	Ц.		NOANCE		
4	follow	Key follow (pitch)	- 990+ 990		Re	gula	r Feel select	GROOV	GROOVE, VELOCITY, OFF	
1-		Key follow (decay)	-9-+9		Г	Gr	oove type	1—16		
Section	Key	Key follow (nuance)	-2-+2			_		1/4.1	<b>/6.</b> 1.	/8, 1/12,
		Key follow (pan)	-2-+2/OFF			Gr	oove step	1/16,		-,
nce			**-**, I-01—I-68,	<del>-</del>	Groove	Gr	oove depth	18		
T mg		Instrument assign	01 - 01 - 01 - 26, •••	<u>"</u>	&			Velocity	,	- 99+ 99
Performance	1	0	30-01-30-26	Regular Feel		Gr	oove offset	Pitch		- 99+ 99
] =		Pitch	<del>-</del> 4800—+ 4800	æ		۱ ° ۱	0070 011001	Decay		- 20 <del></del> + 20
1	g	Decay	0—127	:				Nuance		15+ 15
		Nuance	0—15	1	Feel			1 10-		
	50	ivuatice		1	117	I Re	ference velocity	1—127		
	Sound		LEFT1—3, CENTER,	]	ı	` '	•			
	Sou	Output assign	LEFT1—3, CENTER, RIGHT1—3, MULTI1—6		ı					
	Sou				Velocity I		locity sensitivity	- 7-+		
	Sou	Output assign	RIGHT1-3, MULTI1-6	- 1	Velocity		locity sensitivity			
	Sou	Output assign Assign type	RIGHT1-3, MULTI1-6 POLY, MONO, EXC1-8	Random	Velocity	Ve	locity sensitivity			

# **R-8M INSTRUMENTS**

Instrument	Display	Instrument name	Remarks
number	+ DDV K1	DDV KIOK 1	
1	* DRY_K1	DRY KICK 1	close miking sound
2	* DRY_K2	DRY KICK 2	close miking sound
3	* W00D_K1	WOOD KICK 1	close miking sound .
4	* DBLH_K1	DOUBLE HEAD KICK 1	
5	* DBLH_K2	DOUBLE HEAD KICK 2	
6	* SOLID_K	SOLID KICK	
7	* ROOM_K1	ROOM AMBIENT KICK 1	with ambience of a large room
8	* ROOM_K2	ROOM AMBIENT KICK 2	with ambience of a large room
9	* MONDO_K	MONDO KICK	
10	* WOOD_S1	WOOD SNARE 1	close miking sound (8 inch snare)
11	* OPENS1	OPEN SNARE 1	close miking sound
12	* TIGHT_S	TIGHT SNARE	close miking sound (5 inch snare)
13	* NICE_S1	NICE SNARE 1	with ambience
14	* FATS1	FAT SNARE 1	
15	* IMPCT_S	IMPACT SNARE	with ambience
16	* SNAP_S1	SNAP SNARE 1	
17	* OUCH_S	OUCH! SNARE	with reverb
18	* RVB_\$1	REVERB SNARE 1	with reverb
19	* PICL_S1	PICCOLO SNARE 1	close miking sound (3 inch snare)
20	* RIMSHT1	RIMSHOT SNARE 1	close miking sound
21	* RIMSHT2	RIMSHOT SNARE 2	with ambience
22	SIDSTK1	SIDE STICK 1	
23	SIDSTK2	SIDE STICK 2	
24	* DRY_T1	DRY TOM 1	close miking sound
25	* DRY_T2	DRY TOM 2	close miking sound
26	* DRYT3	DRY TOM 3	close miking sound
27	* DRY_T4	DRY TOM 4	close miking sound
28	* ROOM_T1	ROOM AMBIENT TOM 1	with ambience of a large room
29	* ROOM_T2	ROOM AMBIENT TOM 2	with ambience of a large room
30	* ROOM_T3	ROOM AMBIENT TOM 3	with ambience of a large room
31	* ROOM_T4	ROOM AMBIENT TOM 4	with ambience of a large room
32	* POWR_T1	POWER TOM 1	with ambience
33	* POWR_T2	POWER TOM 2	with ambience
34	* POWR_T3	POWER TOM 3	with ambience
			L

<sup>\*</sup> Velocity or nuance settings will modify the sound.

<sup>\*\*</sup> Nuance settings will modify the sound.

Instrument number	Display	Instrument name	Remarks
35	* POWR_T4	POWER TOM 4	with ambience
36	* DOOMT1	DOOM TOM 1	sound processed by an effect
37	* * CLSD_H1	CLOSED HIHAT 1	
38	* * OPENH1	OPEN HIHAT 1	
39	PDAL_H1	PEDAL CLOSED HIHAT 1	
40	CRSH_C1	CRASH CYMBAL 1	
41	* * MLLT_C1	MALLET CRASH CYMBAL 1	can be used as a mallet roll
42	* * RIDE_C1	RIDE CYMBAL 1	
43	* * RDBLC1	RIDE - BELL CYMBAL 1	mixed bell and ride
44	BELL_C1	RIDE CYMBAL BELL 1	
45	808CLAP	808 HAND CLAP	TR-808 handelap
46	* OPEN_D1	OPEN DRUM 1	large unmuted drum
47	* TAIKO1	TAIKO 1	traditional Japanese drum
48	CLAVE1	CLAVES 1	
49	CABASA1	CABASA 1	
50	COWBEL1	COWBELL 1	
51	TAMBRN1	TAMBOURINE 1	
52	SHAKER1	SHAKER 1	
53	MUTE_CG	MUTE HIGH CONGA	
54	SLAP_CG	SLAP HIGH CONGA	
55	LOW_CG	OPEN LOW CONGA	
56	* * SLID_CG	SLIDE LOW CONGA	slide playing
57	AGOGO1	AGOGO 1	
58	* * OCT_AGG	OCTAVE AGOGO	
59	WHISTL1	WHISTLE 1	short sound
60	WHISTL2	WHISTLE 2	long sound
61	* * CAN1	CAN 1	
62	* * BACKS1	BACK SNARE 1	reverse of RVB_S1 (inst #18)
63	BACKT1	BACK TOM 1	reverse of DOOM_T1 (inst #36)
64	BACKC1	BACK CYMBAL 1	reverse of CRSH_C1 (inst # 40)
65	* * SPARK1	SPARK 1	,
66	* * SURF	SURF	
67	* * WHEEL1	WHEEL 1	
68	REST	REST	no sound (use to mute other sounds)

Velocity or nuance settings will modify the sound.

<sup>\*\*</sup> Nuance settings will modify the sound.

# SOUND PARAMETER INITIAL SETTINGS

INST #	INSTRUMENT NAME	PITCH	DECAY	NUANCE	OUTPUT	ASSIGN TYPE	VELOCITY CURVE
1	DRYK1	0	4:19	8	CENTER	POLY	2
2	DRY_K2	0	20:12	8	CENTER	POLY	2
3	W00D_K1	0	16:14	8	CENTER	POLY	2
4	DBLH_K1	0	19:13	8	CENTER	POLY	2
5	Q8LH_K2	0	25:12	8	CENTER	POLY	2
6	SOLID_K	0	7: 7	8	CENTER	POLY	2
7	ROOM_K1	0	24:20	8	CENTER	POLY	2
8	ROOM_K2	0	24:24	8	CENTER	POLY	2
9	MONDO_K	0	20:23	8	CENTER	POLY	2
10	W00D_S1	0	19:14	8	CENTER	POLY	2
11	OPEN_S1	0	27:14	8	CENTER	POLY	2
12	TIGHT_S	0	19:14	8	CENTER	POLY	2
13	NICE_S1	0	23:17	8	CENTER	POLY	2
14	FAT_S1	0	22:15	8	CENTER	POLY	2
15	IMPCT_S	0	23:16	8	CENTER	POLY	2
16	SNAP_S1	0.	16:13	8	CENTER	POLY	2
17	OUCH_S	0	20:16	8	CENTER	POLY	2
18	RVB_\$1	0	35:33	8	CENTER	POLY	2
19	PICL_S1	0	19:16	8	CENTER	POLY	2
20	RIMSHT1	0	16:13	8	CENTER	POLY	2
21	RIMSHT2	0	21:17	8	CENTER	POLY	2
22	SIDSTK1	0	10:		CENTER	POLY	2
23	SIDSTK2	0	5:		CENTER	POLY	2
24	DRY_T1	0	30:35	8	RIGHT3	POLY	2
25	DRY_T2	0	29:33	8	RIGHT1	POLY	2
26	DRY_T3	0	28:30	8	LEFT 1	POLY	2
27	DRY_T4	0	27:24	8	LEFT 3	POLY	2
28	ROOM_T1	0	34:33	8	RIGHT3	POLY	2
29	ROOM_T2	0	33:31	8	RIGHT1	POLY	2
30	ROOM_T3	0	32:29	8	LEFT 1	POLY	2
31	ROOM_T4	0	31:27	8	LEFT 3	POLY	2
32	POWR_T1	0	34:27	8	RIGHT3	POLY	2
33	POWR_T2	0	33:25	8	RIGHT1	POLY	2
34	POWR_T3	0	32:23	8	LEFT 1	POLY	2

INST #	INSTRUMENT NAME	PITCH	DECAY	NUANCE	OUTPUT ASSIGN	ASSIGN TYPE	VELOCITY CURVE
35	POWR_T4	0	31:20	8	LEFT 3	POLY	2
36	DOOM_T1	0	50:		RIGHT3	POLY	2
37	CLSD_H1	0	12:12	8	LEFT 1	EXC1	2
38	OPENH1	0	35:40	8	LEFT 1	EXC1	2
39	PDAL_H1	0	15:		LEFT 1	EXC1	2
40	CRSH_C1	0	55:		LEFT 2	POLY	2
41	MLLT_C1	0	60:60	5	LEFT 1	POLY	2
42	RIDE_C1	0	50:50	8	RIGHT2	POLY	2
43	RDBL_C1	0	50:50	8	RIGHT2	POLY	2
44	BELL_C1	0	50:		RIGHT2	POLY	2
45	808CLAP	0	23:		RIGHT1	POLY	2
46	OPEN_D1	0	28:30	8	RIGHT1	POLY	2
47	TAIK01	0	8:30	8	CENTER	POLY	2
48	CLAVE1	0	9:		CENTER	POLY	2
49	CABASA1	0	8:		RIGHT2	POLY	2
50	COWBEL1	0	16:		LEFT 2	POLY	2
51	TAMBRN1	0	21:		LEFT 1	POLY	2
52	SHAKER1	0	12:		LEFT 2	POLY	2
53	MUTE_CG	0	10:		RIGHT1	POLY	2
54	SLAP_CG	0	20:		RIGHT1	POLY	2
55	LOW_CG	0	29:		CENTER	POLY	2
56	SLID_CG	0	18:50	8	CENTER	POLY	2
57	AGOGO1	0	20:		RIGHT2	POLY	2
58	OCT_AGG	0	20:20	8	LEFT 2	POLY	2
59	WHISTL1	0	7:		LEFT 2	EXC2	2
60	WHISTL2	0	3:		LEFT 2	EXC2	2
61	CAN1 .	0	20:30	8	RIGHT3	POLY	2
62	BACK_\$1	0	0: 0	8	LEFT 1	POLY	2
63	BACK_T1	0	0:		RIGHT1	POLY	2
64	BACK_C1	0 .	0:		CENTER	POLY	2
65	SPARK1	0	70:70	8	LEFT 2	POLY	2
66	SURF	0	127:127	8	CENTER	POLY	2
67	WHEEL1	0	60:60	8	RIGHT2	POLY	2
68	REST	0	0:		CENTER	EXC8	2

# **BLANK CHARTS**

### Feel Patch #:

		Assign					Regular Feel	,		Random Feel
Şet	Ass	agn	Regular	· · · ·			Groove	Velocity		
	Inst	Param	Select	Туре	Step	Depth	Offset 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Ref. Velo	Sens	Depth
1										
2									•	
3										
4										
5										
6			Ī							
7										
8										

Patch #: Name:

### **Performance Section**

			Ba	sic			Key Follow				Sound								
#	Rx Ch	Vol.	Key f	Range High	Bend Range	Mod	Ref. Note#	Pitch	Decay	Nuance	Pan	Inst Assign	Pitch	Decay	Nuance	Output Assign		Velo Curve	Note Off Switch
1																			<u> </u>
2																			
3															<u> </u>				<u> </u>
4															l		<u> </u>		

### Instrument Section

Basic

Receive Channel	
Volume	
Bend Range	
Laver function	-

Control Change

	Instrument	Parameter
Mod (1)		
Ctrl - 1 (16)		
Ctrl-2 (17)		
Ctrl - 3 (18)		
Ctrl - 4 (19)		
Ctrl - 5 (80)		
Ctrl-6 (81)		
Ctrl - 7 (82)		
Ctrl - 8 (83)		

### **Instrument Section**

Note #	Inst Assign	Pitch	Decay	Nuance	Output Assign	Level	Assign Type	Velo Curve	Note Of Switch
21			:						
22			:						
23			:						<u> </u>
24			:						
25	•		:					İ	1
26			:						<u> </u>
27			;						1
28			:						1
29	, ,		:						
30			:						
31			:						<del>-</del>
32			:	<u> </u>					
33	-		:						
34			:					-	†
35			:	1					<del>                                     </del>
36			:	<del>                                     </del>		<del></del>		-	1
37			:		<u> </u>				†
38			:	†	<del>-</del>	<u> </u>			<del>                                     </del>
39		<del>                                     </del>	:	<del> </del>					+
40		<del> </del> -	:						-
41		<del>                                     </del>	:	<del>                                     </del>					ļ
42		-	:						
43		-	:	<del>                                     </del>					<del> </del>
44		<del>                                     </del>	:	<del>                                     </del>					<del>                                     </del>
45		<u> </u>	:	<del> </del>					<del>                                     </del>
46			:	<del> </del>					<del> </del>
47		<del> </del>	:	<del> </del>				<u> </u>	
48	<del></del>	<del></del> -	;	<del>                                     </del>	-			<u>-</u>	<del> </del> -
49			:	<del> </del>	<del></del>				<del> </del>
50			<del> </del>	ļ	<u></u> -				ļ
51			:	<del> </del>					
52		<del> </del>	:		-				<u> </u>
53			:	ļ					
54			:						
		-	:	<del> </del>					-
55		<del>                                     </del>	:						
56		ļ	:	<u> </u>					ļ
57		ļ	:	<b> </b>					ļ
58		ļ	:	ļ					ļ
59			:	ļ					<u> </u>
60			:	ļ					
61			:						
62			;						
63			;						
64		1 .	:	1			I		]

### Instrument Section

Note #	Inst Assign	Pitch	Decay	Nuance	Output Assign	Level	Assign Type	Velo Curve	Note Off Switch
65			. :						
66			:	ļ			<u></u>		<u> </u>
67		ļ	;						<u>'</u>
68			:						
69			:						
70			:						
71			:						
72			• ;						
73			:						
74			:						
75			:						
76			;						
77			:						
78			:	,					
79			:						
80			:						
81			:						
82		1	:	<del></del>					-
83		<u> </u>	:						
84			:						
85			:						
86			:						
87		<u> </u>	;						
88	*	· · · · · · · · · · · · · · · · · · ·	:	i					
89			:						
90			:						
91			:						
92			:						
93		<del> </del>	:						
94			:						
95			:						
96		<del>                                     </del>	:						
97			:	<u> </u>					· · · ·
98			:						
99			:						
100			:					-	
101		<del> </del>		<del>  </del>					
102		<b> </b>	:		<del></del> -				
		<del>  </del>	:						
103 104			<u> </u>						
			;		-				
105			:	<u> </u>					
106			:	<u></u>					
107			: :	<b></b>					
108			:		·				

# Program Change Map

PGM #	Patch #	Feel Patch#	PGM #	Patch #	Feel Patch#	PGM #	Patch #	Feel Patch#	PGM #	Patch #	Feel Patch#
1			33			65			97		
2			34			66			98		
3			35			67			99		
4			36			68			100		-
5			37			69			101		
6			38			70			102		
7			39			71			103		
8			40			72			104		
9			41			73			105		
10			42			74			106		
11			43			75			107		
12			44			76			108		
13			45			77			109		
14			46			78			110		
15			47			79			111		
16			48	_		80			112		
17			49			81			113		
18			50			82			114		
19			51			83			115		
20			52			84		ļ	116		
21			53			85			117		
22			54			86			118	·	
23			55			87			119		
24			56			88			120		-
25			57			89			121		
26			58			90			122		
27			59			91			123		
28			60			92			124		
29			61			93			125		
30			62			94			126		
31			63			95			127		
32			64			96			128		

# PATCH LIST

Patch Number	Patch Name	Remarks
01	Standard	Basic drum set
02	BeefKit	American dance music drum set
03	DoomKit	Heavy metal drum set
04	HouseKit	"House music" type drum set
05	Stereo1	Stereo drum set (1)
06	Flange1	Flanged drum set (1)
07	GetFunky	Funk music drum set
08	JunkYard	Drum set made of junk objects
09	Cowntry1	Country music drum set (1)
10	Jahzz	Jazz-type drum set
11	BigRockr	Hard rock drum set
12	JustPerc	Drum set with mainly percussion
13	MondoKit	American dance music "Very Big Sound"
14	Studio	Drum set with unprocessed sounds
15	Cowntry2	Country music drum set (2)
16	Stereo2	Stereo drum set (2)
17	OldieKit	Oldies drum set
18	Flange2	Flanged drum set (2)
19	Flange3	Flanged drum set (3)
20	LatinSet	Latin-type drum set
21	FATSO	Fat-sounding drum set
22	SN-R8-01	Patch for sound ROM card (SN-R8-01)
23	SN-R8-02	Patch for sound ROM card (SN-R8-02)
24	SN-R8-03	Patch for sound ROM card (SN-R8-03)
25	SN-R8-04	Patch for sound ROM card (SN-R8-04)
26	SN-R8-05	Patch for sound ROM card (SN-R8-05)
27	SN-R8-06	Patch for sound ROM card (SN-R8-06)
28	SN-R8-07	Patch for sound ROM card (SN-R8-07)
29	SN-R8-08	Patch for sound ROM card (SN-R8-08)
30	SN-R8-09	Patch for sound ROM card (SN-R8-09)
31	User	Same settings as Patch number 01
32	User	Same settings as Patch number 01

<sup>\*</sup> Regardless of the Patch you select, you can play Bass on Performance Section 1 (MIDI channel 2), and chords or melody on Performance Section 2 (MIDI channel 3).

