Roland

MUSIC WORKSTATION

SYNTHESIZER MANUAL









ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS QUVRIR

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 SAVE THESE INSTRUCTIONS

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

- 1. 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.
- 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.
- 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.
- The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

- The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
- Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
- 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.

For the USA -

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Polarized Line Plug

For Canada

CAUTION: TO F

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG. TO WIDE SLOT, FULLY INSERT.

ATENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

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

BLUE : NEUTRAL BROWN : LIVE

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

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

MUSIC WORKSTATION

JV - 1000

SYNTHESIZER MANUAL

introduction

Thank you for purchasing the Roland JV - 1000 Music Workstation. To take full advantage of the JV - 1000's functions, and to enjoy years of trouble-free service, please read this owner's manual carefully.

HOW TO USE THIS MANUAL

This manual explains the functions and operation of the JV - 1000 synthesizer sound source and the optional voice expansion board. If you already have a basic understanding of synthesizers, it may not be necessary for you to read every chapter.

Chapter 1. About the JV-1000 synthesizer sound source

This chapter explains how the JV - 1000 synthesizer sound source is organized, the various play modes, and sound editing operations. It also explains how to save edited data, and various 'Write' mode commands for data management.

Chapter 2. About the voice expansion board

This chapter explains the functions and operations when the optional voice expansion board is installed. If a voice expansion board is not installed in your JV - 1000, there is no need to read this chapter.

Chapter 3. Appendix

This chapter contains reference materials such as sound data lists and the MIDI implementation chart. It also contains alphabetical and topical indexes. The topical index allows you to quickly find the page which explains the operation or function you wish to read about.

Conventions used in this manual

Parameter names often appear in the display in abbreviated form, like Mode or ChoRate. In this manual, these abbreviations will be followed by the full name, such as "Key mode" or "Chorus rate". In addition, the range of values that can be set for the parameter will be given as (for example) 0—127 for a continuous value, or (for example) -100/50/0/50/100 for a value which can have only specific settings.

About the displays

The display screens printed in this manual as illustrations may not necessarily be identical to the factory preset data (sound names, etc.).

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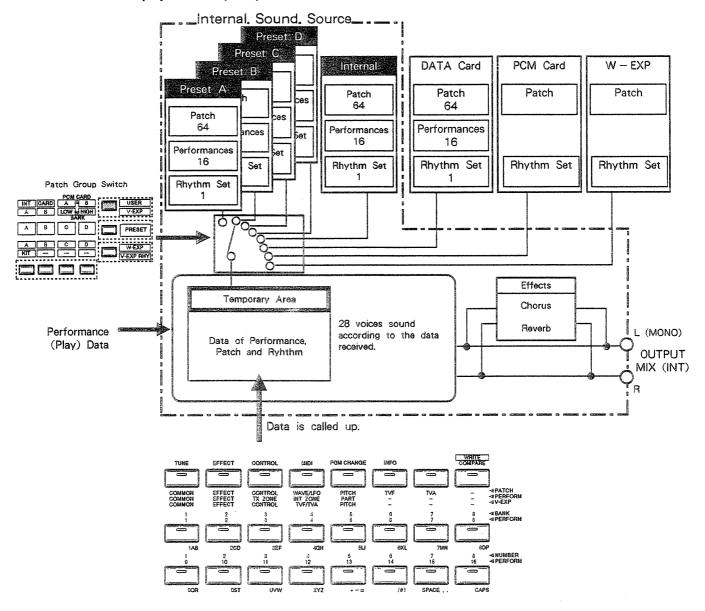
About the Chapter I JV-1000 synthesizer sound source

1. About the JV - 1000 synthesizer sound source

Organization

The synthesizer sound source of the JV - 1000 consists of sound data memory, circuitry which generates sound, and an effects unit. This sound source produces sound according to the settings made from the front panel or selected by a MIDI program change message.

The sound is then sent through the effects unit which applies chorus and/or reverb, and is finally output from the output jacks or headphone jack.



O Preset/user memories

The memory of the synthesizer section is organized into the following sections: Preset (A/B/C/D), User memory (INT/CARD), PCM card (PCM CARD), and Wave Expansion Board (W - EXP).

- * DATA cards, PCM cards, and Wave Expansion Boards are sold separately.
- * In addition, JV 80 compatible preset memories (A/B) are also provided.

O The temporary area

The temporary area is a section of memory which temporarily contains the sound data (performance or patch data, etc.) you select from the user memory or preset memory (A/B/C/D). The JV - 1000 synthesizer section produces sound in accordance with the data in the temporary area. Modifications you make by editing a sound will affect only the sound data in the temporary area.

○ The sound generating circuitry

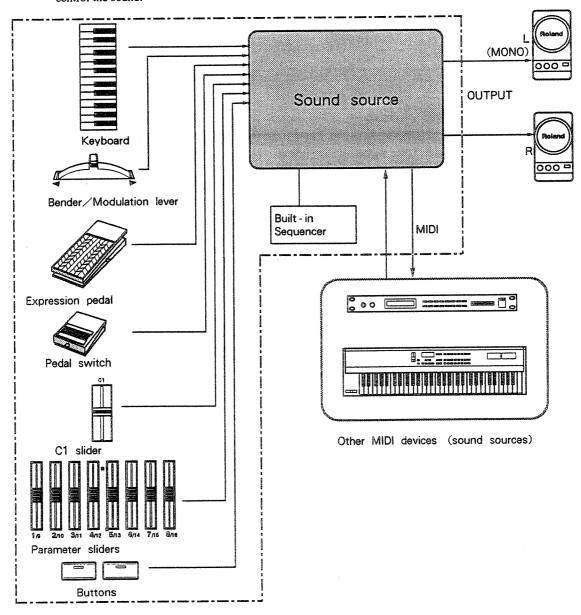
The JV - 1000 sound source can produce up to 28 notes simultaneously. The number of notes that can be produced simultaneously is referred to as the number of "voices".

O Effects unit

The stereo effects unit of the JV - 1000 provides chorus and reverb. Chorus and reverb can be used simultaneously.

The sound source and the controllers

The synthesizer sound source creates and produces sound. The various controllers (keyboard, pedals, sliders, etc.) control the sound.



○ Keyboard

When played, the keyboard sends Note on/Note off messages, as well as messages (data) about the pitch of notes played,. The force (velocity) with which you play a key, or the pressure (aftertouch) you apply after playing a key, can also be used to continuously control various aspects of the sound. You can also use aftertouch to apply effects such as vibrato or pitch bend.

O Bender/modulation lever

When this lever is moved to the left or right, only the pitch of notes played will change. By pushing the lever away from you, various aspects of the sound can be continuously controlled. This is often used to apply effects such as vibrato or tremolo.

○ Foot pedal

You can assign a parameter (such as volume or modulation) to a pedal connected to pedal jack 1 or 2, and move the pedal to control that parameter. A dedicated jack for a hold (sustain) pedal is also provided.

* Optional sold expression pedals (EV - 5, FV - 300L) or pedal switches (FS - 1, DP - 2) can be connected.

OC1 slider

This slider can control any parameter which has been assigned to it.

O Parameter sliders

These sliders can be used to edit the sound as you play, and also to change parameters which determine how the JV - 1000 is played. These parameters are different from those which can be assigned to the foot pedals or to the C1 slider. When you edit a sound, these sliders are used not only to set the parameter value, but also to select the kind of parameter.

○ Buttons

These buttons are used to turn parameters on/off as you play, and to select sounds or modes.

O MIDI

By connecting the JV - 1000 to other MIDI devices, you can use it to control those devices or use other MIDI devices to play the JV - 1000. Messages from the keyboard, the bender/modulation lever, foot pedals, and other types of message can also be exchanged.

Types of sound data in the JV - 1000

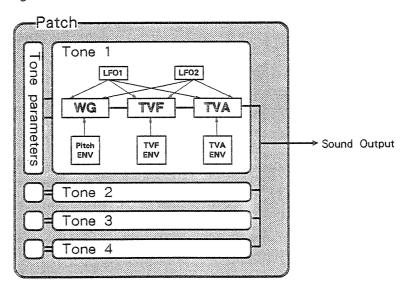
The JV - 1000 synthesizer section uses two types of sound data. One is the "Patch" (the basic unit of sound), and the other is the "Performance" (a selection of seven Patches and one Rhythm Set).

Patches and Tones

The Patch is the basic unit of sound used by the JV - 1000. Patches are in turn made up of "Tones". A Tone is a sound waveform stored in the JV - 1000's internal memory, on a PCM card or in a Wave Expansion Board.

It is possible to make a Patch using just one Tone, but for more complex and rich sounds you can use up to four Tones in one Patch. However, using more Tones means that the sound source is being required to produce more voices, and this will decrease the number of notes that you can play simultaneously.

Each Tone is organized as follows.



♦ WG (Wave Generator) ······

This section reads a waveform from internal memory (or a PCM card or the wave expansion board), and produces the basic sound of the Tone. This section also determines the pitch.

The selected waveform determines the basic character of the sound.

This section boosts or cuts specified frequency ranges of the waveform produced by the Wave Generator.

This section controls the level (volume) of the sound.

This section sends control signals to the WG, TVF, and TVA to create time - varying changes in pitch, frequency spectrum, and level.

♦ LFO

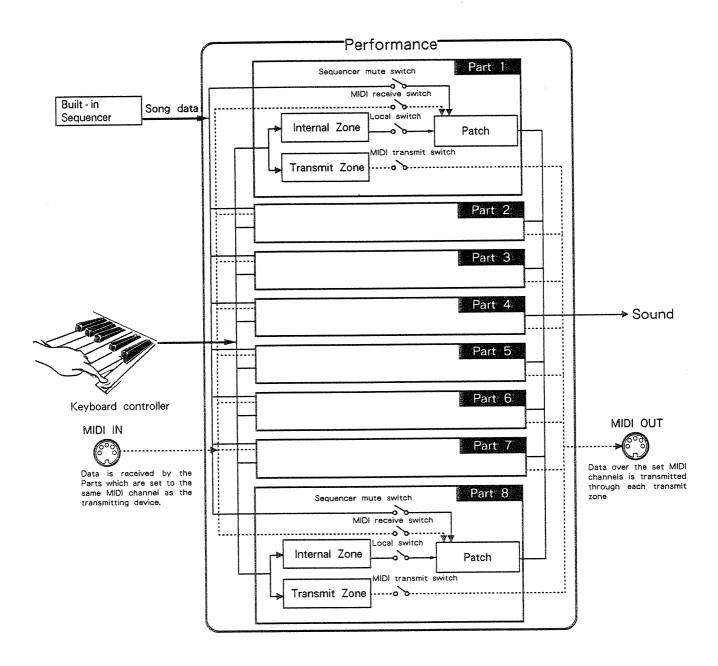
This section sends control signals to the WG, TVF, and TVA to create cyclical variation in pitch, frequency spectrum, and level. This gives richness and life to the sound.

* By "Patch parameters" we mean the Tone parameters explained above, together with effect settings for the Patch (chorus, reverb) and settings (such as bend range) which are common to all Tones in the Patch.

Performances and Patches

The JV - 1000 allows you to select seven Patches and one set of rhythm sounds (Rhythm Set) to create an ensemble. This combination of Patches and a Rhythm Set is called a Performance.

A Performance is organized as follows.



Parts

A JV - 1000 Performance contains eight "Parts". A Patch is assigned to each Part 1 - 7, and a Rhythm Set is assigned to Part 8. Each Part produces sound in response to notes played on its Internal Zone and in response to musical data from MIDI IN and from the built - in sequencer.

Relative adjustments to the Patch settings can be made to volume and pan (stereo position) for each Part, to determine the overall sound of the Performance. You can also set the MIDI receive switch (RX switch) to determine whether or not each Part will receive MIDI data from MIDI IN.

♦ Internal Zone ······

The Internal Zone settings modify the musical data coming from the JV - 1000's keyboard controller and then transmits it to each Patch (and to the Rhythm Set). The Patch (or Rhythm Set) assigned to each Part will produce sound according to this modified musical data. Internal Zone settings are made independently for each Part, so that each Part can be played in a different way.

The LOCAL switch determines whether or not the Internal Zone will transmit musical data to each Part. If this is switch is turned off, playing the keyboard will not produce sound.

♦ Transmit Zone ······

The Transmit Zone settings modify the musical data coming from the JV - 1000's keyboard controller and transmits the modified musical data from MIDI OUT on the specified MIDI channel. When you select a Performance, program change messages and volume messages will be transmitted for each Transmit Zone. This allows you to use external MIDI sound sources in a Performance along with the internal sound sources of the JV - 1000.

The MIDI transmit switch (TX switch) determines whether or not the Transmit Zone of each Part will transmit MIDI messages.

* By "Performance parameters" we mean parameters common to all Parts in a Performance such as effect settings (chorus, reverb) and key mode, together with the parameters that specify Part, Internal Zone, and Transmit Zone.

About Modes

The JV - 1000 can function in several different modes. Select the mode most appropriate for your particular application.

O Patch Play mode (p.16)

In this mode you can select and play individual Patches. You can use the eight parameter sliders or an optional sold foot pedal to modify the volume and character of the sound you are playing. This mode is appropriate when you wish to have maximum expressive control over the sound.

O Performance Play mode (p.24)

In this mode you can combine seven Patches and one Rhythm Set to create very thick and rich sounds. You can also play the Patches independently to create an ensemble. Even while you play, you can adjust the volume or pan of each Patch to give variety and expression to the sound.

○ Rhythm Play mode (p.32)

In this mode you can play a Rhythm Set (Part 8 of a Performance). This mode is convenient when recording a rhythm part into a sequencer.

O Patch Edit mode (p.42)

In this mode you can modify the various parameters which make up a sound to create an original Patch.

O Performance Edit mode (p.69)

In this mode you can conbine seven Patches and one Rhythm Set, and specify how they will be played and how effects will be added. In this mode, you can use the JV - 1000 as a live performance master keyboard, so that your playing dynamics and pedal control movements etc. will control not only the JV - 1000, but also external MIDI devices. Or, you can use the JV - 1000 as a multi - timbral sound source for composition and recording.

○ Rhythm Edit mode (p.88)

In this mode you can make settings for a Rhythm Set which can then be assigned to a Performance. You can specify how each Rhythm Tone will sound, and how the sound will change. A "Rhythm Set" is a collection of the Rhythm Tones assigned to each note number.

- * In addition to the modes described above, there is also a Write mode (p.100), in which you can manage JV 1000 data.
 - Voice Expansion mode (p.113)

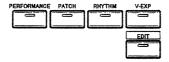
When a Voice Expansion Board (optional) has been installed in the JV - 1000, this mode allows you to use the keyboard to play the expansion board's sound source, and to edit the sounds. If a Voice Expansion Board has not been installed, it is possible to control a GS sound module connected to SEQ OUT.

* The GS Format is a standardized set of specifications for Roland's sound sources which defines the manner in which multi - timbral sound generating units will respond to MIDI messages.

2. Basic operation

How to select modes

The mode you select will depend on how you wish to use the JV - 1000. To select a mode, press a mode select button (PATCH, PERFORMANCE, RHYTHM, V - EXP, EDIT).



OPATCH

This button selects Patch Play mode.

○ PERFORMANCE

This button selects Performance Play mode.

ORHYTHM

This button selects Rhythm Play mode.

OV-EXP

This button selects Voice Expansion mode.

* For instructions on how to use the Voice Expansion Board, refer to chapter 2 "Voice Expansion Mode" (p.113).

OEDIT

If you press EDIT when in Patch Play mode, you will enter Patch Edit mode. If you press EDIT when in Performance Play mode, you will enter Performance Edit mode. If you press EDIT when in Rhythm Play mode, you will enter Rhythm Edit mode.

How to select sounds

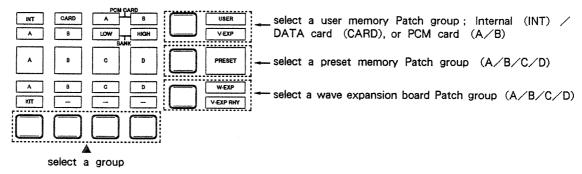
Select the memory (Patch Group)

Preset memories A/B/C/D each contain 16 Performances, 64 Patches, and 1 Rhythm Set. PCM cards or the Wave Expansion Board (both optional) also contain Patch and Rhythm Set data. These memories cannot be overwritten, but you can edit the data they contain and then save it to a user memory (either INT or CARD). INT and CARD each contain 16 Performances, 64 Patches, and 1 Rhythm Set.

		Preset				User Memory		Others		
	A	A B C D		n	JV - 80 compatible		INT	CARD	PCM Card	W- EXP Board
			A	В	1141	(*1)	(* 1)			
Patch	64	64	64	64	64	64	64	64	(* 2)	(* 2)
Performance	16	16	16	16	16	16	16	16		_
Rhythm Set	1	1	1	1	1	1	1	1	(* 2)	(* 2)
Re - writable	×	×	×	×	×	×	0	0	×	×

- * (*1) indicates an optional sold memory.
- * (* 2) Number depends on the type of card or board.

Use the PATCH GROUP switches to select the memory.



* To select JV - 80 compatible preset memories (A/B), press and hold ENTER and press PCM CARD (A/B).

Display Sample

Patch Group	Patch/Performance	Rhythm Sets
User (INT/CARD)	U ₁ / L	UI/UC
Preset (A/B/C/D)	A/B/C/D	A/B/C/D
W - EXP board (A/B/C/D)	Ę₁/Ę₂/Ę₂/Ę₃(*)	E ₄ / E ₅ / E ₇ / E ₇
PCM card (A/B)	品/账(*)	PA/PA
JV - 80 compatible presets	a/b	a/b

- (*) Wave expansion boards and PCM cards do not contain Performance data.
- * If a DATA card (optional) is not inserted into the DATA card slot, you cannot select DATA card Patches, Performances, or Rhythm Sets.
- * If a PCM card (optional) is not inserted into the PCM card slot, you cannot select PCM card Patches or Rhythm Sets.
- * If a Wave Expansion Board (optional) is not installed in the JV 1000, you cannot select W EXP Patches or Rhythm Sets. For some types of boards, not all Patch groups can be selected.
 - PCM cards and wave expansion boards

Separately sold PCM cards and wave expansion boards (both optional) contain PCM recordings of various waveforms (sounds). PCM cards or an expansion board can be used to supplement the 152 waveforms already built into the synthesizer sound source.

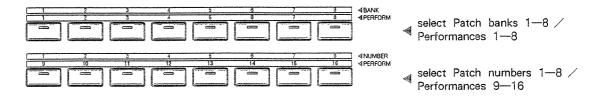
Some PCM cards or wave expansion boards contain Patch and Rhythm Set data as well. The number of Patches or Rhythm Sets will depend on the type of card or board.

To check the type of wave expansion board that is installed, press the function select button INFO and use \(\bigsim \)/\(\bigsim \).

Select the Bank/Number

In Patch mode, Patches (1 - 1 - 8 - 8) are selected by the combination of the bank (1 - 8) and number (1 - 8). Select the Patch bank using BANK, and the number using NUMBER.

In Performance mode, use the BANK/NUMBER switches to select Performance numbers (1-16).



* For details on how to select sounds when a Voice Expansion Board (optional) is installed, refer to p.122.

How to modify settings

This section explains the basic editing procedure.

Using the parameter sliders

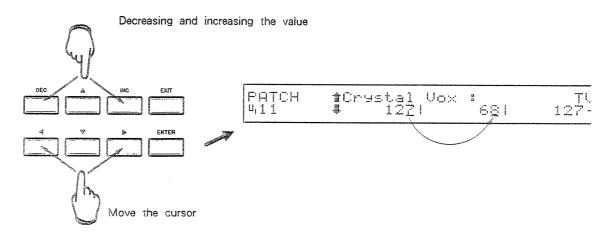
In display 'pages' which contain two or more parameters or values, values are arranged horizontally, divided by a vertical line. To modify a value, move the parameter slider corresponding to the position of the value in the display. From the left, the displayed values correspond to parameter sliders 1—8, so move the appropriate parameter slider for the value you wish to modify.

* If only one value is displayed, move parameter slider 1.

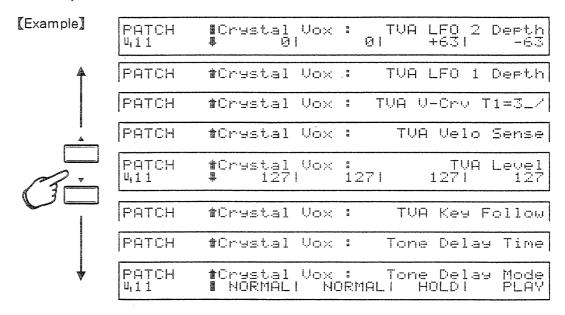
Using DEC/INC

You can also adjust a displayed value using the DEC/INC buttons. Press [4] / [5] to move the cursor to the value of the part you wish to modify, and press INC to increase the value or DEC to decrease the value.

* The value will change continuously if you hold the DEC/INC, [4]/[], or [4]/[] buttons. If you continue to hold a button and then press the other button, of the pair the change will become faster.



Selecting pages



In Patch Edit mode, Performance Edit mode, and Rhythm Edit mode, each function select button has several pages assigned to it. You can switch between two of these pages by pressing that function select button (i.e., the button whose indicator is currently lit).

As you edit, you can use this function to instantly compare the parameters of two pages without having to use \(\bigcap \setminus \setminus \) to move between the two pages.

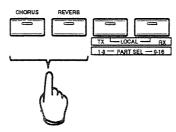
When you press the function select button, the pages will switch as follows.

When the power is turned If when (A) is selected you If when (E) is selected you on, the first page (A) and press (v) to select (B), (B) press (a) to select (D), (B) last page (E) will alternate and (E) will alternate each and (D) will alternate each each time you press the time you press the function time you press the function function select button. select button. select button. Д A A 8 B B C C C D D D E E

*If you have used A/volume to select the same page, the selected page and the first page will alternate each time you press the function select button. If the first page has been selected for both, the first page and the last page will alternate.

Effector on/off

The CHORUS/REVERB button turns the chorus and reverb of the internal synthesizer sound source on/off. When on the indicator will be lit, and effects will be applied as specified by the Patch and Performance parameters.

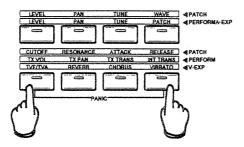


If stuck notes occur ...

The following procedure will reset the entire system (including MIDI). Use this procedure to stop "stuck" or "hanging" notes.

Procedure

While pressing CUTOFF/TX VOLUME, press RELEASE/INT TRANS.



If you press the buttons only for a short time (less than one second), the internal sound source will be muted, and Key Off / Hold Off messages will be transmitted to each channel for which there is a Key On / Hold On. If you press the buttons for more than one second, the following messages will be transmitted to all channels.

All Note Off (note off velocity 127)

Pitch Bender = center

Channel Aftertouch = 0

Modulation = 0

Hold = 10

Volume = 127

* As a result of using the Panic function, the Internal Level will be set to 127, and Internal Pan will be set to 0 for Performances.

3. Patch Play mode

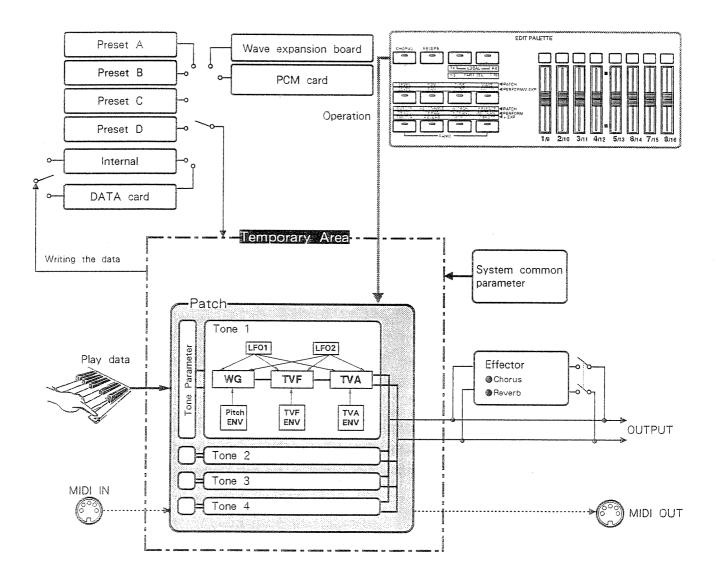
What is the Patch Play mode?

Patch Play mode is when just a single Patch is called into the temporary area and played. A Patch may consist of up to four Tones, and you can use the parameter sliders and the TONE SWITCH buttons to adjust each Tone in realtime as you play.

By adjusting parameters in realtime you can add expression to your playing, or create effects that are not possible with conventional controllers. This mode allows you maximum expressiveness with a single sound, and is suitable for playing solos, etc.

* Changes you make with the parameter sliders etc. will affect only the data that has been read into the temporary area.

The original Patch data in internal memory (or the DATA card) will not change. If you wish, you can store the modified settings from the temporary area as a Patch in the user memory. (See p.101, Write mode.)

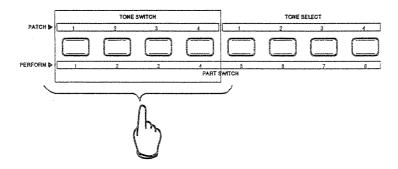


Operation guide

O TONE SWITCH

You can use the TONE SWITCH buttons (1-4) to turn the sound on/off for each Tone. This is convenient when you wish to hear only a specific Tone.

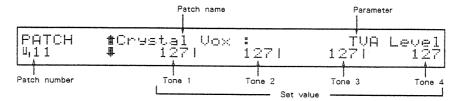
* The button indicator is lit when on.



* The on/off setting you make for each Tone using the TONE SWITCH buttons (1—4) is stored as part of the Patch settings when you use the Write operation (p.101).

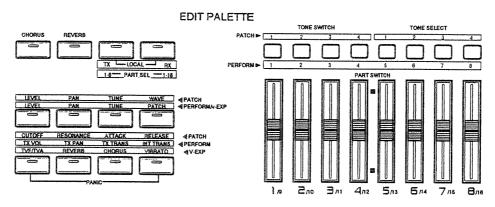
Use the assign buttons to select parameters

In Patch Play mode, you can press the assign buttons to directly select Patch parameters which determine the basic sound of each Tone (pitch, frequency spectrum, volume, and time - varying change and effects).



(*) II_1 = internal, II_2 = DATA card, II_1 / II_2 / II_3 = preset (group), II_4 or II_5 = PCM card, II_4 / II_5 / II_5 = wave expansion board, II_5 or II_5 = JV-80 compatible preset

The display will show the parameter values for each Tone. Use parameter sliders 1—4 to adjust the values for Tones 1—4.



Parameters you can adjust while in Patch Play mode

In the JV - 1000, display screens in which you can modify parameters are called Pages. Each of the assign buttons has several pages assigned to it, and by changing pages you can adjust various parameters in realtime.

This section will explain the parameters in the page which appears first when each assign button is pressed. Adjusting these parameters as you play will provide a good deal of musically useful control.

♦ LEVEL

You can adjust the TVA level to set the volume level of each Tone.

* PAN

By adjusting the stereo position of each Tone you can modify the spatial characteristics of the sound.

♦ TUNE

This parameter adjusts the pitch in semitone steps.

PATCH	#Cr9	stal Vox	± =	Coarse	Tune
411	畢	0 l	01	+12	-12

♦ WAVE

Wave Waveform

This parameter selects the number of the wave to be used.

PATCH	ICr:	estal	Vox:	(5YH	UOX	1)	Wave
U ₁ 11	4	41		461		381		37

♦ CUTOFF

Cutoff TVF cutoff 0-127

This parameter adjusts the TVF cutoff frequency.

POTCH	#Cr	·ustal Uc		,	+
U, 1 1	# r	1271	,, . 1001	다. 오려 (utoff taa
	•		da '' '' 1		7 (2)

♦ RESONANCE

Resonance TVF resonance 0-127

This parameter emphasizes the frequency area around the TVF cutoff frequency, creating a distinctive sound character.

♦ ATTACK/RELEASE

TVA Envelope T1/T4 TVA envelope T1/T4 each 0 — 127

These parameters adjust the TVA envelope to determine how volume will change over time.

T1 adjusts the attack time, and T4 adjusts the decay time.

PATCH **†**Crystal Vox : TVA Envelope T1 411 **‡** 01 101 251 80

Patch play mode parameter list

Assign	Parameter selected	Correspor Pate	See		
button	by <u> </u>	Function select button	Parameter selected by 🔊		Page
	▲TVALFO2Derth	WAVE/LFO	LFO DEPTH	A1	P.56
	▲TVALFO1Derth	WAVE/EI O	LI O DE. III	A2	P.56
	▲TUAU-Crv			Crv	P.65
LEVEL	▲TVA Velo Sense		TVA	Vel	P.66
CONTRACTOR OF THE CONTRACTOR O	TVALevel	TVA		Lev	P.65
errore sell classified	▼TVAKeyFollow			L-KF	P.65
Seattle of the seattl	▼Tone Delay Time		DELAY	Time	P.67
e de la companya de l	▼Tone Delay Mode		DLET!	Mode	P.67
	▲Reverb Send			Reverb	P.46
поставительного поставительног	▲ Chorus Send	EFFECT	FX SEND	Chorus	P.46
PAN	a DryLevel			Dry	P.46
	Pan	TVA	TVA	Pan	P.66
acta il la cassoni della constitucioni della c	▼ PanKeyFollow	170		P-KF	P.66
	▲PitchLF02Derth	WAVE/LFO	LFO DEPTH	P2	P.56
MONTH TO MONTH THE TO MONTH THE TO MONTH THE TO THE THE TO	▲PitchLF01Derth	##AVE/EI V	LI O DEI III	P1	P.56
TO THE PERSON AND THE	▲ PitchEnvelore			Env	P.59
TUNE	Coarse Tune			Crs	P.58
CONTROL OF THE CONTRO	▼ Fine Tune	РІТСН	PITCH	Fin	P.58
de accidente	▼ RandomPitch			Rnd	P.58
erre decide considera	▼ PitchKe⊌Follow			P-KF	P.59
and the state of t	Wave		WAVE	No	P.53
WAVE	▼ Wave Group	WAVE/LFO	AAWAE	Group	P.53
AAWAE	▼ FXMSwitch	VVAVE/LITU	FXM	Switch	P.53
The state of the s	▼ FXMDepth		LAM	Depth	P.53
	TVFLF02Depth	14/41/5/150	150 DEDTI:	F2	P.56
CUTOFF	TVFLF01Depth	- WAVE/LFO	LFO DEPTH	F1	P.56

Assign	Parameter selected		nding parameto	er of	See
button	by ▲/▼	Function select button	Parameter selected by		Page
	▲TUF-EnvVeloSense		TVF - ENV *	Vel	P.63
	▲TUF Envelope			Env	P.62
CUTOFF	Cutoff	TVF	TVF	Cut	P.61
	▼ FilterType		146	Тур	P.61
	▼CutoffKeyFollow			F-KF	P.62
RESO-	Resonance	TVF	TVF	Res	P.61
NANCE	▼Resonance Mode		1 7 7	Mode	P.62
	▲TUF-EnuKeyFollow			T-KF	P.63
	▲TVF Envelope T4		TVF - ENV *	T4	P.64
	▲TVF EnvelopeL3	TVF		L3	P.64
Action to the second se	▲TVF Envelope T2			T2	P.64
ATTACK	▲TUF Envelope Ti			T1	P.64
	TVA Envelope Ti		TVA - ENV *	T1	P.68
	▼TVAEnvelopeT2			T2	P.68
Manufacture of the Control of the Co	▼TVAEnvelopeL3	TVA		L3	P.68
	▼TVA Envelope T4			T4	P.68
	▼TVA-EnvKe9Follow			Time - KF	P.68
	▲TVF-EnvKeyFollow			T-KF	P.63
	▲TVF Envelope T1			T1	P.64
	▲TVF Envelope T2	TVF	TVF - ENV *	T2	P.64
	▲TVF Envelope L3			L3	P.64
RELEASE	▲TVF Envelope T4			T4	P.64
	TVA Envelope T4			T4	P.68
	▼TVA EnvelopeL3			L3	P.68
	▼TVA Envelope T2	TVA	TVA - ENV *	T2	P.68
	▼TVAEnvelopeT1		,	T1	P.68
	▼TVA-EnvKeyFollow			Time - KF	P.68

Parameter setting displays marked by * occupy two pages.

* In Patch Play mode, MIDI channels for transmission and reception can be set independently. However, these settings are determined not by the Patch parameters, but rather by the System Common parameters. Thus, the MIDI channels will not change when you select a different Patch. If you wish to change the MIDI channels, modify the System Common parameters (p.38).

In Patch Play mode, it is possible to adjust the same parameter simultaneously for all four Tones. In Patch Edit mode (p.42), which is explained later in this manual, the screen will show several parameters for one Tone, so it may be difficult to keep track of the overall Patch.

For this reason, it is effective to use Patch Play mode for Patch editing when you wish to adjust the balance between Tones, since this helps you to remain aware of the overall structure of the Patch.

4. Performance Play mode

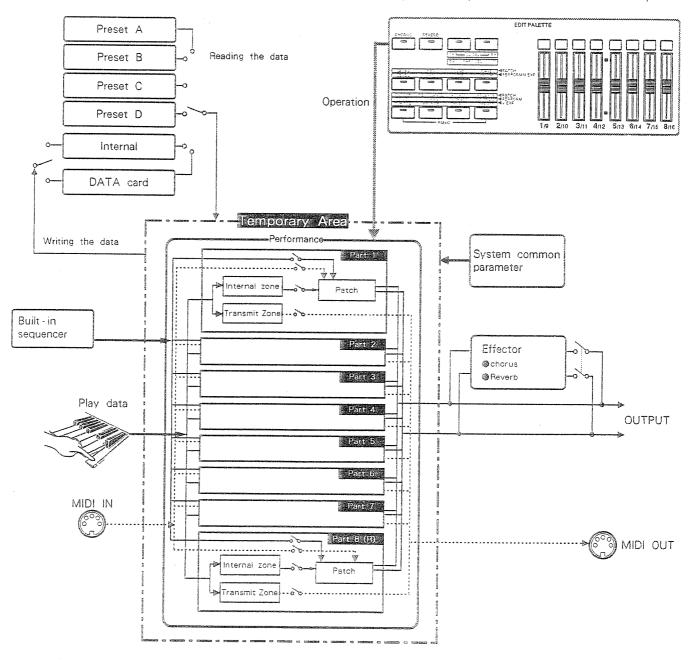
What is the Performance Play mode?

In Performance Play mode you can combine seven Patch and one Rhythm Set to create richer and more complex sounds. Or, you can play the various Patches independently to create an ensemble.

Musical data from the keyboard controller and other control data (from the parameter sliders and other controllers) passes through the Internal Zone settings and controls the Patch which has been assigned to each Part. External MIDI devices can be controlled on eight MIDI channels via the Transmit Zone.

* Changes you make using the parameter sliders etc. affect only the data which has been read into the temporary area.

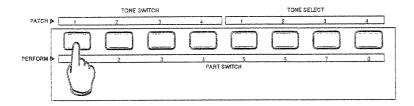
The original performance data in internal memory (or the DATA card) remains unchanged. If you wish, you can save the modified data from the temporary area into user memory as a Patch. (-> Command reference: Write mode)



Operation guide

How to use the PART SWITCH buttons

In performance play mode, the PART SWITCH buttons (1—8) can be used to turn sequencer muting, or the transmit/receive/local switches on/off for each Part. The function of the PART SWITCH buttons depends on the state of the TX/RX switches:



♦ When neither TX nor RX are lit Sequencer mute switch

Parts which are turned on will receive musical data from the on - board sequencer, and Parts which are turned off will not.

♦ When TX is lif MIDI transmit switch

Parts which are turned on will transmit musical data from the keyboard etc. from MIDI OUT to external MIDI devices, and Parts which are turned off will not transmit data.

♦ When RX is lit MIDI receive switch

Parts which are turned on will receive musical data from external MIDI devices connected to MIDI IN, and Parts which are turned off will not receive data.

* When both TX and RX are lit Local switch

Parts which are turned on will play their Patch in response to musical data from the keyboard etc., and Parts which are turned off will not play.

- * Settings made using the PART SWITCH (1—8) and TX/RX buttons are stored as part of the Performance data when you use the Write operation (p.101).
- * When the Key Mode (p.73) is at SINGLE, settings for the Transmit Switch and Local Switch will be ignored. Only the Transmit Switch and Local Switch for the Part to which the cursor currently points will be turned ON.

The Part Information function

Modulation Modulation 0-127

Messages that control vibrato (pitch modulation) or tremolo (volume modulation)

Volume 0-127

Messages that control the volume level

Pan Pan L63-0-64R

Messages that control stereo position

Expression Expression 0-127

Messages that affect the character of the sound

Hold - 1 Hold 1 ON/OFF

Hold pedal messages

Aftertouch Aftertouch 0-127

Aftertouch messages

Bender Pitch bend change -64-+63

Messages that control continuous change in pitch

Voice the number of voices used 0-28

The number of currently - sounding voices in the Patch

- * The number of voices will vary depending on the number of tones used to form a patch. For ever four voices used, " a " will appear in the display. " a " will appear when the total number of voices being used has exceeded 24.
- * The display will show the actual data value of the MIDI message received. The actual result of the message may differ from the displayed data value.
- * The internal synthesizer sound source will not receive the type of MIDI message for which the Receive switch (p.39) has been turned off. Also, Parts whose MIDI Receive switch (p.25) has been turned off will not receive any MIDI messages from MIDI IN.

Parameters accessable from Performance Play mode

Each assign button has several parameter pages assigned to it. This section explains the parameter settings for the page that appears when you first press an assign button.

In pages such as Internal Level or Internal Pan, "<SEQ>" will be displayed to the right of the performance number.

```
PERFORM #
401<SEQ>#
```

In pages where this display appears, parameter changes you make will be sent to the on - board sequencer, allowing you to record time-varying changes in volume balance and pan for each Part. For the parameters which can be recorded, refer to the parameter list on p.30.

- * If the same Receive Channel has been specified for a multiple number of Parts, the value for all Parts on that channel will be altered at the same time that you make a change in the value for any one Part. If you need to make setting changes that are specific to individual Parts, you will need to assign a different Receive Channel to each Part.
- * The setting for Internal Level and Internal Pan will not change when changing Performances. Also, alterations made in this setting cannot be stored in memory by performing a write. When you need to adjust the volume balance for the various Parts when creating a Performance, use the Preformance parameter, Part Level and Part Pan (p.84).
- * As a result of using the Panic function, Internal Level and Internal Pan will be set respectively to 127 and 0 for each of the Parts.

♦ LEVEL

Internal Level Internal level 0-127

This parameter adjusts the volume of the Part relative to the volume specified in the Patch itself. At a setting of 127, the part will have the full volume specified in the Patch. (When the power is turned on, each Part will be set to a value of 127.) Modify this Internal Level parameter when you wish to record volume data into the sequencer.

```
PERFORM #Sun Lead : Internal Level
401<SEQ>#127/127/127/127/127/127
```

* PAN

Internal Pan Internal pan L64-0-63R

This parameter adjusts the stereo position of each Part. Relative to the pan setting of the Patch, L64 will be far left, 0 will be the same as the setting of the Patch, and 63R will be far right. (When the power is turned on, each Part will be set to a value of 0.) Modify this Internal Pan parameter when you wish to record pan data into the sequencer.

FERFORM #59n	Lead :	Internal	Fan
401〈SEQ〉#0 I	0 1 0 1 0 1	0 1 0 1 0 1	0

TUNE

Part Coarse Tune Part coarse tune -48-+48

This parameter adjusts the pitch of each Part in semitone steps. Positive (+) values will raise the pitch, and negative (-) values will lower it.

PERFORM ¶Milky Way : Part Coarse Tune 401<SEQ>\$ 0| 0|+12|-12| +4| +7| 0| 0

♦ PATCH

Patch Select Patch select

This parameter selects the Patch (or Rhythm Set for Part 8) assigned to each Part.

PERFORM № Parch Select P1=Crystal Vox Կ01<SEQ>•Ա11|Ա12|Ա13|Ա14|Ա15|Ա16|Ա17| UI

- * Use PATCH GROUP to select the Patch group and BANK/NUMBER to select the bank/number. When you select a Patch, the Patch name will appear in the upper right of the display.
- * It is not possible to select PA/PB or EA —ED Patch groups unless a PCM card is inserted or a wave expansion board is installed.

For some types of boards or cards, not all Patch groups / bank numbers can be selected.

♦ TX VOLUME

Transmit Volume Transmit volume 0-127

These parameters adjust the volume of external MIDI devices.

TX PAN

Transmit Pan Transmit pan L64-0-63R

These parameters adjust the pan of external MIDI devices.

* If you have selected a Performance whose Transmit Volume or Transmit Pan settings are OFF, the display will show "OFF" when you press TX VOLUME or TX PAN. However, if you then use the parameter sliders or DEC/INC buttons to modify the setting, you will not be able to re - select "OFF". (P.79)

TX TRANS

This parameter transposes the Transmit Zone in semitone steps.

* If the Key Mode is Single (p.73), this setting has no effect.

INT TRANS

This parameter transposes the Internal Zone in semitone steps.

We recommend that you use the Part parameter 'Coarse Tune' to adjust the character of the sound, and use this Transpose parameter to make adjustments for playability.

- * The Internal Zone processes the musical data and passes it on to the Part. The sound that actually results will depend on the Patch settings.
- * If the Key Mode is Single (p.73), this setting has no effect.

Performance play mode parameter list

When the assign buttons have been pressed, you can use \(\bigcup \)/ \(\bigcup \) to select the pages containing the key range or velocity parameters for the Transmit Zone and Internal Zone. You can modify these settings while you play. For details on each parameter, refer to 8, Performance Edit Mode. (p.69)

Assign	Parameter selected	Correspondi Patch	See	
button	by <u>(</u>	Function select button	Parameter selected	Page
AND THE CONTROL OF TH	▲Part Level	PART	Level	P.84
deli dell'area (Colonia) della	Internal Level (*1)(*3)	_		P.27
di Language	▼Receive Channel (*2)		Receive Channel	P.85
BMP-LINE ALCOHOLS	▼UoiceReserve(*2)		Voice Reserve	P.85
LEVEL	▼Chorus Switch(*2)		Chorus Switch	P.86
and the second s	▼ReverbSwitch(*2)	PART	Reverb Switch	P.86
CONTRACTOR AND	▼ReceiveP.C(*2)		Receive Program Change	P.86
	▼ReceiveVolume(*2)		Receive Volume	P.86
	▼Receive Hold-1(*2)		Receive Hold - 1	P.86
PAN	▲ PartPan	PART	Pan	P.84
. 75.4	Internal Pan(*1)(*3)	_		P.27
TUNE	Part Coarse Tune (*3)	PART	Coarse Tune	P.85
1 777	▼PartFineTune(*3)	FANI	Fine Tune	P.85
PATCH	PatchSelect(*3)	PART	Patch Select	P.84
Tx	▲TransmitPro9ramChan9e		Transmit Program Change	P.79
VOLUME	TransmitVolume	TX ZONE	Transmit Volume	P.79
COLUMN STATE OF THE STATE OF TH	▼TransmitChannel		Transmit Channel	P.78
	▲TransmitProgramChange		Transmit Program Change	P.79
TX PAN	Transmit Pan	TX ZONE	Transmit pan	P.79
AND A FORM OF THE PROPERTY OF	▼Transmit Channel		Transmit Channel	P.78
the training of training of the training of th	▲Tx.MaxVelocity		Max Velocity	P.77
TX	▲Tx.U-Cr∪	TY 70NE	Velocity Curve	P.78
TRANS	▲Tx.VeloSense	TX ZONE	Velocity Sense	P.78
NOMERON STATES	Tx.Transpose		Transpose	P.77

Assign	Parameter selected	Correspondir Patch I	See	
button	by ▲ / ▼	Function select button	Parameter selected	Page
тх	▼Tx.Ran9eLower	TX ZONE	Key Range Lower	P.76
TRANS	▼Tx.Range Upper	1X ZUNE	Key Range Upper	P.76
	▲Int.MaxVelocity		Max Velocity	P.82
	▲Int.V-Crv		Velocity Curve	P.83
INT	▲Int.VeloSense	INT ZONE	Velocity Sense	P.82
TRANS	Int.Transpose	MIZONE	Transpose	P.82
	▼Int.Ran9eLower		Key Range Lower	P.81
	▼Int.Ran9eUpper		Key Range Upper	P.81

- (* 1) Internal Level and Internal Pan settings can not be written by the Write operation.
- (* 2) This parameter can also be accessed by the PAN assign button.
- (* 3) Parameter change data will be sent to the on board sequencer.
- * In addition to the parameters listed above, the JV 1000 has other parameters which are common to the entire synthesizer sound source (System Common parameters) and are not specific to an individual Performance. Settings of these parameters will not change even when you select a different Performance or enter a different mode. (p.33)

5. Rhythm Play mode

What is the Rhythm Play mode?

The JV - 1000 synthesizer sound source has a Rhythm Set (a set of rhythm sounds) for each memory; internal, preset A B C and D. When you press RHYTHM you can play one of these Rhythm Sets from the keyboard controller.

If you are in Performance Play mode when you press RHYTHM, the Rhythm Set assigned to Part 8 of the Performance will be selected. If you are in Patch Play mode when you press RHYTHM, the Rhythm Set assigned to Part 8 of the last - selected Performance will be selected.

If you wish to play a different Rhythm Set, use the Patch group switches to select the desired memory.

When you play the keyboard, the rhythm sound (Rhythm Tone) assigned to that key will sound. The 61 keys from C2 to C7 can be assigned as key numbers.

- st Page 164 lists the Rhythm Tones which were assigned to each key at the factory.
- * Rhythm Sets cannot be played when the Local Switch for PERFORM MIDI (p.38) is OFF.
- * The transmit/receive channels for the Rhythm Play mode will be the same as the transmit/receive channels for Part 8 in the Performance mode.

How to select and modify parameters

In Rhythm Play mode, the display of the synthesizer section will be as follows. The left side of the display will show the note name and key number (Note Number) of the key that was pressed.

At this time you can use the parameter sliders, and INC/DEC to modify the values of the following parameters.

Switch Tone switch ON/OFF

This parameter turns the currently selected Rhythm Tone ON (it will sound) or OFF (it will not sound).

Group Wave group INT/EXP/CARD

This parameter selects the memory from which the waveform of the Rhythm Tone will be taken: internal (INT), wave expansion board (EXP), or PCM card (CARD).

No Wave number

This parameter selects a waveform from the specified wave group. The wave name of the selected number will be displayed in parentheses ().

System Common parameters

Press TUNE, CONTROL, or MIDI to access the System Common parameters (parameters common to the entire JV - 1000). Here we will explain the System Common parameters relevant to Patch Play mode and Performance Play mode. However, be aware that modifications you make to these parameters will remain even if you select a different Performance or Patch.

O TUNE

TUNE& I Tune|Transpose|L-LCD-R|PowerUpFUNCTION#440.0| OFF| 0| 3| 3|DEFAULT

Tune Master tune 427.4—452.6

This determines the overall tuning of the JV - 1000. The displayed value is the pitch frequency of the A4 key.

Transpose Transpose ON/OFF -38 - +36

This transposes the entire JV - 1000 in semitone steps. The setting to the left of the " 1" determines whether transpose will be used (ON) or not (OFF). The setting to the right of the " 1" specifies the amount of transposition.

LCD(L) LCD(L) contrast 0-10

This adjusts the contrast (brightness) of the synthesizer section display.

LCD(R) LCD(R) contrast 0-10

This adjusts the contrast (brightness) of the sequencer section display.

PowerUp | Power up mode LASTSET/DEFAULT

This specifies the condition the JV - 1000 will be in when power is turned on.

LASTSET: The Patch or Performance last selected when the power was turned off will be

selected.

DEFAULT: Patch UI11 or Performance UI01 will be selected.

TUNE& **†** Scale Tune! FUNCTION# OFF!----!

Scale Tune Switch ON/OFF

Tune it ON to use the scale tune feature, and OFF when it is not to be used.

The pages below are used for making the setting for Scale Tune. The particular page that appears will be different depending on the mode.

[From the Patch Play Mode]

Note Note C-B

Provides for selection of the note for which a Scale Tune setting is to be made. The note can be specified by simply pressing a keyboard key.

Tune Scale Tune -64 to +63

Sets the pitch of the specified note in steps of 1/100 of a semitone.

[From the Performance Play Mode]

TUNE& **1** Scale Tune C# FUNCTION**!** -8| -8| 0| 0| 0| 0| 0

Scale Tune Scale Tune -64 to +63

The note for which a Scale Tune setting is to be made is specified by pressing a keyboard key. The pitch of the specified note can be set in steps of 1/100 of a semitone, for each Part.

The Scale Tune Feature

The scale Tune feature allows you to finely adjist the individual pitch of the notes from C through B. Through the settings are made shile working with one octave, the fine adjustments will affect all octaves. By making the appropriate Scale Tune settings, you can obtain a complete variety of tuning methods other than equal temperament.

O Equal Temperament

This method of tuning divides the octave into 12 equal parts. It is currently the most widely used form of tuning, especially in occidental music. On the JV - 1000, equal temperament is used whenever Scale Tune is OFF.

O Just Temperament (Keytone C)

The three main chords resound much more beautifully than with equal temperament, but this benefit can only be obtained in one key. If transposed, the chords tend to become ambiguous. The example given involves settings for a key in which C is the keynote.

O Arabian Scale

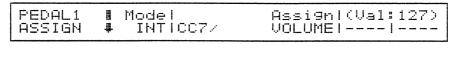
E and B are a half of a semitone lower than equal temperament, whereas C#, F#, and G# are a half of a semitone higher in this method of tuning. The intervals G-B, C-E, F-G#, A#-C#, D#-F# are a neutral third (interval between a major third and a minor third). On the JV - 1000, the Arabian Scale can be enjoyed with the three keys of G, C, and F.

[Example Setttings]

Note	Equal Temperament	Just Temperament (Keytone C)	Arabian Scale
С	0	0	-6
C#	0	-8	+45
D	0	+4	-2
D#	0	+16	-12
E	0	14	-51
F	0	-2	-8
F#	0	-10	+43
G	0	+2	-4
G#	o	+14	+47
A	0	-16	0
A#	0	+14	-10
В	0	-12	-49

CONTROL

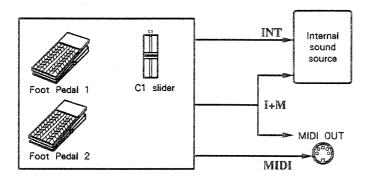
These settings determine the parameters which will be controlled by foot pedals connected to pedal jacks 1 and 2 and by the C1 slider.



C1 OSSIGN	*	Model Turi	Assign (Val:127)
HPPIGN	4	THII	REMD-AL, I I

Mode Output mode OFF/INT/MIDI/I+M

This setting determines the destination of the control messages sent by the pedals or the C1 slider. When INT is selected, the messages will be sent only to the internal sound source. When MIDI is selected, the messages will be sent only to MIDI OUT. When I+M is selected, the messages will be sent to both the internal sound source and to MIDI OUT. When OFF is selected, the pedals and the C1 slider will not transmit any messages.



Assign CC0 - CC95/AFTERTOUCH/BEND-UP/BEND-DOWN/PROG-UP/PROG-DOWN

These settings determine the parameters which will be controlled by the pedal or C1 slider. CC0—CC95 are control change numbers 0 - 95. BEND - UP / BEND - DOWN indicates pitch bend up and down. PROG - UP / PROG - DOWN will select the next higher or lower Performance or Patch. The value in parentheses () indicates the current position of the pedal or C1 slider.

PEDAL POLARITY page

PEDAL1 PEDAL2 HOLD STANDARD/REVERSE

These settings allow the polarity of pedal switches connected to the pedal jacks 1/2 or the hold pedal jack to be reversed so as to be compatible with the JV - 1000. When using a Roland pedal switch (DP - 2) set this to STANDARD.

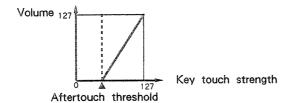
If you are using a reverse - polarity pedal switch made by another manufacturer (e.g., if the sound is held even when the pedal switch connected to the Hold Pedal jack is not pressed), set this to REVERSE.

AFTER TOUCH page

1				 	1
	AFTER	甘	Threshl	The same of the sa	
	TOUCH		101	 	

Thresh Threshold 0-127

This sets the level (threshold) at which aftertouch will begin to function. If the aftertouch value does not reach this level, aftertouch will have no effect. If this Threshold setting is set to 127, aftertouch will not function at all.



MIDI

For some types of board or card, not all Patch groups / bank numbers can be selected.

[When in Patch Play mode]

Local Local switch ON/OFF

The internal sound source will produce sound in response to musical data from the JV - 1000 itself when this is ON, and will ignore such data when this is OFF. This setting does not affect MIDI transmission or reception.

Rx-Ch Patch receive channel 1-16

This sets the receive channel for Patch Play mode.

Tx-Ch Patch transmit channel 1-16/Rx-Ch/OFF

This sets the transmit channel for Patch Play mode. When this parameter is set to "Rx - Ch", the transmit channel will be the same as the receive channel. When this is set OFF, data will not be transmitted.

[When in Performance Play mode]

Local Local switch ON/OFF

The internal sound source will produce sound in response to musical data from the JV - 1000 itself when this is ON, and will ignore such data when this is OFF. This setting does not affect MIDI transmission or reception.

Ctrl - Ch Control channel 1 - 16/OFF

This setting specifies the channel on which Performances will be selected. (This is separate from (and in addition to) the transmit/receive channels for each Part in the Performance.) If this setting is the same as the receive channel setting for one of the Parts in the Performance, Performance selection will take priority. When this is set OFF, transmission/reception will take place.

* The MIDI transmit/receive channels for each Part are determined by the Performance parameters.

TRANSMIT MIDI, RECEIVE MIDI page

TRANSMIT#P.C|Bnk|C.C|Vol|Bend|Mod|Aft| MIDI # ON| ON| ON| ON| ON| ON|--

RECEIVE #P.C|Bnk|C.C|Vol|Bend|Mod|Aft| MIDI # ON| ON| ON| ON| ON| ON|--

P.C Bnk C.C Vol Bend Mod Aft ON/OFF

These settings specify whether each type of MIDI message will (ON) or will not (OFF) be transmitted/received. The various types of message are abbreviated as follows.

P.C Program change

Bnk Bank select

C.C Control change(*)

Vol Volume(*)

Bend Pitch bender(*)

Mod Modulation (*)

Aft Aftertouch (*)

For messages indicated by (*), a RECEIVE MIDI setting of OFF will also disable control by the JV - 1000 itself or from the pedals.

SYS - EX MIDI page

SYS-EX #Receive|Unit-No! | MIDI # ON! 17!-----

Receive Exclusive receive switch ON/OFF

This setting turns on/off reception of MIDI data specific to the JV - 1000 (such as Performance or Patch data).

Unit-No Unit number 17—32

When you wish to transmit or receive exclusive messages, set this parameter to match the unit number of the other MIDI device.

Effect parameters

These parameters determine effect unit settings (chorus/reverb) for the currently selected Patch or Performance.

* In Rhythm Play mode, the following operations are not possible.

® EFFECT

In Patch Play mode, these settings modify Patch effect parameters. In Performance Play mode, these settings modify Performance effect parameters.

PATCH Chorate Depth Rev-Lev Time EFFECTS 20 20 100 80

PERFORM

ChoRate Chorus rate 0-127

This parameter sets the modulation speed for the chorus effect.

Depth Chorus depth 0-127

This parameter sets the modulation depth for the chorus effect.

Rev-Lev Reverb level 0-127

This parameter sets the volume of the reverb.

Time Reverb time 0-127

This parameter sets the reverberation time.

st When using chorus/reverb, press CHORUS/REVERB to turn the effect on.

Transmit a Program Change message

Here you can specify a program change message to be transmitted directly.

O PGM CHANGE

TRANSMIT P.C page

Tx - Ch Transmit channel 1-16

This parameter determines the MIDI channel on which Program Change messages will be transmitted.

P.C-No Program change number 001/A11 — 128/B88

Specify the program change that will be transmitted on the Tx - Ch.

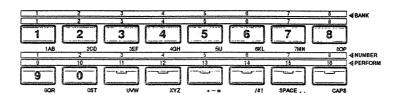
The display will show the number in the format of "program change number / group - bank - number. For example,

The PATCH GROUP / BANK / NUMBER indicators will light to show the selected program change number.

* When the cursor is located at the program change number display, you can directly enter a number from 001 — 128.

The BANK 1 — 8 buttons will enter the numerals 1 — 8, and the NUMBER 1 — 2 buttons will enter the numerals 9 — 0.

Input the desired program change number, and press ENTER to transmit the program change message.



When the cursor is located at the group/bank/number display, you can use the PATCH GROUP / BANK / NUMBER buttons to specify the program change number.

Bnk - MSB/Bnk - LSB Bank select number each 0 — 127

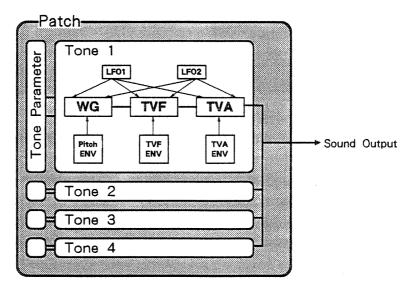
Specify the MSB (control change #0) and LSB (control change #32) of the Bank Select message to be transmitted from the Tx - Ch.

- * The Bank Select message will be transmitted at the same time that the Program Change message is transmitted.
- * For information on the correspondence between the JV 1000's Patch Groups (Media) and Program Change and Bank Select numbers, refer to the "MIDI Implementation" (p.177).

7. Patch Edit mode

What is the Patch Edit mode?

Each Patch is made up of four Tones. Each Tone has various Tone parameters which determine the character of the sound (pitch, frequency spectrum, loudness, and how these factors change). Tone parameters for the four Tones, a Patch name, and effect unit settings used in Patch Play mode are collectively called "Patch parameters". The process of modifying Patch parameter settings is called "Patch editing".

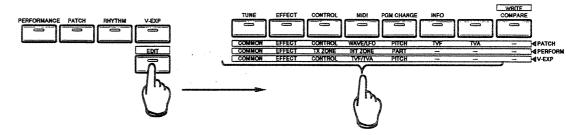


The sound produced by each Tone passes through several stages to create the final result, and function select buttons have been assigned to access the parameters for each of these stages.

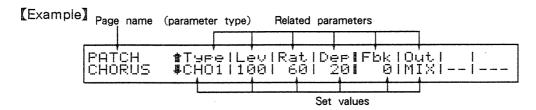
Operation guide

Patch editing procedure

In Patch Play mode, select the Patch you wish to edit. Then press EDIT to enter Patch Edit mode. Then press one of the function select buttons to select the desired Patch parameter.

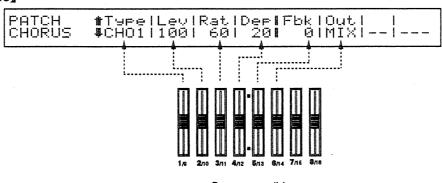


In Patch Edit mode, the following type of pages will appear in the display.



The values from left to right correspond to parameter sliders 1—8. Move the parameter slider (or DEC/INC) corresponding to the parameter you wish to modify (p.13).

[Example]

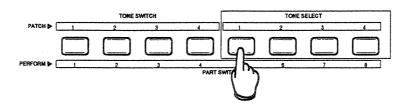


Parameter slider

For pages in which "a" or "a" is displayed, you can use \(\bigs_1 / \bigs_2 \) to select other pages (p.14).

• TONE SELECT

The TONE SELECT buttons are used in Patch Edit mode. For parameters which can be set individually for each Tone (1 - 4), the display will indicate (for example) "1 - - -". This display indicates the number of the Tone which is currently selected. Use the TONE SELECT (1 - 4) buttons to select the Tone to display and edit.



You can also press two or more TONE SELECT buttons simultaneously. The display will indicate the number of the last - selected Tone, and other selected Tones will be indicated by " * ". In this condition, further adjustments you make to a parameter will set the same value for all selected Tones.

Using the assign buttons to select parameters

In Patch Edit mode, you can press the assign buttons to get the following type of pages.