## Patch 01 : Standard

#### ■ Instrument Section

Receive	ch	1(	)
inst Number	Instrument Name	Note N	umber
1-35	POWR_T4		. 93
OFF	5000	92	
I-34 I-37	POWR_T3 CLSD_H1	90	91
1-33	POWR_T2	90	89
i-10	WOOD_S1		. 88
1-13	NICES1	87	
1-11	OPEN_S1		86
1-03	WOOD_K1	85	84
1-05 OFF	DBLH_K2		
I-48	CLAVE1	82	83
OFF		UL	81
OFF	20200000000000 <del></del> 0000000000000000000000	80	<u> </u>
OFF	50 March 2017		79
OFF		78	77
OFF OFF	<del> </del>	<del></del>	
I-48	CLAVE1	75	76
OFF		, 3	74
OFF		73	
1-60	WHISTL2		72
1-59	WHISTL1	70	71
1-52 1-49	SHAKER1 CABASA1	70	69
1-57	AGOGO1	68	L 09
1-57	AGOGO1	·	67
OFF	2000 2000 <del>20</del> 00 2000 2000 2000 2000 200	66	
OFF			65
I-55 I-55	LOW_CG LOW_CG	63	64
1-53	MUTE_CG	03	62
OFF		61	<u> </u>
OFF			60
<u>OFF</u>			. 59
1-15 1-40	IMPCT_S	58	
1-50	CRSH_C1 COWBEL1	56	57
1-40	CRSHC1	. 50	55
1-51	TAMBRN1	54	
I-44	BELL_C1		53
OFF			52
I-42 I-31	RIDE_C1	51	<u> </u>
1-31 1-40	ROOM_T4 CRSH_C1	49	50
1-27	DRY_T4	43	48
1-30	ROOM_T3		. 47
1-38	OPEN_H1	46	
I-26 I-39	DRY_T3 PDAL_H1	44	45
1-29	ROOM_T2	-	43
1-37	CLSD_H1	42	
1-25	DRY_T2		41
1-18 1-45	RVB_S1	20	40
1-45	808CLAP FAT_S1	39	38
1-22	SIDSTK1	37	
1-07	ROOM_K1		36
I-01	DRY_K1	2.4	35
OFF OFF		34	33
			. 33
ÖFF	—	32	

#### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	<u>-</u>
Performance Section 4	

## Patch 02 : BeefKit

#### ■ Instrument Section

Receive	OII .	11	
Inst Number	Instrument Name	Note N	lumber
OFF.		-72	76
1-48 OFF: ∗√	CLAVE1	75	74
OFF		73	
I-60	WHISTL2		72
1-59 1-52	WHISTL1 SHAKER1	70	71
1-49	CABASA1		69
1-57	AGOGO1	68	
1-57	AGOGO1	66	67
OFF 3			65
1-55	LOW_CG	20	64
1-55 1-53	LOW_CG MUTE_CG	63	62
OFF		61	<del></del>
OFF OFF			60
OFF OFF			59
ŎŖĔ	IMPCT_S	58	ightharpoonup
OFF			57
I-40 OFF	CRSH_C1	56	
I-50 CEF	COMBELI		55 55
1-40 Ac OFF	CRSH_C1	<i>-</i>	. 33
J-51	TAMBRN1	54	53
06F:6	8ELL_C1		
OFF			_ 52
OFF	RIDE_C1	51	
I-31 I-27	ROOM_T4 DRY_T4		- 50
OFF.	CRSHC1	49	<u> </u>
I-40 I-30	ROOM_T3		48
1-26 1-34	DRY_T3 ROOM_T3		
I-26	DRY_T3 OPEN_H1	46	47
I-38 I-29	OPEN_H1 ROOM_T2	40	45
1-25	DRY_T2		<b>4</b> 5
OFE 22	PDAL_H1	44	
1-29 1-25	ROOM_T2 DRY_T2		. 43
⊸.off :ی I-37	CLSD_H1	42	<del></del>
1-28 1-24	ROOM_T1 DRY_T1		41
I-19 I-17	PICL_S1 OUCH_S		40
· OFF	808CLAP	39	<b>⊢</b> ⊸
1-18			38
I-19 OFF	PICL_S1 SIDSTK1	37	<u> </u>
I-22 I-08	ROOM_K2	- 51	36
1-04	ROOM K2		
1-01	DRY_K1		35
OFF		34	<b> </b>
OFF			33
OFF		32	
OFF			31
OFF OFF		30	
······································	0000 - 52,500 0000 52,500 000 000 000 00 000 000 000 000 000		<u> </u>

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	. 4
Performance, Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

# Patch 03 : DoomKit

#### ■Instrument Section

Receive ch	10

· · · · · ·	1		
Inst	Instrument Name	Note N	umber
Number OFF			- 70
I-48	CLAVE1	75	76
ÖFF	<del></del>		74
OFF	MALICEL A	73	72
I-60 I-59	WHISTL2 WHISTL1		71
1-52	SHAKER1	70	71
I-49	CABASA1		69
I-57 I-57	AGOGO1 AGOGO1	68	67
OFF	AGUGUT	66	
ÖFF	200 (0.00 (0.00 <del>1.10</del> (0.00 (		65
1-55	LOW_CG		64
1-55 1-53	LOW_CG MUTE_CG	63	62
OFF	WO.12_00	61	
OFF	Ξ		60
OFF	**************************************		E0.
OFF OFF I-15	######################################	58	59
I-15 OFF	IMPCT_S	30	
1.40	CRSH_C1		57
0FF 1-50	COWBELI	56	
0FF I-40	CRSH_C1		55
066 i-51	TAMBRN1	54	
OFF	_		53
OFF OFF	BELL_C1		
OFF OFF	RIDE CI	<i>E</i> 1	52
I-42 I-36	RIDE_C1 DOOM_T1	51	
1-27	DRY_T4		50
OFE I-40	CRSH_C1	49	
I-36 I-25	D00M_T1 DRY_T2		48
I-36 I-25	D00M_T1 DRY_T2		47
OFF	Re action action and all the contractions are all the contractions and the contractions are all	46	47
I-38 I-36	OPEN_H1 DOOM_T1	70	45
I-25 OFF	DRY_T2		45
I-39	PDAL_H1	44	
I-36 I-25	DOOM_T1 DRY_T2		43
OFF I-37	CLSD_H1	42	
I-36 I-24	DOOM_T1 DRY_T1		41
ÖFÉ	\$200 0 \$200 \$2 \$44 \$6 \$40 \$2 \$40 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2		40
OFF	BACK_S1	39	40
I-45 I-18	808CLAP RVB_S1	38	
I-14 OFF	FAT_S1		38
1-22	SIDSTKI	37	
I-02 I-06	SOLID_K		36
I-08 I-09	ROOM_K2 MONDO_K		35
OFF OFF	-	34	30
OFF OFF	— (C. C. C	<b>V</b> 7	່ວລີ
OFF OFF			33
OFF	<u>-</u>	32	
OFF OFF	-		31
OFF OFF	Ξ	30	

<sup>\*</sup> Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

### Patch 04 : HouseKit

### ■ Instrument Section

Receive ch	10

Land	T .	· · · · · · · · · · · · · · · · · · ·	
Inst	Instrument Name	Note N	umber
Number	van in ministration of the contract of the con		
J-48	CLAVE1	75	76
S OFF	CLAYEI		74
OFF		73	<u> </u>
1-60	WHISTL2		72
i-59	WHISTL1		. 71
1-52	SHAKER1	70	<del>                                     </del>
1-49	CABASA1		69
1-55	LOW_CG	68	ļ
1-44	BELL_C1		67
OFF		66	
1-48	CLAVE1		65
I-55	LOWCG	2.0	64
1-55	LOW_CG	63	
1-65	SPARK1	C 1	62
I-55	LOW_CG	61	60
OFF OFF	-		00
OFF OFF	-		59
OFF	<del>-</del>	60	تون ا
1-15	I IMPCT_S	58	
OFF	CRSH_C1		57
OFF	ACC 10 000 00 000 000 000 000 000 000 000	56	
I-50 OFF	COWBEL1		i
1-40	CRSH_C1		. 55
I-51	TAMBRNI	54	
OFF	I AMBANI		. 53
1-44	8ELL_C1		
OFF			52
or coff which		51	
I-42 I-61	RIDE_C1 CAN1		
I-27	DRV TA		50
1-64 1-40	BACK_C1 CRSH_C1	49	
1-61	CANI		48
1-26	DRY_T3		
1-61 1-26	CAN1 DRY_T3		47
<b>0FF</b>	DRY_T3	46	
1-38	OPEN_H1		
1.25	DRY_T2		45
1-39	PDAL_H1	44	
1-61	CANI		43
1-25	DRY_T2		43
ين بينو <b>OFE</b> 1-37	DRY_T2	42	
I-61	J CANI		41
I-24 I-45	DRY_T1 808CLAP		-
I-12	TIGHT_S		40
::-::0 <b>E</b> f.::233	808CLAP	39	
1-61	CANI		20
1-19	PICL_S1		38
0.FF I-22	SIDSTKI	37	
1.47	TAIKOT		36
I-02 I-24	DRY_K2 DRY_T1		
1.07	ROOM_K1		35
OFF OFF		34	
OFF OF			22
OFF			33
OFF OFF		32	
OFF	70.00 01.00 <del>-</del> (1770.078.9		31
OFF			ν' ]
OFF OFF		30	

<sup>\*</sup> Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	1-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	

### Patch 05 : Stereo1

#### ■ Instrument Section

Receive	ch	•	10
Inst Number	Instrument Name	Note	Number
OFF	OLAVEA	.75	76
I-48 OFF	CLAVE1	·75	74
OFF	1000 (100 100 100 <del></del> 100 100 100 100 100 100 100 100 100 10	73	72
1-60 1-59	WHISTL2 WHISTL1		72
I-52	SHAKER1	70	71
1-49	CABASA1		69
1-57 1-57	AGOGO1 AGOGO1	68	67
OFF		66	65
OFF 1-55	LOW_CG		
1-55	LOW_CG	63	64
I-53	MUTE_CG	C 1	62
OFF	OCT_AGG	61	60
1-58 1-52	OCT_AGG SHAKERI		
1-52 1-61	SHAKER1 CANI	50	<b>5</b> 9
1-61 1-65	CAN1 SPARK1	58	
1-65	SPARKI COWSELI		57
I-50 I-50	COW8EL1	56	
I-40 I-40	CRSH_C1 CRSH_C1		55
I-51 I-51	TAMBRN1 TAMBRN1	54	
I-44 I-44	BELL_C1 BELL_C1		53
1-64 1-64	BACK_C1		52
I-42 I-42	RIDE_C1	51	J2
I-31	RIDE_C1 ROOM_T4		<b>-</b> 50
I-35 I-40	POWR_T4 CRSH_C1	49	
1-40 1-30	CRSH_C1 ROOM_T3		48
I-35 I-30	POWR_T3 ROOM_T3		
I-34 I-38	POWR_T3 OPEN_H1	46	47
I-38 I-29	OPEN_H1 ROOM_T2	40	45
1-33 1-37	POWR_T2 CLSD_H1		<b>4</b> 5
1-37	CLSDH1	44	
I-29 I-33	ROOM_T2 POWR_T2		43
1-37 1-37	CLSD_H1 CLSD_H1	42	
I-28 I-32	ROOM_T1 POWR_T1		41
I-18 I-13	RV8_S1 NICE_S1		40
I-45 I-45	808CLAP	39	.,
I-17 I-19	808CLAP OUCH_S PICL_S1		38
1-22	SIDSTKI	37	
1-03	WOOD_K1		36
I-02 I-07	DRY_K2 ROOM_K1		
I-01 I-55	DRY_K1 LOW_CG	2.4	35
I-55 I-54	LOW_CG SLAP_CG	34	
I-54 I-53	SLAP_CG MUTE_CG		33
I-53	MUTE_CG	32	
1-41	MLLT_C1 MLLT_C1		31
1-47 1-47	TAIKO1 TAIKO1	30	

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

_	
	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	1-48 : CLAVE1
Performance Section 3	_
Performance Section 4	<u></u>

# Patch 06 : Flange1

#### ■ Instrument Section

Receive	ch	10	)
Inst Number	Instrument Name	Note N	umber
OFF	\$756.7555.8155685. <del>(~`</del> 5)558.515955.68 <b>6</b> 6		. 76
-48	CLAVE1	75	74
OFF		73	
1-60	WHISTL2		72
1-59 1-52	WHISTL1 SHAKER1	70	71
1-49	CABASA1		69
I-57	AGOGO1	68	<del> </del>
1-57	AGOGO1	66	67
OFF		66	65
I-55	LOW_CG		. 64
I-55	LOW_CG	63	
I-53	MUTE_CG	61	62
1-58	OCT_AGG	Q.	60
I-58 I-52	OCT_AGG SHAKER1		
1-52	SHAKERI CANI		59
I-61 I-61	CANI	58	
I-65 I-65	SPARKI SPARKI		57
1-50	COWBEL1 COWBEL1	56	
1-50	CRSH_C1		55
I-40 I-51	CRSHC1 TAMBRN1	54	<b>Q</b> U
I-51 I-44	TAMBRN1 BELL_C1		53
1-44	BELL_C1		
I-62 I-62	BACK_\$1 BACK_\$1		52
I-42 I-42	RIDE_C1 RIDE_C1	51	
1.31	ROOM_T4		50
I-31 I-40	ROOM_T4 CRSH_C1	49	* * *
1-40	CRSH_C1 ROOM_T3	. 43	48
1-30	ROOM_T3 ROOM_T3		
1-30 1-30	ROOM_T3		47
1-38 1-38	OPEN_HI	46	
1-29	ROOM_T2 ROOM_T2		45
1-29	PDAL_H1	44	
1-39 1-29	PDAL_H1 ROOM_T2		43
1-29	ROOM_T2 CLSD_H1		**
1-37	CLSD_H1	42	
1-28 1-28	ROOM_T1 ROOM_T1		41
1-21 1-21	RIMSHT2 RIMSHT2	•	40
1-45	808CLAP	39	
I-45 I-18	808CLAP RVB_S1		38
I-18 I-23	RVB_S1 SIDSTK2	37	
I-23 I-02	SIDSTK2 DRY_K2	31	36
1-02	DRY_K2		30
I-08 I-08	ROOMK2 ROOMK2		35
I-55	LOW_CG	34	
1-55 1-54 1-54	LOW_CG SLAP_CG SLAP_CG MUTE_CG		33
1-53	MUTE_CG	32	
I-53	MUTECG	74	ا ,,
1.41	MLLT_C1 MLLT_C1 TAIKO1		31
1-47	TAIKOI	30	

<sup>\*</sup> Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	-
Performance Section 4	

## Patch 07 : GetFunky

#### ■ Instrument Section

Receive ch	10

Inst	Instrument Name	Note N	umber
Number OFF			. 76
I-48	CLAVE1	75	
OFF OFF	_	73	74
1-60	WHISTL2	, ,	72
1-59	WHISTL1	50	71
I-52 I-49	SHAKER1 CABASA1	70	69
1-57	AGOGO1	68	
I-57 OFF	AGOGO1	66	67
OFF		.00	65
1-55	LOW_CG	63	64
I-55 I-53	LOW_CG MUTE_CG	63	62
OFF		61	ļ
OFF OFF OFF	<u> </u>		60
Issues OF Property	Ξ		59
OFF I-15	IMPCT_S	58	
0FF I-40	CRSH_C1		57
I-40 OFF I-50	COWBEL1	56	
OFF I-40	CRSH_C1		55
0FF	TAMBRNI	54	
0FF	ADBLC1		53
OFF OFF	Ξ.		52
0FF	RIDE_C1	51	<u> </u>
OF F	DRY_T3		50
0FF 1-40	CRSH_C1	49	
0FE	DRY_T3		48
0FF	DRYT3		47
0FE	OPEN_H1	46	<del></del> -
0FE	\$5000000000000000000000000000000000000		45
OFF	DRY_T2	44	
0FF	PDAL_H1		43
I-25 OF E	DRY_T2 CLSD_H1	42	
I-37 OFE		7.5	41
I-25 I-10	W00D_S1		
1-20 OF F	RIMSHT1 808CLAP	39	40
I-45 I-19		38	38
I-12 OFF	TIGHT_S	27	36 
I-22 OFF	SIDSTK1	37	36
I-03 OFF	W00D_K1		
1-02	DRY_K2	2.4	35
OFF OFF	-	34	
OFF OFF	=		33 I
OPF OFF	Ξ	32	
ÖFF OFF			31
ÖFF	<b>—</b>	30	

<sup>\*</sup> Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	
Performance Section 4	_