,					
PATCH	亩			TUA	Level
EDIT	#	1271	1271	1271	127

Then you can press an assign button to edit the parameters accessible in Patch Play mode. The screen displays (and operation will be the same as for) Patch Play mode, but the upper left of the screen will read "PATCH EDIT".

About the parameters

Parameters accessed by COMMON

Here you can make settings for parameters that are common to the entire Patch.

PATCH NAME page

You can give a 12 - character name to the Patch you are editing. Use parameter slider 2 or <a> to move the cursor, and use parameter slider 1 or INC/DEC to select a character at the cursor location.

Characters can also be selected using the following buttons. (Characters and symbols are printed in grey on the lower right of the buttons.)

The three characters or symbols will alternate each time you press the button.

CAPS: This button switches between uppercase and lowercase letters. When the indicator is lit, uppercase letters will be selected.

SPACE: This button enters a space.

PATCH COMMON page

This parameter sets the level (volume) of the Patch.

This parameter sets the pan position.

The velocity range setting will be valid when this is ON.

VELOCITY RANGE page

These parameters set the velocity range (lower/upper) for each Tone. Lower range is displayed at left, and the upper range at right. The velocity values surrounded by the lower and upper settings are the Velocity Range. Each Tone will sound only in response to velocities in its specified range.

* It is not possible to set the Lower value above the Upper.

Parameters accessed by EFFECT

These parameters determine the settings of the built - in effects unit when a Patch is selected in Patch Play mode. The effect settings apply to the entire Patch. The effects unit provides a wide range of possibilities, from deepening and enriching the sound, to radical transformations of the tonal character.

* In Performance Play mode, the effects unit will use the settings of the Performance.

FX SEND (effect send) page

1 Dryl Chorus Reverb	
FX SEND # 127 45 80	~ ~~ ~~ ~~ ~~

This parameter sets the level of the dry (unprocessed) sound.

Chorus | Chorus send level 0 - 127

This parameter sets the level of the signal sent to the chorus.

Reverb | Reverb send level 0-127

This parameter sets the level of the signal sent to the reverb.

PATCH CHORUS page

PATCH	t Type Lev Rat Dep Fbk Out
CHORUS	#CH01 100 60 20 0 MIX

Type Chorus type CHO1 —3

This parameter selects the type of chorus effect.

CHO1	A conventional chorus.
CHO2	A chorus with slower rate. You can also apply feedback to use this as a flanger.
СНОЗ	A chorus with greater depth. An effect of extreme detuning can be produced.

Lev Chorus level 0-127

This parameter sets the level of the chorused sound.

Rat Chorus rate 0-127

This parameter sets the modulation speed of the chorus effect.

Dep Chorus depth 0-127

This parameter sets the modulation depth of the chorus effect.

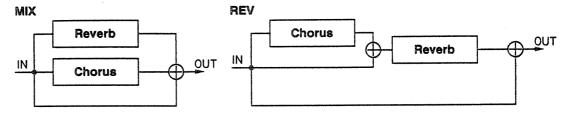
Fbk Chorus feedback 0-127

This parameter sets the level at which sound is fed back into the chorus effect.

* Excessively high settings of Fbk can distort the sound.

Out Output switch MIX/REV

This parameter determines the output destination of the chorused sound. When MIX is selected, the chorus sound and the reverb sound will be mixed with the dry signal. When REV is selected, the chorus sound will be sent through the reverb and then mixed with the dry signal.



PATCH REVERB page

PATCH	曹	Typel	Levell	Timel	F-Back
REVERB	4	ROOM1	1001	601	20

Type Reverb type ROOM1 — 2/STAGE1 — 2/HALL1 — 2/DELAY/PAN - DLY

This parameter selects the type of reverb.

ROOM1	short reverb with dense reverberation			
ROOM2	short reverb with sparse reverberation			
STAGE1	everb with more late reverberation			
STAGE2	reverb with strong early reflections			
HALL1	clear reverb			
HALL2	rich reverb			
DELAY	conventional delay			
PAN - DLY	delay with echoes panned left/right			

Level Reverb level 0-127

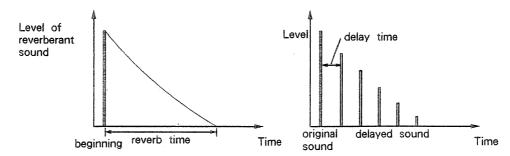
This parameter sets the level of the reverb sound. Higher values will result in a louder level.

Time Reverb time 0-127

If Reverb Type has been set to ROOM1—HALL2, this parameter determines the length of the reverb. If Reverb Type has been set to DELAY/PAN - DLY, this parameter determines the delay time.

when Reverb is selected:

When Delay is selected:



F-Back Delay feedback 0-127

If Reverb Type has been set to DELAY, this parameter determines the level at which the delayed sound will be fed back into the delay.

ANALOG FEEL page

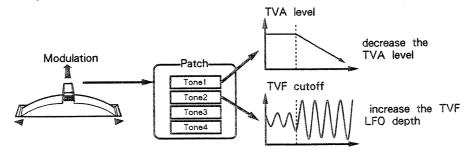
ANALOG FEEL	Depth 10 -	

Depth Depth 0-127

This parameter sets the depth of the Analog Feel effect, which applies "1/f modulation" to level and pitch to give greater "naturalness" to the sound (ie., make it sound less digital). Higher settings will result in more modulation.

Parameters accessed by CONTROL

Here you can make settings for the JV - 1000 keyboard and controllers.



KEY ASGN & BEND RANGE (Key Assign & Bend Range) page

Assign mode POLY/SOLO

This parameter determines whether the Patch will be polyphonic (POLY) or monophonic (SOLO). If POLY is selected you can play chords, and if SOLO is selected, only the last - played note will sound.

Legato Legato ON/OFF

This parameter determines whether the Legato function will be applied (ON) or not (OFF). Even if Legato is ON, it will not function if the Assign Mode is POLY.

Legato: The envelopes and LFO of the previous note continue. This allows you to simulate the hammer - on/pull - off playing technique of a guitarist.

Bender - Range Bender range -48-0 (down) / 0-12 (up)

Bend Range Down determines how far (in semitone steps) the pitch will fall when the bender lever is moved to the left. Bend Range Up determines how far the pitch will rise when the bender lever is moved to the right.

PORTAMEMTO page

PORTA-	-	Switchl	Model	Tupel	Time
MENTO		OFFI	NORMALI	Timel	10

Switch Portamento switch ON/OFF

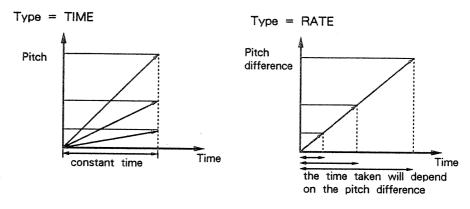
This determines whether portamento will be applied (ON) or not (OFF).

Mode Portamento mode LEGATO/NORMAL

This determines how the portamento effect will be applied. When NORMAL is selected, portamento will always be applied. When LEGATO is selected, portamento will be applied only to notes played in legato style (i.e., when you play a note before releasing the previous note).

Type Portamento time TIME/RATE

This determines the type of the portamento effect. When TIME is selected, the pitch will move to the new pitch over a specific time regardless of how far apart the two pitches are. When RATE is selected, the pitch will move to the new pitch at a specific rate, so that it will take longer to reach a more distant pitch.



Time Portamento time 0-127

This determines the time over which the pitch will move to the new pitch.

Portamento: Portamento is as effect in which the pitch changes smoothly between notes. In Solo mode, it is appropriate to apply Portamento to guitar and wind instrument sounds.

PEDALS page

Volume Volume control switch ON/OFF

This determines whether MIDI Volume messages will be received by the Tone (ON) or not (OFF).

Hold - 1 Hold 1 Control Switch ON/OFF

This parameter determines whether Hold 1 (sustain) messages from HOLD / PEDAL1 / PEDAL2 / C1 slider will (ON) or will not (OFF) affect the Tone.

Re-Damp Re-damp switch ON/OFF

If a Hold 1 message is received after key - off while notes are still sounding, this parameter determines whether the sound at that time will be held (ON) or not (OFF).

- * If Hold 1 is OFF, Re Damp will have no effect even if it is turned ON.
- * The MIDI specification defines control change #7 as volume and control change #64 as Hold 1.

CONTROL page

Modulation Modulation control

You can specify up to 4 Tone parameters to be controlled by modulation messages.

Aftertouch Aftertouch control

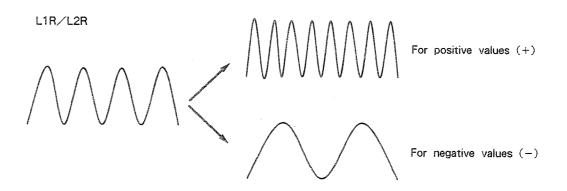
You can specify up to 4 Tone parameters to be controlled by aftertouch.

Expression Expression control

You can specify up to 4 Tone parameters to be controlled by an expression pedal.

The Tone parameters that can be controlled and the ranges of control are given below.

Destinati	on (parameter to be controlled)	Depth	Remarks	
Display	Meaning	(setting range)		
PCH	pitch (semitone)	- 63 — + 63		
CUT	cutoff frequency	- 63 + 63	The parameter will increase (rise) for positive	
RE5	resonance	- 63 — + 63	(+) values, and decrease (fall) for negative (-) values	
LEU	level (volume)	- 63 + 63		
FL1	depth of LFO 1 applied to pitch	- 63 + 63		
PL2	depth of LFO 2 applied to pitch	- 63 — + 63		
FLI	depth of LFO 1 applied to cutoff	- 63 — + 63	Positive (+) and negative (-) values invert the phase of the LFO. In either case, values	
FL2	depth of LFO 2 applied to cutoff	- 63 — + 63	diverging from 0 will have an increasingly	
AL1	depth of LFO 1 applied to volume	- 63 — + 63	greater effect.	
AL2	depth of LFO 2 applied to volume	- 63 + 63		
L1R	rate of LFO 1	- 63 + 63	With positive (+) values the LFO cycle will be	
L2R	rate of LFO 2	- 63 + 63	shortened, and with negative (-) values the cycle will be lengthened. (See diagram	



The MIDI specification defines Expression as control change #11 and Modulation as control change #1. The JV - 1000 transmits Modulation messages when you move the bender/modulation lever away from you. Pedal 1, pedal 2 and the C1 slider will each transmit the MIDI message that has been assigned to them. For details refer to the MIDI implementation chart.

Parameters accessed by WAVE/LFO

These parameters select the waveform (the basic element of sound) and determine the LFO settings.

WAVE page

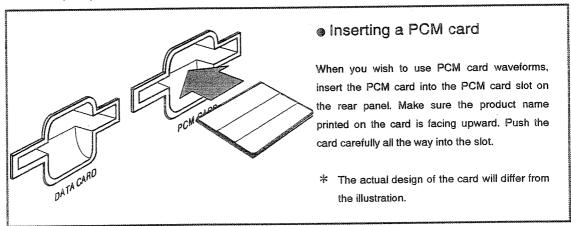
·	 	 			
1 WAVE	Switch/G OM/		 Piano	1)

Switch Tone switch ON/OFF

This parameter determines whether the currently selected Tone will be used (ON) or not used (OFF). Voices will be used only by Tones for which this parameter is turned ON.

Group Wave group INT/EXP/CARD

This parameter determines which memory the waveform will be taken from. The JV - 1000 has 152 waveforms in internal memory (INT). In addition, you can also use waveforms from optional wave expansion boards (EXP) or PCM cards (PCM).



No Wave number

This parameter determines the waveform number.

* The display will show only the memory numbers which can be read.

FXM page

1 FXM	市車	Switch! ON!	

FXM modulates the waveform by a different waveform (i.e., applies cross - modulation) to create a new waveform.

Switch FXM (Frequency X - Modulation) switch ON/OFF

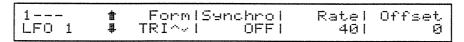
This parameter determines whether FXM (Frequency Cross Modulation) will be used (ON) or not used (OFF).

Depth FXM depth 1—16

This parameter determines the depth of FXM.

LFO 1/2 page

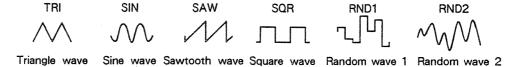
The following four pages contain the settings for LFO 1 and 2. (The parameters are the same for both LFOs.)



1	1 LFO 2	100		Ratel O 201	
---	------------	-----	--	----------------	--

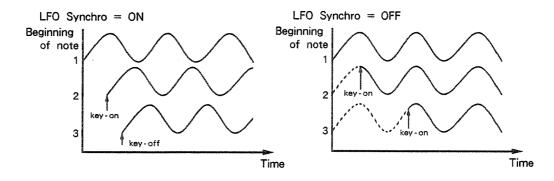
Form LFO waveform TRI/SIN/SAW/SQR/RND1 -2

You can select from the following LFO waveforms: triangle, sine, sawtooth, square, random 1, and random 2.



Synchro LFO synchronization ON/OFF

When this parameter is turned ON, the LFO phase will be synchronized with the key - on timing, so that the phase of each LFO will be independent for each note. When this is turned OFF, the LFO phase will be the same for all sounding Tones.



Rate LFO rate 0-127

This parameter determines the speed of the LFO.

Offset -100/-50/0/+50/+100

This parameter offsets the waveform of the LFO in a positive (+) or negative (-) direction. If a positive (negative) offset is applied to pitch (volume) modulation, the center pitch (volume) of the modulation will be above (below) the normal pitch (volume).

1	由	Delayl	Fadel	Timel
LFO 1		201	IHI	451

1	t Delay	Fadel	Time!
1-1	春だにスーロドドー	1171	201

Delay LFO delay time 0-127/KEY - OFF

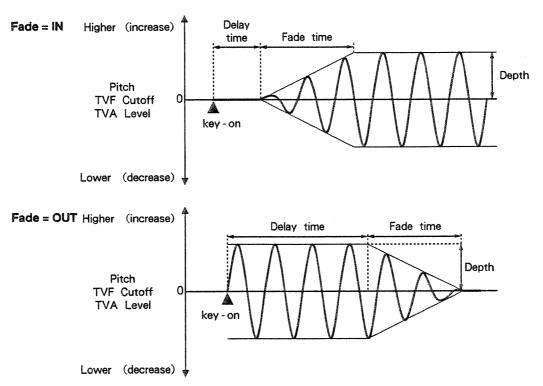
This parameter sets the length of the delay after The tone begins sounding (key - on) until when the LFO begins to take effect. If this parameter is set to KEY - OFF, the LFO will begin to take effect when the key is released (key - off).

Fade LFO fade mode IN/OUT

This parameter determines how the LFO will be applied over time. When IN is selected, the LFO will gradually increase after key - on, according to the LFO fade time parameter (see below). When OUT is selected, the LFO will be applied from key - on until the LFO delay time elapses, and will then gradually diminish in effect according to the LFO fade time.

Time LFO fade time 0-127

This parameter sets the fade in or fade out time of the LFO.



LFO DEPTH page

P1 P2 Pitch LFO 1 depth, Pitch LFO 2 depth -63 --+63

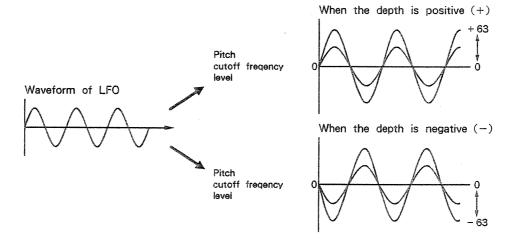
These parameters determine how deeply LFO 1 and 2 will affect the pitch of the Tone.

F1 F2 Filter LFO 1 depth, Filter LFO 2 depth -63-+63

These parameters determine how deeply LFO 1 and 2 will affect the cutoff frequency of the Tone.

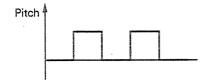
A1 A2 Level LFO 1 depth, Level LFO 2 depth -63-+63

These parameters determine how deeply LFO 1 and 2 will affect the level of the Tone.



The change in pitch or volume will be opposite depending on whether Depth is positive (+) or negative (-). For example, if Depth is set to a positive (+) value for one Tone and to a negative (-) but equal value for another Tone, the two Tones will be modulated with opposite phase. This could be used to cyclically interchange two Tones, or could be used in conjunction with the Pan parameter (explained later) to create cyclic changes in stereo position.

[Example]



Make the following TVA modulation settings for a

Make the following pitch modulation settings for a sustain - type sound.

Waveform : sawtooth
Offset : +100

: -63

Depth

bell.

sustain - type sound.

Level

Waveform : square

Offset: : -100Depth : +15

This will create an effect similar to a repeatedly struck

This will create a chromatic trill.

Parameters accessed by PITCH

These parameters determine the pitch of the Tone.

PITCH page

Crs Pitch shift coarse -48-+48

This parameter shifts the pitch of the Tone in semitome steps.

Fin Pitch shift fine -50-+50

This parameter shifts the pitch of the Tone in steps of one "cent" (1/100 of a semitome step).

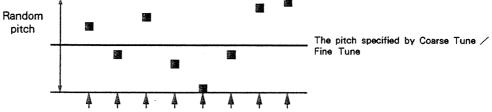
* The pitch will change but the key number of the keyboard will not be affected. This means that the Pitch Coarse/Fine settings will not affect the range settings or the note numbers of the note messages transmitted from MIDI OUT.

.

Rnd Random pitch depth

0/5/10/20/30/40/50/70/100/200/300/400/500/800/800/1200

This parameter randomly shifts the pitch of the Tone. The parameter value is displayed in units of 1/100 of a semitome step.

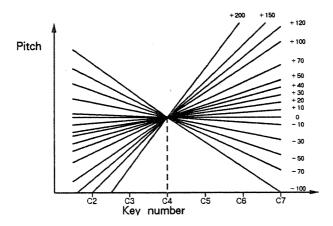


For each note-on, the pitch will randomly vary within the specified range.

P-KF Pitch key follow

-100/-70/-50/-30/-10/0/+10/+20/+30/+40/+50/+70/+100/+120/+150/+200

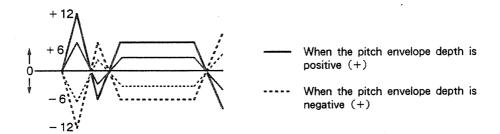
This parameter determines how the pitch of the Tone will change relative to the keyboard position. This setting is relative to the pitch of the C4 key. For positive (+) settings, the pitch will rise as the note number increases (i.e., as you play towards the right of the keyboard), and higher settings will result in a more rapid rise in pitch. For negative (-) settings, the pitch will fall as the note number increases. For standard - pitch keyboard response, the Pitch Key Follow parameter should be set at 100. If Pitch Key Follow is set at 0, all keys will produce the same pitch.



Env Pitch envelope depth -12-+12

This parameter determines how the Tone's pitch will change in response to the the pitch envelope level settings. When this parameter is set to a positive (+) value, the pitch will rise as the pitch envelope levels rise. When this parameter is set to a negative (-) value, the pitch will fall as the pitch envelope levels rise.

* If increasing the envelope levels does not provide enough change, increase the Depth setting.



Vel Velocity envelope level sensitivity -63-+63

This parameter determines how the pitch envelope levels will change in response to velocity.

P-ENV (pitch envelope) page

The parameters of the following 2 pages determine how the pitch will change over time (the pitch envelope).

Velo - T1 Velocity attack time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the T1 parameter of the pitch envelope.

Velo-T4 Velocity release time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the T4 parameter of the pitch envelope.

Time - KF Envelope time key follow

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how keyboard position (key number) will affect the pitch envelope time. At the C4 key the envelope times will be as specified by the envelope settings. With positive (+) settings of the Time - KF parameter, the T2—T4 times will become shorter as the key number increases. With negative (-) settings, the T2—T4 times will become longer. With a setting of 0, keyboard position will not affect pitch envelope times.

These parameters set the pitch envelope times T1, T2, T3 and T4. These determine the time over which the pitch will change to the next pitch (for example, T2 is the time over which the pitch will move from L1 to L2). Higher values will result in longer times.

These parameters set the pitch envelope levels L1, L2, L3 and L4. These determine the pitch (change) at each point. These pitch changes are in relation to the pitch specified by the Pitch Shift and Coarse/Fine parameters. With positive (+) settings, the pitch will be raised. With negative (-) settings, the pitch will be lowered.

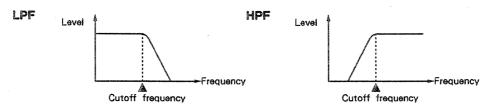
Parameters accessed by TVF

These parameters determine how the TVF will function.

TVF (filter) page

Typ Filter type OFF/LPF/HPF

This parameter selects the TVF type. LPF is a low - pass filter and HPF is a high - pass filter. When OFF is selected the filter will have no effect.



Cut Cutoff frequency 0 — 127

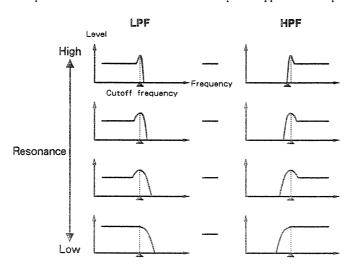
This parameter sets the frequency (cutoff frequency) at which the TVF will begin affecting the spectral content of the waveform.

Filter Type and Cutoff Frequency

The conventional way to use the TVF is to set the Filter Type to LPF and use the TVF to reduce the upper portion of the frequency spectrum. As the cutoff frequency is raised, more of the upper frequencies will be allowed to pass and the sound will become brighter. Conversely, as the cutoff frequency is lowered, the upper frequencies will be cut and the sound will become softer. If the Filter Type is set to HPF, raising the cutoff frequency will increasingly cut the lower frequencies, leaving only the bright portion of the sound.

Res Resonance 0-127

This parameter determines the amount of emphasis applied to the spectral area around the cutoff frequency.



Mode Resonance mode SOFT/HARD

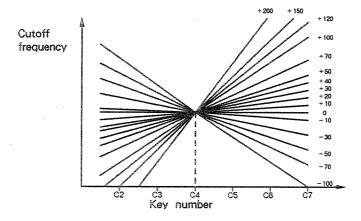
This parameter selects the type of resonance.

* If the Tone is played with a high level or if the cutoff frequency is high, the effect of resonance may be less noticeable.

F-KF Cutoff key follow

-100/-70/-50/-30/-10/0/+10/+20/+30/+40/+50/+70/+100/+120/+150/+200

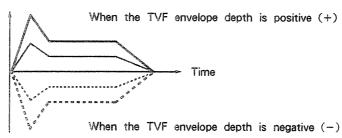
This parameter determines how cutoff frequency will be affected by keyboard position. With a Cutoff Key Follow setting of +100, the cutoff frequency will have the same relation to note pitch for all notes. When this parameter has a positive (+) value, higher note numbers will have an increasingly higher cutoff frequency (relative to the C4 key). As this parameter is increased, the cutoff frequency will rise more quickly. With negative (-) values, higher note numbers will have an increasingly lower cutoff frequency.



Env TVF envelope depth -63-+63

This parameter determines the maximum range over which the TVF envelope will affect the cutoff frequency.

Cutoff frequency



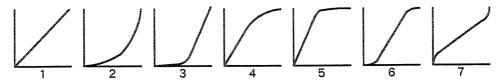
TVF - ENV (TVF envelope) page

The parameters of the following two pages determine how the cutoff frequency will change over time (the TVF envelope).

Crv Velocity curve type 1-7

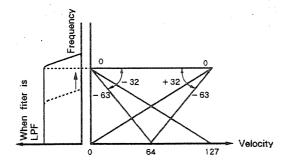
This parameter determines the way in which velocity will affect the cutoff frequency. A graphic indication of the curve shape will be displayed for the selected curve type.

Velocity curves



Vel Velocity envelope level sensitivity -63-+63

This parameter determines how velocity will affect TVF envelope levels.



V-T1 Velocity attack time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the TVF envelope T1 parameter.

V - T4 Velocity release time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how key - off velocity will affect the TVF envelope T4 parameter.

T-KF Envelope time key follow

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how keyboard position (relative to the C4 key) will affect the TVF envelope. With positive (+) settings, T2—T4 times will become shorter as the key number increases. With negative (-) settings, T2—T4 times will become longer as the key number increases.

1--- ***** T1| T2| T3| T4| L1| L2| L3| L4 TUF-ENU ***** 10| 10| 50| 70|127|100| 85| 0

T1 T2 T3 T4 0-127

These parameters set the TVF envelope times T1, T2, T3 and T4.

L1 L2 L3 L4 0—127

These parameters set the TVF envelope levels L1, L2, L3 and L4.

Parameters accessed by TVA

This is where you make TVA settings.

TVA page

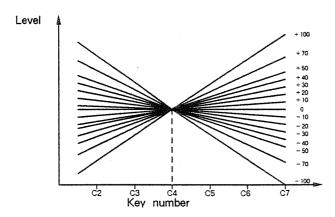
Lev Tone level 0-127

This parameter determines the level of the Tone.

L-KF Level key follow

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

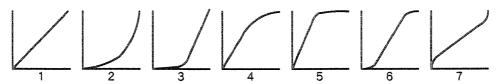
This parameter determines how keyboard position (key number) will affect the Tone level.



Crv Velocity curve type 1-7

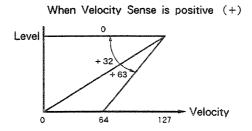
This parameter determines the way in which velocity will affect the level. A graphic indication of the curve shape will be displayed for the selected curve type.

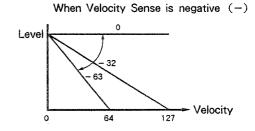
Velocity curves



Vel Velocity level sensitivity -63-+63

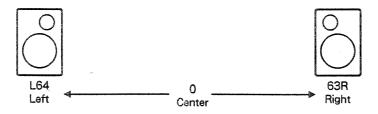
This parameter determines how greatly velocity will affect the level. With positive (+) settings, the level will increase as velocity increases. With negative (-) settings, the level will increase as velocity decreases. It is also possible to give Velocity Level Sensitivity settings of -32 and +32 to different Tones, so that your playing dynamics will shift between two different sounds.





Pan Pan L64-0-63R/RND

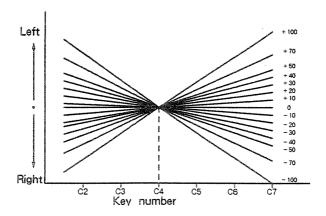
This parameter sets the stereo location of the Tone. A setting of L64 is far left, 0 is center, and 63R is far right. With a setting of RND, the stereo location will change randomly.



P-KF Panning key follow

 $-100/\!\!-70/\!\!-50/\!\!-40/\!\!-30/\!\!-20/\!\!-10/0/\!\!+10/\!\!+20/\!\!+30/\!\!+40/\!\!+50/\!\!+70/\!\!+100$

This parameter determines how keyboard position will affect the stereo location. Relative to the stereo location at the C4 key, positive (+) values will move the stereo location to the right as you play higher notes, and negative (-) values will move the stereo location to the right as you play lower notes. In either case, the movement will be greater as this Panning Key Follow is set further away from a value of 0. With a value of 0, all notes will have the same stereo location.

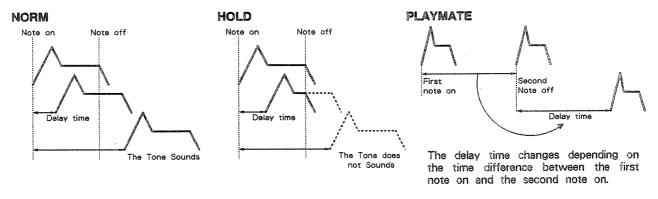


DELAY (tone delay) page

1--- † Model Time! | DELAY #PLAYMATE!KEY-OFF!-----

Mode Tone delay mode NORMAL/HOLD/PLAYMATE

This parameter selects the type of Tone delay. With a setting of NORMAL, Tone delay will still be valid even after the key is released. In contrast, HOLD makes Tone delay valid only while the key is held, so that if you release the key before the delay time elapses, the delayed Tone will not sound. With a setting of PLAYMATE, the delay time will be set equal to the interval between the previous note - on and the most recent note - on (only if this interval is two seconds or less, however).



Time Tone delay time 0 - 127/KEY - OFF

This parameter sets the time delay after key - on until the Tone begins to sound. Higher values will result in a longer delay.

If the Mode parameter has been set to PLAYMATE, a Tone Delay Time setting of 64 will set the delay time to the interval between the previous note - on and the current note - on. A Tone Delay Time setting of 127 will result in a delay approximately twice as long as a setting of 64.

If the Tone Delay Time parameter is set to KEY-OFF, the delayed Tone will begin sounding when the key is released, regardless of the Mode setting. Unlike the delay produced by the effect unit, this method allows the delayed sound to have a different tonal character, or a different pitch so as to create arpeggio effects played by a single key.

Unlike the delay produced by the effect unit, the Tone Delay allows you to change the tonal color of the delayed note, or modify the pitch for each Tone to create arpeggios played by a single key.

TVA - ENV (TVA envelope) page

Velo - T1 Velocity attack time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the TVA envelope T1 parameter.

Velo-T4 Velocity release time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how key - off velocity will affect the TVA envelope T4 parameter.

Time - KF Envelope time key follow

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

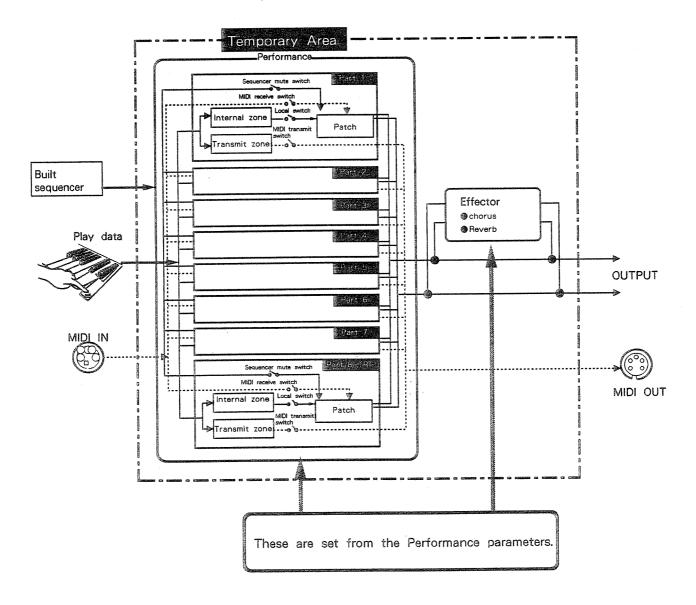
This parameter determines how keyboard position (key number) will affect the TVA envelope. With positive (+) settings, T2—T4 times will become shorter as the key number increases. With negative (-) settings, T2—T4 times will become longer as the key number increases.

These parameters set the TVA envelope times T1, T2, T3 and T4.

These parameters set the TVA envelope levels L1, L2 and L3.

What is the Performance Edit mode?

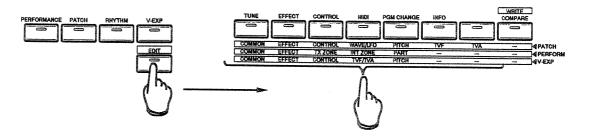
The JV - 1000 allows you to create a "Performance" that assigns seven Patches and one Rhythm Set each to their own "Part", to create an ensemble in which more than one Patch can be played simultaneously. Performance Edit mode is the mode in which you make these settings.



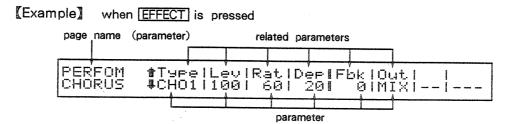
Operation guide

Performance Edit procedure

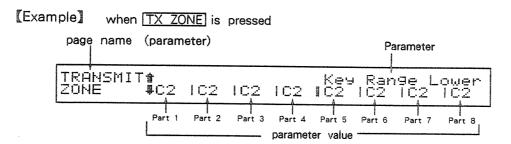
In Performance Play mode, select a Performance and then press EDIT. You will enter Performance Edit mode. Now press one of the function select buttons to select the desired Performance parameter.



When you press COMMON or EFFECT, a display like the following will appear.

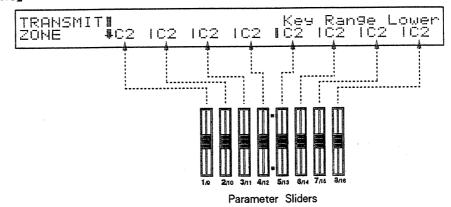


When you press TX ZONE, INT ZONE or PART, a display like the following will appear.



In either case, the values from left to right correspond to parameter sliders 1—8. Use the parameter sliders to modify the desired value.

[Example]



For pages in which " # " or " # " are displayed, you can press] / v to select other pages (p.14).

You can use the PART SWITCH (1—8) buttons to switch various functions for each Part, such as turning MIDI reception/transmission on or off, or specifying whether or not a Part will sound. The function switched on/off by the PART SWITCH buttons will depend on the function select button you press, as follows (p.25).

Function select button	The setting controlled by the PART
COMMON	Receive Switch
EFFECT	Chorus/Reverb Switch
TX ZONE	Transmit Switch
INT ZONE	Local Switch
PART	Receive Switch

* To select the Part that the cursor currently points to when in the Performance mode, hold down ENTER while you press PATCH. Thereafter, you can edit that Part by pressing EDIT. To return to the Performance mode, press PERFORMANCE.

Explanation of parameters

We will explain the parameters in the following order: Common, Transmit Zone, Internal Zone, and Part.

Parameters accessed by COMMON

These parameters are common to all Parts. These settings determine the Performance Name, Key Mode, and Effect (chorus/reverb) settings.

When this button has been pressed, the PART SWITCH (1-8) buttons will act as MIDI Receive switches to turn on/off MIDI message reception for each Part.

PERFORM NAME page

Performance Name space, A - Z, a - z, 1 - 9, 0, + - * / #! , .

You can give a 12 - character name to the Performance being edited. Use parameter slider 2 or [] to move the cursor, and use parameter slider 1 or INC/DEC to select characters. Create the Performance name using the same procedure as when entering a Patch name.

KEY MODE page

KEY	士	ModeIL/Z	Record	
MODE		LAYERI	OH!!	

Mode Key mode LAYER/ZONE/SINGLE

This parameter determines how keyboard data will be handled.

	Use of the performance data	Data transmitted by MIDI
LAYER	The settings of the key range of the internal/transmit zone become invalid; all keyboard performance data is sent to the eight Parts and via MIDI OUT.	When the Performance is changed, program change data, as well as volume data and pan data, which
ZONE	The performance data within the key range set in the internal/tranmit zone is sent to the eight Parts and via MIDI OUT.	are set in the transmit zone, are transmitted.
SINGLE	The settings of the internal/transmit zone are ignored, and only the Part at the cursor position can be controlled. Playing the keyboard sounds the Patch of the Part at the cursor position.	 The receiving channel numbers which are assigned to the Parts are also used for the transmission channels. When the Patch is changed, bank select and program change messages, which correspond to the Patch number, are transmitted. When the Performance is changed.
		When the Performance is changed, bank select and program change messages, which correspond to the Patch number that is assigned to the Part, are transmitted.

L/Z Record Layer/zone recording switch ON/OFF

When this switch is ON, musical data from the keyboard will be sent both to the internal sound source and to the internal sequencer (low speed mode). When this switch is OFF, the data will be sent only to the internal sound source (high speed mode).

When you are playing a Performance in Layer mode or Zone mode, the increased amount of musical data may be more than the system can handle, and errors may occur in the operation of the sound source. If this occurs, set the Layer/Zone Recording Switch OFF. (When power is turned on, this parameter will be ON.)

- * If this switch is OFF, a Zone/Layer Performance cannot be recorded. When you wish to record, turn it ON.
- * When the Key Mode is Single, this setting has no effect, and recording will always be possible.

Parameters accessed by EFFECT

These parameters are the chorus and reverb settings. Chorus and reverb can be used to give depth or spacious stereo width to the sound.

The settings of the built - in effect unit will apply to all Parts. The effect depth for each Part is determined by the Patch parameter Send Level, but the Patch parameter effect settings for use in Patch Play mode will be ignored.

PERFORM CHORUS page

When this page is selected, the PART SWITCH (1-8) buttons will turn on/off the chorus for each Part.

PERFORM #Type|Lev|Rat|Dep|Fbk|Out| | CHORUS #CHO1|100| 60| 20| 0|MIX|--|---

Type Chorus type CHO1-3

This parameter selects the type of chorus effect.

СНО1	A conventional chorus.				
CHO2	A chorus with slower rate. You can also apply feedback to use this as a flanger.				
СНОЗ	A chorus with greater depth. An effect of extreme detuning can be produced.				

Lev Chorus level 0-127

This parameter sets the level of the chorused sound.

Rat Chorus rate 0-127

This parameter sets the modulation speed of the chorus.

Dep Chorus depth 0-127

This parameter sets the depth of the chorus.

Fbk Chorus feedback 0-127

This parameter sets the level at which the chorused sound will be fed back into the chorus effect.

Out Output switch MIX/REV

This parameter specifies the output destination of the chorus sound. When MIX is selected, the chorus sound and the reverb sound will be mixed with the dry signal. When REV is selected, the chorus sound will be sent through the reverb, and then mixed with the dry signal.

PERFORM REVERB page

When this page is selected, the PART SWITCH (1 — 8) buttons will turn on/off the reverb for each Part.

PERFORM	1	Typel	Levell	Timel	F-Back
REVERB		ROOM11	100	601	20

Type Reverb type ROOM1 — 2/STAGE1 — 2/HALL1 — 2/DELAY/PAN - DLY

This parameter selects the reverb type.

ROOM1	short reverb with dense reverberation			
ROOM2	short reverb with sparse reverberation			
STAGE1	reverb with more late reverberation			
STAGE2	reverb with strong early reflections			
HALL1	clear reverb			
HALL2	rich reverb			
DELAY	conventional delay			
PAN - DLY	delay with echoes panned left/right			

Level Reverb level 0-127

This parameter sets the level of the reverb sound.

Time Reverb time 0-127

If the Reverb Type has been set to ROOM1—HALL2, this parameter sets the length of the reverberation. If the Reverb Type has been set to DELAY/PAN - DELAY, this parameter sets the delay time.

F-Back Delay feedback 0-127

If the Reverb Type has been set to DELAY, this parameter sets the level at which the delayed sound will be fed back into the delay. This can be used to create echo effects that repeat two or more times.

Parameters accessed by TX ZONE

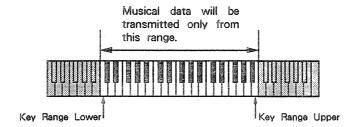
When this button has been pressed, the PART SWITCH (1—8) buttons will act as MIDI Transmit Switches to turn on/off MIDI transmission.

Kye Range Lower/Upper page

Key Range Lower Key range lower C-1 — G9

Key Range Upper Key range upper C-1 — G9

The parameters of these two pages determine the lower and upper limits of the key range of the Transmit Zone for each part. Musical data from the keyboard will be transmitted only for notes within the specified key range.



- * For the Key Range settings to have an effect, the Key Mode (p.73) must be set to ZONE.
- * It is not possible to set the Key Range Lower parameter above the Key Range Upper parameter.
- * The Key Range setting is specified as a range of keys on the JV 1000 keyboard itself, and is not affected by parameters such as Transpose, or parameters which affect the pitch of the sound. Thus, whether or not a note is in a certain Key Range depends on the physical location of the note which you press, and not on the pitch that is produced.

Transpose page

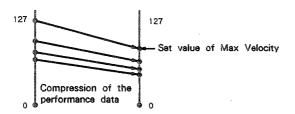
This parameter determines how notes from the keyboard will be transposed by the Transmit Zone for each Part before being transmitted from MIDI OUT.

The parameters of these three pages determine how velocity from the JV - 1000's keyboard will be processed by the Transmit Zone of each Part.

Max Velocity page

Max Velocity Max velocity 0-127

Velocity will be limited to the Max Velocity.



Velocity Sense page

Velocity Sense Velocity sensitivity -63 -+63

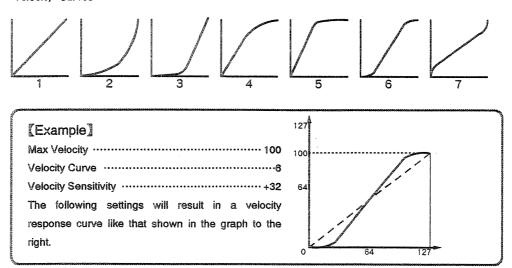
Velocity Sensitivity will determine how playing dynamics affect the resulting velocity value. For positive (+) values of sensitivity, velocity will increase more rapidly as you play more strongly. For negative (-) values of sensitivity, velocity will increase more gradually as you play more strongly. In either case, the effect will be more pronounced as the parameter value is modified away from 0.

Velocity Curve page

Velocity Curve Velocity curve 1-7

In this case, the dynamics of the original velocity will be adjusted by the Velocity Curve. A graphic indication of the curve shape for the edited part will be shown in the upper right corner of the display.

Velocity Curves



Transmit Channal page

Transmit Channel Transmit channel 1-18

This parameter sets the MIDI transmit channel for the Transmit Zone of each Part.

However, if the Key Mode is set to SINGLE (p.73), the transmit channel will be the same as the receive channel of the Part, and the settings in this page will be ignored.

Transmit Program Change page

TRANSMIT**:** Transmit Program Change P1=001 ZONE #A11|A12|A13|A14|A15|A16|A17|A18

Transmit Program Change Transmit program change A11—A88/B11—B88/OFF

This parameter specifies the Program Change number that will be transmitted by the Transmit Zone for each Part. The program change number of the edited Part is shown in the upper right corner of the display. If this parameter is set OFF, a Program Change message will not be transmitted.

* In the Edit mode, a Program Change message willnot be transmitted. The specified program change message will be transmitted when the performance is selected.

Transmit Volume page

TRANSMIT**t** Transmit Volume ZONE **#**127|127|100|100| 85| 85|127|127

Transmit Volume | Transmit volume 0-127/OFF

This parameter specifies the Volume message that will be transmitted by the Transmit Zone for each Part. The maximum volume is 127. If this parameter is set OFF, a Volume message will not be transmitted.

* The specified volume message will be transmitted when the Performance is selected.

Transmit Pan page

TRANSMIT**:** Transmit Pan ZONE **!** 0 | 0 |L64|L32| 0 |32R|L64| 0

Transmit Pan Transmit pan L64-0-63R/OFF

This parameter specifies the Pan message that will be transmitted by the Transmit Zone for each Part. A value of L64 is far left, 0 is center, and 63R is far right. If this parameter is set OFF, a Pan message will not be transmitted.

* The specified Pan message will be transmitted when the Performance is selected.

Transmit Switch page

TRANSMIT**a** Transmit Switch ZONE **1** ON! ON!OFF!OFF! ON! ON!OFF

Transmit Switch MIDI transmit switch ON/OFF

This parameter determines whether data will be transmitted (ON) or will not be transmitted (OFF) to MIDI OUT by the Transmit Zone for each Part. If this parameter is set OFF, the Program Change, Volume and Pan messages will not be transmitted when the Performance is selected.

- * If you use the TX or PART SWITCH buttons to turn on/off the MIDI transmit switches, the settings of this page will also change automatically.
- When the Key Mode is SINGLE (p.73) these settings will have no effect.

Parameters accessed by INT ZONE

These parameters determine how musical data from the JV - 1000 keyboard will be processed by each Internal Zone and sent to each Part.

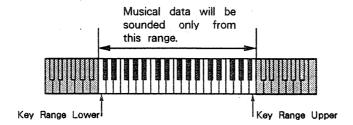
When this button has been pressed, the PART SWITCH (1 — 8) buttons will act as Local switches to turn on/off reception of data from the JV - 1000 keyboard for each Part.

Key Range Lower/Upper page

Key Range Lower Key range lower C-1-G9

Key Range Upper Key range upper C-1—G9

The parameters of these two pages determine the lower and upper limits of the key range for the Internal Zone of each Part. Musical data from the keyboard will be sent to each Part only for notes within the specified key range.



- * For the Key Range settings to have an effect, the Key Mode (p.73) must be set to ZONE.
- * It is not possible to set the Key Range Lower parameter above the Key Range Upper parameter.
- * Some commercially available ROM DATA cards contain Zone mode Performances in which the key range has been set as C2 to C7, so that notes outside this range will not sound. In such cases, copy the Performance to user memory and modify the key range.
- * Some commercially available ROM DATA cards contain Zone mode Performances in which the key range has been set as C2 to C7, so that notes outside this range will not sound. In such cases, copy the Performance to user memory and modify the key range.

Transpose page

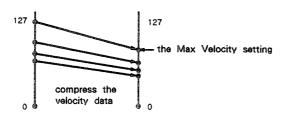
This parameter determines how notes from the keyboard will be transposed by the Internal Zone for each Part before being sent to the Patch.

Max Velocity/Sense/Curve page

The parameters of these three pages determine how the Internal Zone will process velocities from the JV - 1000 keyboard.

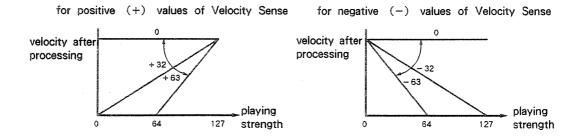
Max Velocity Max velocity 0-127

Velocity will be restricted to the value of the Max Velocity.



Velocity Sense Velocity sensitivity -63-63

Velocity Sensitivity will determine how playing dynamics affect the resulting velocity value.

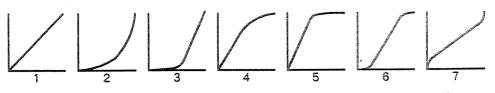


INTERMAL®			Vel	ocit	y Cu	rve	P1=2	
ZONE #	31	31	31	31	31	31	31	3

Velocity Curve Velocity curve 1-7

The dynamics of the original velocity will be adjusted by the Velocity Curve. A graphic indication of the curve shape for the edited Part will be shown in the upper right corner of the display.





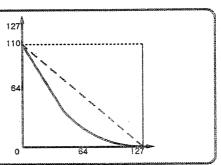


Max Velocity ·····110

Velocity Curve ·····4

Velocity Sensitivity-32

The following settings will result in a velocity response curve like that shown in the graph to the right.



Local Switch page

Local Switch Local switch ON/OFF

This parameter determines whether or not the Internal Zone for each Part will send musical data to the Patch. When this is set OFF, musical data will not be sent to the Patch. Parts which are turned OFF will not send musical data to the on - board sequencer.

- * If you use the TX/RX and PART SWITCH buttons to turn the Local switch on/off, the settings of this page will also change automatically.
- * If the Key Mode is SINGLE (p.73), the Internal Zone settings are ignored.

Parameters accessed by PART

When this button has been pressed, the PART SWITCH (1-8) buttons will act as MIDI Receive switches to turn MIDI reception on/off for each Part.

Patch Select page

Patch Select Patch select

This parameter specifies the Patch assigned to each Part (the Rhythm Set in the case of Part 8).

* If a PCM card has not been inserted or a Wave Expansion Board has not been installed, you will not be able to select PCM CARD or W - EXP Patch groups.

Level page

Level Part level 0-127

This parameter sets the level of each Part (relative to the value of the Patch parameter Level). If you do not need to adjust the volume balance between Parts, it is best to set this to the maximum value (127).

* When you adjust Part Level, set the Internal Level (p.27) to 127 for all Parts.

Pan page

This parameter sets the stereo position of each Part.

* When you adjust Part Pan, set the Internal Pan (p.27) to 0 for all Parts.

Coarse Tune/Fine Tune page

Coarse Tune Coarse tune -48-+48

Fine Tune Fine tune -50-+50

The parameters of these two pages determine the pitch of the Patch assigned to each Part. Coarse Tune adjusts the pitch in semitones. Fine Tune adjusts the pitch in steps of 1/100 of a semitone.

* These pitch adjustments are relative to the pitch of the Patch itself. The pitch that actually results will also depend on the Patch parameters.

Receive Channel page

Receive Channel Receive channel 1-16

This parameter sets the receive channel for each Part.

- * If you set this parameter to the same channel as the System Common parameter Control Channel (p.38), the control channel setting will take priority so that when a Program Change message is received a Performance will be selected.
- * Musical data from the keyboard will be recorded in the on board sequencer as data of the Receive Channel for each Part.

Voice Reserve page

Voice Reserve | Voice reserve 0-28

This parameter determines the number of voices that will be reserved for each Part. Since each note played by a Patch will require as many voices as the Patch has Tones, you should set this parameter to the number of notes you wish to reserve, multiplied by the number of Tones used by the Patch. It is not possible to make Voice Reserve settings that would total more than 28 for all Parts.

Chorus Switch page

PART 🛊 Chorus Switch PARAM 📭 ON! ON!OFF!OFF!OFF!ON

Chorus Switch Chorus switch ON/OFF

This parameter determines whether the signal will be sent to the chorus (ON) or not (OFF).

Reverb Switch page

PART # Reverb Switch
PARAM # ON! ON!OFF!OFF!OFF!ON

Reverb Switch Reverb switch ON/OFF

This parameter determines whether the signal will be sent to the reverb (ON) or not (OFF).

Receive Program Change page

PART 🐞 Receive Program Change PARAM 🗣OFFIOFFI ONI ONI ONI ONIOFF

Receive Program Change Program change receive switch ON/OFF

This parameter determines whether each Part will receive Program Change messages (ON) or not (OFF).

Receive Volume page

PART : Receive Volume
PARAM #OFFIOFF! ON! ON! ON! ON!OFF!OFF

Receive Volume Volume receive switch ON/OFF

This parameter determines whether each Part will receive Volume messages (ON) or not (OFF).

Receive Hold - 1 page

PART † Receive Hold-1 PARAM #OFFIOFFI ONI ONI ONI ONIOFF

Receive Hold - 1 Hold 1 receive switch ON/OFF

This parameter determines whether each Part will receive Hold 1 messages (ON) or not (OFF).

Receive Switch page

r					
PART	- t it-			Receive	Switchl
	124				
PARAM	#OFF LOFF L	пыт	OBL	ONI ONI	ONIOFFI
l LHEHU	#UFF FULL	111	wii i	Q111 Q111	

Receive Switch MIDI receive switch ON/OFF

This parameter determines whether each Part will receive MIDI data (ON) or not (OFF).

* If you use the RX or PART SWITCH buttons to turn the MIDI Receive Switch on/off, the settings in this page will also change automatically.

9. Rhythm Edit mode

This section explains how to edit a Rhythm Tone, and the role of each parameter.

l What is a Rhythm Edit mode?

In Rhythm Edit mode you can edit the rhythm sounds (rhythm instruments) assigned to a Rhythm Set.

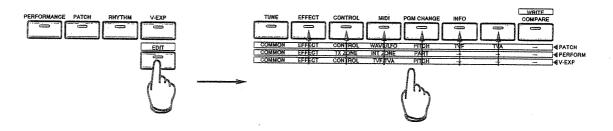
Each rhythm instrument is assigned to a key, and a set of instruments for each key is stored as a Rhythm Set. One Rhythm Set can be stored in internal memory (INT), and another can be stored in a DATA card (CARD).

- * In Rhythm mode, the effect unit will use the settings of the Performance which is currently in the temporary area.
- * Page 164 lists the Rhythm Tones assigned to each key at the factory.

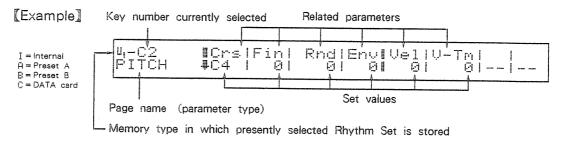
Procedure

Rhythm editing procedure

(1) Press RHYTHM and you will enter Rhythm Play mode. The Rhythm Set selected for Part 8 of the current Performance will be selected. If you wish to edit another Rhythm Set, use the PATCH GROUP SWITCH to select the memory of the desired Rhythm Set.

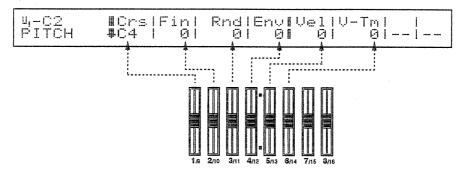


- (2) Press EDIT to enter Rhythm Edit mode.
- (3) In Rhythm Edit mode, pages like the following will be displayed.



The values from the left correspond to parameter sliders 1—8. Move the appropriate parameter slider to modify the desired value.

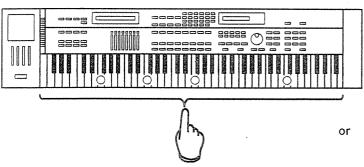
[Example]



Parameter sliders

For pages in which " # " or " # " are displayed, you can press A / V to select other pages.

(4) The upper left of the display will show a symbol indicating the memory of the Rhythm Set of the currently selected Rhythm Tone, and the key number to which the Rhythm Tone is assigned. To select a Rhythm Tone to edit, you can either press the key to which that Rhythm Tone is assigned, or press TONE SELECT 1—4. The key number display will change to indicate the selected key.



To select the Rhythm Tone you wish to edit, press the key to which it is assigned.

TONE SELECT 1

Each time you press this button, the currently displayed key number will go down one octave.

TONE SELECT 2

Each time you press this button, the key number will go down a semitone.

TONE SELECT 3

Each time you press this button, the key number will go up a semitone.

TONE SELECT 4

Each time you press this button, the currently displayed key number will go up one octave.

* Rhythm Tones can only be assigned to the C2 through C7 range on the keyboard. The Rhythm Tone cannot be switched if you press any other keys.

Explanation of parameters

Here we will explain the parameters you can set in Rhythm Tone Edit mode, and how to use the buttons,

Parameters accessed by EFFECT

FX SEND (effect send) page

Dry Dry level 0-127

This parameter sets the level of the dry sound (not processed by the effect).

Chorus Chorus send level 0-127

This parameter sets the level of the sound sent to the chorus.

Reverb | Reverb send level 0-127

This parameter sets the level of the sound sent to the reverb.

PERFORM CHORUS/REVERB (Performance chorus/reverb) page

The following two pages contain parameters for chorus and reverb. Be aware that these are Performance parameters which have been read into the temporary area. This means that effect unit settings you make here for a Rhythm Set need to be stored as Performance data. However, if this Rhythm Set is selected from a different Performance, the effect settings of that Performance will be used.

Type Chorus type CHO1 — 3

This parameter selects the type of chorus effect.

CHO1	A conventional chorus.
CHO2	A chorus with slower rate. You can also apply feedback to use this as a flanger.
СНОЗ	A chorus with greater depth. An effect of extreme detuning can be produced.

Lev Chorus level 0-127

This parameter sets the level of the chorused sound.

Rat Chorus rate 0-127

This parameter sets the modulation speed of the chorus.

Dep Chorus depth 0-127

This parameter sets the modulation depth of the chorus.

Fbk Chorus feedback 0-127

This parameter sets the level of the chorused sound that is fed back into the chorus. This allows more complex chorus effects to be produced.

Out Output switch MIX/REV

This parameter specifies the output destination of the chorus. When MIX is selected, the chorus sound and reverb sound will be mixed with the dry sound. When REV is selected, the chorus sound will be sent through the reverb and then mixed with the dry sound.

PERFORM	#	Typel	Levell	Timel	F-Back
REVERB		ROOM11	100	60 I	20

Type Reverb type ROOM1 — 2/STAGE1 — 2/HALL1 — 2/DELAY/PAN - DRY

This parameter selects the type of reverb.

ROOM1	short reverb with dense reverberation			
ROOM2	short reverb with sparse reverberation			
STAGE1	reverb with more late reverberation			
STAGE2	reverb with strong early reflections			
HALL1	clear reverb			
HALL2	rich reverb			
DELAY	conventional delay			
PAN - DLY	delay with echoes panned left/right			

Level Reverb level 0-127

This parameter sets the level of the reverb sound.

Time Reverb time 0-127

If the Reverb Type has been set to ROOM1 — HALL2, this parameter sets the length of reverberation. If the Reverb Type has been set to DELAY/PAN - DLY, this parameter sets the delay time.

F-Back Delay feedback 0-127

If the Reverb Type has been set to DELAY, this parameter sets the level of the delayed sound that is fed back into the delay.

Parameters accessed by CONTROL

CONTROL page

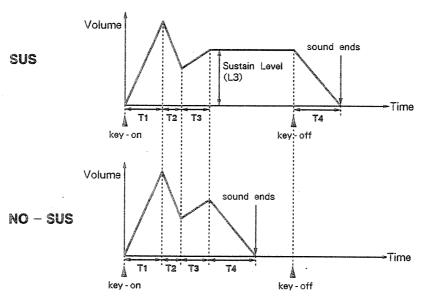
UI-C2	# Benc	Jer IE	nv-ModelMu	te-Grel
CONTROL		21	NO-SUSI	

Bender Bendrange 0-12

This parameter determines the range of pitch change that results when the bender/modulation lever is moved to right or left.

Env - Mode Envelope mode NO - sus/sus

This parameter determines how the Rhythm Tone will be sounded. When NO - SUS is selected, the time between the sustain level (L3) and the key - off will be ignored, and the decay will begin immediately. This means that the sound will always end after the same length of time (T1+T2+T3+T4). When SUS is selected, the sustain level will be maintained until key - off. This allows you to use key - off to mute the Rhythm Tone.



Mute-Grp Mute group OFF/1 — 31

This parameter assigns the Rhythm Tone to a Mute Group. When a Rhythm Tone is sounded, any other currently sounding Rhythm Tone in the same mute group will be muted. 31 separate mute groups can be used. When OFF is selected, that Rhythm Tone will not mute any other Rhythm Tone, nor will it be muted by any other Rhythm Tone.

Parameters accessed by WAVE/LFO

WAVE page

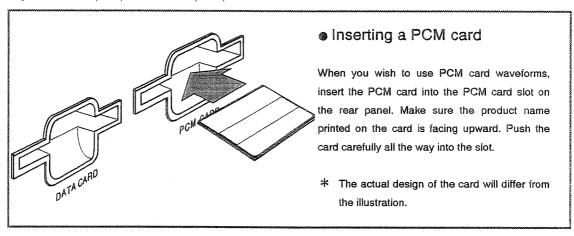
I	 				
HT-02	SwitchIG	irouel	No	ł	Į.
	man, and, and and, and a little and				i
I WAVE	ONI	IHTI	87(LA	Snare)

Switch Tone switch ON/OFF

This parameter specifies whether the currently selected Rhythm Tone will be sounded (ON) or not (OFF).

Group Wave group INT/EXP/CARD

In the same way as for a standard Tone, you can select the waveform that will be the basis of the Rhythm Tone. The Wave Group parameter specifies the memory from which the waveform will be read: Internal (INT), Wave Expansion Board (EXP) or PCM card (PCM).



No Wave number

This parameter specifies a waveform from the selected wave group. The wave name of the selected number will be displayed in parentheses ().

Parameters accessed by PITCH

PITCH page

This parameter selects the key pitch within the waveform to be sounded.

* Some waveforms have an upper pitch limit. If you set Pitch Coarse above this limit, the waveform will sound at its upper pitch limit.

This parameter adjusts the pitch of the Rhythm Tone in steps of 1/100 of a semitone.

Rnd Random pitch depth

0/5/10/20/30/40/50/70/100/200/300/400/500/600/800/1200

This parameter adds random variation to the pitch of the Rhythm Tone within the specified range. The setting value is in units of 1/100 of a semitone.

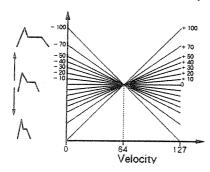
This parameter determines the maximum pitch change produced by the pitch envelope.

This parameter determines how velocity will affect the pitch envelope levels.

V-Tm Velocity envelope time sensitivity

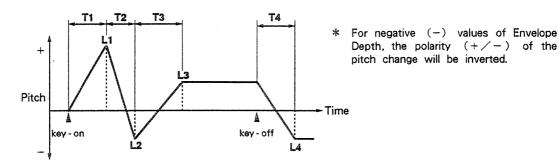
-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the overall pitch envelope time.



P-ENV (pitch envelope) page

UI-C2	-dh-	Til	TOL	TTI	TAL	1 1 1	1 🗇 1	L31 L4
P-ENU		5	iāl	301	801	+631.	-161	01+10



These parameters set the pitch envelope times T1, T2, T3 and T4. These determine the time over which one pitch will change to the next (for example, from L1 to L2).