# Patch 08 : JunkYard

### ■Instrument Section

Receive	ch	. 1	10
Inst Number	Instrument Name	Note	Number
OFF		7,5	76
1-48 OFF	CLAVE1	75	74
ÖFF	-	73	
1-60	WHISTL2		72
1-59	WHISTL1	70	71
1-52 1-49	SHAKER1 CABASA1	70	69
1-57	AGOGO1	68	
1-57	AGOGO1		67
OFF OFF	====	66	65
I-55	LOW_CG		_ 64
I-55	LOW_CG	63	
I-53	MUTE_CG	21	62
OFF 1-61	CAN1	61	60
1-58	OCT_AGG TAMBRN1	•	
1-52	SHAKERI		59
0FE 1-61	CAN1	58	
0FF I-65	SPARK1		 57
1-58	OCT_AGG	56	
1-65	COWBEL1 SPARKI		- F F
1-40	CRSHC1 CABASA1		55
1-51	TAMBRNI	54	
1-59 1-44	WHISTL1 BELL_C1		53
OFF OFF	Ξ		52
1-49	CABASA1 RIDE_C1	51	
1-42 1-57	I AGOGO1 I		50
1-31 1-65	ROOM_T4 SPARK1	49	<b>=</b>
1-40 1-58	CRSH_C1	49	48
I-30	ROOM_T3 AGOGO1		
I-57 I-30	ROOM_T3 808CLAP		47
I-45	808CLAP OPEN HI	46	
1-38 1-58	OPEN_H1 OCT_AGG		45
1-29 1-45	ROOMT2 808CLAP	44	
I-39 I-57	PDAL_H1 AGOGO1		40
i-29	ROOM_T2 CLSD_H1		<b>43</b>
1-45	808CLAP	42	
I-58 I-28	OCY_AGG ROOM_T1		41
I-51 I-17	TAMBRN1 OUCH_S		40
I-13	NICE_S1	39	70
I-45 I-65	808CLAP SPARKI		20
I-15 I-49	IMPCT_S CABASA1		38
1-22	SIDSTK1	37	
1-65 1-09	SPARKI MONDO_K		36
I-61 I-07	CAN1 ROOMK1		35
1-38 1-55	OPEN_H1 LOW_CG	34	
1-38	OPEN_HI		33
I-54 I-38	OPEN_H1	22	
1-53 1-64	MUTECG	32	
I-41	BACK_C1 MLLT_C1		31
I-61 I-47	CAN1 TAIKO1	30	

#### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3,
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	

### Patch 09 : Cowntry1

#### ■ Instrument Section

Receive ch	10

-			
Inst Number	Instrument Name	Note Nu	ımber
		92	93
OFF OFF	-		91
OFF		90	89
OFF OFF	=		88
OFF		87	
OFF OFF		85	86
OFF			84
0FF I-48	CLAVE1	82	83
OFF	CLAVEI	02	81
OFF	-	80	79
OFF OFF		78	
OFF			77
OFF 1-48	CLAVE1	75	76
OFF	OLAVL1		74
0FF	WHISTL2	73	72
1-59	WHISTL1		71
1-52	SHAKER1	70	69
I-49 I-23	CABASA1 SIDSTK2	68	69
I-51	TAMBRN1		67
1-48	CLAVE1	66	65
1-55	LOW_CG		64
1-50	COWBEL1 SHAKER1	63	62
ÖFF	SHAKENI	61	<u> </u>
OFF			60
I-15	IMPCT_S	58	59
1-40	CRSH_C1		57
I-50 I-40	COWBEL1 CRSH_C1	56	55
1-51	TAMBRN1	54	L <del></del>
1-44	BELL_C1		53
0FF 1-42	RIDE_C1	51	52
1-27	DRY_T4		50
1-40	CRSHC1 DRYT3	49	48
1-26	DRY_T3		- 47
1-38 1-25	OPEN_H1 DRY_T2	46	45
1-39	PDAL_H1	44	
I-25 I-37	DRY_T2 CLSD_H1	42	43
1-24	DRY_T1	42	41
1-13	NICE_S1	20	40
1-45 1-14	808CLAP FAT_S1	39	38
I-22	SIDSTK1	37	36
I-06	SOLID_K DRY_K1		
OFF	DN1K1	34	35
OFF	#	32	33
OFF OFF	<del></del>		31
OFF	=	30	

#### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

·	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	
Performance Section 4	_

# Patch 10 : Jahzz

#### ■ Instrument Section

inst	Janan Maria	Maac 1	V. anha-
Number	Instrument Name	Note	Vumber
OFF	<del>-</del>	92	93
OFF	——————————————————————————————————————	02	91
OFF		90	89
OFF OFF	<u> </u>		
OFF		87	88
OFF	100000000000000000000000000000000000000		86
OFF OFF	<del>-</del>	85	84
OFF	<del>-</del>		_ 83
1-48	CLAVE1	82	
OFF		20	81
OFF OFF		80	79
OFF	. 1,666, 12 (1,000,000,000,000,000,000,000,000,000,0	78	
			77
OFF 1-48	CLAVE1	75	76
OFF		, ,	74
OFF		73	70
1-60 1-59	WHISTL2 WHISTL1		72
1-52	SHAKER1	70	71
1-49	CABASA1		69
I-57	AG0G01	68	67
1-57 OFF	AGOGO1	66	67
ŎFF	<del>-</del>		65
1-55	LOW_CG		64
1-55 1-53	LOW_CG MUTE_CG	63	62
		61	
OFF			60
∌	IMPCT_S	58	59
1-40	CRSH_C1		57
1-50	COWBEL1	56	
I-40 I-51	CRSH_C1 TAMBRN1	54	55
I-43	RD8L_C1	J-7	53
			. 52
1-42 1-27	RIDEC1 DRYT4	51	50
1-40	CRSH_C1	49	<u> </u>
1-27	DRY_T4		48
1-27 1-38	DRY_T4 OPEN_H1	46	47
1-24	DRY_T1	40	45
1-39	PDAL_H1	44	f
1-24 1-37	DRY_T1 CLSD_H1	42-	43
1-24	DRY_T1	42	41
I-12	TIGHT_S		. 40
1-23	SIDSTK2	39	
I-20 I-22	RIMSHT1 SIDSTK1	37	38
I-04	DBLH_K1		36
1-05	DBLH_K2	. 24	35
	1	34	33
OFF		32	<del> </del>
OFF			31
· OFF		30	

	Receive ch
Performance Section 1	2
Performance Section 2	3 ·
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

### Patch 11: BigRockr

#### ■ Instrument Section

Inst Number Instrument Name Note Number	
OFF	er
	'6
I-48 CLAVE1 75	74
OFF - 73	
TOO WINGTED	2
1-59 WHISTL1 70 1-52 SHAKER1 70	71
	9
1-57 AGOGO1 68 68 68 68 68 68 68 68 68 68 68 68 68	57
OFF 66	35
VIII 101/ 00	34
I-55 LOW_CG 63	
I-53	32
	30
OFF	
OFF	59
I-15 IMPCT_S	
I-40 CRSH_C1	57
I-50 COW8EL1	
I-40 CRSHC1	55
I-51 TAMBRN1	53
1-44 8ELL_C1	,3
OFF SEE	52
0FF 1-42 RIDE_C1 51	
155 FOWE 14	50
OFF 1-40 CRSH_C1 49	
1-31 ROOM_T4 1-36 DOOM_T1	18
I-26 DRY_T3	17
OFE	
I-30 ROOM_T3	45
OFF - 14	
1-39 PDAL_H1 1-25 DRY_T2	13
OFF	
1-37 CLSD_H1 92 1-29 ROOM_T2 4	41
-36   DOOM_T1	
I-14 FAT_S1 4	40
OFF STATE OF	
1 114   547 61   6	38
00F	26
1-08 SOCID_K	36
1 1-02 DRY_K2	35
OFF 34	
	33
0FF - 32	
OFF	31
OFF	

### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	1-50 : COWBEL1 -
Performance Section 2	I-48 : CLAVE1
Performance Section 3	<del>_</del>
Performance Section 4	_

# Patch 12 : JustPerc

#### ■Instrument Section

Receive ch		10	
Inst Instrument Name		Note Number	
OFF			93
OFF		92	
OFF OFF		90	91
OFF		30	89
ÖFF	-		88
OFF	_	87	
OFF.		85	86
OFF	-		84
OFF		- 00	83
I-48 OFF	CLAVE1	82	81
OFF		80	
OFF	-	78	79
OFF	Ξ		77
OFF			76
I-48 OFF	CLAVE1	75	74
OFF		73	
1-60	WHISTL2		72
I-59	WHISTL1 SHAKER1	70	71
1-32	CABASA1	70	69
1-57	AGOGO1	68	
I-57 OFF	AGOGO1	66	67
OFF		00	65
1-55	LOW_CG	63	64
I-55 I-53	LOW_CG MUTE_CG	03	62
OFF	-	61	60
I-38	OPEN_H1		
1-66	SURF	58	59
1-40	CRSHC1		57
1-50 1-40	COWBEL1 CRSH_C1	56	55
1-51	TAMBRN1	54	
1-44	BELL_C1		53
I-61 I-42	CAN1 RIDEC1	51	52
1-50	COWBEL1		50
1-40	CRSH_C1	49	48
I-63 I-56	BACK_T1 SLID_CG		47
1-38	OPEN_H1	46	
1-61	CAN1 PDAL_H1	44	45
1-39 1-65	SPARK1	44	43
1-37	CLSD_H1	42	41
1-45 1-58	808CLAP OCT_AGG		40
1-45	808CLAP	39	
1-46	OPEN_D1		38
I-22 I-48	SIDSTK1 CLAVE1	37	36
1-59	WHISTL1		35
OFF OFF	_	34	33
OFF	<u></u>	32	
OFF			31
OFF		30	

#### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3,
Performance Section 3	4
Performance Section 4	5

	Instrument Assign	
Performance Section 1	I-50 : COWBEL1	
Performance Section 2	2 I-48 : CLAVE1	
Performance Section 3	_	
Performance Section 4	<del></del>	

# Patch 13 : MondoKit

### ■ Instrument Section

Receive	ch	10	
Inst Number	Instrument Name	Note No	ımber
OFF			76
1-48 OFF	CLAVE1	75	74
OFF		73	
I-60	WHISTL2		72
1-59	WHISTL1	7.0	71
I-52 I-49	SHAKER1 CABASA1	70	69
1-57	AGOGO1	68	03
I-57	AGOGO1		67
OFF OFF		66	65
I-55	LOW_CG		64
I-55	LOWCG	63	
I-53 OFF	MUTE_CG	61	62
OFF	_	01	60
OFF OFF			
OFF OFF			59
I-15	IMPCT_S	58	
0FF I-40	IMPCT_S CRSH_C1		57
OFF 1-50	COWBEL1	56	
OFF I-40	CRSH_C1		55
OFF		54	
1-51 OFF	TAMBRN1		53
1-44 OFF	BELL_C1		
OFF OFF	=======================================		52
1-42	RIDE_C1	51	
1-09 1-35	MONDO_K POWR_T4		50
OFF I-40	CRSH_C1	49	
I-09 I-34	MONDO_K POWR_T3		48
1-09	MONDO_K POWR_T3		47
I-34 OFF	\$\delta\aligned\displaysing\displayser\displ	46	_ <del></del> _
I-38 I-09	OPEN_H1 MONDO_K		l 45
I-33 OFF	POWR_T2		40 
1-39	PDAL_H1	44	
I-09 I-33	MONDO_K POWR_T2		43
066 I-37	CLSD HI	42	<b></b>
I-09 I-32	MONDO_K		41
I-21 I-18	POWR_T1 RIMSHT2		40
OFE	808CLAP	39	L #0
l 1-15	I IMPCT_S I		ı 38
I-17 OFF	OUCH_S	0.7	36 I
I-22 I-06	SIDSTK1 SOLID_K	37	36
1-09	MONDO_K		30
⊩09 ⊩28	MONDO_K ROOM_T1		. 35
OFF OFF	_	34	ļ
OFF OFF			33
U		32	
OFF OFF	Ţ.		91
OFF OFF	=	20	31 I
OFF		30	

### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	

# Patch 14 : Studio

#### ■ Instrument Section

Receive ch		10	
Inst Number	Instrument Name	Note	Number
*** OFF	**************************************		93
OFF		92	91
· OFF	Back to the state of the second secon	90	
OFF			89
OFF		87	88
OFF			86
OFF	_	85	84
× OFF	Curation (4) - 4 (4) (4) (4) (4)		83
I-48 OFF	CLAVE1	82	81
OFF		80	
OFF OFF		78	79
		7,0	77
	CI AVE	75	76
1-48 OFF	CLAVE1	75	74
OFF		73	72
1-60 1-59	WHISTL2 WHISTL1		72
I-52	SHAKER1	70	
I-49 I-57	CABASA1 AGOGO1	68	69
1-57	AGOGO1		67
OFF OFF	——————————————————————————————————————	66	65
I-55	LOW_CG		64
I-55 I-53	LOW_CG MUTE_CG	63	62
	WOTE_CG	61	
OFF			60
OFF I-15	IMPCT_S	58	59
1-40	CRSH_C1	•	57
1-50 1-40	COWBEL1 CRSHC1	56	55
1-51	TAMBRN1	54	
1-44	BELL_C1		53
I-42	RIDE_C1	51	52
1-26	DRY_T3		50
1-40 1-26	CRSH_C1 DRY_T3	49	48
1-26	DRY_T3		47
1-38 1-25	OPEN_H1 DRY_T2	46	45
1-39	PDAL_H1	44	
I-25 I-37	DRY_T2 CLSD_H1	42	43
1-25	DRY_T2	~ c.	41
1-14		20	40
1-45 1-20	808CLAP RIMSHT1	39	38
1-22	SIDSTK1	37	36
I-01 I-07	DRY_K1 ROOM_K1	<del></del>	35
OFF	<u> </u>	34	
OFF OFF	Ξ	32	33
OFF			31
OFF		30	

### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3⋅
Performance Section 3	-4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	<del>-</del>

# Patch 15 : Cowntry2

#### ■ Instrument Section

Receive o	ch	10	
Inst Number	Instrument Name	Note Nu	mber
OFF	<u> </u>		93
OFF OFF		92	91
OFF		90	
OFF			89
OFF OFF		87	88
OFF			86
OFF OFF	<del>-</del>	85	84
OFF	-		83
1-48 OFF	CLAVE1	82	81
OFF	-	80	
OFF OFF	_	78	79
OFF	-		77
OFF I-48	CLAVE1	75	76
OFF	CLAVET		74
OFF I-60	WHISTL2	73	72
1-59	WHISTL1		71
1-52 1-49	SHAKER1 CABASA1	70	69
1-23	SIDSTK2	68	
I-51 OFF	TAMBRN1	66	67
I-48	CLAVE1	00	65
1-55	LOW_CG	60	64
1-50 I-52	COWBEL1 SHAKER1	63	62
OFF		61	60
OFF OFF	=		59
I-15	IMPCT_S	58	
1-40 1-50	CRSH_C1 COWBEL1	56	57
1-40	CRSH_C1		55
I-51 I-44	TAMBRN1 BELLC1	54	53
OFF	_		52
I-42 I-31	RIDE_C1 ROOM_T4	51	50
1-40	CRSH_C1	49	
I-30 I-30	ROOM_T3 ROOM_T3		48
1-38	ROOM_T3 OPEN_H1	46	47
1-29 1-39	ROOM_T2 PDAL_H1	44	45
1-29	ROOM_T2		43
-37  -29	CLSD_H1 ROOM_T1	42	41
I-28 I-15	IMPCT_S		40
I-45 I-14	808CLAP FAT_S1	39	38
I-22	SIDSTK1	37	
1-02	DRY_K2		36
1-09 OFF	MONDO_K	34	35
OFF	-		33
OFF OFF	<del></del>	32	31
ŎFF	<b>⊢</b>	30	

#### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	1-50 : COWBEL1
Performance Section 2	1-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

# Patch 16: Stereo2

#### ■ Instrument Section

Receive ch	10	

Inst Number	Instrument Name	Note Nu	mber
OFF	771.3 (400.00) (1 <del>. 1</del> 6.39(5) (1. 16.16)		76
I-48 OFF	CLAVE1	75	74
0FF 1-60	WHISTL2	73	72
1-59	WHISTL1		71
1-52	SHAKER1	70	
1-49	CABASA1	- 00	69
1-57 1-57	AGOGO1 AGOGO1	68	67
	400001	66	
OFF			65
I-55	LOW_CG	63	64
I-55 I-53	LOW_CG MUTE_CG	03	62
OFF	W0102200	61	
1.58	OCT_AGG		60
1-58 1-52 1-52	SHAKERI SHAKERI		59
1-61	CAN1	58	
I-61 I-65	CAN1 SPÄRK1		57
I-65 I-50	SPARK1 COWBEL1	56	
I-50 I-40	COW8EL1	56	
I-40	CRSH_C1 CRSH_C1 TAMBRN1		55
I-51 I-51	TAMBRNI	54	
I-44 I-44	BELL_C1 BELL_C1		53
1-64	8ACK_C1		
1-64 1-42	BACK_C1 RIDE_C1 RIDE_C1	<u> 51</u>	52
I-42 I-35	RIDE_C1 POWR_T4	51	
1-27	DRY_T4 CRSH_C1		50
I-40 I-40	CBSH_C1	49	40
I-34 I-26	POWR_T3 DRY_T3		48
1-34	POWR_T3		47
I-26	OPEN_HI	46	
I-38	OPEN_H1 POWR_T2		45
1-25	DRY_T2 CLSD_H1		70
I-37	CLSD_H1	44	
1-33 1-25	POWR_12 DBY T2		43
1-37 1-37	CLSD_H1 CLSD_H1	42	
I-32	CLSD_H1 POWR_T1 DRY_T1		41
1-24 1-14	FAT_S1		40
I-12 I-45	TIGHT_S 808CLAP	39	40
I-45	808CLAP	39	
I-15	IMPCT_S SIDSTK1 SIDSTK1		38
I-22 I-22	SIOSTKI	37	
I-06 I-03	SOLIDK WOODK1		36
1-07	ROOM_K1		35
I-04 I-55	LOW_CG	34	33
I-55 I-54	LOW_CG SLAP_CG	J+	^^
1-54	SLAP_CG		33
I-53 I-53	MUTE_CG MUTE_CG MLLT_C1	32	
I-41 I-41	MLLT_C1 MLLT_C1	-	31
1-47	TAIKOI	30	
I-47	TAIKOI		

#### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	· 4
Performance · Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	-
Performance Section 4	_

## Patch 17 : OldieKit

#### ■ Instrument Section

Receive	ch	10	)
Inst Number	Instrument Name	Note N	umber
OFF	-	00	93
OFF OFF		92	91
OFF		90	<b> </b>
OFF OFF	<del>-</del>		89
ÖFF	-	87	88
OFF OFF		85	86
ÖFF	—	65	84
OFF	CLAVE1	00	83
I-48 OFF	CLAVEI	82	81
OFF		80	79
OFF		78	
OFF	=		77
OFF I-48	CLAVE1	75	76
OFF	<del>-</del>		74
0FF 1-60	WHISTL2	73	72
I-59	WHISTL1		, 71
I-52 I-49	SHAKER1 CABASA1	70	69
1-57 1-57	AGOGO1 AGOGO1	68	67
OFF	AGUGUT	66	67
OFF I-55	LOW_CG		65
1-55	LOW_CG	63	64
I-53 OFF	MUTE_CG	61	62
OFF		01	60
0FF I-15	IMPCT_S	58	59
I-40	IMPCT_S CRSH_C1	56	57
1-50	COWBEL1	56	<u> </u>
I-40 I-51	CRSH_C1 TAMBRN1	54	55
1-44	BELL_C1		53
0FF 1-42	RIDE_C1	51	52
1-27	DRY_T4		50
I-40 I-26	CRSH_C1 DRY_T3	49	48
I-26	DRY_T3		47
I-38 I-25	OPEN_H1 DRY_T2	46	45
I-39 I-25	PDAL_H1 DRY_T2	44	43
1-37	CLSD H1	42	<u> </u>
I-24 I-12	DRY_T1 TIGHT_S		41
1-45	808CLAP	39	40
I-10 I-23	WOOD_S1 SIDSTK2	37	38
I-03	W00D_K1	3,	36
1-02 OFF	DRY_K2	34	35
OFF OFF		32	33
OFF			31
OFF	<del></del>	30	

#### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

· ·	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	· <u> </u>
Performance Section 4	-

# Patch 18 : Flange2

#### **■**Instrument Section

Receive ch	10

L		L	
		,	
Inst	Instrument Name	Note N	Jumber
Number		11010	· · · · · · · · · · · · · · · · · · ·
OFF.		1	_ 76
1-48	CLAVE1	75	
			74
OFF		73	B
1-60	WHISTL2		72
	WILIOTEZ WILIOTEZ		
1-59	WHISTL1		71
I-52	SHAKER1	70	
I-49	CABASA1		_ 69
I-57	AGOGO1	68	
1-57	AGOGO1	1	67
OFF	200 (	66	B
OFF			65
1-55	LOW_CG		6.4
I-55	LOW_CG	63	64
		00	62
1.53		64	02
OFF		61	
I-58 I-58	OCT_AGG OCT_AGG	I	60
1-52	SHAKER1	<del> </del>	
1.52	SHAKER1	l .	. 59
1-61	CANI	58	
1-61	CAN1 SPARK1		
I-65 I-65	SPARKI SPARKI		57
1-65	COWBELI	<u> </u>	1
1-50	COW8EL1	56	
1-40	CRSH_C1	[ ·-·	55
1-40	CRSH_C1 TAMBAN1		• 00
I-\$1 I-\$1	TAMBRNI	54	
1-44	BELL_C1		53
1-44	BELLC1		
1-62	BACK_S1		
1-62	BACK_\$1 RIDE_C1		. 52
1-42	RIDE_C1	51	
1-35	POWR_T4		50
1-35	POWR_T4		50
1.40	CRSH_C1	49	
1-40 1-34	CRSH_CI POWR_T3		48
1-34	POWR_T3	-	70
1-34 1-34	POWR_T3		
	POWR_T3		. 47
I-38 I-38	OPEN_H1	46	
1-33	POWR_T2		
1-33	POWR_T2		45
j I-39	POAL_H1	44	
1-39	POAL_H1	4.4	
1-33	POWR_T2 POWR_T2		43
1-33 1-37	CLSD_H1	4.0	
1-37	CLSD_HI	42	
1-32	POWR_T1		41
I-32 I-15	POWR_T1 IMPCT_S		
1-15	IMPCT_S		40
1-45	808CLAP	39	<u></u> ™'
I-45	808CLAP	39	
I-17	OUCH_S		38 l
1-17 1-22	OUCH_S SIDSTK1	0.7	ı '- i
1-22	- SIDSTKI	37	
1-05	DBLH_K2		36
1-05	DBLH_K2	<u></u>	
1-09	MONDO_K MONDO_K		35
I-09	LOW_CG		, 30
l 1-55	LOW_CG	34	<b></b>
1-54	SLAP_CG		' 33 I
I-54 I-53	SLAP_CG MUTE_CG		, 🐃 J
1-53 1-53	MUTE_CG	32	<del>                                     </del>
			ا ہو '
\$20000 OF PROCESSO			. 31
1.4/	TAIKOI	30	
I-47	TAIKO1		

\* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

# Patch 19 : Flange3

### ■ Instrument Section

Receive ch	10

Inst Number	Instrument Name	Note Nu	ımber
OFF I-48	<del></del>		76
	CLAVE1	75	
	<del></del>	73	74
	WHISTL2	13	72
i-59	WHISTL1		71
1-52	SHAKER1	70	
1-49 1-57	CABASA1 AGOGO1	68	69
1-57	AGOGO1	00	67
OFF	-	66	
OFF	<del>-</del>		65
1-55 1-55	LOW_CG LOW_CG	63	64
1-53	MUTE_CG	00	62
OFF	-	61	
1-58 I-58	OCT_AGG OCT_AGG		60
I-52 I-52	OCT_AGG SHAKERI SHAKERI		59
I- <b>6</b> 1	CANI	58	
I-61 I-65	CAN1 SPARKI		57
I-65 I-50	SPARKI COWBEL1		01
t-50	COMBELI	56	
I-40 I-40	CRSH_C1 CRSH_C1		55
I-51 I-51	TAMBRN1 TAMBRN1	54	
1-44	BELLC1		53
1-44 1-62	BELL_C1 BACK_S1		
I-62	8ACK_\$1 RIDE_C1		52
1-42	RIDE_C1	51	
1-27 1-27	DRY_T4 DRY_T4		50
I-40 I-40	CRSH_C1 CRSH_C1	49	
1-26	DRY_T3		48
I-26	DRY_T3 DRY_T3		
1-26 1-38	DRY_T3 OPEN_H1		47
1-38	OPENH1	46	
I-25 I-25	DRY_T2		45
I-39 I-39	PDAL_HI PDAL_HI	44	
1-25	DRY_T2		43
I-25 I-37	CLSD_H1	42	
I-37	CLSD_H1 DRYT1		41
1-24	DRY_T1 PICL_S1		
i-19	PICL_S1		40
I-45 I-45	808CLAP 808CLAP	39	
I-14	FAT_S1		38
I-14 I-22	FAT_S1 SIDSTK1	37	L
I-22 I-07	SIDSTK1 ROOM_K1	- J.	36
1.07	ROOM_KI WOOD_KI		
i-03	WOOD_K1		35
I-55 I-55	LOW_CG LOW_CG	34	
I-54 I-54	SLAP_CG		33
I-53	MUTE_CG	32	
I-53 I-41	MUTE_CG MLLY_C1	J6	24
1-41	MLLT_C1 MLLT_C1 TAIKO1		31 I
1-47	TAIKO1	30	

#### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	

### Patch 20 : LatinSet

#### ■ Instrument Section

Receive cl	h	10
<u> </u>		L

<b>L</b>			
Inst	Instrument Name	Note N	umber
Number	Transmitted (All Inc.)		
OFF		92	93
OFF	;;;;; <u>q;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;</u>		91
OFF		90	89
OFF			88
OFF	-	87	<b></b>
OFF		85	86
OFF		- 00	84
·····OFF·····	<del>-</del>		. 83
1-48	CLAVE1	82	81
OFF		80	<del>-    </del>
SSOFF			79
OFF		78	77
OFF			. 76
I-48	CLAVE1	75	
OFF	——————————————————————————————————————	73	74
I-60	WHISTL2		72
1-59	WHISTL1		71
I-52 I-49	SHAKER1 CABASA1	70	69
1-49	AGOGO1	68	55
J-57	AGOGO1		67
1-50	COWBEL1 OPEN_D1	66	65
1-46 I-55	OPEN_D1 LOW_CG		64
I-55	LOW_CG	63	
I-53 OFF	MUTE_CG	61	62
OFF		V	60
OFF	i i di karuk <del>a </del> isairakan	- A	59
1-27	DRY_T4 CRSH_C1	58	57
1-50	COWBEL1	56	
I-40	CRSH_C1		55
1-51 1-44	TAMBRN1 BELL_C1	54	53
1-58	OCT_AGG		52
I-42	RIDE_C1	51	
I-53	MUTE_CG CRSH_C1	49	50
1-54	SLAP_CG		48
1-27	DRY_T4		47
I-38	OPEN_H1 LOW_CG	46	45
I-39	PDAL_H1	44	
I-26	DRY_T3		43
1-37 1-60	CLSD_H1 WHISTL2	42	41
1-12	TIGHT_S		40
I-45	808CLAP	39	
I-16 I-22	SNAP_S1 SIDSTK1	37	38
1-02	DRY_K2		36
1-04	DBLH_K1		35
OFF		34	33
&&OFE ~	\$\pi\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	32	
OFF OFF			31
⊚∜OFF⊸⊸	(il. 1969) (ilean) <del>- s</del> alair is cra <b>ais</b> is	30	

<sup>\*</sup> Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	1-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

# Patch 21: FATSO

#### ■ Instrument Section

Receive	ch	10
·		

Inst Number	Instrument Name	Note Nu	ımber
0FE 1-48	CLAVE1	75	76
OFF	CLAVE	75	74
OFF		73	
1-60	WHISTL2		72
I-59 I-52	WHISTL1 SHAKER1	70	71
1-49	CABASA1	10	69
1-57	AGOGO1	68	
1-57	AGOGO1	66	67
OFF OFF		00	65
1-55	LOW_CG		64
1-55	LOW_CG	63	
1-53 OFF	MUTE_CG	61	62
OFF	-		60
OFF OFF	=		
OFF OFF			59
1.15	IMPCT_S	58	
OFF I-40	CRSH_C1		57
OFF I-50	COWBELI	56	
OFF I-40	CRSH_C1		55
OFF		54 <sup>,</sup>	
I-51 OFF	TAMBRN1	<b>V</b> •	53
1-44	BELL_C1		
OFF OFF	<u>-</u>		52
0FF 1-42	RIDE_C1	51	
1-47 1-31	TAIKO1 ROOM_T4		50
OFF	**************************************	49	
1-40	TAIKOI		48
1-30	ROOM_T3 TAIKO1		
I-30 OFF	ROOMT3		47
1-38	OPEN_H1	46	
I-47 I-29	ROOM_T2		45
0FF 1-39	PDAL_H1	44	
1-47	TAIKO1		43
I-29 OFF	ROOM_Y2	42	
1-37	CLSD_H1 TAIKQ1	***	41
1-28 1-20	ROOM_T1 RIMSHT1		•••
1-19	PICL_S1		40
OFF I-45	808CLAP	39	
I-15 I-17	808CLAP IMPCT_S OUCH_S		38
OFF	\$550,5000,000,000,000 <del>000</del> 010,0000000000000000	37	<u> </u>
I-22 I-28	SIDSTK1 ROOMT1		36
I-09 I-47	MONDO_K TAIKO1	<del></del>	
t-08	ROOM_K2		35
OFF OFF	_	34	····
OFF OFF	<del>-</del>		33
OFF OFF	-	32	<u> </u>
OFF	4		31
OFF OFF	Ξ	30	
OFF	—	30	

#### \* Layer = ON

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	_

## Patch 22 : SN-R8-01

#### ■ Instrument Section

Receive	ch		10
Inst Number	Instrument Name	Note Number	
~*OFF	35/25/653 *** (C <del></del> **(**2/\$*2 <b>**)</b> *		93
OFF		92	
OFF		90	91
OFF	AND THE PROPERTY OF THE PARTY O		89
COFF		9.7	88
OFF		87	86
OFF	2007, 1900, 2000, <del>100</del> 0, 1900, 1900, 1900	85	84
OFF S			
I-48	CLAVE1	82	83
OFF		20	81
OFF		80	79
SECOFF :: S	Zandon kathad <del>a t</del> adaan ahayaya	78	
-	OPN_PND		77
01-03 I-48	CLAVE1	75	76
01-04	MUT_PND		74
01-09 I-60	VIBSLAP WHISTL2	73	72
1-59	WHISTL1		71
01-13	MARACAS	70	
I-49 I-57	CABASA1 AGOGO1	68	69
1-57	AGOGO1		67
01-01	LOW_TB	66	65
01-02 I-55	HIGH_TB LOW_CG		_ 64
I-55	LOW_CG	63	
1-53 01-05	MUTECG LOWBG	61	62
01-06	HIGH_BG		60
01-23	BELTREE	50	_ 59
01-19 01-07	CASTANE OPN_SRD	58	57
01-14	COWBEL2	56	
01-08	MUT_SRD	54	55
-51     01⋅17	TAMBRN1 TRIANGL	54	53
01-17	TRIANGL		52
1-42 01-25	RIDE_C1 LOGDRUM	51	50
1-40	CRSH_C1	49	
01-22	TIMPANI		48
01-25 01-15	LOGDRUM LNG_GUI	46	47
01-22	TIMPANI		45
01-18	TAMBRN2 LOGDRUM	44	43
01-25 01-16	SHO_GUI	42	
01-22	TIMPANI		41
01-21 I-45	CON_BD 808CLAP	39	40
01-12	MUT_CU1		38
I-22	SIDSTK1	37	36
01-21 01-11	CON_BD   OPN_CU1	· · · · · ·	35
I-01	DRY_K1	34	
		22	33
OFF	. 1621.02.050 96.06 <del>1 1</del> 626.964.062.052.0	32	31
>> ŎFF	12 (11 (11 (12 (12 (13 (13 (14 (14 (14 (14 (14 (14 (14 (14 (14 (14	30	

### \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3,
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	01-26 : STEELDR
Performance Section 2	01-24 : KALIMBA
Performance Section 3	_
Performance Section 4	

# Patch 23 : SN-R8-02

# ■ Instrument Section

Receive	ch	10	
Inst Number	Instrument Name	Note Nu	ımber
OFF	<del></del>		93
OFF	=======================================	92	91
OFF OFF	in the second or the contract of	90	
OFF			89
OFF OFF		87	88
OFF			86
OFF OFF	<del></del>	85	84
OFF	-		83
1-48 OFF	CLAVE1	82	81
OFF		80	
OFF OFF	_	78	79
OFF OFF	= = =		77
1-48	CLAVE1	75	76
OFF			74
0FF 1-60	WHISTL2	73	72
1-59	WHISTL1	70	71
1-52 1-49	SHAKER1 CABASA1	70	69
I-57	AGOGO1 AGOGO1	68	67
OFF.	AGUGUT	66	
I-55	LOW_CG		65 64
I-55	LOW_CG	63	
1-53 OFF	MUTE_CG	61	62
· OFF	66 (62 (12 (12 (12 (12 (12 (12 (12 (12 (12 (1		60
0FF 02-12	SLAP4	58	59
02-24	BRCR_C2		57
1-50	COWBEL 1	56	
02-24 I-51	BRCR_C2 TMBRN1	54	55
1-44	BELL_C1		53
0FF 02-25	BRRD_C1	51	52
02-19	BRSH_T3		50
02-23	BRCR_C1	49	48
02-20 02-18	BR\$H_T4 BR\$H_T2	·	47
02-22	BROP_H1	46	
02-19 I-39	BRSH_T3 PDAL_H1	44	45
02-17 02-21	BRSH_T1 BRCL_H1	42	43
02-18	BRSH_T2	42	41
02-08 I-45	SWISH4 808CLAP	39	40
02-14	ROLL2		38
1-22 02-04	SIDSTK1 ATACK_K	37	36
02-03	SHARP_K	2.4	35
OFF OFF	-	34	33
OFF OFF	=	32	31
OFF	_	30	31

# \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	02-26 : ACC_BAS
Performance Section 2	I-48 : CLAVE1
Performance Section 3	
Performance Section 4	_

# Patch 24 : SN-R8-03

# ■ Instrument Section

Receive	ch		10
Inst Number	Instrument Name	Note	Number
OFF		00	93
OFF	- 1	92	91
OFF	====	90	
OFF			89
OFF OFF		87	88
OFF			86
OFF OFF	-	85	84
OFF	-		83
1-48	CLAVE1	82	
OFF	Ξ	80	81
OFF	<u> </u>	00	79
OFF		78	77
1-66	SURF	· · · · · · · · · · · · · · · · · · ·	
03-20	FOOTSTP	75	76
03-14	WOW		74
03-17	WATER DRILL	73	72
03-23	DRILL		_ 71
I-52	SHAKER1	70	
1-49 03-16	CABASA1 SCRPULL	68	69
03-15	SCRPUSH	00	67
03-11	BKTRASH	66	65
0FF 03-05	DOOR2		
03-06	CARDOOR	63	64
03-09	PUNCH		62
I-58 I-61	OCT_AGG CAN1	61	60
1-67	WHEEL1		59
03-04	DOOR1	58	57
03-08 03-21	GLSCRSH FUGSNAP	56	31
03-07	GUN		55
03-19	LOCK KATANA	54	53
I-65	SPARK1		_ 52
03-22	HUBCAP	51	
03-12	SMASH GONG	49	50
03-01	TRASH	-> ₹	48
03-12	SMASH		47
03-24	SPRAY TRASH	46	45
03-10	HUBCAP	44	7
03-12	SMASH		43
03-24 03-10	SPRAY TRASH	42	41
03-13	SLAP1		40
1-45	808CLAP	39	
03-12 03-18	SMASH SWITCH	37	38
03-03	CANNON		36
03-02	THUD	2.4	35
OFF		34	33
I OFF	<del></del>	32	
OFF		20	31
orr w		30	