These parameters set the pitch envelope levels L1, L2, L3 and L4. These determine the pitch (change) at each point.

of the

Parameters accessed by TVF

These parameters determine how the TVF will function.

TVF page

TVF

Typ Filter type LPF/HPF/OFF

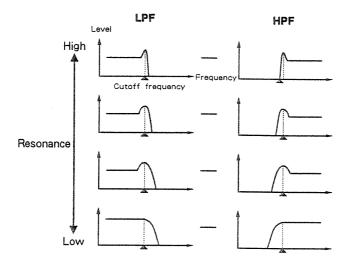
This parameter selects the TVF type. LPF is a low - pass filter and HPF is a high - pass filter. When OFF is selected the filter will have no effect.

Cut Cutoff frequency 0-127

This parameter sets the frequency (cutoff frequency) at which the TVF will begin affecting the frequencies of the waveform.

Res Resonance 0-127

This parameter determines the amount of emphasis applied to the frequencies around the cutoff frequency.



Mode Resonance mode SOFT/HARD

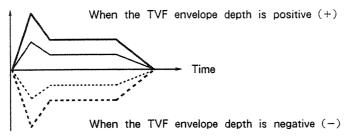
This parameter selects the type of resonance. When SOFT is selected the resonance will be soft, and when HARD is selected, the resonance will be sharp.

* If the Tone is played with a high level, or if the cutoff frequency is high, the effect of resonance may be less noticeable.

Env TVF envelope depth -83-+63

This parameter determines the maximum range over which the TVF envelope will affect the cutoff frequency.

Cutoff frequency



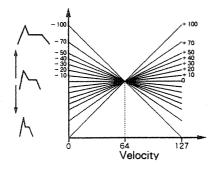
Vel Velocity envelope level sensitivity -63-+63

This parameter determines how velocity will affect TVF envelope levels.

V-Tm Velocity time sensitivity

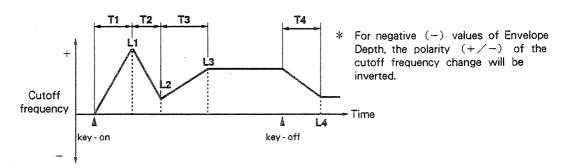
-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the overall TVF envelope times.



TVF - ENV (TVF envelope) page

The parameters in this page determine how the cutoff frequency will change over time (TVF envelope).



T1 T2 T3 T4 0—127

These parameters set the TVF envelope times T1, T2, T3 and T4. These will determine the time over which the cutoff frequency will move from one level to the next (for example from L1 to L2).

L1 L2 L3 L4 0—127

These parameters set the TVF envelope levels L1, L2, L3 and L4. These will determine the cutoff frequency at each point. The values you set here are adjusted by the TVF Envelope Depth parameter before they are applied to the cutoff frequency.

Parameters accessed by TVA

These parameters determine how the TVA will function.

TVA page

Level Tone level 0-127

This parameter determines the level of the Rhythm Tone.

Velo Velocity level sensitivity _63—+63/HPF/OFF

This parameter determines how greatly velocity will affect the level.

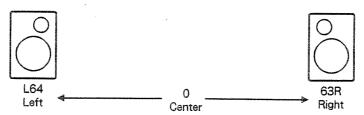
V-Time Velocity time sensitivity

-100/-70/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+70/+100

This parameter determines how velocity will affect the overall time of the TVA envelope.

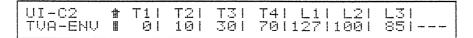
Pan Pan L64-0-63R/RND

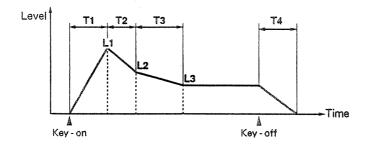
This parameter determines the stereo position of the Rhythm Tone. With a setting of RND, the stereo position will change randomly.



TVA - ENV page

This page contains parameters which determine how the level will change over time (TVA envelope).





These parameters set the TVA envelope times T1, T2, T3 and T4. These will determine the time over which the volume will change from one level to the next (for example from L1 to L2)

These parameters set the TVA envelope levels L1, L2 and L3. These will determine the volume at each point. Higher levels result in higher levels. For the TVA envelope, the envelope level following key - off will be 0.

10. Commands

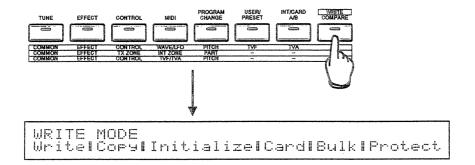
Write mode

Write mode is the mode in which you perform data management operations such as writing edited data into memory, or copying or transmitting data.

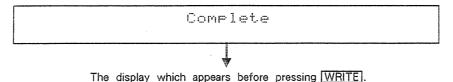
* Data management operations are called "commands", and to use a command to perform an operation is to "execute" the command.

Operation guide

(1) In Patch Play mode or any other mode, press WRITE. You will enter Write mode and the following will appear in the display of the synthesizer sound source section.



- (2) Use or parameter slider 1 to select the command you wish to execute. The selected command will blink.
- (3) Press ENTER and the command setting display will appear.
- (4) When you are expected to execute the command, the synthesizer sound source display will read [Press ENTER]. After you finish making all necessary settings, press ENTER to execute the command. When complete, the following displai will uppear.



The display will show "Complete", and you will then be returned to the display (mode) before you pressed WRITE and the mode before you entered command mode.

- * If you wish to quit without executing, press EXIT. Each time you press the button you will return to the immediately previous display.
- * If " \pm " or " \mp " appears in the command setting display, you can use $\boxed{\underline{\mathbb{A}}}/\boxed{\overline{\mathbb{Y}}}$ to select other displays.

The settings for step (4) will be explained in the sections covering each command.

Write

The Write command writes edited data into user memory (such as internal memory or a DATA card). The display that appears will depend on the mode from which you pressed WRITE.

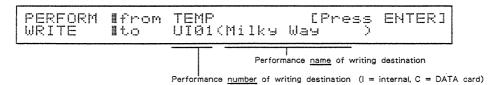
- * When writing data into internal user memory, protect (p.111) must be turned off. If you attempt to write data while protect is on, a warning message will appear, and then the protect on/off setting display will appear. Use of the word "Internal" to blink, and then press DEC to turn protect off.
- * When writing data into a DATA card, turn the protect switch of the DATA card off while it is inserted into the DATA card slot. After writing the data, turn the protect switch on to protect the data.



Performance Play/Performance Edit Mode → Write

PERFORM WRITE Perform write

By pressing WRITE from Performance Play mode or Performance Edit mode, you can write the data of the temporary area into a Performance.



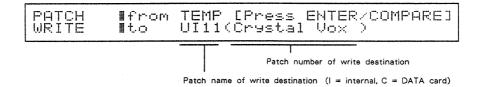
[Procedure]

Use the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1) to select the Performance number into which you wish to write the data. The name of the selected Performance will be displayed in parentheses ().

Patch Play/Patch Edit Mode → Write

PATCH WRITE Patch write

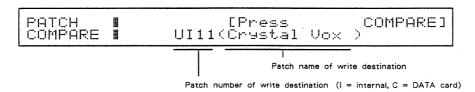
By pressing WRITE from Patch Play mode or Patch Edit mode, you can write the data of the temporary area into a Patch.



[Procedure]

Use the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1) to select the Performance number into which you wish to write the data. The name of the selected Patch will be displayed in parentheses ().

Next, press WRITE (COMPARE) and the Patch Compare display will appear, allowing you to check the sound of the writing destination Patch.

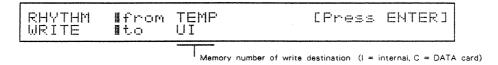


In this display you can still change Patch numbers. After checking the sound of the Patch to make sure of the writing destination, press WRITE (COMPARE). (You will return to the Patch Write display.)

Rhythm Play/Rhythm Edit Mode → Write

RHYTHM WRITE Rhythm set write

By pressing WRITE from Rhythm Play mode or Rhythm Edit mode, you can write the data of the temporary area into a Rhythm Set.



[Procedure]

Use the Patch group switches (or INC/DEC, BANK/NUMBER, and parameter slider 1) to select the Rhythm Set into which you wish to write the data.

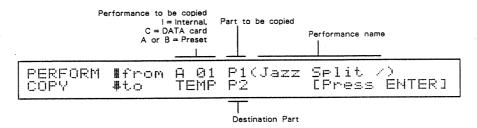
Copy

These commands copy Performance, Patch, or Tone data into the temporary area.

Performance Play/Performance Edit Mode → Copy

Performance part copy

This command copies a specified Part of a Performance into a Part of the Performance in the temporary area.



[Procedure]

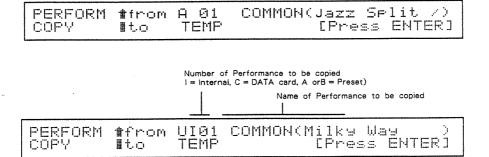
Use the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1) to select the Performance number from which you wish to copy the data. The name of the selected Performance will be displayed in parentheses ().

Select the Part from which you wish to copy using parameter slider 2, or use / b to move the cursor and INC/DEC to make the selection.

Use PART SWITCH (1 - 8) to select the copy destination part.

Performance common copy

This command copies the Performance name, key mode, and effect unit settings from a selected Performance in memory into the Performance in the temporary area.



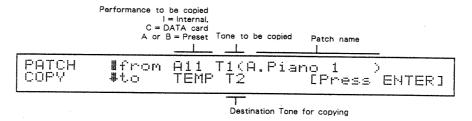
[Procedure]

Select the copy source Performance number using the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1). The name of the selected Performance will be displayed in parentheses ().

Patch Play/Patch Edit Mode → Copy

Patch tone copy

This command copies data from a selected Tone of a Patch into the specified Tone of the Patch in the temporary area.



[Procedure]

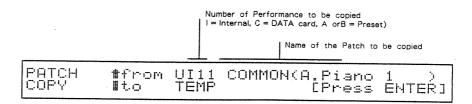
Select the copy source Patch number using the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1). The name of the selected Patch will be displayed in parentheses ().

Select the copy source Tone using parameter slider 2, or use / b to move the cursor and use INC/DEC to make the selection.

Specify the copy destination Tone using TONE SELECT(1-4).

Patch common copy

This command copies parameters common to all Tones from a selected Patch into the Patch in the temporary area.



★ This will copy data such as effect unit settings, key assign (POLY/SOLO), etc. (→ Patch Edit mode, p.42)

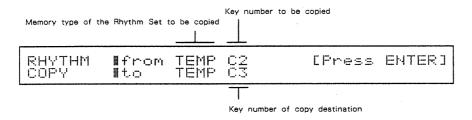
[Procedure]

Select the copy source Patch number using the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1). The name of the selected Patch will be displayed in parentheses ().

Rhythm Play/Rhythm Edit Mode → Copy

Rhythm key copy

This command copies the Rhythm Tone data of a key in a specified Rhythm Set into a key of the Rhythm Set in the temporary area.



[Procedure]

Select the copy source memory using the Patch group switches and BANK/NUMBER (or INC/DEC and parameter slider 1).

Select the copy source key number using parameter slider 2, or use / b to move the cursor and use INC/DEC to make the selection.

Specify the copy destination key number by pressing the desired key of the keyboard.

Initialize

The initialize commands restore (initialize) the data in the temporary area to a certain standard set of values, or reset a Rhythm Set to the factory settings.

* For details on the initialized data values and the factory settings, refer to pages 151.

Performance Play/Performance Edit Mode → Initialze

PERFORM INIT Performance initialize

This command initializes the Performance data in the temporary area.

PERFORM		[Press	ENTER]
	**		

Patch Play/Patch Edit Mode → Initialze

PATCH INIT | Patch initialize

This command initializes the Patch data in the temporary area.

PATCH INIT	CPress	ENTER]
<u> </u>		

Rhythm Play/Rhythm Edit Mode → Initialze

RHYTHM KEY INIT Rhythm key initialize

This command initializes the Rhythm Tone data of a specified key in the Rhythm Set in the temporary area.

RHYTHM #Key=C2 [Press ENTER	?]
-----------------------------	------------

[Procedure]

Specify the key to be initialized by pressing the note on the JV - 1000 keyboard or by pressing TONE SELECT 1 - 4.

RHYTHM SET INIT Rhythm Set initialize

This command initializes the Rhythm Set data in the temporary area to the factory settings.

RHYTHM	[Press	ENTER]

Card

These commands transfer data between the JV - 1000 and a DATA card. When you select this command, a display will appear allowing you to select the type of operation.

```
DATA CARD
Int÷Card|Card>Int|Int÷÷Card
```

[Procedure]

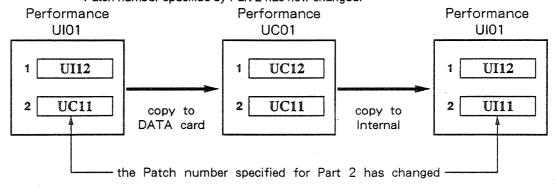
Use / or parameter slider 1 to select the desired item (the selected item will blink) and press ENTER.

Note

The JV - 1000 allows you to create Performances which use both internal and DATA card Patches. If you copy such a Performance from internal memory to a DATA card, or from a DATA card to internal memory, you should be aware that the following situation will occur.

Example: Suppose that there is a Performance UI01 (User Internal 01) which assigns a Patch UI12 to Part 1 and UC11 to Part 2. When this Performance is copied from internal memory to DATA card, this Performance will be stored in the DATA card as "UC01"(User card 01). The Patch assignment for Part 1 will be stored as "UC12" and the Patch assignment for Part 2 will remain UC11.

If you later copy the data from the DATA card back to internal memory, the Performance will be stored in internal memory as "UI01" with Part 1 as "UI12", but Part 2 will be stored as "UI11", meaning that even though the Performance number is the same, the Patch number specified by Part 2 has now changed.



If you wish to save internal data just as it is, use the Bulk Dump command (p.109).

COPY INTERNAL → DATA CARD

LCARD	#INTERNAL → DATA	CARD
FAPO		Transmin restrement
	3	Lrress Enterd

This command copies all the Performance, Patch, and Rhythm Set data in internal memory to a DATA card.

* When this command is executed using a new DATA card (or a DATA card that has been used by another device), the DATA card will be formatted (initialized) for the JV - 1000.

COPY DATA CARD → INTERNAL

CARD	IDATA	CARD+INTERNAL	
CORY	翻	[Prass	FHTFFI
·· ··· · · · · · · · · · · · · · ·	ta.	L 1 1 'm' m'	

This command copies all the Performance, Patch, and Rhythm Set data in a DATA card to internal memory.

COPY INTERNAL ←→ DATA CARD

CARD	■INTERMAL +→DATA	CARD	
COPY	H	[Press E	EHTERJ

This command exchanges all the Performance, Patch, and Rhythm Set data in a DATA card with the data in internal memory.

Bulk (bulk dump)

These commands transmit Patch or Tone data from internal memory or the temporary area via MIDI to the sequencer section, or to a MIDI device that is able to store bulk data. In this case, the MIDI channels and unit numbers of the transmitting and receiving devices must match. (To set the unit number, press MIDI and make settings in the SYS - EX MIDI page.)

* Data is transmitted using the "one way" protocol.

When this command is selected, a display will appear allowing you to select the memory from which data is to be transmitted.

```
BULK DUMP
Internal|Card|Temporary
```

[Procedure]

Select the desired item using / or parameter slider 1 (the selected item will blink), and press ENTER.

If you have selected "Temporary", another display will appear allowing you to specify the type of data to be transmitted.

```
BULK DUMP TEMPORARY
Performance|Patch|Rhythm|All
```

Here, too, use or parameter slider 1 to select the desired item (the selected item will blink), and press ENTER.

 BULK DUMP	NINTERNAL DATA NRemote ON	[Press ENTER]
W	minum indicate and i	

Use INC/DEC or parameter slider 1 to set Remote ON or OFF.

Remote ON:

The sequencer will automatically start/stop recording when data transmission is executed.

Remote OFF:

Executing data transmission will not cause the sequencer to start/stop.

* When recording a bulk dump with Remote ON, be sure to press the sequencer REC and PAUSE buttons to put the sequencer in record ready mode before you execute data transmission.

When you have specified the data to be transmitted, press ENTER. The display will read "Now Sending", and transmission will begin.

After a while the display will read "Complete", indicating that data transmission has ended.

If you set the bulk data transmission mode to Remote ON and set the JV - 1000 sequencer (or an external sequencer) to Record Ready status, recording will start when data transmission begins. When data transmission ends, recording will also stop.

* When bulk data transmission mode is Remote ON and a bulk dump is transmitted, if song data has been read into the sequencer it will begin playing. In such a case, select Remote OFF, or set the Sync Clock of the internal sequencer to INTERNAL (the factory setting is REMOTE). See Sequencer Manual/p.62.

INTERNAL DATA

BULK INTERNAL DATA DUMP IRemote ON	CPress	ENTERI
------------------------------------	--------	--------

Internal data

This command transmits all data from the JV - 1000 internal memory; Performance, Patch, and Rhythm Set data.

CARD DATA

DUMP Remote ON	BULK DUMP	∥CARD DA ∥Remote		CPress	ENTER]
----------------	--------------	---------------------	--	--------	--------

Card data

This command transmits all data from a DATA card; Performance, Patch, and Rhythm Set data.

PERFORMANCE TEMP

BULK DUMP	⊪PERFORMANCE ⊪Remote ON	TEMP	CPress	EHTERI
L				i

Performance temporary

This command transmits the Performance data from the temporary area.

PATCH TEMP

r			
 BULK DUMP	⊪PATCH TEMP ⊪Remote ON	[Fress	EHTERI

Patch temporary

This command transmits the Patch data from the temporary area.

RHYTHM TEMP

Γ	BULK	#RHYTHM	TEMP	[Press	FNTERT
	DUMF	#Remote	OH	too t 1 'sta east' see	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Rhythm temporary

This command transmits the Rhythm Set data from the temporary area.

ALL TEMP

BULK MALL TEMP [Press ENTER DUMP M Remote ON

All temporary

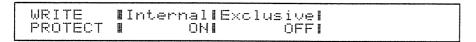
This command transmits the Patch and Rhythm Set data for the Performance in the temporary area.

Protect

The Internal Protect setting prevents internal memory from accidentally being overwritten.

The Exclusive Protect setting prevents user memory (internal / DATA card) from being overwritten by exclusive data from the on - board sequencer or from MIDI IN.

WRITE PROTECT



Internal Internal protect ON/OFF

When this is ON, internal memory protect is enabled. If you wish to write Patch or Tone data from the temporary area or from a card into internal memory, this must be set to OFF. When the power is turned on, this setting will be ON.

Exclusive Exclusive protect ON/OFF

When this is ON, exclusive protect is enabled. If you wish to overwrite the contents of user memory (internal / DATA card) with exclusive data from the on - board sequencer or from MIDI IN, this must be set to OFF. If user memory contains important data, you should set this to ON. When the power is turned on, this setting will be OFF.

* When Exclusive Protect is OFF, exclusive messages will overwrite internal memory even if Internal Protect is ON.

[Procedure]

Use INC/DEC or parameter sliders 1 or 2 to turn each protect setting ON or OFF.

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	÷			

What is the Voice Expansion mode?

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Voice Expansion mode

When an optional voice expansion board has been installed in the JV-1000, a total of 56 simultaneous voices can be played simultaneously. This chapter explains how to play the expansion sound source when a voice expansion board has been installed, and how to edit the sounds of the board.

About voice expansion mode

How the expansion sound source is organized

The basic unit of sound in the expansion sound source is the Patch. The expansion sound source has 16 Parts, and a Patch is assigned to each Part. Musical data from the on - board sequencer OUT1 or OUT2 is received by each Part (on its specified MIDI receive channel) to produce sound.

Musical data from the keyboard controller is transmitted from the rear panel MIDI OUT on the MIDI channel corresponding to the Part number; i.e., channel 1 when you play Part 1, and channel 16 when you are playing Part 16.

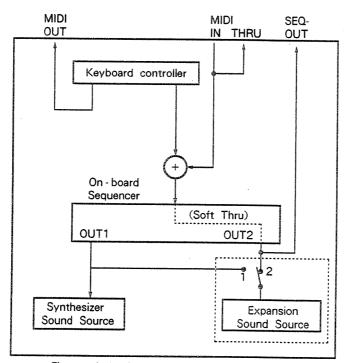
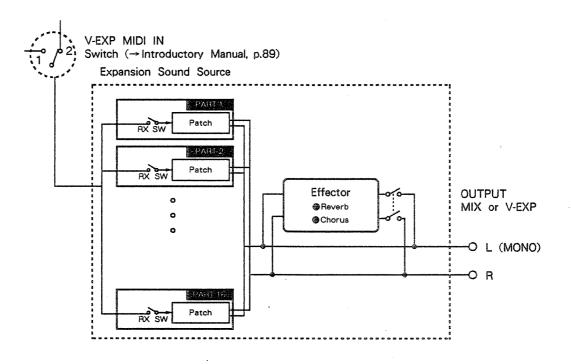


Figure of the internal MIDI rute (V-EXP mode)



The MIDI Receive/Transmit channels for each of the Parts are as follows:

Part number	1	2	3	4	5	6	7	8	9	9060	16
MIDI receive/Transmit channel	1	2	3	4	5	6	7	8	9	9696	16

* Refer to page 117 for information on settings for the V - EXP MIDI IN switch.

When a voice expansion board is not installed, the page shown below will appear when you press V - EXP.

When a GS compatible sound module is connected to SEQ OUT you will be able to control its parameters from the JV - 1000's panel when in this mode.

The expansion sound source can produce up to 28 Tones (basic elements of sound) simultaneously. Each Patch assigned to a Part consists of either 1 or 2 Tones, meaning that the actual number of simultaneous notes will depend on how many Tones each Patch consists of. For example, if you use a Patch which consists of only one Tone you will be able to play 28 notessimultaneously but if you use a Patch which consists of two Tones you will be able to play only 14 notes simultaneously.

O Note priority of Parts

When you use a sequencer etc. to play the expansion sound source, it may happen that more than 28 notes are requested. If notes are "stolen" from an important Part, the music will be obtrusively interrupted. To minimize this problem, the Parts have been given a note priority order as shown in the following chart.

Note priority	Part number
1	10 (rhythm part)
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9
11	11
12	12
13	13
14	14
15	15
16	16

When the number of notes requested from the expansion sound source exceeds 28, currently - sounding notes will be turned off beginning with the lowest - priority Parts. When you compose a song, make part assignments with this priority in mind.

This Part note priority only determines the priority, and does not guarantee a minimum number of notes. Notes may be stolen even from high - priority Parts. You can eliminate this problem using the Voice Reserve function (p.126).

About modes

O Voice expansion play mode

When you press the V - EXP mode select button, the button indicator will light, and you will enter Voice Expansion Play mode. In this mode, the on - board sequencer OUT2 will be set to Soft Thru so that musical data from the keyboard controller (and from the rear panel MIDI IN) can play the expansion sound source (when the V - EXP MIDI IN SW is set to 2).

O Voice expansion edit mode

When you press EDIT while in Voice Expansion Play mode, you will enter Voice Expansion Edit mode. This allows you to edit various settings of the expansion sound source.

In these modes, you can use the assign buttons or the function select buttons to access and modify MIDI - related settings or sound parameters.

MPORIANI

Concerning the V - EXP MIDI IN Switch and the Setting for Soft Thru

Soft Thru for the internal sequencer and the V - EXP MIDI IN switch need to be set to the same route when you wish to play the expansion sound module from the keyboard, or use the panel for control over parameters. (See illustration on p. 114.)

- (1) With the V EXP MIDI IN switch at 1: Soft Thru assigned to OUT1
- (2) With the V EXP MIDI IN switch at 2: Soft Thru assigned to OUT2

When the V - EXP MIDI IN switch is set to '2,' route (2) above is selected by pressing the V - EXP mode selection button. Ordinarily, the V - EXP MIDI IN switch can be set to '2.'

If using the settings in (1) above, you will not be able to use the keyboard to play the expansion sound module even if you press V - EXP. In this case, Soft Thru is set to OUT1 as a result of the internal sequencer settings.

While any of the operations shown below are being carried out, Soft Thru will be turned OFF. For this reason, the expansion sound module will temporarily not be able to be sounded, whether under the direction of the keyboard controller or as a result of data arriving at MIDI.

[Operations in the sequencer section]

- · While executing an EDIT or UTILITY function
- · The moment you return to standby mode from a MIDI or FUNC display
- · The moment you press TRACK MONITOR
- · While saving or loading floppy disk data
- · While MODE 3 (link) is being executed
- · While in MODE 4

Soft Thru settings → (Sequencer Manual, p. 58)

V - EXP MIDI IN switch settings → (Introductory Manual, "About the Voice Expansion board")

Concerning the Operation of the Synthesizer Sound Generator

When in the Voice Expansion mode, Performances in the temporary area for the synthesizer sound generator will transmit data as a result of receiving performance data from the internal sequencer's OUT1. For this reason, when the unit is set to use route (1), or when OUT 1+2 is selected for Soft Thru, the Parts played by the expansion sound module, and the Performance Parts which are set to use the same receive channels will sound at the same time. Additionally, the parameters of the synthesizer sound generator may be altered at the same time changes are made in the parameters for the expansion sound module.

If you record what is played by the expansion sound module into the sequencer, both the synthesizer sound generator and the expansion sound module may sound when that data is played back. For details, refer to "About the Voice Expansion Board" in the Introductory Manual.

MIDI Receive channel for the expansion sound module \rightarrow p. 115 Setting for the Performance receive channel \rightarrow p. 85

Working with the Parameters for the Expansion Sound Module

The parameters which determine the sound obtained with the expansion sound module are set on an individual Part basis. For this reason, if the procedures that follow are used to change the values for parameters, and you then change the Patch that is assigned to the Part, the sound of that Patch will change. Ordinarily, you should only make changes in the parameters for Parts for which a specific Patch is to be used.

In the situations listed below, the value for a setting that is shown in the display will change when the panel's buttons or sliders are adjusted, but the actual status of the settings in effect for the sound generator will not change.

- When parameters are altered when the V EXP MIDI IN switch and the internal sequencer's Soft Thru are not set to use the same route.
- · When parameters for a Part which has its RX switch at OFF are altered.
- When parameters which have the value for RECEIVE MIDI (p. 134) set to OFF are altered.

Additionally, in the situations listed below the value for a setting that is shown in the display will not conform with the sound generator.

- When the internal sequencer has been used to perform song data that includes data concerning settings for the expansion sound module.
- · When parameters for the expansion sound module are altered as a result of data arriving at MIDI IN.

In such cases, you will need to perform the procedure explained in "Sending the Panel Settings to the Expansion Sound Module" (p. 140).

The expansion sound module will function as a GM compatible sound module whenever any GM System ON messages have been sent to the expansion sound module by the internal sequencer or have reached it through MIDI IN (such as when GM Scores have been loaded into the internal sequencer to be played by the expansion sound module). While in this mode, the expansion sound module will ignore NRPN and Bank (CCO) data. For this reason, panel editing operations may no longer be available for certain parameters. To remedy this, you will need to perform the procedure explained in "Resetting the Expansion Sound Module" (p. 140).

Whenever any Bank Select messages (CCO) other than '0' have been sent to the expansion sound module by the internal sequencer or have reached it through MIDI IN, the Part which has received the Bank Select message will no longer sound. To correct this situation, you will need to use PATCH GROUP/BANK/NUMBER to re-send that Part's Bank Select Number (or Program Change Number).

Basic operation

Entering the Voice Expansion Play mode

Press the V - EXP function select button, and the following page will appear.

Press ENTER, and all the settings relative to sound generation that you currently have in force on the panel will be sent to the expansion sound module. Otherwise, press a button other than ENTER if you wish to have whatever settings that have been imposed on the expansion sound module by the internal sequencer or as a result of data arriving through MIDI IN to remain in force. Whichever method you choose, the page below will appear, and you will then be in the voice expansion mode.

- * If you do not press ENTER you may not be able to control certain parameters (such as those concerned with vibrato or TVF).
- * Data concerning settings in force on the panel will not be sent with respect to Parts which have their MIDI Receive switch (p. 121) set to OFF, or for parameters which have their reception switch at OFF in the RECEIVE MIDI page (p. 134).

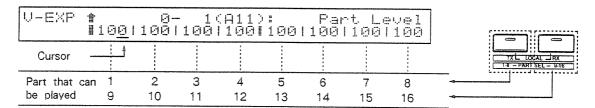
Selecting parts played by the keyboard controller

In Voice Expansion mode, the keyboard controller will play only the Part selected by the cursor, as for a single mode Performance. To play a different Part, use to move the cursor to the Part you wish to play.

The upper line of the display indicates the bank and number of the Patch that has been assigned to the Part selected by the cursor.

The Patch number is displayed in parentheses (), as group/bank/number.

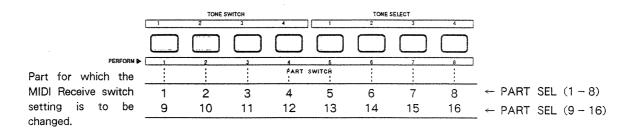
By pressing PART SEL (1-8) (so the indicator lights), you can play Parts 1-8. By pressing PART SEL (9-16), you can play parts 9-16.



* Turn ON the MIDI Receive switch for Parts you wish to play.

MIDI Receive Switch settings

In the voice expansion mode, the PART SWITCH also serves as the MIDI Receive switch. The MIDI Receive switch should be turned ON for Parts you wish to have play as a result of information generated by the keyboard controller or the internal sequencer, or in keeping with data that has arrived at MIDI IN. For any Parts which you do not wish to have played, or for those that you temporarily want to be silent, turn OFF their MIDI Receive switch.



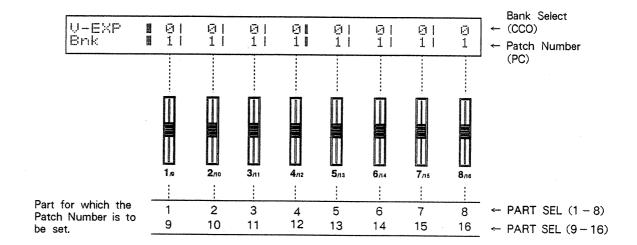
In Voice Expansion mode, the PART SWITCH buttons act as MIDI receive switches. When PART SEL (1-8) is on they will make settings for Parts 1-8, and when PART SEL (9-16) is on they will make settings for Parts 9-16

Each time you press a PART SWITCH, the Receive Switch for that Part will be turned on (indicator lit) or off (indicator dark).

* If you modify any parameters for Parts which have their MIDI Receive switch set to OFF, the values of settings shown in the display will reflect the changes, but the actual settings in effect for the sound generator will not change.

Changing the Patch of a Part

To change the Patch that has been assigned to a Part, press the PATCH assign button to select the following display.



From the left, the upper line shows the Bank for Parts 1-8 or Parts 9-16, and the lower line shows the Patch Number. If the PART SEL (1-8) indicator is lit the display will show the Bank and Patch Number for Parts 1-8, and if the PART SEL (9-16) indicator is lit, the display will show the Bank and Patch Number for Parts 9-16.

About banks and numbers

In the expansion sound source, the Patch assigned to each Part is specified by bank and number. In bank 0, all numbers have a Patch assigned, but in other banks, there are some unassigned numbers.

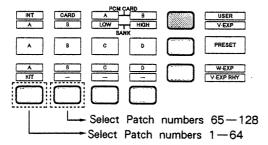
* For an explanation of the Patches in each bank, refer to the manual for the voice expansion board you are using.

O Selecting the patch number

There are three ways to select the Patch number.

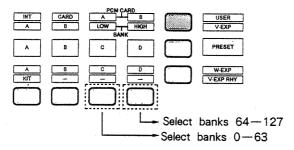
- 1. Use PART SEL to get the setting page for the Part whose Patch selection you wish to modify, and use the appropriate parameter slider to select the Patch number.
- 2. Use \[\bigsim \] to move the cursor to the desired Part, and use INC/DEC to select the number.
- 3. Use 1/ to move the cursor to the desired Part, and use the Patch group switches V EXP (A)/(B) and BANK/NUMBER to select a Patch number. If V EXP (A) is selected, the BANK/NUMBER switches will select 1 64. If V EXP (B) is selected, the BANK/NUMBER switches will select 65—128.

* If you use a parameter slider or INC/DEC to select the Patch number, the PATCH GROUP / BANK / NUMBER indicators will change accordingly.



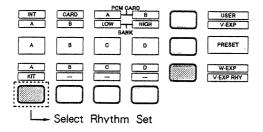
○ Selecting the bank

To select the bank, use / bank to move the cursor to the Part whose bank selection you wish to modify. To select bank 0—63, press the Patch group switch V - EXP (BANK LOW), or to select bank 64—127, press V - EXP (BANK HIGH).



Select the bank in the same way as when selecting the number.

O Selecting a rhythm set



- * You may assign a Rhythm Set to two Parts simultaneously.
- st Part 10 is the initialized setting for the Rhythm Set .

CHORUS/REVERB switches

When in V - EXP mode you can press CHORUS/REVERB to turn on/off the chorus and reverb of the expansion sound source. When on, the indicator will light, and the effect processed sound will be heard as specified by the parameter settings.

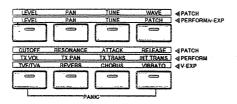


* The chorus/reverb of the expansion sound source can be set independently of the chorus/reverb of the synthesizer sound source. To turn on/off the chorus and reverb of the synthesizer sound source, use the CHORUS/REVERB switches while in Patch mode, Performance mode, or Rhythm mode.

Voice expansion play mode

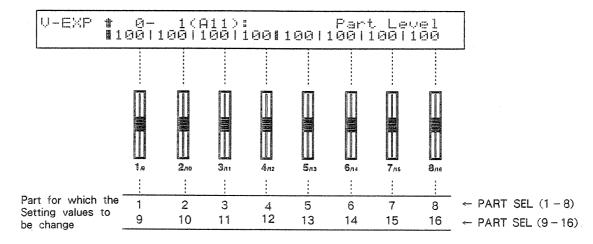
Using the assign buttons to select/modify parameters

By pressing the assign buttons you can access a variety of parameters, and modify them for each Part even while you play.



The upper line of the display indicates the bank/number of the Patch assigned to the Part indicated by the cursor, and the name of the parameter currently being edited. The Patch number is displayed in parentheses (), as group/bank/number.

If the PART SEL (1-8) indicator is lit, the lower line of the display will show the parameter values for Parts 1-8 (the Part numbers printed in large characters below each parameter slider), and if the PART SEL (9-16) indicator is lit, the parameter values for Parts 9-16 (the Part numbers printed in small characters) will be shown. Use the corresponding parameter slider to modify these values.



- * As when in Patch/Performance mode, in pages in which "書" or "事" is displayed you can use the 🗻 / 🔻 buttons to select other parameter pages.
- * If you press a Patch Group switch, or BANK/NUMBER while any of the ASSIGN buttons are lighted, you can change the Patch which is assigned to the Part that the cursor currently points to.

Expansion sound source sound parameters

The sound parameters of the expansion sound source are set for each Part. The Part parameters modify the character of the sound, and include pan, volume, effect unit, and TVF settings. These parameter settings are made for the Part, so when you change the Patch that was assigned to a Part, the sound of the Patch will also change.

Be aware of this when you change Patches in the middle of a song.

♦ LEVEL

Part Level Part level 0-127

This parameter adjusts the volume balance of each Part. Higher values will result in higher volume levels.

When LEVEL has been pressed, you can use volume to access the following parameters.

Voice Reserve Voice reserve 0-28

This parameter sets the number of Tones that will be guaranteed for each Part. For each Part, set this parameter to the number of required notes multiplied by the number of Tones used by the Patch assigned to that Part.

* The expansion sound source can produce up to 28 notes simultaneously, so the total number of Tones specified by the voice reserve setting will not exceed 28.

◆ PAN

Part Pan Part pan L64-0-63R

This parameter adjusts the pan (stereo position) of each Part.

- * In some Patches, a small amount of sound may still be heard from the opposite speaker even with pan settings of full left (or right).
- * In a Rhythm Set, the pan has been set for each Rhythm Tone. When you adjust the pan setting of a Part to which a Rhythm Set has been assigned, the stereo position of the entire Rhythm Set will move.
- * When the setting for Part Pan is 63R, you can select "RND" by pressing INC. The position of the sound image will then pan randomly from left to right.

♦ TUNE

Part Coarse Tune | Part coarse tune | -24 -- +24

This parameter adjusts the pitch of each Part in units of a semitone.

When TUNE has been pressed, you can use vo to access the following parameters.

Part Fine Tune | Part Fine Tune | -50 -- +50

This parameter adjusts the pitch of each Part in units of 1/100 of a semitone.

♦ PATCH

Patch Select | Patch Select

This parameter specifies the Patch / Rhythm Set assigned to each Part. The upper line of the display indicates the bank, and the lower line indicates the number of the Patch.

U-EXP	H	ЯI	Яl	01	01	Йİ	ЯI	Ø [0
Bnk/PC	168	īi	1 1	ī i		11	1 i	1 1	- i
DOKALO	紐	T I	T i	т. і	T 1	Т 1	Τı	т і	-

◆ TVF/TVA

TVF Cutoff Freq. | TVF cutoff frequency -50-50

This parameter adjusts the cutoff frequency of the TVF.

U-EXP	I	Ø-	1 (A	11):	TUF	Cu	toff	Free.
	#	01	01	0 l	01	01	01	01 0

When TVF/TVA has been pressed, you can use \(\bigsim \)/ \(\bigvert \) to access the following parameters.

TVF Resonance TVF resonance -50 - 50

This parameter adjusts the amount of emphasis added around the cutoff frequency.

U-EXP	會	0-	1 (A	11):		TUF	Res	onar	ice
	事	01	01	01	01	01	0	01	Ø

TVF TVA - Env Attack | TVF TVA envelope attack -50 -50

This parameter adjusts the attack time of the volume and cutoff frequency.

U-EXP	士	Ø-	1 (A	11):	TUF	TUA-	Env	Atta	ick
	4	0 l	Ø	01	91	01	01	01	Ø

TVF TVA - Env Decay TVF TVA envelope decay -50 - 50

This parameter adjusts the time over which the attack level decays down to the sustain level (the level at which the volume and cutoff frequency are held).

TVF TVA - Env Release TVF TVA envelope release -50 - 50

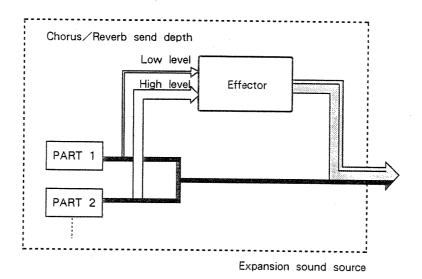
This parameter adjusts the time over which the sound will decay.

U-EXP	#	0- 0	1(A 0	11):	TUF Ø I	TUA-I	Env 01	Rele Øl	as 0

♦ REVERB

Reverb Send Depth Reverb send depth 0-127

This parameter adjusts the depth of the reverb effect.



CHORUS

Chorus Send Depth Chorus send depth 0-127

This parameter adjusts the depth of the chorus effect.

U-EXP		1(A11): Chorus Send Dept	
	ш	64 64 64 64 64 64	7

♦ VIBRATO

Vibrato Rate | Vibrato rate -50-50

This parameter adjusts the speed of vibrato (pitch modulation).

When VIBRATO has been pressed, you can use / v to access the following parameters.

Vibrato Depth Vibrato depth -50 - 50

This parameter adjusts the depth of the vibrato effect.

Vibrato Delay Vibrato delay -50 -50

This parameter adjusts the time interval before the vibrato effect begins to be applied.

Other parameters related to performance

In Voice Expansion Play mode, you can also press the function select buttons to directly access settings for the effect unit (chorus/reverb) and program change transmit settings.

* These settings are common to all Parts.

♦ EFFECT

EFFECT Reverb Type| Chorus Type
MACRO Hall 2| Chorus 1

Reverb Type
Chorus Type
Chorus type

The reverb and chorus effects can each be set to one of 8 types.

⟨Reverb type⟩

Туре	Effect		
Room1 to 3	Silmulate the reverberation in valous rooms.		
Hail 1 to 2 Siimulate the reverberation in concert halls.			
Plate	Reverb that simulates a plate echo. (A device that uses the vibrations of a metal plate to produce reverberation.)		
Delay	Standaed delay effect		
Panning Delay	A specialized delay which moves the sound to the extremes (left and righ) in the sound field. Most effective when used in stereo.		

(Chorus type)

Туре	Effect
Chorus 1 to 4	Standard chorus.
Feedback Chorus	A chorus settong which also includes a flanger - like effect (the resulting sound is delicately textured).
Flanger	Produce an effect that could be likened to the sound of a jet plane's ascent and descent.
Short Delay	A delay repeated in a short time.
Short Delay (FB)	A short delay that is repeated numerous times.

♦ PGM CHANGE

TRAMSMIT	Tx-Chi P.C-NolBn	-MSBIBnk-LS	B
	1 012/A24	0	0
L			

Tx - Ch Transmit channel 1-16

This setting determines the channel on which bank select and program change messages will be transmitted.

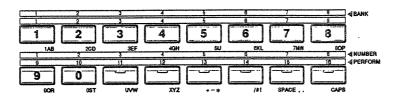
P.C - No Program change number 001/A11 - 128/B88

This setting specifies the program change number that will be transmitted on the Tx - Ch.

The setting is displayed at the left of "/" as a bank select (program change) number, and at the right of "/" as a group/bank/number. The PATCH GROUP / BANK NUMBER indicators will light to indicate the specified value.

* When the cursor is located at the bank select (program change) number, you can directly enter a number of 001 - 128.

BANK 1—8 and NUMBER 1—2 correspond to numerals 1—0 (the numeral is printed at the lower right of each button). Use the BANK/NUMBER buttons to enter the desired number, and press ENTER to transmit the program change message.



When the cursor is at the group/bank/number display, you can use the PATCH GROUP / BANK / NUMBER buttons to specify the program change number.

Bnk - MSB/Bnk - LSB Bnk select number 000 - 127

This setting specifies the bank select number MSB (control change #0) and LSB (Controll change #32) number that will be transmitted on the Tx - Ch.

* The Bank Select number will be sent out along with the P.C. when the Program Change number is manipulated.

V - EXP system common parameters

By pressing TUNE, CONTROL or MIDI, you can access the V-EXP system common parameters (parameters common to all Parts of the expansion sound source).

* The setting procedure is as the same as in Patch/Performance mode.

TUNE

This parameter sets the tuning of the entire expansion sound source. The value is expressed as the pitch of the A4 key.

Transpose -36-+36

This parameter transposes the musical data from the keyboard controller in semitone units, before it is received by the expansion sound source.

These parameters adjust the contrast (brightness) of the synthesizer section (LCD(L)) and sequencer section (LCD(R)) displays.

This parameter sets the overall volume of the expansion sound source.

This parameter transposes the key range of the entire expansion sound source in semitone units.

This parameter adjusts the pan (stereo position) of the entire expansion sound source.

OCONTROL

ſ					
	PEDAL1	Ш	Model		Assign (Val:127)
	ASSIGN	-∰-	IHTICC	The second	VOLUME!!

PEDOLO #	Model Assi9n/(Val	:127)
	MIDIICC11/EXPRESSIONI	

C1 t	Model	Assign (Val:127)
ASSIGN #	I+M	EEHD-UF II

These parameters specify the parameters to be controlled by the foot pedals connected to pedal jacks 1/2 and by the Cl slider.

Mode Output mode OFF / INT / MIDI / I+M

This parameter specifies which sound sources (MIDI instruments) will be controlled by the pedals and C1 slider. With a setting of INT only the expansion sound source will be controlled. With a setting of MIDI, the messages from the pedals and slider will only be transmitted from MIDI OUT. With a setting of OFF, the pedals and slider will not control the expansion sound source or external MIDI devices.

Assign Assign

CC0 - CC95 / AFTERTOUCH / BEND - UP / BEND - DOWN / PROG - UP / PROG - DOWN

These parameters specify the parameters which will be controlled by the pedals and the C1 slider. For a setting of AFTERTOUCH, the specified pedal or C1 slider will control aftertouch, for BEND - UP/BEND - DOWN it will control pitch bend up/down, and for PROG - UP/DOWN it will select the next higher or lower numbered Performance or Patch. The value in parentheses () indicates the current position of the pedal or C1 slider.

			Pedal2	
POLARIT	무용도	THUDARD	(STANDARD)	REVERSEI

Pedai1 Pedai2 Hold STANDARD/REVERSE

These parameters allow you to reverse the polarity of a pedal switch connected to a pedal jack 1/2 or the hold pedal jack, so that it will work correctly with the JV - 1000. When using Roland pedal switches (DP - 2, etc.), set this to STANDARD.

Some pedal switches made by other manufacturers have opposite polarity. For example, when such a switch is connected to the hold pedal jack, the sound will be held even when the pedal switch is not pressed. In such cases, select REVERSE.

AFTER # Threshl TOUCH # 101

Thresh Threshold 0-127

This parameter sets the level (threshold) at which aftertouch will begin to have an effect. Aftertouch will have no effect unless the aftertouch value exceeds this threshold level. If you set this threshold parameter to 127, aftertouch will have no effect.

♦ MIDI

Move the cursor to the desired Part and press MIDI to access the MIDI settings page for that Part.

TRANSMIT# P.C! C.C! Vol!Bend! Mod! Aft! MIDI # ON! ON! ON! ON! ON!

RECEIVE # P.C! C.C! VollBend! Mod! Aft! MIDI | ON! ON! ON! ON! ON!

P.C C.C Vol Bend Mod Aft ON/OFF

These parameters turn on/off transmission/reception of each type of MIDI message. The displayed abbreviations have the following meanings.

P.C Program change C.C Control change Vol Volume

Bend Pitch bender

Mod Modulation

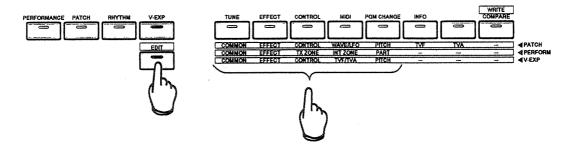
Aft Aftertouch

The JV - 1000 keyboard or pedals will not be able to control these items either when the receive switch is turned OFF.

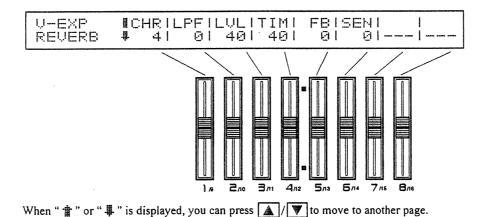
Voice expansion edit mode

Editing procedure

In Voice Expansion Play mode, move the cursor to the Part you wish to edit and press EDIT, and you will be able to edit the parameters of that Part. In this mode, press a function select button to select Part parameters.



In each case, the values displayed from the left correspond to parameter sliders 1—8. Move the parameter slider for the value you wish to modify.



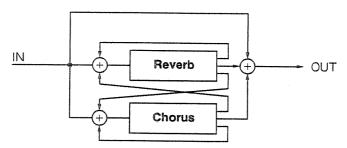
Explanation of parameters

The sound parameters of the expansion sound source are set for each Part. If you use the editing procedures explained below to modify the parameter values and then select a different Patch for the Part, the sound of that Patch will also change. Normally, you should modify parameter values only for a Part which uses a specific Patch.

Parameters accessed by EFFECT

These are the parameters related to chorus and reverb. Chorus and reverb give depth to the sound or create a spacious stereo effect.

* The effect unit settings of the expansion sound source are common to all Parts. The depth of the effect for each Part will depend on the Chorus/Reverb Send Depth parameters (P:128), which are set independently for each Part.



V-EXP	PEUERR	141 ···· 1	11'-, I i .4 I	' [A]	LVLI 401	401	FB 15	ши. ЯІ—-	
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CHR Reverb character 0-7

This parameter determines the type of reverb.

LPF Reverb pre LPF 0 - 7

This parameter sets the LPF (low pass filter) placed before the reverb.

LVL Reverb level 0-127

This parameter sets the level (volume) of the reverberant sound.

TIM Reverb time 0-127

When the reverb type is ROOM1—PLATE, this parameter sets the reverb time. When the reverb type is DELAY/PAN - DELAY, this parameter sets the delay time.

FB Delay feedback 0-127

When the reverb type is DELAY, this parameter sets the level at which the delayed sound is fed back into the delay.

SEN Reverb send level 0-127

This parameter sets the level at which the reverb output is sent to the chorus.

V-EXP #LPFILVL| FB|DEL|RAT|DEP|SEN| CHORUS # 0| 40| 8| 50| 3| 13| 0|----

LPF Chorus pre LPF 0 - 7

This parameter sets the LPF (low pass filter) placed before the chorus.

LVL Chorus level 0-127

This parameter sets the level (volume) of the chorused sound.

FB Chorus feedback 0-127

This parameter sets the level at which the chorused sound is fed back into the chorus.

DEL Chorus delay 0-127

This parameter sets the delay time.

RAT Chorus rate 0-127

This parameter sets the modulation speed of the chorus.

DEP Chorus depth 0-127

This parameter sets the modulation depth of the chorus.

SEN Chorus send level 0-127

This parameter sets the level at which the chorus output is sent to the reverb.

Parameters accessed by CONTROL

KEY ASGN**u** Assign|Bend-Range| Mod-Depth &BENDER **u** POLY| 2| 10

Assign Key assign POLY/MONO

This parameter determines whether each Part will sound polyphonically (POLY) or monophonically (MONO).

Bender - Range Bender range 0 — 24

This parameter determines the maximum pitch change that will result from moving the pitch bender lever. The value is in semitone units, and the maximum setting is 2 octaves.

Mod - Depth Modulation depth 0 - 127

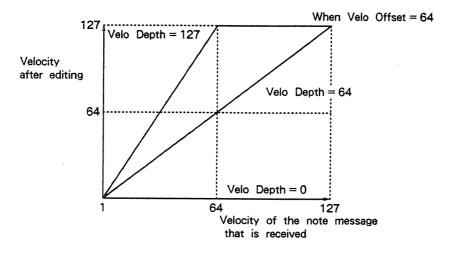
This parameter determines how greatly the modulation lever will affect modulation effects (vibrato, etc.).

VELOCITY*		OFFSET! I
SEMSE	641	64

These parameters modify the received note data to adjust the response to playing dynamics.

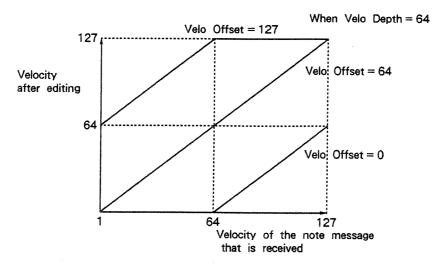
DEPTH Velocity sensitivity depth 0-127

As the Velocity Sensitivity Depth is increased, changes in playing dynamics will have a greater effect on volume. With a setting of 0, playing dynamics will have no effect on volume.



OFFSET Velocity sensitivity offset 0-127

This parameter determines the velocity at which volume changes will result. As this setting is increased above 64, the volume will change for softly played notes. As this setting is decreased below 64, the volume will change for strongly played notes.



Parameters accessed by TVA & TVF

This parameter adjusts the cutoff frequency (the frequency at which the spectral content of the sound will be cut).

This parameter adjusts the amount of emphasis added to the sound in the region of the cutoff frequency.

This parameter adjusts the time over which the volume and cutoff frequency will rise when the sound begins.

This parameter adjusts the time over which the sound will fall from the attack level to the sustain level (the level where volume and cutoff frequency are held).

Release TVF TVA envelope release -50 - 50

This parameter adjusts the time over which the sound diminishes.

Parameters accessed by PITCH

This parameter adjust the pitch of each Part in semitone units.

This parameter adjusts the pitch of each Part in units of 1/100 of a semitone.

Other operations in edit mode

* The on - board sequencer's Soft Thru (Sequencer manual, p.58) and the V - EXP MIDI IN switch (Introductory manual, p.96) must be set to the same route. (If V - EXP MIDI IN switch is set to 2 (1), Soft Thru must be set to OUT2 (1) or OUT1+2.) If the routes are different, the following procedure will have no effect.

Transmitting the panel status to the expansion sound source

When you carry out the procedure 3 explained under "IMPORTANT" on page 117, discrepancies between the values of settings as shown in the display versus the actual values that are in force within the sound generator can arise. To correct this situation, carry out the procedures below to send the settings you currently have in force on the panel to the expansion sound module.

In Voice Expansion Edit mode, press COMMON to select the following page, and press ENTER.

* Data describing the settings in force on the panel will not be sent with respect to Parts which have their MIDI Receive switch (p. 121) set to OFF, or for parameters which have their reception switch at OFF in the RECEIVE MIDI page (p. 134).

Resetting the expansion sound source

V-EXP **†** Press ENTER to Reset GS COMMON **†** Initialized V-EXP Parameter

Chapter 3

REFERENCE

1. Error Messages

When operations have been incorrectly executed, or when some unexpected condition arises, an error message will be displayed. Check the displayed error message and implement the suggested solution (or solutions) in this section.

All the messages listed below are displayed for approximately 1.5 seconds, after which the LCD returns to the previous display.

• Internal RAM Write Protect

Problem: The internal memory write-protect function is on

and data cannot be written or stored.

Solution: After this message is displayed, the LCD automatically switches to the write-protect display. Set

the Internal protect function to OFF from this

display.

• Internal RAM Read Error

Problem: The data of the internal memory has somehow

been corrupted or destroyed.

Solution: Consult with your nearest Roland Service Station.

• Internal Battery Low

Problem: The internal backup battery has run down.

Solution: Consult with your nearest Roland Service Station.

DATA Card Not Ready

Problem: The DATA card has not been inserted into the

DATA card slot or has not been inserted

correctly.

Solution: Insert the DATA card correctly and securely.

DATA Card Not Properly Formatted

Problem: The DATA card inserted has not been properly

formatted for use with the JV-1000.

Solution: Format the card from the Write mode (P.108).

● DATA Card Write Protect

Problem: The protect switch of the DATA card is on and

data cannot be stored on the card.

Solution: Set the protect switch of the DATA card to off

(P.101), then perform the desired operation

again.

● DATA Card Read Error

Problem: The data of the DATA card has somehow been

corrupted or destroyed.

Solution: Consult with your nearest Roland Service Station.

DATA Card Battery Low

Problem: The DATA card backup battery has run down.

Solution: Transfer the data to another DATA card, then

replace the battery in the original card.

PCM Card Not Ready

Problem: The PCM card has not been inserted into the

PCM card slot or has not been inserted correctly.

Solution: Insert the PCM card correctly and securely.

PCM Card Not Properly Formatted

Problem: A PCM card not designed for use with the

JV-1000 has been inserted into the PCM card

slot.

Solution: Use only a proper PCM card.

MIDI Communication Error

Problem: Either an excessive amount of data was received at once, or the active sensing function was cut

at once, of the active sensing function was cut

off.

Solution: Do not attempt to continuously transmit large

amounts of data (like program change messages) that require processing on reception and, hence, take more time than usual. Also

make sure that all MIDI cables are connected

correctly.

• BULK DUMP: MIDI Buffer Full

Problem: Excessive data has been transmitted at once by

the bulk dump function.

Solution: Make adjustments to the exclusive data so that it

is sent in several "packets" of smaller amounts.

BULK DUMP: Check Sum Error

Problem: The checksum value of the bulk dump is

incorrect.

Solution: Correct the exclusive data.

BULK DUMP: DATA Card Not Ready

Problem: A DATA card has not been inserted and the data

received by the bulk dump function cannot be

written or stored.

Solution: Insert a DATA card correctly and securely into

the DATA card slot.

BULK DUMP: Improper DATA Card

Problem: A DATA card not properly formatted for use with

the JV-1000 or JV-80 has been inserted and the data received by bulk dump cannot be written or

stored.

Solution: After formatting the DATA card from the Write

mode (P.108), perform the operation again.

BULK DUMP: DATA Card Write Protect

Problem: The protect switch of the DATA card is on and

data received during execution of the bulk dump

function could not be written or stored.

Solution: Set the protect switch of the DATA card to off

(P.101), then perform the operation again.

2. Troubleshooting

Check through the following situations and conditions when your JV-1000 fails to operate properly.

Synthesizer Sound Module

No sound

- Check that the JV-1000, amplifier and mixer are all turned on.
- Check that all the devices are connected correctly and securely.
- Check that the connecting cables are not defective.
- Check whether the sound is output through a connected set of headphones. If you can hear the sound normally through the headphones, the connected device or cable are probably the cause of the problem.
- Check that the volume of the amplifier, mixer or external MIDI sound source are set to suitable levels.
- Check that the volume of JV-1000 is set to a suitable level.

For the internal sound source, check the following:

- O The position of the master volume slider
- O The Part level value which is set for the Part of a Performance
- O The Patch level value which is set for a Patch
- TVA level value which is set for the Tone of a Patch or a Rhythm Tone
- The position of the pedal or slider when CC7/VOLUME is assigned to Pedal 1/2 or C1
- O The value of the volume data received via MIDI IN

For connected Sythesizer MIDI devices, check the following:

- The transmit volume setting which is made for the transmit zone of a Performance
- The position of the pedal or slider when CC7/VOLUME is assigned to Pedal 1/2 or C1
- Check that the local switch is on:
- O The setting of the local switch in the system common parameters
- The setting of the local switch which is set for the internal zone of a Performance
- Check that the receive switch which is set for the Part of a Performance is on.

- Check that the transmit switch which is set for the transmit zone of a Performance is on.
- Check that the Patch transmit channel of the system parameters is on.
- Check that the Tone switch which is set for the Tone of a Patch is on.
- Check that the range of the zone has been properly set:
- The key range value which is set for the transmit or internal zone, when the key mode of the Performance is set to zone
- The velocity range value which is set for the Tone when the velocity switch of a Patch is on
- Check that the MIDI channel has been set properly:
- The Patch transmit/receive channel value which is set in the system commom parameters
- Transmit channel value which is set by the transmit zone of the Performance
- O Receive channel value which is set for the Part of a Performance
- Sound may not be produced if: 1) the cutoff is set to 0 and the .TVF filter type for the Tone of a Patch or a Rhythm Tone is set to LPF, or 2) the cutoff is set to 127 and the filter type is set to HPF.

Check the following:

- O TVF cutoff value
- TVF envelope depth
- The velocity sensitivity value and the key follow setting of the TVF envelope
- The level setting of TVF envelope
- The depth setting and the controller position when the modulation/aftertouch/expression control parameter is set to cutoff
- Check that the TVA level of the Patch Tone or Rhythm Tone is set to 0.

Check the following:

- O Dry level value which is set by the effect send
- O TVA level value
- The velocity sensitivity value and the key follow setting of the TVA envelope
- The level setting of TVA envelope
- The depth setting and the controller position when the modulation/aftertouch/expression control parameter is set to level
- O The Tone delay time value

The sound range may be limited depending on the wave selected.

Check the following:

- O Transpose value of the system common parameters
- O Transpose value which is set for the internal zone of a Performance
- O Coarse tune value which is set for the Part of a Performance
- O Coarse tune value which is set for the Tone of a Patch
- O Coarse tune value which is set for the Rhythm Tone

Volume cannot be controlled

- Check that either pedal 1/2 or C1 is assigned to CC7/VOLUME.
- Check that the receiving switch for the volume is not off.

Check the following:

- The receive volume setting which is set by MIDI receive in the system common parameters
- The receive volume setting which is set for the Part of a Performance
- O The volume setting which is set for the pedal of the Patch Tone
- The volume is not transmitted even though the value of the transmit volume of the transmit zone is changed in the Performance Edit mode.

Dynamic changes in the sound do not respond correctly or as you expect them to

- Check the velocity sensitivity settings:
- The value of the velocity curve/sensitivity and maximum velocity, which are set in transmit/internal zone of the Performance
- The value of the TVA velocity curve/sensitivity, which are set for the Rhythm Tone of a Patch.

The sound is distorted

- Check the levels of the amplifier and mixer and the master volume of the JV-1000 are set properly.
- When the Part level parameter of a Performance is set too high, the sound sometimes may be distorted.
- When the TVA level or the resonance value set for a Patch Tone or Rhythm Tone is set too high, the sound sometimes may be distorted.