# \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3 .
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	03-26 : NANTOKA
Performance Section 2	1-48 : CLAVE1
Performance Section 3	
Performance Section 4	_

# Patch 25: SN-R8-04

# ■Instrument Section

Receive o	ch	10	
Inst Number	Instrument Name	Note N	umber
OFF OFF	<del>-</del>	92	93
OFF	-		91
OFF	-	90	89
OFF OFF	<u></u>		. 88
OFF		87	<u> </u>
OFF OFF		85	86
OFF	=-		84
0FF 1-48	CLAVE1	82	83
OFF	-		81
OFF OFF	<del></del>	80	79
OFF		78	77
OFF OFF	_		76
04-20	808CLAV	75	
0FF 04-24	RAPNOIS	73	74
1-60	WHISTL2	7.3	72
1-59	WHISTL1	70	71
04-19 I-49	808MARC CABASA1	, 0	69
1-57	AG0G01	68	67
I-57 OFF	AGOGO1	66	67
OFF	808CNG		65
04-18 04-18	808CNG 808CNG	63	64
04-18	808CNG	24	62
OFF OFF		61	60
OFF			. 59
04-07 04-15	FLANG_S EL_CRSH	58	57
04-21	808COW	56	
04-15 I-51	EL_CRSH TAMBRN1	54	55
04-17	EL_BELL	J4	53
OFF 04-16	808RIDE	51	52
04-10	BEND_T		50
04-15	EL_CRSH	49	48
04-12 04-10	808T BENDT		47
04-14	8080HH	46	
04-12 04-23	808T HIGHQ	44	45
04-10	BEND_T		43
04-13 04-12	808CHH 808T	42	41
04-05	ELEC_S		. 40
1-45 04-08	808CLAP 808_S	39	38
04-09	808SIDE	37	
04-01 04-04	ELEC_K 808_K		36
OFF	- COO_IX	34	35
OFF	-	2.2	33
OFF OFF	<del></del>	32	31
ÖFF	-	30	

## \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	04-26 : SY_BASS
Performance Section 2	1-48 : CLAVE1
Performance Section 3	<del>-</del>
Performance Section 4	_

# Patch 26 : SN-R8-05

# ■ Instrument Section

Receive	ch		10
Inst Number	Instrument Name	Note	Number
No OFF		0.2	93
OFF		92	91
OFF		90	89
OFF			88
OFF		87	
OFF OFF		85	86
OFF	-		84
0FF 1-48	CLAVE1	82	83
OFF	-		81
OFF OFF	——————————————————————————————————————	80	79
· OFF	=	78	77
OFF			76
1-48	CLAVE1	75	
OFF	— ———————————————————————————————————	73	74
1-60	WHISTL2		72
I-59 I-52	WHISTL1 SHAKER1	70	71
1-49	CABASA1		69
1-57 1-57	AGOGO1 AGOGO1	68	67
OFF	<u>—</u>	66	
OFF I-55	LOW_CG		65
1-55	LOWCG	63	64
I-53	MUTE_CG	61	62
	<del>-</del>	01	60
OFF	C. C. S. S. S. S. <del>C. T.</del>	50	_ 59
05-06 05-23	HIGH_S1 CRSH_C4	58	57
1-50	COWBEL1	56	
I-40 I-51	CRSH_C1 TAMBRN1	54	55
05-25	RIVETBL		53
0FF 05-24	RIVETRD	51	52
05-21	RING_T4		50
05-22 05-17	CRSH_C3 OPEN_T4	49	48
05-20	RINGT3		47
1-38 05-16	OPEN_H1 OPEN_T3	46	45
1-39	PDAL_H1	44	
05-19 I-37	RING_T2 CLSD_H1	42	43
05-15	OPEN_T2		41
05-08 I-45	HI_SHOT 808CLAP	39	40
05-09	MID_S		38
05-13	SIDSTK3 DRY_K1	37	36
1-01 05-03	LOOSE_K		_ 35
OFF OFF	_	34	33
···· OFF	_	32	
OFF	_	30	31
	territoria de la companya de la comp	30	

# \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	05-26 : FL_BASS
Performance Section 2	I-48 : CLAVE1
Performance Section 3	_
Performance Section 4	<del>-</del>

# Patch 27: SN-R8-06

# ■ Instrument Section

Receive	ch	1	0
Inst Number	Instrument Name	Note I	lumber
OFF	-		93
OFF		92	<b>-</b>
OFF OFF		90	91
OFF	-	<u> </u>	89
OFF	<del></del>		_ 88
OFF OFF		87	86
OFF	_	85	
OFF			84
0FF I-48	CLAVE1	82	83
ÖFF	CLAVET		81
OFF	_	80	70
OFF OFF		78	79
OFF	-		77
OFF	01.87.53	7.5	76
1-48 OFF	CLAVE1	75	74
06-10	BENDIR	73	
1-60	WHISTL2 WHISTL1		72
1-59 1-52	SHAKER1	70	71
1-49	CABASA1		69
06-07 06-07	RAMACYM RAMACYM	68	67
06-13	DJEMB_C	66	
06-14	DJEMB_R		65
06-02 06-01	TABL_TN TABL_NA	63	64
06-03	TABL_TE		62
06-09	DARBK_D	61	60
06-08 06-06	DARBK_T MADAL		_ 59
06-05	KHOLE	58	
06-12	REQ_DUM	56	57
1-50 06-11	COWBEL1  REQ_TIK	. 56	55
06-17	CAXIXI	54	
06-25	ATARI		53
0FF 06-25	ATARI	51	52
06-16	TALK_UP		50
06-18 06-15	THAIGNG TALK	49	48
06-15	TALK_UP		_ 47
06-20	TUZUMIL	46	
06-15 06-21	TALK OHKAWA	44	45
06-16	TALK_UP		43
06-19	TÜZUMIH	42	41
06-15 06-23	MATURIR		40
1-45	808CLAP	39	
06-24 06-26	SIMEDAI	37	38
06-04	BAYA_GE		36
06-22	MATURI	2.4	35
OFF OFF		34	33
OFF	-	32	
OFF OFF		30	31
OF PERSON	1	30	

## \* Layer = OFF

Γ	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	06-21 : OHKAWA
Performance Section 2	06-18: THAIGNG
Performance Section 3	. –
Performance Section 4	_

# Patch 28 : SN-R8-07

# ■ Instrument Section

Receive	Receive ch		10	
Inst Number	Instrument Name	Note N	umber	
OFF	<del>-</del>		93	
OFF	- 200	92		
OFF		90	91	
OFF OFF	1	90	89	
ÖFF			. 88	
OFF	-	87	<b> </b>	
OFF		05	86	
OFF OFF	<del>=</del>	85	84	
OFF	-		. 83	
1-48	CLAVE1	82		
OFF		0.0	81	
OFF		80	79	
OFF		78	<b>!</b>	
OFF			77	
OFF	DA DA FAIT	7.5	76	
07-11	BARAFN1	75	74	
07-24	ANGKLUN	73		
I-60	WHISTL2		72	
1-59	WHISTL1	70	, 71	
I-52 I-49	SHAKER1 CABASA1		69	
07-21	W_BELL	68	ļ	
07-21	W_BELL	2.0	67	
07-07 07-08	XYLO1 XYLO2	66	65	
1-55	LOW_CG		64	
1-55	LOW_CG	63		
1-53	MUTECG	61	62	
OFF OFF	=	61	60	
ÖFF			59	
07-25	SPOKE	58	-	
07-24 I-50	ANGKLUN COWBEL1	56	57	
1-40	CRSHC1	50	55	
1-51	TAMBRN1	54		
07-10	GLOCKN2		53	
0FF 07-10	GLOCKN2	51	52	
07-10	SANZA2	<i>3</i> 1	50	
07-24	ANGKLUN	49		
07-20	KENONG		48	
07-14 07-26	SANZA2 FINGCYM	46	47	
07-20	KENONG		45	
07-26	FINGCYM	44		
07-14 07-26	SANZA2 FINGCYM	42	43	
07-20	KENONG	-72	41	
07-23	MATSU		40	
1-45	808CLAP	39		
07-20 07-12	KENONG BARAFN2	37	38	
I-01	DRY_K1		36	
07-20	KENONG		35	
OFF OFF		34	33	
OFF	_	32		
OFF			31	
OFF	<del></del>	30		

# \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3.
Performance Section 3	.4
Performance Section 4	5

	Instrument Assign
Performance Section 1	07-04 : VIBE1
Performance Section 2	07-18 : SARON
Performance Section 3	_
Performance Section 4	

# Patch 29 : SN-R8-08

# Instrument Section

Receive	ch	10	
Inst Number	Instrument Name	Note	Number
OFF OFF		92	93
ÖFF	_	J 2.	91
OFF	-	90	89
OFF OFF			88
OFF		87	86
OFF OFF		85	
OFF	+		84
OFF I-48	CLAVE1	82	83
OFF		90	81
OFF OFF		80	79
OFF	-	78	77
OFF OFF			76
1-48	CLAVE1	75	74
OFF OFF	=	73	
I-60	WHISTL2		72
I-59 I-52	WHISTL1 SHAKER1	70	71
1-49	CABASA1		69
1-57 1-57	AGOGO1 AGOGO1	68	67
OFF		66	65
0FF 1-55	LOW_CG		64
1-55	LOW_CG	63	
I-53 OFF	MUTE_CG	61	62
OFF	-		60
0FF 08-12	TIN_S	58	59
I-40	CRSH_C1		57
1-50 08-25	COWBEL1 CRSHC5	56	55
I-51	TAMBRN1	54	
I-44 OFF	BELL_C1		53
1-42	RIDE_C1	51	52
08-16 08-26	DAZZ_T4 CHINA_C	49	50
08-20	POP_T4		48
08-15 I-38	DAZZ_T3 OPEN_H1	46	47
08-19	POP_T3		45
1-39 08-14	PDAL_H1 DAZZ_T2	44	43
1-37	CLSD_H1	42	
08-18 08-08	POP_T2 BIRCH_S		41
1-45	808CLAP	39	40
08-09 I-22	COPP_S SIDSTK1	37	38
08-02	WHACK_K		36
08-01 OFF	MUFF_K	34	35
OFF	-		33
OFF OFF		32	31
ŎFF	<del></del>	30	<u> </u>

## \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	
Performance Section 4	_

# Patch 30 : SN-R8-09

# ■ Instrument Section

Receive	Receive ch		10	
Inst Number	Instrument Name	Note i	Number	
OFF			_ 93	
OFF		92	01	
OFF	Ξ	90	91	
ÖFF		J J	89	
l ∞ OFF			_ 88	
OFF OFF	=	87	86	
OFF		85		
OFF			84	
OFF		00	83	
1-48	CLAVE1	82	81	
OFF	Marian Carlos -	80	<u> </u>	
OFF	300 (200 (200 (200 (200 (200 (200 (200 (		79	
OFF	=	78	77	
OFF OFF			_ 76	
1-48	CLAVE1	75		
OFF		20	74	
0FF I-60	WHISTL2	73	72	
1-59	WHISTL1		71	
I-52	SHAKER1	70		
1-49	CABASA1 AGOGO1	60	69	
1-57 1-57	AGOGO1 AGOGO1	68	67	
OFF	<del>-</del>	66		
OFF			65	
1-55 1-55	LOW_CG LOW_CG	63	64	
1-53	MUTE_CG		62	
OFF		61	60	
OFF OFF	<del>-</del>			
09-12	RADIO_S	58	59	
1-40	CRSH_C1		57	
1-50 1-40	COWBEL1 CRSHC1	56	55	
1-51	TAMBRN1	54		
I-44	BELL_C1		53	
	PIDE 01	G 1	52	
I-42 09-22	RIDEC1 ATAKT4	51	50	
1-40	CRSHC1	49		
09-26	HOLOT4		48	
09-21 I-38	ATAK_T3 OPEN_H1	46	47	
09-25	HOLOT3		45	
1-39	PDAL_H1	44		
09-20 I-37	ATAK_T2 CLSD_H1	42	43	
09-24	HOLO_T2		41	
09-10	FUNK_S	20	40	
I-45 09-17	808CLAP SLAM_S	39	38	
09-18	SIDSTK4	37		
1-01	DRY_K1		36	
09-01 OFF	FACE_K	34	35	
OFF			33	
OFF		32	ļ	
OFF	=	30	31	
	<del></del>	50		

# \* Layer = OFF

	Receive ch
Performance Section 1	2
Performance Section 2	3 '
Performance Section 3	4
Performance Section 4	5

	Instrument Assign
Performance Section 1	I-50 : COWBEL1
Performance Section 2	I-48 : CLAVE1
Performance Section 3	-
Performance Section 4	_

# FEEL PATCH LIST

Feel Patch Numbe	r Remarks
01	Velocity will affect pitch
02	Velocity will affect decay
03	Velocity will affect nuance
· 04	Volume will change randomly
05	Pitch will change randomly
06	Decay will change randomly
07	Nuance will change randomly
08	
09	Change will occur mainly on the hi-hat. When synchronized to MIDI clock from an external device, a cyclic change mainly in volume will result.
10	SALOTHAL GOVIEG, & GYORG GHANGE HILANDE VIII TOGGIA
11	
12	Change will occur mainly on the hi-hat. When synchronized to MIDI clock from an external device, a cyclic change mainly in decay will result.
13	Solution device, a cyclic change mainly in access will research
14	Change will occur mainly on the hi-hat, when synchronized to MIDI clock from an
	external device. This is effective when using a rhythm pattern in triple time. A cyclic
16	change in sound will also result for rhythm patterns other than triple time.

<sup>\*</sup> Feel Patches are set to match the Standard patch (patch number 01).

# Instrument Assign

Feel Patch Number 01-07

Set Number	Instrument
1	I-01 : DRY_K1
2	I-14 : FAT_S1
3	I-25 : DRY_T2
4	I-26 : DRY_T3
5	I-27 : DRY_T4
6	I-37 : CLSDH1
7	1-38 : OPEN_H1
8	I-42 : RIDEC1

Feel Patch Number 08-16

Set Number	Instrument
1	I-01 : DRYK1
2	I-14 : FAT_S1
3	1-37 : CLSD_H1
4	1-37 : CLSD_H1
5	I-38 : OPEN_H1
6	I-38 : OPENH1
7	I-42 : RIDEC1
8	I-42 : RIDEC1

# **Roland Exclusive Messages**

#### 1. Data Format for Exclusive Messages

Roland's MIDI implementation uses the following data format

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MOL	Model ID
CMD	Command ID
[BODY]	Main data
F7H	End of exclusive

#### # MIDI status : FOH, F7H

An exclusive message must be flanked by a pair of status codes, starting with a Manufacturer-ID immediately after FOH (MIDI version1.0).

#### = Manufacturer ID: 41H

The Manufacturer-ID identifies the manufacturer of a MIDI instrument that triggers an exclusive message. Value 41H represents Roland's Manufacturer-ID.

#### = Device-ID : DEV

The Device-ID contains a unique value that identifies the individual device in the multiple implementation of MIDI instruments. It is usually set to 00H - 0FH, a value smaller by one than that of a basic channel, but value 00H - 1FH may be used for a device with multiple basic channels.

#### # Model ID: MDL

The Model-ID contains a value that uniquely identifies one model from another. Different models, however, may share an identical Model-ID if they handle similar data.

The Model-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Model-IDs, each representing a unique model:

> 01H 03H 00H, 01H 00H, 02H 00H, 00H, 01H

### = Command ID : CMD

The Command-ID indicates the function of an exclusive message. The Command-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Command-IDs, each representing a unique function:

02H 00H, 02H 00Н, 00Н, 01Н

#### = Main data: BODY

This field contains a message to be exchanged across an interface. The exact data size and contents will vary with the Model-ID and Command-ID.

#### 2. Address-mapped Data Transfer

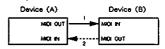
Address mapping is a technique for transferring messages conforming to the data format given in Section 1. It assigns a series of memory-resident records-waveform and tone data, switch status, and parameters, for example-to specific locations in a machine-dependent address space, thereby allowing access to data residing at the address a message specifies.

Address-mapped data transfer is therefore independent of models and data categories. This technique allows use of two different transfer procedures: one-way transfer and handshake

#### = One-way transfer procedure (See Section 3 for details,)

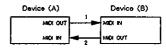
This procedure is suited for the transfer of a small amount of data. It sends out an exclusive message completely independent of a receiving device status.

#### Connection Disgram



Connection at point 2 is essential for "Request data" procedures. (See Section 3.)

# Handshake-transfer procedure (See Section 4 for details.)
This procedure initiates a predetermined transfer sequence (handshaking) across the interface before data transfer takes place. Handshaking ensures that reliability and transfer speed are high enough to handle a large amount of data.



Connection at points 1 and 2 is essential.

#### Notes on the above two procedures

- \*There are separate Command-IDs for different transfer procedures.
- \*Devices A and B cannot exchange data unless they use the same transfer procedure, share identical Device-ID and Model ID, and are ready for communication.

#### 3. One-way Transfer Procedure

This procedure sends out data all the way until it stops and is used when the messages are so short that answerbacks need not be checked.

For long messages, however, the receiving device must acquire each message in time with the transfer sequence, which inserts intervals of at least 20 milliseconds in between.

#### Types of Massages

Message	Command ID
Request date 1	RQ1 (11H)
Data set 1	DT1 (12H)

### #Request data #1: RQ1 (11H)

This message is sent out when there is a need to acquire data from a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQ1 message, the remote device checks its memory for the data address and size that satisfy the request.

If it finds them and is ready for communication, the device will transmit a "Data set 1 (DT1)" message, which contains the requested data. Otherwise, the device will send out nothing.

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device tD
MDL	Model ID
118	Command ID
aaH	Address MSB
'	LSB
ss∺	Size MSB
	LSB
sum	Check sum
F7H	End of exclusive

- \*The size of the requested data does not indicate the number of bytes that will make up a DT1 message, but represents the address fields where the requested data resides. 
  \*Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface. 
  \*The same number of bytes comprises address and size data, which, however, vary with the Model-ID.

  \*The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

#### = Data set 1 : DT1 (12H)

This message corresponds to the actual data transfer process. Because every byte in the data is assigned a unique address, a DT1 message can convey the starting address of one or more data as well as a series of data formatted in an address-

The MIDI standards inhibit non-real time messages from interrupting an exclusive one. This fact is inconvenient for the devices that support a "soft-through" mechanism. To maintain compatibility with such devices, Roland has limited the DT1 to 256 bytes so that an excessively long message is sent out in scparate segments.

Byte	Description
FOH	Exclusive
41H	Manufacturer ID (Roland)
DEV	Device ID
MOL	Model ID
12H	Command ID
aaH	Address MSB
ddH sum	Data Check sum
F7H	End of exclusive

- \*A DT1 message is capable of providing only the valid data among those specified by an RQ1 message.

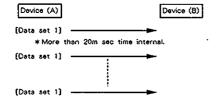
  \*Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the Interface.

  \*The number of bytes comprising address data varies from one Model-ID to another.

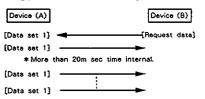
  \*The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

#### **=** Example of Message Transactions

◆ Device A sending data to Device B Transfer of a DT1 message is all that takes place.



Device B requesting data from Device A Device B sends an RQ1 message to Device A. Checking the message, Device A sends a DT1 message back to Device B.



### 4. Handshake Transfer Procedure

Handshaking is an interactive process where two devices exchange error checking signals before a message transaction takes place, thereby increasing data reliability. Unlike one way transfer that inserts a pause between message transactions, handshake transfer allows much speedier transactions because data transfer starts once the receiving device returns a ready size.

When it comes to handling large amounts of data-sampler waveforms and synthesizer tones over the entire range, for example-across a MIDI interface, handshaking transfer is more efficient than one-way transfer.

Types of Messages

Message	Command ID
Want to send data	WSD (40H)
Request data	RQD (41H)
Data set	DAT (42H)
Acknowledge	ACK (43H)
End of data	EOD (45H)
Communication error	ERR (4EH)
Rejection	RJC (4FH)

#### #Want to send data: WSD (40H)

This message is sent out when data must be sent to a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of the data to be sent.

On receiving a WSD message, the remote device checks its memory for the specified data address and size which will satisfy the request. If it finds them and is ready for communication, the device will return an "Acknowledge (ACK)" message.

•••	.417		
	8yte	Description	
	FOH	Exclusive status	
	41H	Manufacturer ID (Roland)	
	DEV	Device ID	
	MDL	Model ID	
	40H	Command ID	
	asH	Address MSB	
	ssH	Size MSB	
	sum	Check sum	
	F7H	End of exclusive	

- Otherwise, it wilt return a "Rojection (RIC)" message.

  \*The size of the data to be sent does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the data should reside.

  \*Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.

  \*The same number of bytes comprises address and size data, which, however, vary with the Model-ID.

  \*The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

### = Request data: RQD (41H)

This message is sent out when there is a need to acquire data from a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQD message, the remote device checks its memory for the data address and size which satisfy the request. If it finds them and is ready for communication, the device will transmit a "Data set (DAT)" message, which contains the requested data. Otherwise, it will return a "Rejection (RJC)"

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MOL	Model ID
41H	Command ID
anH	Address MSB
ssH	Size MSB : : : LSB
sum	Check sum
F7H	End of exclusive

- \*The size of the requested data does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the requested data
- \*Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface. \*The same number of bytes comprises address and size data,
- which, however, vary with the Model ID.

  \*The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

#### ≈ Data set: DAT (42H)

This message corresponds to the actual data transfer process. Because every byte in the data is assigned a unique address, the message can convey the starting address of one or more data as well as a series of data formatted in an addressdependent order.

Although the MIDI standards inhibit non-real time messages from interrupting an exclusive one, some devices support a "soft-through" mechanism for such interrupts. To maintain compatibility with such devices, Roland has limited the DAT to 256 bytes so that an excessively long message is sent out in separate segments.

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
ĐEV	Davice ID
MDL	Model ID
42H	Command ID
ааН	Address MSB
ddH	Data
sum	Check sum
F7H	End of exclusive

- \*A DAT message is capable of providing only the valid data among those specified by an RQD or WSD message. 
  \*Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- \*The number of bytes comprising address data varies from one model ID to another.

  \*The error checking process uses a checksum that provides
- a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

## = Acknowledge : ACK (43H)

This message is sent out when no error was detected on reception of a WSD, DAT, "End of data (EOD)", or some other message and a requested setup or action is complete. Unless it receives an ACK message, the device at the other end will not proceed to the next operation.

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
43H	Command ID
F7H	End of exclusive

#### = End of data: EOD (45H)

This message is sent out to inform a remote device of the end of a message. Communication, however, will not come to an end unless the remote device returns an ACK message even though an EOD message was transmitted.

ive status
acturer ID (Roland)
ł ID
ID .
and ID
f exclusive

#### = Communications error : ERR (4EH)

This message warns the remote device of a communications fault encountered during message transmission due, for example, to a checksum error. An ERR message may be replaced with a "Rejection (RJC)" one, which terminates the current message transaction in midstream.

When it receives an ERR message, the sending device may either attempt to send out the last message a second time or terminate communication by sending out an RJC message.

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
4EH	Command ID
F7H	End of exclusive

=Rejection: RJC (4FH)
This message is sent out when there is a need to terminate communication by overriding the current message. An RJC message will be triggered when:

- · a WSD or RQD message has specified an illegal data address
- or size.

   the device is not ready for communication.

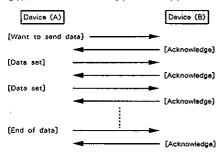
   an illegal number of addresses or data has been detected.
- an imager number of addresses or data has been of data transfer has been terminated by an operator.
   a communications error has occurred. mmunications error has occurred.

An ERR message may be sent out by a device on either side of the interface. Communication must be terminated immediately when either side triggers on ERR message.

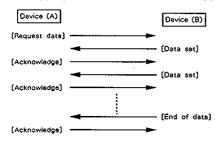
Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
4FH	Command ID
F7H	End of exclusive

#### #Example of Message Transactions

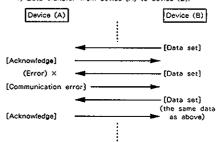
●Data transfer from device (A) to device (B).



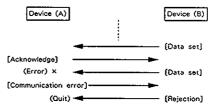
●Device (A) requests and receives data from device (B).



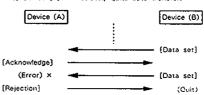
- Error occurs while device (A) is receiving data from device (B).
- 1) Data transfer from device (A) to device (B).



2) Device (8) rejects the data re-transmitied, and quits data transfer,



3) Device (A) immediately quits data transfer.



# TOTAL PERCUSSION SOUND MODULE

Model R-8M

# MIDI Implementation

Date: Oct. 23 1989

Version: 1.00

#### 1. TRANSMITTED DATA

#### ■ System Exclusive Message

Status

FOH: System Exclusive F7H: EOX (End of Exclusive)

With the R - 8M, the System Exclusive Message can be used to transmit and receive parameters of Patch, Feel Patch and Setup.
For details refer to "Roland Exclusive Messages" and paragraph 3.

## 2. RECOGNIZED RECEIVE DATA

The R - 8M is ready for reception except when one of the following operations is

UTIL/ROMPLAY UTIL/RAMCARD/LOAD or SAVE UTIL/BULK dumping Sound ROM card insertion ("Checking Card ..." being displayed)

#### 2.1 Instrument Section

#### ■ Channel Voice Message

#### ● Note off

Status	<u>Second</u>	<u> Third</u>
8nH	kkH	vvH
9nH	kkH	H00

:0H - FH (0 - 15) 0 = ch.1 15 = ch.16 :00H - 7FH (0 - 127) n = MIDI channel

kk = Note number :00H - 7FH (0 - 127) vy = Velocity

The R-8M receives the message on the channel set by PATCH/INST/BASIC/

Ignores a Note Off message if PATCH/INST/SOUND/Note Off Rx = OFF has been

Mutes the sounding notes upon receiving a Note Off message if PATCH/INST/ SOUND/Note Off RX = ON and SETUP/MIDI/Off Velocity = Off have been selected, disregarding velocity value.

However, the R - 8M decays the sound, after note off, at a rate equal to the velocity value if PATCH/INST/SOUND/Note Off RX = ON and SETUP/MIDI/Off Velocity = ON have been selected.

The R - 8M regards a Note On with velocity 00H as a Note Off having velocity value

#### ● Note On

Status	Second	<u>Third</u>
9nH	ķkН	vvH

n = MIDI channel :011 - FH (0 - 15) :15H - 6CH (21 - 108)  $0 = ch.1 \quad 15 = ch.16$ 

kk = Note number :01H - 7FH (1 - 127) vv = Velocity

The R-8M receives a Note On message on the channel set by PATCH/INST/BASIC

Sounds the instrument that is assigned by PATCH/INST/SOUND to the received note

The range of Note numbers received is 15H-4CH (21-76) when PATCH/INST/ BASIC/Layer = ON has been selected. If a note number within the range IDH - 3CH (29 - 60) is assigned two instruments, a Note On for such note can sound these instruments simultaneously.

#### Control Change

#### ○ Volume

Third Status Second

n = MIDI channet: 0H - FH (0 - 15) vv = Volume : 00H - 7FH (0 - 127) 0 = ch.1 15 = ch.16

Receives the message on the channel set by PATCH/INST/BASIC/Receive Ch.

Changes the PATCH/INST/BASIC/Volume to the received value if SETUP/MIDM/ Volume = ON has been selected.

#### **OPanpot**

Third vvH Second OAH BnH

: OH - FH (0 - 15) 0 = ch.i 15 = ch.16 n = MIDI channel

:00H - 7FH (0 - 127)

Receives the message on the channel set by PATCH/INST/BASIC/Receive Ch.

If SETUP/MIDI/Panpot = ON has been selected, the R - 8M converts the received value to the panpot position (LEFT 3 - RIGHT 3) assigned to the received value as shown in Table \*1 and memorizes the result.

Every time the R - 8M receives a Note On message, it sounds on the panpot position until the Panpot having different value is given.

When MULTH - MULTI6 are set by PATCH/INST/SOUND/Out Asgn. the R-8M

#### \*1 Panpot Value

Para <b>se</b> ter	1	value	ŀ	panpot	
	i	00H - 12H		LEFT3	i
	í	13H - 24H	:	LEFT2	- 1
	:	25H - 36H	•	LEFT1	1
panpot	i	37H - 48H		CENTER	- 1
	ì	49K - 5AH	i	RIGHTI	- 1
	÷	5BR - 6CH	i	RIGHT2	1
	;	60H - 7FH	:	R1GHT3	1

#### OHold 1

Status Second Third BnH

: OH - FH (0 - 15) n = MIDI channel

:00H - 7FH (0 - 127) vv = Value

Receives the message on the channel set by PATCH/INST/BASIC/Receive Ch.

#### With SETUP/MIDI/Hold = ON:

For a note with PATCH/INST/SOUND/Note Off Rx = ON, the R - 8M decays the sound level at the rate determined by Hold 1 value, upon receiving a Note Off message. For a note with PATCH/INST/SOUND/Note Off Rx pprox OFF, the R = 8M decays the sound level at the rate determined by Hold I value, after sounding the note. (This function does not affect the instruments having a reverse decay type of sound.)

If the transmitting controller can send continuously changing Hold 1 value, the R-8M can also continuously vary sound decay rate.

Status .	Second .	Third
BnH	01H	VvH
BnHi	21H	vvH

#### OGeneral purpose controller 1

Státus	Second	Third
BnH	10H	νvH
BnH	30H	vvH

#### OGeneral purpose controller 2

Status	Second	Third
₿nĦ	11H	vvH
BnH	31H	vvH

#### ○General purpose controller 3

Status .	Second	Third
BnH	12H	vvH
BnH	32H	vvH

#### ○General purpose controller 4

Status	Second .	Third
BnH	13H	vvH
BnH	3311	WW

#### ○General purpose controller 5

Status	Second	Third
BnH	50H	vvH

#### OGeneral purpose controller 6

Status	Second	Third
BnH	51H	vvH

#### OGeneral purpose controller 7

Status	Second	Third
BnH	52H	vvH

#### ○General purpose controller 8

<u>Status</u>	Second .	Third
BnH	53H	vvH

n = MIDI channel	: OH - FH (0 - 15)	0 = ch.1	15 = ch.16
vv = Value	:00H = 7FH (0 = 127)		

Receives the message on the channel set by PATCH/INST/BASIC/Receive Ch.

By using PATCH/INST/CTRL, a combination of instrument and parameter can be assigned up to 9 controls.

The R - 8M converts the received value into the parameter - offset as shown in Table \*2 specified by PATCH/INST/CTRL/Ctrl Prm; and stores the result.

When reproducing an instrument, the offset is added to the value set by PATCH/INST SOUND for the control being assigned to that instrument.

If the sum of the values exceeds the set range of the sound parameter, the odd values

Exceptions:

When the parameter set by PATCH/INST/CTRL/Ctrl Prm is PANPOT;
the instrument sounds at the panpot position set by PATCH/INST/SOUND/Out
Asgn. if "Offset" is Off; and at Offset - position, if other than Off.

PANPOT will be ignored if MULTI1 - MULTI6 have been set by PATCH/INST/ SOUND/Out Asgn.

Duplicate the assignment of the R-8 (R-5) onto each control. And the "performance parameters" set in the R-8 (R-5) pad and "sequence parameters" programmed in a rhythm pattern can effectively change R-8M sounds.

#### \*2 Control Change Value

<b>+</b>					-+
parameter	٠1	value	1	offset	ı
	-+-		-+-		-1
1	1	0000R - 0407H	1	- 4800	1
1	1	0408K - 0417H	1	- 4790	1
1	1	0418K - 0427H	1	- 4780	ı
1	1	:	1	:	ı
1	1	3F68H - 3F77H	1	- 0010	ı
l pitch	1	3F78H - 4007H	1	0000	1
I	ı	4008H - 4017H	1	+ 0010	ı
ι	1	:	1	:	ı
1	1	7858H - 7867H	1	+ 4780	ı
1	-1	7868K - 7877H	1	+ 4790	ı
1	1	7878H - 7F7FH	1	+ 4800	1
1	-+-		-+-		-1
1	1	OOR	ı	- 63	ı

	ŧ	0]H	t	- 63	-
	1	02H	;	- 62	1
	1	:	1	:	1
	1	3FH	- 1	- 01	1
decay	1	40R	1	00	1
	i	416	i	+ 01	i
	ì	:	i	:	i
	i	7EH	i	+ 62	Ĺ
	ş	7EH	i	+ 63	i
			+		i
	1	K80 - K00	-	- 7	i
	i	OCH - 13H	i	- 6	i
	i	14H - 1BH	i	- 5	i
	i	:	í	÷	i
	i	34H - 3BH	i	- i	i
nuance	i	3CH - 43H	į	ō	Ė
	i	44H - 48H	i	+ 1	i
	i.	1111 1011	;	•	i
i	i.	64H - 68H	•	+ 5	i
· ·	i	5CH - 73H	i	+ 6	i
1	- 1	74H - 7FH	ì	+ 7	- 1
		14n - 12n	_ '	* ,	- ;
, <b></b> -	<del>,</del> -	00H - 0FH	<b></b>	LEFT3	-*1
	- 1	10H - 1FH	- 1	LEFT2	
l I	- !	20H - 2FH	- !	LEFT1	- !
	- !		- !		
panpot	- 1	30H - 3FH	- !	CENTER	
	- !	40H - 4FH	!	RIGHT1	
	!	SOH - SFH	!	RIGKT2	!
	!	60H - 6FH	!	RIGHT3	Ŧ
J	1	70H - 7FH	ı	OFF	ŧ
·					+

#### ORPN LSB

Status	Second	<u>Third</u>
BnH	64H	11H
ORPN MSB		
Status	Second	<u>Third</u>
BnH	65H	mmH
OData Entry		
Status	Second	<u>Third</u>
BnH	06H	vvH

n = MIDI channel : 0H - FH (0 - 15) 0 = c II = The lower byte of the parameter number designated by RPN 0 = ch.1 15 = ch.16

mm = The upper byte of the parameter number designated by RPN vv = The value for the parameter designated by RPN

The R - 8M receives the message on the channel set by PATCH/INST/BASIC/ Receive Ch.

Parameters of a unit can be changed by using MIDI RPN function. Designate the parameter to be changed by a set of RPN MSB and LSB, and then specify the new parameter value with Data Entry.

Effective RPN for the R - 8M is Pitch Bend Sensitivity (RPN # 0) only.

### RPN

MSB_LSB	Data_entry	Description
00Н 00Н	VVH	Pitch bend sensitivity
	vv = 0 - 12	semitone steps, up to 1 octave

Upon receiving this message, the R-8M rewrites PATCH/INST/BASIC/Bend Range with the received value.

#### Pitch Bend Change

Status	Second	Third
EnH	IIH	mmH
n = MiDi ch mm li = Vali		: 0H - PH (0 - 15) 0 = ch.1 15 = ch.16 : 00H 00H - 7FH 7FH (- 8192 - + 8191)

The R - 8M receives the message on the channel set by PATCH/INST/BASIC/

Upon receiving this message with SETUP/MIDI/Pitch Bender = ON.the R - 8M bends the pitch of sounding note of the Instrument Section according to the value set by PATCH/INST/BASIC/Bend Range.