The pitch is wrong or does not change

- Check that the tune settings are correct:
- O The master tune/transpose values of the system parameters
- O The transpose value set for the internal zone of a Performance
- O The coarse tune/fine tune values set for the Part of a Performance
- The coarse tune/fine tune/random pitch values set for the Tone of a Patch or a Rhythm Tone
- O The pitch key follow value set for the Tone of a Patch
- The pitch envelope value set for the Tone of a Patch or a Rhythm Tone
- O The tuning value of the external MIDI sound source
- Check that the pitch bender has not been moved

Check the following:

- The position of the bender lever
- The position of pedals 1/2 and C1 when the assignment of pedal 1/2 and C1 are set to BEND-UP/BEND-DOWN
- O The pitch bend value received via MIDI IN
- O The bender range value which is set for the Patch
- O The bender range value which is set for the Rhythm Tone
- O The bender range value of the external MIDI sound source
- Check that the receiving switch of the pitch bender is on.

Check the following:

- The bender setting which is set by the transmit/receive MIDI functions of the system common parameters
- The bender range value which is set for the Patch
- O The bender range value which is set for the Rhythm Tone
- The bender range value/receiving switch of the external MIDI sound source

Check that the effects and LFO are correctly set

Check the following:

- O The chorus value which is set for the Performance/Patch
- O The analog feel value which is set for the Patch
- The switch/depth value of FXM which is set for the Tone of a Patch
- O The pitch LFO depth value which is set for the Tone of a Patch
- The depth value and the controller position of the modulation/ aftertouch/expression control which is set for the Tone of a Patch, when the parameter is set to pitch LFO
- It may happen that the sounding pitch range is limited, or that a Tone doesn't deviate from a certain pitch range, or that the tuning sounds off, depending on the selected wave.

The controllers do not work

- Check the mode/assign settings of pedals 1/2 and C1, which are set in the system common parameters.
- Check the transmission/receiving switch of the controller.

Check the following:

- The MIDI transmit/receive settings made in the system common parameters
- O The receive volume/hold 1 settings made for the Part of a Performance
- The volume/hold 1 settings made for the pedal of the Tone of a Patch
- Check the modulation/aftertouch/expression control settings made for the Tone of a Patch. The effect is not applied when the parameter is set to off or the depth is set to 0.

The sound color does not change or program change messages are not sent

- Check that the switches which allow sending and receiving of program change messages are not set to OFF:
- The program change setting for MIDI transmit/receive which is set in the system common parameters
- The transmit program change value which is set for the transmit zone of a Performance

- The receive program change value which is set for the Part of a Performance
- Check that the MIDI channel settings are correct:
- The control channel value which is set in the system common parameters
- The Patch transmit/receive channel value which is set in the system common parameters
- The transmit channel value which is set for the transmit zone of a Performance
- The receive channel value which is set for the Part of a Performance
- The layer/zone key mode and the single key mode of a Performance may have different settings for the program change to be transmitted and the MIDI channel.
- When the Patch select display is selected in the Performance Play mode, the Performance cannot be changed.
- Check that the Edit mode has not been selected:
- Changing Performances or receiving program changes is not possible in the Performance Edit mode.
- Changing Patches or receiving program changes is not possible in the Patch Edit mode.
- Changing Rhythms or receiving program changes is not possible in the Rhythm Edit mode.
- From the Performance Edit mode, program change messages cannot be transmitted even though the value of the transmit program change of the transmit zone has been changed.

The effects do not work

- Check that the effect switch is on:
- OThe chorus/reverb switch on the front panel
- OThe chorus/reverb switch setting which is made for the Part of a Performance
- Check that the setting of the Performance and the effect of a Patch have been made correctly. The effect is not applied when the chorus/reverb level is set to 0.
- Check that the setting of the Patch and Rhythm Tone have been made correctly. The effect is not applied when the chorus/reverb send, which is set by the effect send parameter, is set to 0.

Portamento does not work

- Check that the portamento switch, which is set for the Patch, is on.
- When the portamento mode for the Patch is set to legato, portamento is not applied unless you actually play the keyboard with legato technique; that is, holding down one key and not releasing it until after the next key has been pressed.
- Portamento is not applied to Rhythm Tones.

The sound is muted

- The maximum Polyphony of the JV-1000 is twenty-eight. Decrease the number of Tones you are using or adjust the Partial reserve.
- When the key assign parameter of the Patch is set to solo, only a single Tone sounds even when several keys are played.
- If the mute group of a Rhythm Tone is on, the sound which has been sounding is muted when another sound from the same group is played.

The Tone of a Patch cannot be edited as intended

- Check that the condition of the Tone select and the Tone number to be edited match.
- The sound doesn't change when editing a Tone whose Tone switch has been turned off.

■The Rhythm cannot be edited as intended

- Check that the key which is being edited and the sounding key match. The key to be edited isn't affected by the note data received via MIDI IN.
- No sound results when editing a Tone whose Tone switch has been turned off.

Card cannot be used

- Cards which have not been formatted for use with the JV-1000 or JV - 80 cannot be used. Format the DATA card by transferring the internal data to the card (the card will automatically be formatted).
- PCM cards which have not been designed for use with the JV-1000 cannot be used.

Data cannot be transferred by MIDI exclusive messages

- Check that the receive exclusive switch, which is set in the system common parameters, is on.
- Check that the unit number, which is set in the system common parameters, is correct. Match it to the unit number of the connected device.
- The temporary data will not be changed, even though the data is transferred by exclusive messages to internal memory or DATA card. Transfer to the temporary area or switch the Performance/Patch by program change after transferring the data by exclusive message.
- Check that a DATA card has been inserted. Data cannot be stored on the DATA card if it has not been properly inserted.
- Check that the DATA card has been formatted for use with the JV-1000 or JV - 80. Data cannot be stored on the DATA card if it has not been properly formatted for the JV-1000 or JV - 80.
- Check that the write-protect switch is on. When transferring data to either the internal memory or DATA card, the data cannot be written unless the corresponding write-protect switch is set to off.

Expansion Sound Module

* Please read the Important Notes on page 116 as well as the following.

No sound is heard

- Check if the volume of the expansion sound module is set too low.
- O Check the position of the Master Volume Slider (V-EXP).
- O Check the value of the Part Level.
- Check the positions of the pedal and slider when CC7/VOLUME are assigned to Pedal 1/2 and C1.
- O Check the value of the Volume information from the MIDI IN.
- Check if the level of the V-EXP system common parameter is set too low.
- Check if the MIDI Receive switch is turned to OFF.
- Check if the Receive Volume set with the Receive MIDI is turned OFF.
- When the Cutoff is set to − 50, no sound may be heard.
- Check the setting of the Velocity Sens.
- O Check the value of the Velocity Sens Depth.
- O Check the value of the Velocity Sens Offset.
- Some Patches or Rhythm Sets have limited sound range to be played.
- Check the Transpose value of the V-EXP system common parameter.
- O Check the value of the Coarse Tune.
- Check if the V-EXP MIDI switch and the Soft Thru in the internal sequencer are set correctly.
- Check if you have selected the Bank where no Patch is assigned.

Pitch is strange/Pitch does not change

- Check if the Tune is correctly set.
- Check the values of the Master Tune/Transpose of the V-EXP system common parameters.
- O Check the values of Coarse Tune/Fine Tune.
- Check if the Pitch Bender has been operated.
- Check the positions of the Pedal 1/2 and C1 when the Pedal 1/2 and C1 assignment is BEND-UP/BEND-DOWN.
- O Check the value of the Bender Range.
- Check if the Receive Switch of the Pitch Bender is set to OFF.
- Check if the Bender's receive switch set with the Receive MIDI is turned OFF.
- Check if the Effect or Vibrato is correctly set.
- O Check the value of the Chorus Depth.
- O Check the value of the Vibrato Depth.
- O Check the value of the Modulation Depth.
- Owing to the nature of the Wave, it may happen that the pitch is strange or does not change at all in a certain sound range.

You cannot call a Patch to be assigned to a Part.

- Check if the MIDI Receive switch is set to OFF.
- Check if the receive switch of the Program Change set with the Receive MIDI is turned to OFF.
- Check if you have selected the Bank where no Patch is assigned.
- The Voice Expansion Edit mode does not allow you to change Patches.

No effect is obtained

- Check if the Chorus/Reverb Switch on the front panel of the unit is turned ON.
- Check if the effect is correctly set.
- O Check the value of the Chorus/Reverb Send Depth.
- O Check the value of the Chorus/Reverb Level.

Missing sounds

- The maximum number of voices to be simultaneously played on the expansion sound module is 28. If it exceeds 28 voices, adjust the settings of the Voice Reserve.
- When the Key Assign is set to MONO, only a single note will be played even with more than one Key On.

You cannot edit data properly

- When the unit receives the GM System On from the internal sequencer or MIDI IN after it is being switched on, some parameters can no longer be edited. If this happens, reset the expansion sound module.
- You cannot edit the Part where the MIDI Receive Switch is set to OFF.
- Check if the Receive Switch of the Control Change or Volume on the Receive MIDI page is set to OFF.
- If the value set with the switches on the panel differs from the value set on the expansion sound module, send the value set on the panel to the sound module again.

It sounds strange if played on the sequencer.

- When you play a SMF disk on the market with the Output Assign set to OUT1+2, both the synthesizer sound module and the expansion sound module will be simultaneously played. If you wish to play only the expansion sound module, set the Sequencer Mute Switch in each Part of the Performance to OFF or lower the Master Volume Slider (INT).
- When you play the song data where the settings of the sound module or parameter operation are written, the expansion sound module may not sound as set on the panel. If this happens, send the panel settings to the sound module again.
- Some Performances stored on a data card on the market may have the sound range of C2—C7.

3. Waveform List

No.	Wave Name	No.	Wave Name	No.	Wave Name	No.	Wave Name
1	Ac Piano 1	41	SYN VOX 1	81	Rattles	121	REV SN 4
2	SA Rhodes 1	42	SYN VOX 2	82	Tin Wave	122	REV Kick 1
3	SA Rhodes 2	43	Male Ooh	83	Spectrum 1	123	REV Cup
4	E.Piano 1	44	ORG VOX	84	808 SNR 1	124	REV Tom
5	E.Piano 2	45	VOX Noise	85	90's Snare	125	REV Cow Bell
6	Clav 1	46	Soft Pad	86	Piccolo SN	126	REV TAMB
7	Organ 1	47	JP Strings	87	LA Snare	127	REV Conga
8	Jazz Organ	48	Pop Voice	88	Whack Snare	128	REV Maracas
9	Pipe Organ	49	Fine Wine	89	Rim Shot	129	REV Crash 1
10	Nylon GTR	50	Fantasynth	90	Bright Kick	130	REV Brush 1
11	6STR GTR	51	Fanta Bell	91	Verb Kick	131	REV Brush 2
12	GTR HARM	52	ORG Bell	92	Round Kick	132	REV Brush 3
13	Mute GTR 1	53	Agogo	93	808 Kick	133	REV Tom Hi
14	Pop Strat	54	Bottle Hit	94	Closed HAT 1	134	REV Tom Lo
15	Stratus	55	Vibes	95	Closed HAT 2	135	REV Ride
16	SYN GTR	56	Marimba Wave	96	Open HAT 1	136	REV Ped Hat
17	Harp 1	57	Log Drum	97	Crash 1	137	Brush Slap
18	SYN Bass	58	DIGI Bell 1	98	Ride 1	138	Brush Swish
19	Pick Bass	59	DIGI Chime	99	Ride Bell 1	139	Brush Roll
20	E.Bass	60	Steel Drums	100	Power Tom Hi	140	Tom Hi
21	Fretless 1	61	MMM VOX	101	Power Tom Lo	141	Tom Lo
22	Upright BS	62	Spark VOX	102	Cross Stick1	142	Ride 2
23	Slap Bass 1	63	Wave Scan	103	808 Claps	143	Pedal HAT 1
24	Slap & Pop	64	Wire String	104	Cowbell 1	144	Open Triangl
25	Slap Bass 2	65	Lead Wave	105	Tambourine	145	Ac Piano2 pA
26	Slap Bass 3	66	Synth Saw 1	106	Timbale	146	Ac Piano2 pB
27	Flute 1	67	Synth Saw 2	107	CGA Mute Hi	147	Ac Piano2 pC
28	Trumpet 1	68	Synth Saw 3	108	CGA Mute Lo	148	Ac Piano2 fA
29	Trombone 1	69	Synth Square	109	CGA Slap	149	Ac Piano2 fB
30	Harmon Mute1	70	Synth Pulse1	110	Conga Hi	150	Ac Piano2 fC
31	Alto Sax 1	71	Synth Pulse2	111	Conga Lo	151	AcP 2 Thump
32	Tenor Sax 1	72	Triangle	112	Maracas	152	AcP 2 Up TH
33	French 1	73	Sine	113	Cabasa Cut		
34	Blow Pipe	74	ORG Click	114	Cabasa Up		
35	Bottle	75	White Noise	115	Cabasa Down		
36	Trumpet SECT	76	Wind Agogo	116	REV Steel DR		
37	ST.Strings-R	77	Metal Wind	117	REV Tin Wave		
38	ST.Strings - L	78	Feedbackwave	118	REV SN 1		
39	Mono Strings	79	Anklungs	119	REV SN 2		
40	Pizz	80	Wind Chimes	120	REV SN 3		

Numbers 130 - 144 use the waveforms of the commercially available "POP" (SR - JV - 80 - 01) expansion board. Also, numbers 145 - 152 were redesigned based on the waveforms of the commercially available "Grand Piano 1" (SO - PCM1 - 04).

4. Intialize Data

■ Performance

	Performance Name	INITIAL DATA	Key Mode	SINGLE
_	Chorus Type	CHO1	Chorus Level	60
2	Chorus Rate	60	Chorus Depth	80
Соттоп	Chorus Feedback	0	Chorus Output	MIX
Ö	Reverb Type	STAGE1	Reverb Level	100
	Reverb Time	80	Delay Feedback	0

					Pε	irt			
		1	2	3	4	5	6	7	8
	Key Range Lower	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1
	Key Range Upper	G9	G9						
	Key Transpose	0	0	0	0	0	0	0	0
ne	Max Velocity	127	127	127	127	127	127	127	127
Transmit Zone	Velocity Sense	+32	+32	+32	+32	+32	+32	+32	+32
a a	Velocity Curve	1	1	1	1	1	1	1	1
SE	Transmit Channel	1	2	3	4	5	6	7	8
Tra	Program Change	OFF	OFF						
	Transmit Volume	OFF	OFF						
	Transmit Pan	OFF	OFF						
	Transmit Switch	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	Key Range Lower	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1	C - 1
e e	Key range Upper	G9	G9						
Zone	Key Transpose	0	0	0	0	0	0	0	0
a	Max Velocity	127	127	127	127	127	127	127	127
Internal	Velocity Sense	+32	+32	+32	+32	+32	+32	+32	+32
E	Velocity Curve	1.	1	1	1	1	1	1	1
	Local Switch	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	Patch Number	UI - 11	UI - 12	UI - 13	UI - 14	UI - 15	UI - 16	UI - 17	UI
	Level	127	127	127	127	127	127	127	127
	Pan	0	0	0	0	0	0	0	0
	Coarse Tune	0	0	0	0	0	0	0	0
	Fine Tune	0	0	0	0	0	0	0	0
	Receive Channel	1	2	3	4	5	6	7	10
Part	Voice Reserve	0	0	0	0	0	0	0	0
Q.	Chorus Switch	ON	ON						
	Reverb Switch	ON	ON						
	Receive P.C	ON	ON						
	Receive Volume	ON	ON						
	Receive Hold - 1	ON	ON						
	Receive Switch	ON	ON						
	Sequencer Mute Switch	ON	ON	ON	ON .	ON	ON	ON	ON

Patch

	Patch Name	INITIAL DATA		
	Patch Level	127	Patch Pan	0
	Velocity Range Switch	ON		
	Chorus Type	CHO1	Chorus Level	60
	Chorus Rate	60	Chorus Depth	80
Common	Chorus Feedback	0	Chorus Output	MIX
E	Reverb Type	STAGE2	Reverb Level	100
CO	Reverb Time	60	Delay Feedback	0
	Bend Range Down	- 2	Bend Range Up	+2
	Analog Feel Depth	0		
	Assign Mode	POLY	Solo Legato	OFF
	Portamento Switch	OFF	Portamento Mode	NORMAL
	Portamento Type	TIME	Portamento Time	50

			To	ne	
		1	2	3	4
	Velocity Range Lower	0	0	0	0
	Velocity Range Upper	127	127	127	127
	Dry Level	127	127	127	127
	Chorus Level	127	127	127	127 .
	Reverb Level	127	127	127	127
	Volume Control Switch	ON	ON	ON	ON
	Hold - 1 Control Switch	ON	ON	ON	ON
	Re - damper Control Switch	OFF	OFF	OFF	OFF
	Modulation Control Dest 1 - 4	OFF	OFF	OFF	OFF
eren o	Modulation Control Depth 1 - 4	0	0	0	0
iro	Aftertouch Control Dest 1 - 4	OFF	OFF	OFF	OFF
Control	Aftertouch Control Depth 1 - 4	0	0	0	0
)	Expression Control Dest 1 - 4	OFF	OFF	OFF	OFF
	Expression Control Depth 1 - 4	0	0	0	0
	Group	INT	INT	INT	INT
ø	Number	1	7-	1	1
Wave	Switch	ON	OFF	OFF	OFF
^	FXM Switch	OFF	OFF	OFF	OFF
	FXM Depth	· ·	1	+	1
	Waveform	TRIANGLE	TRIANGLE	TRIANGLE	TRIANGLE
	Synchro	ON	ON	ON	ON
	Rate	60	60	60	60
O.	Offset	0	0	0	0
LFO 1Z	Delay	0	0	0	0
H	Fade Mode	IN	IN	IN	IN
-	Fade Time	0	0	0	0
	Pitch LFO Depth	0	0	0	0
	TVF LFO Depth	0	0	0	0
	TVA LFO Depth	0	0	0	0

			To	ne	
		1	2	3	4
	Coarse Tune	0	0	0	0
	Fine Tune	0	0	0	0
	Random Pitch Depth	0	0	0	0
	Key Follow	+100	+100	+100	+100
	Envelope Depth	0	0	0	0
	Envelope Velocity Sense	0	0	0	0
	Env Attack Time Velocity Sense	0	0	0	0
h	Env Release Time Velocity Sense	0	0	0	0
Pitch	Envelope Time Key Follow	0	0	0	0
п	Enbelope T1	0	0	0	0
	Envelope T2	0	0	0	0
	Envelope T3	0	0	0	0
	Envelope T4	0	0	0	0
	Envelope L1	0	0	0 .	0
	Envelope L2	0	0	0	0
	Envelope L3	0	0	0	0
	Envelope L4	0	0	0	0
	Filter Type	LPF	LPF	LPF	LPF
	Cutoff	127	127	127	127
	Resonance	0	0	0	0
	Resonance Mode	SOFT	SOFT	SOFT	SOFT
	Cutoff Key Follow	0	0	0	0
	Envelope Depth	0	0	0	0
	Envelope Velocity Curve	1	1	1	1
	Envelope Velocity Sense	0	0	0	0
	Env Attack Time Velocity Sense	0	0	0	0
TVF	Env Release Time Velocity Sense	0	0	0	0
	Envelope Time Key Follow	0	0	0	0
	Envelope T1	0	0	0	0
	Envelope T2	0	0	0	0
	Envelope T3	0	0	0	0
	Envelope T4	0	0	0	0
	Envelope L1	0	0	0	0
	Envelope L2	0	0	0	0
	Envelope L3	0	0	0	0
	Envelope L4	0	0	0	0

		T	one	
	1	2	3	4
Tone Level	127	127	127	127
Level Key Follow	0	0	0	0
Level Velocity Curve	1	1	1	1
Envelope Velocity Sense	+32	+32	+32	+32
Pan Offset	0	0	0	0
Pan Key Follow	0	0	0	0
Tone Delay Mode	NORMAL	NORMAL	NORMAL	NORMA
Tone Delay Time	0	0	0	0
Env Attack Time Velocity Sense	0	0	0	0
Env Release Time Velocity Sense	0	0	0	0
Envelope Time Key Follow	0	0	0	0
Envelope T1	0 .	0	0	0
Envelope T2	0	0	0	0
Envelope T3	0	0	0	0
Envelope T4	50	50	50	50
Envelope L1	127	127	127	127
Envelope L2	127	127	127	127
Envelope L3	127	127	127	127

Rhythm Tone

	Dry Level	127
	Chorus Level	127
	Reverb Level	127
	Group	INT
8	Number	84
Мауе	Switch	ON
S	Mute Group	OFF
	Envelope Mode	NO-SUS
	Coarse Tune	C4
	Fine Tune	0
	Random Pitch Depth	0
	Envelope Depth	0
	Envelope Velocity Sense	0
	Envelope Time Velocity Sense	0
_	Bend Range	0
Pitch	Envelope T1	0
a.	Envelope T2	0
	Envelope T3	0
	Envelope T4	0
	Envelope L1	0
	Envelope L2	0
	Envelope L3	0
	Envelope L4	0
	Filter Type	LPF
	Cutoff	127
	Resonance	0
	Resonance Mode	SOFT
	Envelope Depth	0
	Envelope Velocity Sense	0
	Envelope Time Velocity Sense	0
TVF	Envelope T1	0
	Envelope T2	0
	Envelope T3	0
	Envelope T4	0
	Envelope L1	0
	Envelope L2	0
	Envelope L3	0
	Envelope L4	0

	Tone Level	127
	Envelope Velocity Sense	+32
	Envelope Time Velocity Sense	0
	Pan Offset	0
_	Envelope T1	0
T/A	Envelope T2	0
_	Envelope T3	127
	Envelope T4	50
	Envelope L1	127
	Envelope L2	127
	Envelope L3	127

Expansion Sound Sourse Initialize Setting

5	Master Tune	440.0	Ma	ster Level	127	
Common	Master Key - Shift	Cey - Shift 0 Master Pan				
၀၁	Reverb Type	Hall 2	Ch	orus Type	Chorus3	
	Character	4		Pre - LPF	0	
_	Pre - LPF	0		Level	64	
Reverb	Level	64	2	Feedback	8	
Pe	Time	64	Chorus	Delay	80	
	Feedback	0	15	Rate	3	
	Send Level To Chorus	0		Depth	19	
			The second secon	Send Level To Reverb	0	

Patch Select	Bank	0	Part Level	127
Fatch Select	P.C	1	Part Pan	0
Part Coarse tune		0	Part Fine Tune	0
Cutoff Frequency		0	Resonance	0
TVF TVA - Env Attack		0	TVF TVA - Env Decay	0
TVF TVA - Env Release		0		
Reverb Send Depth		40	Chorus Send Depth	0
VIbrate Rate		0	Vibrate Depth	0
Vibrate Delay		0		
Key Assign		Poly	Bender Range	2
Modulation Depth		10		
Velocity Sence Depth		64	Velocity Sence Offset	64

Part	1	2	3	4	5	6	7	8	9	10	11	 16
Voice Reserve	6	2	2	2	2	2	2	2	2	2	0	 0

^{*} The basic settings will be in effect for the expansion sound module each time power is turned ON. You can also place the expansion sound module at its basic settings by performing a reset (p. 140).

5. Factory Setting

M Internal

Performance

No	Name
UI01	Milky Way
UI02	Black Hall
UI03	Aflo Brass
UI04	Movie Str
UI05	Analog Pad
UI06	Analog Bs/Ld
UI 07	Pipe
UI08	Mad Station
UI 09	Bell Pad
UI10	Analog Swell
UI11	Ripper Pad
UI12	Analog Brass
UI13	Analog Orch
UI14	Melancholy
UI15	Hamming Gtr
UI16	Chaos

Patch

No	Name	No	Name
UI11	Crystal Vox	UI51	Sea Shore
UI12	MIDI Ripper	UI52	Clean Strat
UI13	Soundtrack	UI53	Mighty Pad
UI14	Poly Brass	UI54	Reso Brass
UI15	Nice Piano	UI55	Jimmee Dee !
UI16	Blow Lead	UI56	Sax Lead
UI17	Ultima Bass	UI57	Untamed Bass
UI18	Amazon Moon	UI58	Morning
UI21	Von Greece	UI61	JV Heaven
UI22	BrightGuiter	UI62	Gtr Strings
UI23	Octava Strng	UI63	Wavox
UI24	Brass Sect.	UI64	Afro Horn
UI25	Blissful	UI65	West Coast
UI26	Square Lead	UI66	Doctor Bob
UI27	Rubber Bs 3	U I67	5 - Strng Bass
UI28	X/Y/Z	UI68	House Hunter
UI31	Pulsynswell	UI71	Utakata
UI32	Nylon Chorus	UI72	Classical Gt
UI33	Orch Power	UI73	ChuChu Vox
UI34	Mistress Brs	UI74	Brass Attack
UI35	Stackoid	UI75	Mr.Mellow!
UI36	Sawteeth	UI76	Belly Lead
UI37	Slap !!!	UI77	Mondo Bass
UI38	Kolor	UI78	Ice Hall
UI41	Shakusphere	UI81	Ebb Tide
UI42	Rhythmatic	UI82	Gtr Fantasia
UI43	Vocal Oohz	UI83	Reso Swell
UI44	Hybrid Bones	UI84	Jam Brass
UI45	Fantasia JV	UI85	JV Rhodes
UI46	Doo Lead	UI86	Key Power !!
UI47	Super JX Bs	UI87	Radio Bass
UI48	Echo Riser	UI88	Arctic Winds

Patches indicated with a (*) are identical to those contained in the Roland Sound Library, "Contemporary COMPOSER by ANDREW SHLESINGER" (PN - JV80 - 05).

To restore the JV - 1000's internal memory to the factory default settings, first turn its power OFF. Then while holding down the NUMBER 8 button, turn power back ON again. You can then follow the messages that appear in the display for the synthesizer section, and press ENTER then WRITE. To cancel the procedure, press EXIT.

M Preset A

Performance

No	Name
A01	Jazz Split
A02	Softly
A03	Bossa nova
A04	Jazzygroove
A05	OLD Bar
A06	FUNKY
A07	Pop Fusion
A08	Fusion Set
A09	Heavy
A10	Rokin Split
A11	Brass Rock
A12	Hard Wire
A13	Perc Harmnix
A14	Classy Piano
A15	Perc Strings
A16	PopOrchestra

Patch

No	Name	No	Name
A11	A.Piano 1	A51	Tria Bells
A12	A.Piano 2	A52	Wave Bells
A13	A.Piano 3	A53	Vibrobell
A14	A.Piano 4	*A54	Chime Inn
A15	A.Piano 1Tx4	A55	E.Organ
*A16	Rock Grand	A56	Jazz Organ 1
A17	MIDIed Grand	A57	Jazz Organ 2
A18	Pop Piano 1	*A58	Rock Organe
A21	Country Bar	*A61	Jazz Rattler
*A22	Stack Major	A62	Fine Organ
A23	Pop Piano 2	A63	Metal Organ
A24	RD Rhodes 1	A64	Organarimba
A25	Dig Rhodes 1	A65	Pipe Organ 1
A26	Dig Rhodes 2	A66	Pipe Organ 2
A27	Stiky Rhodes	A67	Church Organ
A28	Guitr Rhodes	*A68	Weddin Time
A31	Pop Piano 3	A71	Nylon Gtr 1
A32	FM.Piano	A72	Nylon Gtr 2
*A33	Hi – Cut Ep	A73	Flanged Nyln
A34	MIDI EPiano	A74	SteelGuitar1
A35	Clav 1	A75	SteelGuitar2
*A36	Pulse Klav	A76	Velo Harmnix
*A37	Wire Klav	A77	12 strings
*A38	Flange Clav	*A78	Fake12string
A41	Warm Vibe	A81	JC Strat
A42	Vibe	A82	Clean Strat
A43	Marimba	*A83	Strata
A44	Lumber Jacow	A84	Stratus
A45	Тоу Вох	A85	SwitchOnMute
A46	Steel Drum	A86	Syn Strat
*A47	Islands	A87	Syn Guitar
*A48	AfricaMetals	A88	Overdrive

Patches indicated with a (*) are identical to those contained in the Roland Sound Library, "Contemporary COMPOSER by ANDREW SHLESINGER" (PN - JV80 - 05).

Preset B

Performance

No	Name
B01	GTR Players
B02	Synth Plus
B03	PianoEnsembl
B04	Church Choir
B05	YMBA Choir
B06	THE MALLETS
B07	South Shore
B08	Guitar Club
B09	for CompuMix
B10	Introduction
B11	House Sounds
B12	Cosmo Space
B13	Acoustics
B14	Finale!!
B15	Perseverance
B16	NewListening

Patch

No	Name	No	Name
B11	Woody Bass 1	B51	Brass Sect 1
B12	Woody Bass 2	B52	Brass Sect 2
B13	Hip Bass	B53	Brass Combo
B14	Rock Bass	*B54	Fake Brass
*B15	Pick Bass	*B55	Stab Brass
B16	Thumpin Bass	B56	Brass Swell
B17	Fretless 1	*B57	Sax Section
B18	Fretless 2	B58	Horn Brass
B21	Analog Bs	B61	Trumpet 1
B22	House Bass	B62	Trumpet 2
B23	Wonder Bass	B63	Trombone
B24	Yowza Bass	B64	Harmon Mute1
B25	Rubber Bs 1	B65	Harmon Mute2
B26	Rubber Bs 2	B66	French Horn
*B27	Asid Base	B67	Alto Sax 1
*B28	Doom Bass	B68	Alto Sax 2
B31	St Strings	B71	Tenor Sax 1
B32	Warm Strings	B72	Tenor Sax 2
B33	Slow Strings	B73	Flute mod
B34	SoarinString	B74	Piccolo
B35	Marcato	B75	Air Lead
*B36	Big Stringer	B76	Pan Pipe 1
*B37	Score String	B77	Pan Pipe 2
B38	TremoloStrng	B78	OverblownPan
B41	JP Strings 1	B81	Ocarina
B42	JP Strings 2	B82	Blow Square
*B43	Synstringer	B83	Saku Pipe
B44	String Synth	B84	Whistle 1
B45	Pizzicato	B85	Whistle 2
B46	Real Pizz	B86	Orch Stab 1
*B47	Pick It	B87	Brite Stab
B48	Harp	B88	Orch Stab 2

Patches indicated with a (*) are identical to those contained in the Roland Sound Library, "Contemporary COMPOSER by ANDREW SHLESINGER" (PN - JV80 - 05).