#### ■ Channel Mode Message

#### Reset all controllers

Third Status Second 1100

n = MID1 channel : OH - FH (0 - 15) 0 = ch.1 15 = ch.16

The R - 8M receives the message on the channel set by PATCH/INST/BASIC/ Receive Ch.

The R - 8M initializes all the controllers upon receiving this message.

Pitch Bend Change = 0 (center)

Off (PATCH/INST/SOUND/Out Asgn is activated) Panpol

Modulation and general purpose controllers are to be initialized so that the offset of assigned parameters becomes either 0 or Off.

All notes off

Status Second Third

n = MIDI channel : OH - FII (0 - 15) 0 = ch.! 13 = ch.16

The R - 8M receives the message on the channel set by PATCH/INST/BASIC/ Receive Ch and mutes all the sounding notes.

#### 2.2 Performance Section

#### ■Channel Voice Message

#### ♠ Note off

Status Second Third 9nH kkil 0011

n = MIDI channel 0 = ch.1 15 = ch.16

: 011 - FH (0 - 15) : 00H - 7FH (0 - 127) : 00H - 7FH (0 - 127) kk = Note number vv = Vetocity

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/

Ignores an Note Off when PATCH/PFM/SOUND/Note Off Rx = OFF has been selected.

Mutes the sounding noies upon receiving a Note Off message if PATCH/PFM/SOUND /Note Off Rx = ON and SETUP/MIDI/Off Velocity = OFF have been selected. disregarding velocity value.

However, the R - 8M decays the sound, after a note off message, at a rate equal to the velocity value if PATCH/PFM/SOUND/Note Off Rx - ON and SETUP/MIDI/ Off Velocity \* ON have been selected. The R - 8M regards a Note On message with velocity 00H as a Note Off message having velocity value 40H.

#### ● Note On

Status Second Third

n # MIDI channel : OH - FH (0 - 15) 0 = ch.1 15 = ch.16

:00II - 7FH (0 - 127) :01H - 7FH (1 - 127) vv \* Vetocity

The R - 8M receives a Note On message on the channel set by PATCH/PFM/BASIC/ Receive Ch.

The Range of Note numbers received is designated by PATCH/PFM/BASIC/Key

Sounds the instrument that is assigned by PATCH/PFM/SOUND to the section.

When PATCH/PFM/K.FLW is set to other than 0 or OFF, the pitch, decay, nuance and panpot of the instrument to be reproduced varies according to note number.

#### Control Change

#### ○ Volume

<u>Third</u> Status Second 07H

: OH - FH (0 - 15) 0 = ch.1 15 = ch.16 n = MIDE channel

:00H - 7FH (0 - 127)

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/

Changes the PATCH/PFM/BASIC/Volume to the received value if SETUP/MIDI/ Volume = ON has been selected.

#### ○ Panpot

<u>Status</u> νvΗ

: OH - FH (0 - 15) a = MIDL channel 0 = ch.1 15 = ch.16

: 00H - 7FH (0 - 127)

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/

If SETUP/MIDI/Panpot = ON has been selected, the R - 8M converts the received value to the panpot position. (LEFT 3 - RICHT 3) assigned to the received value as shown in Table \*1 and memorizes the result.

Every time the R-8M receives a Note On message, it sounds on the panpot position until the Panpot having different value is given.

When MULTI1 - MULTI6 are set by PATCH/PFM/SOUND/Out Asyn, the R-8M ignores Panpot.

#### OHold 1

Status Second Third BnH

: OH - FH (0 - 15) n = MIDI channel 0 = ch.l 15 = ch.16

:00H - 7FH (0 - 127) vv = Value

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/

With SETUP/MIDI/Hold = ON:

For a note with PATCH/PFM/SOUND/Note Off Rx = ON, the R = 8M decays the sound level at the rate determined by Hold 1 value, upon receiving a Note Off message. For a note with PATCH/PFM/SOUND/Note Off Rx = OFF, the R = 8M decays the sound level at the rate determined by Hold 1 value, after sounding the note. (This function does not affect the instruments having a reverse decay type of sound.)

If the transmitting controller can send continuously changing Hold 1 value, the  ${\bf R}$  -8M can also continuously vary sound decay rate.

#### O Modulation Depth

Status Second Third BnH

n = MIDI channet : OH - FH (0 - 15) 0 = ch.1 | 15 = ch.16 :00H - 7FH (0 - 127)

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/ Receive Ch.

The R-8M converts the received value into the parameter-offset (Decay or nuance) as shown in Table \* 2 assigned to modulation by PATCH/PFM/BASIC/Mod; and

When reproducing an instrument upon receiving a Note on message, the R - 8M adds this offset to the value set by PATCH/PFM/SOUND. If sum of the values exceeds set range of the sound parameter, the odd values are ignored.

#### ORPN LSB

Status Second Third BnH 64H IIH

ORPN MSB

Status Second Third BnH 65H mmH

ODate Entry

Status Second Third BnH 06H vvH

n = MIDI channel : 0H - FII (0 - 15) 0 = ch.1 15 = ch.16
II = The lower byte of the parameter number designated by RPN
mm = The upper byte of the parameter number designated by RPN
v = The value of the parameter designated by RPN

The R - 8M receives the message on the channel set by PATCII/PFM/BASIC/Receive Ch.

Parameters of a unit can be changed by using MIDI RPN function. Designate the parameter to be changed by a set of RPN MSB and LSB, and then specify the new parameter value with Data Entry.

Effective RPN for the R-8M is Pitch Bend Sensitivity (RPN #0) only.

RPN

 MSB LSB
 Data entry
 Description

 00H 00H
 vvH
 Pitch bend sensitivity

 vv = 0 - 12
 semitone steps, up to 1 octave

Upon receiving this message, the R-8M rewrites PATCH/PFM/BASIC/Bend Range with the received value.

#### Pitch Bend Change

Status Second Third Entl IIII mmH

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/Receive Ch.

Upon receiving this message with SETUP/MIDI/Pitch Bender = ON selected, the R-8M bends the pitch of sounding note according to the value set by PATCH/PFM/BASIC/Bend Range.

#### ■ Channel Mode Message

#### Reset all controllers

Status Second Third BnH 79H 00H

n = MIDI channel : OH = FH (0 - 15) 0 = ch.1 15 = ch.16

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/

The R - 8M initializes all controllers upon receiving this message.

Pitch Bend Change ± 0 (center)

Panpot Off (PATCH/PFM/SOUND/Out Asgn is activated)
Hold 1 0
Modulation 40H (the offset of assigned parameter becomes 0.)

#### ● All notes off

Status Second Third BnH 7BH 00H

The R - 8M receives the message on the channel set by PATCH/PFM/BASIC/Receive Ch.

Mutes the sounding notes upon receiving an All Notes Off message.

#### 2.3 Receive Messages to Control the System

#### EChannel Voice Message

#### ●Program change

Status Second CnH ppH

n = MiDI channel : OH - FH (0 - 15) 0 = ch.1 15 = ch.16

pp = Program number : 00H - 7FH (0 - 127)

The R-8M receives the message on the channel set by SETUP/MIDI/Control Ch.

Upon receiving this message with SETUP/MIDI/Pgm Change = ON selected, the R  $^\circ$  8M changes Patch and Feel Patch according to the program change map's contents set by the SETUP/PGM.

#### ■System Common Message

#### Song position pointer

Status Second Third

mm,tl = Song position : 00H,00H - 7FH,7FH (0 - 16383)

This message syncs the Groove to the play information when FEEL/REGL/Regular = GROOVE has been selected.

#### System Real Time Message

#### Timing clock

Statu F8H

#### ● Start

Status FAH

#### Continue

Status

#### Stop

Status

These messages syncs the groove to the play information when FEEL/REGL/Regular = GROOVE has been selected.

#### Active sensing

Status FEH

Whenever the R - 8M receives this message, it monitors the interval of the coming data. If the subsequent message has not arrived 300 ms after the previous data, it processes all sections as though it has received an All Notes Off message and a Reset All Controllers message. Monitoring of incoming signals is terminated.

#### System Exclusive Message

<u>Status</u>

FOH: System Exclusive F7H: EOX (End of Exclusive)

With the R - 8M, the System Exclusive Message can be used to transmit and receive parameters of Patch, Feet Patch and Setup.

For details refer to "Roland Exclusive Messages" and paragraph 3.

### 3. Exclusive Communications

#### E General

The R - 8M can perform one - way communications to send and receive parameters for Patch, Feel Patch and Setup.

These parameters can be transferred either by bulk dump or by individual parameter control. A Patch, set of Patches, Feel Patches or set of Feel Patches are recommended to be transferred in bulk dump method, while individual parameter should be separately by individual parameter control.

Individual parameter control works only with parameters of Patch, Feel Patch in the temporary area, and setup parameters in the internal memory area.

Model II) included in the exclusive message should be 38H. The device ID code should be the channel number of the SETUP/MIDI/Control Ch. Note that the actual value that is set in the device ID field is smaller by one than the SETUP/MIDI/Control Ch value.

#### ■ One Way Communications

Request data	1	RQ1	(11H)
Byte	Description	,	
FOIL	Exclusive status		
4111	Manufacturer ID	(Roland)	
Dev	Device 1D		
3611	Model ID	(R - 8M)	
110	Command ID	(RQ1)	
aall	Address MSB		
aall	Address		
əaH	Address LSB		
ssll	Size MSB		
ilea	Size		
ssii	Size LSB		
sum	Check sum		
F711 -	EOX	(End of E	xclusive)
●Data set 1		DT1	(12H)
Bvic	Description		
FOH	Exclusive status		
1111	Manufacturer III	(Roland)	
Dev	Device ID		
3611	Model ID	(R - 8M)	
12H	Command 1D	(DT1)	
ขลเเ	Address MSB		
uafi	Address		
aall	Address LSB		
ddH	data		
:	:		
ddH	data		
sum	Check sum		
F711	EOX	(End of E	xclusive)

#### #Transmission

The R - 8M transmits an exclusive message when one of the following events occurs.

1) Bulk dump is performed from UTIL/BULK.

Sends specified parameter groups with bulk dump area addresses.

2) NOTE = key is pressed in the Edit mode with SETUP/MIDI/SysEx = ON selected.

The R - 8M sends parameters being edited with address being the one of those for individual parameter control area. This operation is performed whether NOTE #/JUMP

Exceptions: this operation will not be performed when, the menu screen is being opened, or a parameter being edited is not supported by exclusive message.

3) Data request message is received with SETUP/MIDI/SysEx = ON selected .

The R - 8M transmits the parameters that match the address and size denoted in the received data request.

#### E Receive

The R - 8M is ready for reception except when one of the following operations is performed.

UTIL/ROMPLAY
UTIL/RAMCARD/LOAD or SAVE
UTIL/BULK dumping
Sound ROM card insertion ("Checking Card ..." being displayed)

#### E Parameter address map

Addresses are shown in 7 - bit hexadecimal.

Address	MSB		LSB
Binary	Oaaa aaua	Oppp prop	Occc cccc
7 - bit hex.	AA		CC

#### Address Map

#### [ Individual Parameter Control Area ]

Address	Block	Total Size	Reference
00 00 00	Patch Temporary	02 03 18	Table I
03 00 00	Feel Patch Temporary	00 07 2A	Table 2
04 00 00	Setup (Internat)	00 02 09	Table 3

#### [ Bulk Dump Area ]

<u>Address</u>	B1 ock	Total Size	Refurence
10 00 00	Patch Temporary	00 08 02	โลบโซ 4
11 00 00	Feel Patch Temporary	00 02 60	Table 5
12 00 00	Patch I-01	00 08 02	Table 4
12 10 00		00 08 02	
12 10 00	ratcii 1-V2	:	
	0-4-1-1-00	00 0B 02	
15 70 00	Patch 1-32	00 05 02	
16 00 00	Feel Patch I-01	00 02 60	Table 5
16 03 00		00 02 60	
:	:	:	
16 2D 00		00 02 60	
10 .0 00	ice intention	******	
17 00 00	Setup (Internal)	00 G4 GA	Table 6
18 00 00	Patch C-01	00 0B 02	Table 4
18 10 00	Patch C-02	00 OB 02	
:	:	:	
1B 70 00	Patch C-32	00 08 02	
EC 00 00	Feel Patch C-01	00 02 60	Table 5
IC 03 00	Feel Patch C-02	00 02 60	
:	:	:	
	Feel Patch C-16	00 02 60	
., ., .,	10101 7 17		
10.00.00	Setup (RAN Card)	00 04 CA	Table 6
10 00 00	COLOR (INSECUTO)		

### [ Table 1 ] Patch (Individual)

Address		Description				
PATCH/NAM						
00 00 00	Name char t	32 - 122 (except 36, 37, 78, 78, 80)				
00 00 01	Name char. 2	32 - 122 (except 36, 37, 76, 78, 80)				
00 00 07	Name char. 8	32 - 122 (except 36, 37, 76, 78, 80)				
INST Sect	ion					
PATCE/18ST	T/BASIC					
00 00 10	Receive Ch	0 - 15 (1 - 16)				
01 00 01	Votume	0 - 127 (0 - 127)				
01 00 02	Bend Range	0 - 12 (0 - 12)				
01 00 03	Layer	0 - 1 (OFF, ON)				
PATCH/INS	T/CTRL a · Ciri	= : 1H - 9H (MOD.CTRL1-8)				
00 a0 10	Wedia ≠	0 - 31 (OFF, INT, CO1 C30)				
01 0n 01	Inst #	0 - 67 (1 - 68)				

01 0- 00 Ot-1 D	A . 9 (DIPON DEGLA MILLION BANDATA	PPPI (DND	
01 0n 02 Ctrl Prm	0 - 3 (PITCH, DECAY, NUANCE, PANPOT) (In case of MOD, CTRL1-4)	FEEL/RND 03 On 29 Random Depth	6 - 8 (0 - 8)
	1 - 3 (DECAY, NUANCE, PANPOT) (in case of CTRL5-8)	Total size = 00 07 2A Bytes	* 2's complement
PATCH/INST/SOUND nn = Note	# : 15H - 6CH (21 - 108)		* 2 S Complement
01 nn 00 Media≉	0 - 3 (OFF, INT, CO1-C30)		
01 nn 01   Inst #	0 - 67 (1 - 68)	5711 03 0	
01 nn 02 Pitch Lower	-480 - +480 (-4800 - +4800) *	[Table 3] Setup (In	dividual)
01 nn 03 Pitch Upper	0 - 127 (0 - 127)	Address	Passalation
01 nn 04 Decayl 01 nn 05 Decay2	0 - 127 (0 - 127)	Address	Description
01 nn 06 Kuance	0 - 15 (0 - 15)	SETUP/PGM nn = Pgm # : 00H -	7FH (\$001 - \$128)
01 nn 07 Out Asgn	0 - 12 (L3 - R3, M1 - 146)	04 00 nn Patch #	0 - 64 (1-01 - 1-32,
01 nn 08 Level	0 - 15 (0 - 15)		C-01 - C-32,)
01 nn 09 Asgn Type	0 - 9 (EXC1-8, MONO, POLY)	04 01 nn Feel Patch #	0 - 33 (1-01 - 1-16,
01 nn OA Velo Curve	0 - 7 (1 - 8)		C-01 - C-16, OFF,)
01 nn 08 Note Off Rx	0 - 1 (OFF, ON)	SETUP/MIDI	
PP4 0		04 02 00 Pgm Change	0 - 1 (OFF.ON)
PFM Section	n * PFM Section # : OH - 3H (1 - 4)	04 02 01 Volume	0 - 1 (OFF, ON)
PATCH/PFW/BASIC			
02 On 00 Receive Ch	0 - 15 (1 - 16)		
02 0a 01 Volume	0 - 127 (0 - 127)	04 02 02 Pitch Bender	0 ~ 1 (OFF, ON)
02 0n 02 Key Range L	0 - 127 (C G9)	04 02 03 Panpot	0 - 1 (OFF, ON)
02 On 03 Key Range H	0 - 127 (C G9)	04 02 04 Hold	0 - 1 (OFF, ON)
02 On 04 Bend Range	0 - 12 (0 - 12)	04 02 05 Off Velocity	0 - 1 (OFF, ON)
62 On 05 Wod	0 - 2 (OFF, DECAY, NUANCE)	*****	
DATOR (DDA (N. DAS)		SETUP/STACK	
PATCH/PFM/K.FLW 02 On 06 Refer Note	0 - 127 (C G9)	04 02 06 Stack 04 02 07 Number of Units	0 - 1 (OFF, ON) 0 - 7 (1 - 8)
02 On 07 KF Pitch Lower	-99 - +99 (-990 - +990) *	04 02 08 Unit #	0 - 7 (1 - 8)
02 On 08 KF Pitch Upper	***************************************		
02 0n 09 KF Decay	-9 - +9 (-9 - +9) +	Total size = 00 02 09 Bytes	
02 On OA KF Nuance	0 - 10 (-2, -1, -1/2, -1/4, -1/8, 0,		
	+1/8,+1/4,+1/2,+1,+2)		
02 On 08 KF Panpot	0 - 10 (-2, -1, -1/2, -1/4, -1/8, 0FF, +1/8, +1/4, +1/2, +1, +2)	[ Table 4 ] Patch (Be	ulk Dump)
BATCH (DOLL (POLING)		044	
PATCH/PFM/SOUXD 02 On OC Media #	0 - 31 (OFF, INT, CO1-C30)	Offset Address	Danasiatias
02 On OD Inst #	0 - 67 (1 - 68)		Description
02 On OE Pitch Lower	-480 - +480 (-4800 - +4800) *	PATCH/NAME	
02 On OF Pitch Upper		00 00 blt 0-3	Name char. 1 lower 4bfts
02 On 10 Decay1	0 - 127 (0 - 127)	00 01 bit 0-2	Name char. 1 upper 3bits
02 On 11 Decay2	0 - 127 (0 - 127)	: :	:
02 On 12 Nuance	0 - 15 (0 - 15)	00 0E bit 0-3	Name char. 8 lower 4bits
02 0n 13 Out Asgn	0 - 14 (L3 - R3, M1 - M6)	00 OF bit 0-2	Name char. 8 upper 3bits
02 On 14 dutaty	(ignore if received)	0.700/2007/0.010	
02 On 15 Asgn Type 02 On 16 Velo Curve	0 - 9 (EXC1-8, MONO, POLY) 0 - 7 (1 - 8)	PATCH/INST/BASIC 00 10 bit 0	Laura
02 On 17 Note Off Rx	0 - 1 (OFF, OX)	00 11 BY C	Layer (reserved)
		00 12 blt 0-3	Receive Ch
Total size = 02 03 18 Bytes		00 13 bit 0-3	Bend Range
	* 2's complement	00 14 bit 0-3	Volume lower 4bits
		00 15 bit 0-3	Volume upper 3bits
[ Table 2 ] Fact Dateb	(Individual) Ou # - Ou gu (1 O)	PATCH/INST/CTRL	***
[Table 2] Feel Patch	(Individual) n = Set # : 0H - 7H (1 - 8)	00 16 00 1A	MOD ( See (4-1) )
Address	Description	30 IA :	CTRL1 :
		00 36	CTRL8
FEEL/ASG		• •	• *
03 0n 00 Wedia #	0 - 31 (OFF, INT, COI-C30)	PATCH/INST/SOUND	
03 0n 01   Inst #	0 - 67 (1 - 68)	00 3A	NOTE #21 ( See [4-2] )
03 On 02 Ctrl Prw	0 - 3 (VELO, PITCH, DECAY, NUANCE)	:	:
CCC (OPER		09 7C	NOTE #108
FEEL/REGL 03 On 03 Regular	0 - 2 (OFF, GROOVE, VELOCITY)	DATON (DEM	
03 On 04 Type		PATCH/PFN	0011 (04010 P DIM 4 0 14 01 )
03 On 05 Step	0 - 15 (1 - 16) 0 - 6 (1/4, 1/6, 1/8, 1/12,	0A 0A 0A 1A	PFM1/BASIC, K. FLW (See [4-3]) PFM1/SOUND (See [4-2])
	1/16, 1/24, 1/32)	0A 28	PFN2/BASIC, K. FLW
03 On OS Groove Depth	0 - 7 (1 - 8)	0A 38	PFM2/SOUND
03 On 07 Offsetl Lower	-99 - +99 (-99 - +99) *	0A 46	PFM3/BASIC, K.FLW
03 On 08 Offsetl Upper		OA 56	PFM3/SOUND
		DA 64	PFWA/BASIC, X.FLW
03 On 25 Offset16 Lower	-99 - +99 (-99 - +99) *	0A 74	PFN4/SOUND
03 On 26 Offset16 Upper		T-+-1	
03 On 27 Refer Velo	1 - 127 (1 - 127)	Total size = 00 0B 02 Bytes	
03 On 28 Veto Sens	1 - 121 (1 - (2)) -7 - +7 (-7 - +?) *		
	- 1		

## {4-1} PATCH/INST/CTRL

Addres	s	Description
00 00	bit 0-3	Media # lower 4bits
00 01	blt 0	Media ≠ upper lbit
	bit 1-3	Ctrl Prm
00 02	bit 0-3	inst = lower 4bits
00 03	bit 0-2	Inst = upper 3bits

size = 00 04 Bytes

#### [4-2] PATCH/INST/SOUND PATCH/PFM/SOUND

Addres		Description	
	bit 0-3	Media = lower 4blts	
00 01	bit 0	Media ≑ upper lbit	
	bit t-3	Velo Curve	
00 02	bit 0-3	inst # lower 4bits	
00 03	bit 0-2	Inst # upper 3bits	
	blt 3	Note Off Rx	
00 04	bit 0-3	Pitch bit0-3	
00 05	bit 0-3	Pitch bit4-7	
00 06	blt 0-3	Decayl lower 4bits	
00 07	bit 0-2	Decayl upper 3bits	
	bit 3	Pitch bit8	
89 00	b[t 0-3	Decay2 lower 4bits .	
00 09	bit 0-2	Decay2 upper 3bits	
	bit 3	Pitch bit9 (MSB)	
AQ 00	bit 0-3	Level (PATCIL/LNST/SOUN	D)
		dummy (PATCH/PFM/SOUND	)
00 OB	bit 0-3	Nuance	
00 OC	bit 0-3	Out Asgn	
00 OD	blt 0-3	Asgn Type	

size = 00 OE Bytes

## [4-3] PATCH/PFM/BASIC, K.FLW

Vidress	Description	
UD 00 blt 0-3	Receive Ch	PATCH/PFM/BAS!O
00 01 bit 0-3	Bend Range	
00 02 bit 0-3	Volume lower 4bits	
00 03 bit 0 · 2	Volume apper 3bits	
00 04 blt 0-3	Key Range L lower 4hits	
00 05 bit 0-2	Key Range L upper 3bits	
00 06 bit 0-3	Key Range II lower 4bits	
00 07 bit 0-2	Key Range H upper 3bits	
00 08 bit 0-2	Mod Parameter	
bit 3	KF Decay tower Ibits	PATCH/PFW/X. FLW
00 09 bit 0-3	KF Decay upper 4blts	
00 OA bit 0-3	Refer Note lower 4blts	
00 08 bit 0-2	Refer Note upper 3bits	
00 0C bit 0-3	KF Plich lower 4bits	
00 00 blt 0-3	KF Pitch upper 4bits	
00 0E blt 0-3	KF Nuance	
00 OF blt 0-3	KF Panpot	

size - 00 10 Bytes

[ Table 5 ] Feel Patch (Bulk Dump)

Offset Address	Description	n
00 00	Set 1	( See [5-1] )
00 2C	Set 2	
;	:	
02 34	Set 8	

[5-1] FEEL/ASG, REGL, RND

Addres	\$	Description	
	bit 0-3	Media € lower 4bits	FEEL/ASG
00 01	blt 0	Media ∓ upper lbit	
	blt !-2	Groove Depth	FEEL/REGL
00 02	bit 0-3	Inst # lower 4bits	FEEL/ASG
00 03	bit 0-2	Inst = upper 3bits	
00 94	bit 0-1	Ctrl Pre	
	bit 2-3	Regular	FEEL/REGE
00 05	bit 0-3	Velo Sens	
00 06	bit 0-3	Type	
00 07	bit 0-2	\$tep	
80 00	bit 0-3	Offset #1 lower 4bits	
00 09	bit 0-3	Offset #1 upper 4bits	
:	:	:	
00 28	blt 0-3	Offset #15 lower 4bits	
00 27	blt 0-3	Offset #16 upper 4bits	
00 28	blt 0-3	Refer Velo lower 4blts	
00 29	bit 0-2	Refer Velo upper 3bits	
00 2A	bit 0-3	Random Depth	FEEL/RYO
00 2B		(reserved)	

size = 00 2C Bytes

[ Table 6 ] Setup (Bulk Dump)

Addres	s	Description
SETUP/		
00 00	bit 0-3	#001 Patch # lower 4bits
	bit 0-2	#001 Patch = upper 3bits
	;	:
	b11 0-3	#128 Patch = lower 4bits
	blt 0-2	#128 Patch # upper 3bits
02 00	blt 0-3	#001 Feet Patch # lower 4bits
	bit 0-2	#001 Feet Patch = upper 3bits
	: bit 0-3	: #128 Feel Patch = fower 4bits
_	bit 0-3 bit 0-2	#128 Feet Patch = roser 401ts
03 16	011 0-2	-120 Feet Fatch - diser donts
SETUP/	STACK	
04 00		(reserved)
04 01		(reserved)
04 02		(reserved)
04 03		(reserved)
04 04		(reserved)
04 05		(reserved)
SETUP/	MIDI	
04 06	bit 0	Pgm Change
	bit l	(reserved)
	bit 2	Votume
	blt 3	Pitch Bender
04 07	blt 0	Panpot
	bit 1	(reserved)
	blt 2	Hold
	bit 3	(reserved)
04 08	bit 0	Off Velocity
04 09		(reserved)

Total size = 00 04 0A Bytes

Total size = 00 02 60 Sytes

# [ Individual Parameter Control Area ]

Address	Block	Reference
00 00 00	*****************	., +
	Patch Temporary	Table 1
03 00 00	+##2222222224	++
	! Feel Patch Temporary!	! Table 2 !
04 00 00	+2::::::::::::::::::::::::::::::::::::	
	Setup (Internal)	i Table 3 ;
	**************************************	

## [ Bulk Dump Area ]

=			
Address	Block		Panel Operation
10 00 00	+72682787222313312121124		
	1 Patch Temporary	Table 4	I/BULK3/BULK I
11 00 00	Feel Patch Temporaryi		I/ALL I/ALL
12 00 00			I/INT I/INT&CARDI
	Patch  -01	1 Table 4 1	i i i
12 10 00	[],,	++	1 [ [
	Patch  -02		1 ! !
	1 : i		1 1 1
15 70 00	}		iii
10 17 77	l Patch 1-32		1 i i
16 00 00	+6889910889383812F6288+,.		1 1 1
	Feel Patch 1-01	i Table 5 I	1 1 !
16 03 00		*	1 1 1
	i Feel Patch 1-02 i		
	i : i		i i i
16 2D 00			1 1 1
	Feel Patch 1-16		
17 00 00	+======================================		!!!!
18 00 00	Setup (Internal)		1 1 1
19 00 00		i Table 4 I	
18 10 00			I/BULK! 1
	! Patch C-02		17AUU   1
			I/CARDI I
	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		1 1
18 70 00	Patch C-32		! ! !
1C 00 00	**************************************	, +	
10 11 11	f Feel Patch C-01	Table 5 i	1 1 1
1C 03 00	ţi	+	1 1 3
	i Feel Patch C-02		1 1 1
1C 2D 00			
10 20 00	Feel Patch C-16		i i i
1D 00 00	+>=======+==++=++++++++++++++++++++++++	+	i i i
	i Setup (RAW Card)	Table 6	1 I I
	+24242322222222224	<b>4</b>	

# TOTAL PERCUSSION SOUND MODULE

Model R-8M

# MIDI Implementation

Date: Oct. 23 1989

Version: 1.00

•	Function · · ·	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	×	1 - 16 1 - 16	Memorized (Non – volatile)
Mode	Default Messages Alterd	Mode 3 × *******	Mode 3	
Note Number	True Voice	× ******	0 – 127	
Velocity	Note ON Note OFF	×	O *1	
After Touch	Key's Ch's	× ×	×	
Pitch Bend	er	×	*1	8 bit resolution
Control Change	1, 33 6 7 10 16 - 19, 48 - 51 64 80 - 83 100, 101	× × × × ×	*1 *2 *1 *1 *1 *1 *1 *2	Modulation Data Entry Volume Panpot Controller 1 - 4 Hold 1 Controller 4 - 8 RPN LSB, MSB
	121	×	0	Reset All Controllers
Prog Change	True #	× ******	*1	
System Exc	clusive	0	* 1	
System Common	Song Pos Song Sel Tune	× × ×	O *3 × ×	
System Real Time	Clock Commands	x x	O *3 O *3	
Aux Messages	Local ON/OFF All Notes OFF Active Sense Reset	× × × ×	× O O ×	
Notes		*2 Only RPN #0: Pito	or X manually, and memonsh Bend Sensitivity is eff Feel function (Groove) 1	ective.

Mode 1: OMNI ON, POLY

Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO

Mode 4: OMNI OFF, MONO

O : Yes

× : No

# ■ How to read a MIDI Implementation chart

O: MIDI message that can be received or transmitted

× : MIDI message that cannot be received or transmitted

### Basic channel

This is the range of MIDI channels on which MIDI message can be transmitted (received). The MIDI channel setting will be preserved even when the power is turned off.

#### Mode

Devices which have more than one receive channel normally operate in mode 3 (omni off, poly).

Reception : Only the MIDI message of the specified channel is received, and played polyphonically.

Transmission: MIDI message is transmitted on the specified channel.

\* Mode indicates the mode messages handled by MIDI.

#### Note number

This is the range of note numbers that can be received. Note number 60 is middle C (C4).

#### Velocity

This is the range over which velocity can be transmitted (received) for a "note on" or "note off" message.

#### Aftertouch

The R-8M does not use this message.

#### Pitch bender

The range over which the pitch bender will affect the pitch can be set independently for each section.

#### ● Control change

This lists the control numbers and control functions which can be received. The functions controlled by General Purpose Controllers can be freely specified. For details, refer to MIDI implementation.

#### Program change

The listed program numbers are the numbers of the data. The number listed here is one less than the Patch or Feel Patch that will be selected.

### Exclusive

Reception of exclusive messages can be turned on/off by the exclusive switch (setup).

### ● Common, Real-time

These MIDI messages are used when synchronizing with sequencers or rhythm machines. The R-8M can synchronize its Regular Feel (Groove) to song position pointer and real-time messages.

### Other

These messages are used mainly to keep a MIDI system running correctly, and include active sensing (to check for broken MIDI cables) and all "note off messages" (to stop all currently sounding notes).

# **SPECIFICATIONS**

#### R - 8M Total Percussion Sound Module

Sound source
Internal
Sampling frequency
Dynamic range
Maximum simultaneous notes
• Internal memory
Patch
Feel Patch ······16
Setup1
● RAM card memory
Patch32
Feel Patch ····································
Setup ·········
Display
16 character 2 line LCD (with backlight)

Indicators

Note number/Jump indicator Edit indicator MIDI message indicator

- ◆ Knobs and buttons

  Volume knob

  Note number/Jump button

  Edit/Exit button

  Cursor buttons (◄►)

  Value buttons (enter)

  Power switch
- Output jacks
  Multi out jacks I 6
  Mix out jacks (L (MONO)/R)
  Headphone jack
- Terminals

  PCM card slot × 3

  RAM card slot

  MIDI connectors (IN/OUT/THRU)

- External dimensions 482 (W) × 358 (D) × 45 (H) mm 19" × 14 - 1/8" × 1 - 3/4" EIA-1U rack mount type
- Weight 4.5 kg/9 lb 15 oz

Owner's manual

- Power consumption 15 W
- Included items
  Connection cable (LP 25)
- Options Sound ROM card (SN - R8 series) RAM card (M - 256E)
- \*Specifications and appearance are subject to change without notice for product improvement.

# **INDEX**

# [Index (by function)] ■Instrument settings Change the instrument assigned to a note number ------26 Play two instruments from one note number (Layer function)------25 Change the panning (output assign) -------28, 38 Adjust the volume (level) -------28 Allow successive notes of an instrument to overlap (assign type) -------28, 38 Keep successive notes of an instrument from overlapping (assign type)------28, 38 Keep specified instruments from overlapping (assign type) ------28, 38 Modify the volume in response to velocity (velocity curve) 29, 38 Mute the decay in response to note off (note off switch/velocity switch)------30, 38, 56 Let different note numbers modify the sound (Performance Section) .......35 ■ Performance Controls Use the hold pedal .......55 Modify the panning of an entire section .......55 Periodically modify the sound in synchronization with MIDI clock (Regular Feel)------48 Use velocity to modify the sound (Regular Feel) 49 Randomly modify the sound (Random Feel) -------50 ■Patch/Feel Patch setting functions Exchange sound parameters (Instrument Section) 32 Copy a Performance Section------39 Exchange Patch settings -------42 Initialize Patch settings (clear) -------44 Name a Patch 40 Exchange Feel Patch settings ------52 Copy the factory Feel Patch settings ......53 Initialize Feel Patch settings (clear) ------54 ■ Storing data Copy RAM card data into R - 8M internal memory (load) ---------62 Other Use two or more R-8M's to increase the number of maximum simultaneous notes ......58 Hear the ROM play demonstration .......9 Adjust the display contrast ·····65

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•

For Nordic Countries-

# Apparatus containing Lithium batteries

### ADVARSEL!

Lithiumbatteri, Eksplosionsfare, Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanual.

#### ADVARSEL!

Lithiumbatteri. Fare for eksplotion. Må bare skiftes av kvalifisert tekniker som beskrevet i servicemanualen.

#### **VARNING!**

Lithiumbatteri. Explosionsrisk. Får endast bytas av behörig servicetekniker. Se instruktioner i servicemanualen.

#### **VAROITUS!**

Lithiumparisto. Räjähdysvaara. Pariston saa vaibtaa ainoastaan alan ammottimies.

For West Germany

# Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

Roland TOTAL PERCUSSION SOUND MODULE R-8M (Gerät, Typ. Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046/1984

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka/Japan

Name des Herstellers/Importeurs

For the USA-

## RADIO AND TELEVISION INTERFERENCE

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

non-certified or non-verified equipment is likely to result in interference to radio and TV receptor.

The equipment described in this manual generates and uses radio frequency energy. If it is not installed and used property, that is, in strict accordance with our instructions, it may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J, of Part 15, of FCC Rules. These rules are designed to provide reasonable protection against such a interference in a rasidential installation. If there is no guarantee that the interference will not occur in a particular installation, If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

• Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable.

These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.

If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures.

• Turn the TV or radio antenna until the interference stops.

Move the equipment to one side or the other of the TV or radio.

• Move the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)

- kers or fuses.)
- trolled by different circuit breakers or fuses.)

  Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV. If necessary, you should consult your dealer or an experienced radiontelevision technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:

  "How two Identity and Resolve Radio TV Internoe Problems."

  This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

For Canada

#### **CLASS B**

#### NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Réglement des signaux parasites par le ministère canadien des Communications.