Preset C

Performance

No	Name
C01	Pik - A - Dee
C02	ProgresSplit
C03	Space Travel
C04	Mondo Mono!!
C05	Stringers
C06	Wash Comp
C07	Tinkle Wish
C08	World 7
C09	Dune
C10	Braz Bande
C11	Ethnotick
C12	Lite JV
C13	Rim Cue
C14	Blo Hiss
C15	Organic
C16	So Lo

Patch

No	Name	No	Name
C11	Saw Lead	C51	Poly MG
C12	Syn SAX Lead	C52	Dist Line
C13	Soft Lead 1	C53	Julia Pad
C14	Soft Lead 2	C54	Analog Horn
C15	Harmo Lead	C55	Warm Brass
C16	Reso Lead	C56	Brass Pad
C17	Pulse Lead	C57	SoulfulBrass
C18	MMM Lead	C58	Ana Brass
C21	Clav Lead	C61	Pizeza Hutt
C22		*C62	JV Pizzottle
C23		*C63	Blo East
*C24	High Lyle	*C64	Spook Metal
C25		C65	
C26	VOX Lead 2	*C66	Lite Delay
C27	WhistlinAtom	C67	Velocifex
*C28	Russiastan	*C68	Rezitan
C31	Touch Lead	*C71	Like Dee
*C32	Digirez Lead	C72	Huff N Stuff
	Another Lead	*C73	Bit World
C34	A.T DCO Lead	*C74	Meta Compa
*C35	Feed Leed	C75	Stratosphere
C36	Real Pulse	C76	Les Rhythmo
C37	Box Lead	C77	Heavens Door
C38	Chu Ning!	C78	World Peace
*C41	Lorise	*C81	Lovley World
C42	Old man	*C82	Williamsong
*C43	Duo Saw	C83	Son Of Atmos
*C44	Wa - saw Phaze	C84	Autumn Breez
*C45	Big Saw	*C85	On The Wire
C46	Old Saw	*C86	Easternal
C47	Pollyanna	*C87	Snake Up
C48	Poly Portame	C88	Brassy VOX

Patches indicated with a (*) are identical to those contained in the Roland Sound Library, "Contemporary COMPOSER by ANDREW SHLESINGER" (PN - JV80 - 05).

Preset D

Performance

No	Name	
D01	Space Vox	
D02	Ethnic Bomb	
D03	Fanta Brass	
D04	Retro Str	
D05	LittleWorld	
D06	SFX	
D07	Wistle Lead	
D08	Oriental Brs	
D09	Wire Keys	
D10	Cosmic Pad	
D11	Maturation	
D12	Poly Synth	
D13	Hyper Sonic	
D14	Stack Strngs	
D15	BellAtlantis	
D16	Reverse Fx	

Patch

No.	Name	No	Name
D11	Beauty Vox	D51	Ebb tide Pad
D12	New Age Vox	*D52	Tangerine
D13	Vento Voxx	D53	MillenniumJV
D14	Pvox Oooze	D54	Fantacy Vox
D15	Vocal Oohz 2	*D55	Wisp Rush
D16	JV Vox	*D56	Neurise
D17	Arasian Morn	D57	Mouse Pad
*D18	Love Trans	D58	Nature Pad
D21	Cosmo Vox 2	*D61	Slo Slagg
D22	Aurora	D62	Starsearch
D23	Press - Cooker	*D63	Atlantis
D24	YASURAGI	D64	Vortex CAfe
D25	Space Ahh	D65	4thDimension
*D26	Pick - a - Doodl	*D66	Hy Entropy
D27	DooWah Diddy	D67	Mellowtron
	Pop Voice	D68	Power Saw
D31	Analog Pad 1	D71	
D32	JP - 8 Pad	D72	Canal Zone
D33	Analog Pad 2	*D73	Hie Cue
D34	Analog Str	D74	Talking Pad
D35		D75	MMM Pad
D36	SpaciosSweep	*D76	Low Wind
*D37	Story Pad	*D77	SuspendTrump
*D38	The Pad	*D78	Andromida
D41	Wire Strings	*D81	The Scope
*D42	Rimms	D82	Hammer Bell
*D43	Slo Ep	*D83	Flue Taloo
D44	Glasswaves 1	*D84	BeezleBreath
D45	Glasswaves 2	D85	DistanceCall
D46	Glass 1T	D86	Analog Seq
D47	Glass Pad	D87	Reverse Mad
D48	Hardy Winery	D88	RevCymBend

Patches indicated with a (*) are identical to those contained in the Roland Sound Library, "Contemporary COMPOSER by ANDREW SHLESINGER" (PN - JV80 - 05).

JV - 80 Compatible Preset a

Performance

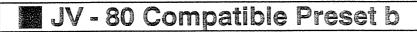
No	Name
a01	Jazz Split
a02	Softly
a03	Bossa nova
a04	Jazzygroove
a05	OLD Bar
a06	FUNKY
a07	Pop Fusion
a08	Fusion Set
a09	Heavy
a10	Rokin Split
a11	Brass Rock
a12	Hard Wire
a13	Perc Harmnix
a14	Classy Piano
a15	Perc Strings
a16	PopOrchestra

Patch

No	Name	No	Name
a11	A.Piano 1	a51	Nylon Gtr 1
a12	A.Piano 2	a52	Flanged Nyln
a13	Mellow Piano	a53	Steel Guitar
a14	Pop Piano 1	a54	PickedGuitar
a15	Pop Piano 2	a55	12 strings
a16	Pop Piano 3	a56	Velo Harmnix
a17	MIDIed Grand	a57	Nylon+Steel
a18	Country Bar	a58	SwitchOnMute
a21	Glist El Pno	a61	JC Strat
a22	MIDI EPiano	a62	Stratus
a23	SA Rhodes	a63	Syn Strat
a24	Dig Rhodes 1	a64	Pop Strat
a25	Dig Rhodes 2	a65	Clean Strat
a26	Stiky Rhodes	a66	Funk Gtr
a27	Guitr Rhodes	a67	Syn Guitar
a28	Nylon Rhodes	a68	Overdrive
a31	Clav 1	a71	Fretless
a32	Clav 2	a72	St Fretless
a33	Marimba	a73	Woody Bass 1
a34	Marimba SW	a74	Woody Bass 2
a35	Warm Vibe	a75	Analog Bs 1
a36	Vibe	a76	House Bass
a37	Wave Bells	a77	Hip Bass
a38	Vibrobell	a78	RockOut Bass
a41	Pipe Organ 1	a81	Slap Bass
a42	Pipe Organ 2	a82	Thumpin Bass
a43	Pipe Organ 3	a83	Pick Bass
a44	E.Organ 1	a84	Wonder Bass
a45	E.Organ 2	a85	Yowza Bass
a46	Jazz Organ 1	a86	Rubber Bs 1
a47	Jazz Organ 2	a87	Rubber Bs 2
a48	Metal Organ	a88	Stereoww Bs

^{*} To select the JV - 80 compatible Presets a/b, hold down ENTER while you press PCM CARD (A/B).

Within the Patches, Performances, and Rhythm Sets at the JV - 80 compatible preset memory (a/b), there are some which are identical to those stored in Preset Memory (A/B/C/D).



Performance

No	Name
b01	GTR Players
b02	Synth Plus
b03	PianoEnembl
b04	Church Choir
b05	YMBA Choir
b06	THE MALLETS
b07	South Shore
b08	Guitar Club
b09	for CompuMix
b10	Introduction
b11	House Sounds
b12	Cosmo Space
b13	Acoustics
b14	Finalell
b15	Perseverance
b16	NewListening

Patch

No	Name	No	Name
b11	Pizzicato	b51	Brass Combo
b12	Real Pizz	b52	Stab Brass
b13	Harp	b53	Soft Brass
b14	SoarinString	b54	Horn Brass
b15	Warm Strings	b55	French Horn
b16	Marcato	b56	AltoLead Sax
b17	St Strings	b57	Alto Sax
b18	Orch Strings	b58	Tenor Sax 1
b21	Slow Strings	b61	Tenor Sax 2
b22	Velo Strings	b62	Sax Section
b23	BrightStrngs	b63	Sax Tp Tb
b24	TremoloStrng	b64	FlutePiccolo
b25	Orch Stab 1	b65	Flute mod
b26	Brite Stab	b66	Ocarina
b27	JP - 8 Strings	b67	OverblownPan
b28	String Synth	b68	Air Lead
b31	Wire Strings	b71	Steel Drum
b32	New Age Vox	b72	Log Drum
b33	Arasian Morn	b73	Box Lead
b34	Beauty Vox	b74	Soft Lead
b35	Vento Voxx	b75	Whistle
b36	Pvox Oooze	b76	Square Lead
b37	GlassVoices	b77	Touch Lead
b38	Space Ahh	b78	NightShade
b41	Trumpet	b81	Pizza Hutt
b42	Trombone	b82	EP+Exp Pad
b43	Harmon Mute1	b83	JP - 8 Pad
b44	Harmon Mute2	b84	Puff
b45	TeaJay Brass	b85	SpaciosSweep
b46	Brass Sect 1	b86	Big n Beefy
b47	Brass Sect 2	b87	RevCymBend
b48	Brass Swell	b88	Analog Seq

^{*} To select the JV - 80 compatible Presets a/b, hold down ENTER while you press PCM CARD (A/B).

^{*} Within the Patches, Performances, and Rhythm Sets at the JV - 80 compatible preset memory (a/b), there are some which are identical to those stored in Preset Memory (A/B/C/D).

Rhythm Set

			Internal
			Tone Name
S	36		Bright Kick
	38	- 37	Cross Stick 1 90's Snare
	40	39	808 Claps
	41		LA Snare Power Tom Lo
	-	42	Closed HAT 1
	43	44	Power Tom Lo Closed HAT 2
	45	46	Power Tom Hi
	47	4-6	Open HAT 1 Power Tom Hi
\mathbb{S}	48	49	Power Tom Hi Crash 1
	50		Power Tom Hi
	52	51	Ride 1 Ride Bell 1
	53		REV SN 1
	55	- 54	Tambourine REV SN 2
		56	Cowbell 1
	57	58	REV SN 3 Cowbell 1
_	59		REV SN 4
2	60	61	CGA Mute Hi CGA Mute Lo
	62		CGA Slap
	64	63	Conga Hi Conga Lo
	65	66	Timbale Timbale
	67		Agogo
	69	- 68	Agogo Cabasa Up
	71	70	Maracas
G	ļ		Cabasa Down Maracas Cut
O	72	73	808 Kick
	74	75	808 SNR 1 DIGI Bell 1
	76		808 SNR 1
	77	- 78	808 Kick Spectrum 1
	79	80	808 Kick
	81		Spectrum 1 808 Kick
	83	82	Spectrum 1 808 Kick
င္ပ	84		808 Kick
٠,	86	- 85	Feedbackwave 808 Kick
	88	87	Feedbackwave
			Pop Voice Pop Voice
	89	90	Wind Agogo
	91	- 92	Pop Voice Wind Agogo
	93		Open HAT 1
	95	94	Anklungs Open HAT 1
C7	96		Open HAT 1

	Preset A
	Tone Name
Bright k	(ick
Cross S	Stick 1
90's Sn 808 Cla	are
90's Sn	
Power	Tom Lo
Closed	
Power	Tom Lo
Closed	
Power	
Open H Power	
Power	Tom Hi
Crash 1	TOTAL
Power	
Ride 1	
Tin Way	
Ride Be	
Tambou	
Spectru Cowbei	
Crash 1	1 1
Crash 1	
Piccolo	SN
CGA M	ute Hi
CGA M	ute Lo
CGA SI	ap '
Conga	
Conga I Timbale	_0
Timbale	
Power 7	Tom Lo
LA Snai	re
Cabasa	
Maraca	<u>s</u>
Cabasa Cabasa	Down
Whack s	
Verb Kid	
Rim Sho	
Round k	(ick
808 Kicl	
Cabasa	Down
REV Ste	el DR
REV SN	i vvave
REVSN	
REV SN	3
Wind Ch	nimes
REV Kic	k
Anklung	S
Rattles	0 -11
REV Co	w dell
REV Co	mb nga
REV Ma	racas
REV Cra	ash 1
Steel Dr	ums
Wind Ag	ogo
Wind Ag	ogo

808 SNR 1

Preset B
Tone Name
Bright Kick
Cross Stick 1
Piccolo SN
808 Claps
LA Snare Power Tom Lo
Closed HAT 1
Power Tom Lo
Closed HAT 2
Power Tom Lo Open HAT 1
Power Tom Lo
Power Tom Hi
Crash 1
Power Tom Hi
Ride 1 Crash 1
Ride Bell 1
Crash 1
Crash 1
Crash 1 Cowbell 1
Crash 1
Cowbell 1 Crash 1
CGA Mute Hi
CGA Mute Hi Conga Hi
CGA Slap
Conga Lo
CGA Mute Lo Timbale
Timbale
Timbale
Timbale
Agogo
Agogo Cabasa Up
Cabasa Op Cabasa Down
Maracas
Cabasa Cut
Tambourine
Log Drum
DIGI Bell 1 DIGI Chime
Steei Drums
Anklungs
Wind Chimes
Rattles
Ronund Kick 808 Kick
808 Kick
808 SNR 1
REV TAMB
90's Snare
Closed HAT 1 Tin Wave
Spectrum 1
REV Steel DR
REV Tin Wave
REV SN 1
REV Crash 1
REV Cow Bell

		SANT LACES OF EXPERIENCE PROPERTY AND THE PROPERTY AND TH	Preset C
		Stockersprings among property	Tone Name
S	36	37	Bright Kick
	38	- 100	Cross Stick 1 90's Snare
	40	39	808 Claps
	41		90's Snare Power Tom Lo
		42	Closed HAT 1
	43	44	Power Tom Lo Closed HAT 2
	45		Power Tom Hi
	47	46	Open HAT 1 Power Tom Hi
င္ယ	48		Power Tom Hi
~	50	49	Crash 1 Power Tom Hi
	52	51	Ride 1
			Ride Bell 1 Ride Bell 1
	53	54	Tambourine
	55	- 56	Spectrum 1 Cowbell 1
	57		Crash 1
	59	58	Crash 1 Piccolo SN
\mathfrak{Q}	60		CGA Mute Hi
4		≱ 61	CGA Mute Lo
	62	- 68	CGA Slap Conga Hi
	64		Conga Lo
	65	_ 66	Timbale Timbale
	67		Cross Stick 1
	69	68	LA Snare Cabasa Up
	71	70	Maracas
			Cabasa Down Cabasa Cut
G	72	73	808 Kick
	74	7.5	808 Kick 808 SNR 1
	76		808 SNR 1
	77	€ 70	Wind Chimes
	79	7.8	Cabasa Down REV SN 1
	81	80	REV SN 3 REV Tom
		82	REV SN 2
	83		REV Cow Bell Wind Chimes
င္ပ	84	85	White Noise
	86	0.7	Anklungs
	88	87	Rattles Rattles
	89	8 OO	REV Crash 1 Cowbell 1
	91	90 	REV Maracas
	93	92	REV Crash 1
		94	90's Snare Wind Agogo
	95		Closed HAT 1
C7	96		808 SNR 1

Preset D
Tone Name
Verb Kick
Cross Stick 1
90's Snare
808 Claps Piccolo SN
Tom Lo
Closed HAT 1
Closed HAT 1 Power Tom Lo
Closed HAT 2
Tom Hi
Open HAT 1
Power Tom Lo Tom Hi
Crash 1
Power Tom Hi
Ride 1
Ride 2
Ride Bell 1
Tambourine
REV SN 2
Crash 1
Crash 1 LA Snare
REV SN 4
CGA Mute Hi
CGA Mute Lo
CGA Slap
CGA Slap Conga Hi Conga Lo
Timbale
Timbale
Agogo
Agogo
Cabasa Up
Maracas
Cabasa Down Cabasa Cut
Rattles
Wind Chimes
DIGI Bell 1
REV SN 3
808 Kick
Spectrum 1
808 SNR 1
Spectrum 1 808 Kick
Spectrum 1
Bright Kick
808 Kick
Round Kick
Whack Snare
Rim Shot
LA Snare Brush Slap
Pedal HAT 1
Brush Swish
Open Triangl
Brush Roll
Open Triangl
Conga Lo
Open HAT 1

JV - 80 Compatible Rhythm Set

			Preset a
			Tone Name
S	36	3.7	Bright Kick
	38	- 3.1	Cross Stick 1 90's Snare
	40	39	808 Claps
	41		90's Snare Power Tom Lo
	 	_ 42	Closed HAT 1 Power Tom Lo
	43	44	Closed HAT 2
	45	46	Power Tom Hi Open HAT 1
	47	30 0 HU	Power Tom Hi
င္သ	48	49	Power Tom Hi Crash 1
	50		Power Tom Hi
	52	51	Ride 1 Tin Wave
	53		Ride Bell 1
	 	54	Tambourine
	55	- 56	Spectrum 1 Cowbell 1
	57	58	Crash 1
	59	÷ 06	Crash 1 Piccolo SN
2	60		CGA Mute Hi
	62	OI	CGA Mute Lo CGA Slap
	64	63	Conga Hi
	65	···	Conga Lo Timbale
		66	Timbale
	67	- 68	Power Tom Lo LA Snare
	69	- ⊭ 70	Cabasa Up
	71	# 1/U	Maracas Cabasa Down
S	72	* 73	Maracas Cut Whack Snare
	74	/ J	Verb Kick
	76	75	Rim Shot
	77		Round Kick 808 Kick
		78	Cabasa Down
	79	- 80	REV Steel DR REV Tin Wave
	81	-1/4/00	REV SN 1
TO COMPANY	83	∌ 8∠	REV SN 2 REV SN 3
6	84		Wind Chimes
	86	85	REV Kick Anklungs
catherina	88	87	Rattles
orania men	89		REV Cow Bell REV TAMB
ernakun.		90	REV Conga
one o anale	91	- 92	REV Maracas REV Crash
- College Control	93		Steel Drum
diameter	95	94	Wind Agogo Wind Agogo
C7	96		808 SNR 1
1 3		L	

Preset b
Tone Name
Bright Kick
Cross Stick 1
Piccolo SN
808 Claps
LA Snare Power Tom Lo
Closed HAT 1
Power Tom Lo
Closed HAT 2
Closed HAT 2 Power Tom Lo
Open HAT 1
Power Tom Lo
Power Tom Hi
Crash 1 Power Tom Hi
Ride 1
Crash 1
Ride Bell 1
Crash 1
Crash 1
Cowbell 1 Crash 1
Cowbell 1
Crash 1
CGA Mute Hi
Conga Hi
CGA Slap
Conga Lo CGA Mute Lo
Timbale
Timbale
Timbale
Timbale
Agogo
Agogo Cabasa Up
Cabasa Op Cabasa Down
Maracas
Maracas Cut
Tambourine
Log Drum
DIGI Bell 1 DIGI Chime
Steel Drums
Ankiungs
Wind Chimes
Rattles
Ronund Kick
808 Kick
808 Kick 808 SNR 1
REV TAMB
90's Snare
Closed HAT 1
Tin Wave
Spectrum 1
REV Steel DR
REV Tin Wave REV SN 1
REV Crash 1
REV Cow Bell
LIFA OOM DOIL

- * To select the JV 80 compatible Presets a/b, hold down ENTER while you press PCM CARD (A/B).
- * Within the Patches, Performances, and Rhythm Sets at the JV 80 compatible preset memory (a/b), there are some which are identical to those stored in Preset Memory (A/B/C/D).

6. Blank Chart

[Performance]

Performance				Perform	ance			
Number				Name	21.00	-		
			COMIN	ON				
Key Mode				L/Z Record	/#4.S			
resymode				******				
				المستعدد				
	CHORUS					REVERB		
Туре				Туре				ķ1
Lavel				Level				
Rate				Time				
Depth				Feedback		·.		······································
Feedback						L		
Output								
			TRANSMI	FZANE	va - 150 (1646), ASSA F			
	2-1	* *************************************						
	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8 (R)
Key Range Lower								
Key Range Upper Transpose		 	**************************************					
Max Velocity								
Velocity Sense								
Velocity Curve			ty e in the					
Transmit Channel								
Program Change								
Transmit Volume								
Transmit Pan							ļ	
Transmit Switch					gwal gwyddiadau			
			INTERNAL	***************************************				
45	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8 (R)
Key Range Lower				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Key Range Upper								
Transpose Max Velocity		ļ					l	
Velocity Sense			~					
Velocity Curve		<u> </u>						
Local Switch		·						
	4		PAR	T - T				
	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8 (R)
Patch Select						,		
Part Level								
Part Pan								
Coarse Tune								
Fine Tune								
Receive Channel								
Voice Reserve								
Chorus Switch								
Reverb Switch								
Receive Program Change								
Receive Volume Receive Hold — 1								
Receive Switch								
COLUMN TO THE SECTION OF THE SECTION	3	!			L	<u></u>	<u> </u>	L
	T constant of the constant of	1						(40000000000000000000000000000000000000
Sequencer Mute Switch(*2)	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8 (R)

⁽ * 1): L/Z Record is a System Common parameter.

⁽ * 2): The setting for the Sequencer Mute switch cannot be made from the LCD screen (p. 25).

Rhythm Tone	7	P	h	V	îŀ	1	m	7	0	n	e	1	i i
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Assign Rey	

		Ea	ECT	
Dry Level				
Chorus Send Level	1 4 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Reverb Send Level	
		CON	TROL	
Bend Range	*		Env Mode	
Mute Group				
		WAV	E/LFO	Company Light Signature
Tone Switch				
Wave Group			Wave number	
		14. SE	rch	
Pitch Coarse	revestigned to the second of t		Pitch Envelope Depth	
Pitch Shift Fine			Velocity Level Sense	
Random Pitch Depth			Velocity Time Sense	
Pitch Envelope	T1	T2	T3	T4
	L1	L2	L3	L4
		Ţ	VE .	State of the state
Filter Type			TVF Envelope Depth	
Cutoff			Velocity Level Sense	
Resonance			Velocity Time Sense	
Resonance Mode				
TVF Envelope	T1	T2	Т3	T4
	L1	L2	L3	L4
		ing the second TV	//A	
Fone Level			Velocity Time Sense	
/elocity Level Sense			Panning Offset	
IVA Envelope	Ti	T2	Т3	T4
	L1	L2	L3	

[Patch]

Patch Number	Patch Name

								CON	OMN	V								
Pa	tch Level			ne Gelegiete bes	P	atch P	an					Velo	city A	ange 5	SW.			een zeeles elles
Ve	locity Range			Toi	1e 1		<u> </u>	To	ne 2				ne 3	- 3	T	То	ne 4	
10000000	wer – Upper			-	-				_				_		T			
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				Τοι	ne 1		l	A REAL PROPERTY.	ne 2			To	ne 3			To	ne 4	
Dr	y Level						I		-1									
	orus Send le	vei					 			***	_				†			
10000000	verb Send lev			·····							 				+			
	Туре						<u></u>			Туре			T					
	Level						*****		1.5	Level			I					
Chorus	Rate							·	T Š	Time			1			*********		
S.	Depth									Feedb	ack					**********		
U	Feedback					***************************************			Ana	log Fe	el Depti	1						
	Output												1	***************************************	***************************************			
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	nd Range Do	wn	1					·			о Туре							
	nd Range Up										o Time							
8877867				Tor	10 1			To	ne 2			To	ne 3			To	ne 4	
Vo	lume Contorc	ol SW		20000000000000000000000000000000000000	7.700000				77.00									
1000000	ild - 1 Contor														†			
Re	-Damp Conto	rol SW					İ				1	***************************************						
		Dest					<u> </u>	I	T	T	-	T	Ī .			<u> </u>	T	T
Mic	odulation	Depth		1					1	1	 	<u> </u>		<u> </u>	<u> </u>	 	 	
		Dest		İ		 		<u> </u>	1		 	<u> </u>	<u> </u>	†	 	 	 	ļ
Af	tertouch	Depth		†				<u> </u>	1	1	 	<u> </u>			 	 	 	-
		Dest			<u> </u>			1	1	1	1					 	1	
EX	pression	Depth							1	-	T .	<u> </u>		ļ	 	 	 	
								W/AW	ÉŒ	0								
30000				Tor	10 1			STATE OF THE PERSON NAMED IN	ne 2			To	ne 3			To	ne 4	
То	ne Switch			**********					,, -, -,		1							
*********	eve Group				····	············					+		·····		 			
	ave Number (i	dame)									1							
	M Switch										+							
FX	M Depth					***************************************					1	***************************************						·····
	Waveform			······														
	Syncro Swit	ch																
que.	Rate										1		************		1			
Q.	Wave Offset																******	
J	Delay Time																	
	Fade Mode												*****					
	Fade Time																	
	Waveform																	
	Syncro Swite	ch																
	Rate																	
Colons	Wave Offset																	
_	Delay Time														1			
	Fade Mode										1							
	Fade Time												·					
			PIT1		PIT2		PIT1		PIT2		PIT1		PIT2		PIT1		PIT2	
LF	O Depth		TVF1		TVF2		TVF1		TVF	2	TVF1		TVF2		TVF1		TVF2	
			TVA1		TVA2		TVA1		TVA:	2	TVA1		TVA2		TVA1		TVA2	

				PITCH				
		Tone 1		Tone 2		Tone 3		Tone 4
Coarse Tune								
Fine Tune						· · · · · · · · · · · · · · · · · · ·		
Random Pitch Depth								
Pitch Key Follow								
Pitch Envelope Depth								
Velocity Level Sens								
Velo Sense - T1								
Velo sense T4								······································
Time key Follow			<u> </u>					
	TI	Li	Ti	L1	Ti	Li	Tı	L1
54 1 P 1	T2	L2	T2	12	T2	L2	T2	L2
Pitch Envelope	Т3	L3	ТЗ	La l	Т3	L3	Т3	L3
	T4	L4	T4	LA	T4	LA	T4	14
				TIVE		35707335 V XX 0,00035		
and the article part of the		Tone 1		Tone 2		Tone 3		Tone 4
Filter Type		101101		TOILE E		TONG 3		10116-4
Cutoff	 				-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Resonance	<u> </u>			***************************************				
Resonance Mode			<u> </u>					
Cutoff Key Follow								
TVF Enviope Depth								
Velocity Curve Type					 			
Velo Env Level Sens					 			
Velo - T1					 			
Velo T4					 			
Time Key Follow								
ime key i onon	Ti	L1	Ti	L1	T1	l L1	Ti	L1
	T2	12	T2	L2	T2	L2	T2	L2
TVF Envelope	T3	L3	T3	La	T3	L3	T3	L3
	T4	LA	T4	L4	T4	L4	T4	L4
				F0000 TT. 700000		1-4		L-9
				TVA				
		Tone 1		Tone 2		Tone 3		Tone 4
Tone Level								
Level Key Follow								
Velocity Curve Type								
Velocity Level sens							···	
Panning								
Panning Key Follow								
Tone Delay Mode								· · · · · · · · · · · · · · · · · · ·
Tone Delay Time				·				
Velo Sense T1								· · · · · · · · · · · · · · · · · · ·
Velo Sense – T4								
Time Key Follow	-							
	T1	L1	T1	L1	T1	L1	T1	L1
TVA Envelope	T2	L2	T2	L2	T2	L2 "	T2	L2
. ver mit viego	ТЗ	L3	Т3	L3	ТЗ	L3	ТЗ	L3
	T4		T4		T4		T4	

[System Common]

			TUNE/F	UNCTION			美数用品的多数
Master Tune			Power Up Mo	ode		Scale Tun	e Switch
	Switch	Transpose		L	R		
Key Transpose			LCD Contras	t			:
			CONTRO	DL ASSIGN			
		Output		Assign			Polarity
Pedal 1							
pedal 2		***************************************					
C1 Slider							
Hold							
Aftertouch Threshold							
			Ņ	MDI			
	Local St	w Ctrl C	h Tx Ch			Fransmit	Receive
Patch				Program Chang	je		
Performance				Bank Select			
	Receive	Switch	Unit Number	Control Change	,		
System Exclusive				Volume			
				Bender			
				Modulation			
				Aftertouch			

[System Common]

Scale tune (Performance mode)												
	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8(R)				
Scale tune C												
Scale tune C#												
Scale tune D		e e						1				
Scale tune D#				<u> </u>								
Scale tune E												
Scale tune F												
Scale tune F#												
Scale tune G												
Scale tune G#												
Scale tune A												
Scale tune A#												
Scale tune B								<u> </u>				

Scale tune (Patch	mode)
Scale tune C	
Scale tune C#	
Scale tune D	
Scale tune D#	
Scale tune E	
Scale tune F	
Scale tune F#	
Scale tune G	
Scale tune G#	
Scale tune A	
Scale tune A#	
Scale tune B	

[V-EXP]

					P	ART	PARA	MET	ERS								
		Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8	Part 9	Part 10	Part 11	Part 12	Part 13	Part 14	Part 15	Part 16
	Bank																
Patch Select	P.C																
Part Level																	
Voice Reserve																	
Part Pan																	
Part Coarse Tune)							!				-					
Part Fine Tune																	
Cutoff Frequency	,																
Resonance																	
TVFTVA - Env A	tack																
TVF TVA - Env D	эсау																
TVF TVA - Env R	elease														•		
Reverb Send Dep	oth															<u> </u>	
Chorus Send De	oth																
Vibrate Rate																	
Vibrate Depth																	
Vibrate Delay																1	
						C	ONTI	ROL									
		Part 1	Pert 2	Part 3	Part 4	Part 6	Part 6	Pert 7	Part 9	Part 9	Part 10	Part 11	Part 12	Part 13	Part 14	Part 15	Pert 16
Key Assign			174.7		4												
Bender Range																	
Modulation Dept	n																
Velocity Sence D	epth																
Velocity Sence C	ffset																

[V - EXP System Common]

		TUNE/FU	JNC	TION			
Master Tune			М	ester Level			
Master Key - Shift			М	aster Pan			
	Switch	Transpose				L	R
Key Transpose		2	LC	D Contrast			
		335	ΞŒΙ				
Reverb Type				Chorus Type			
Character				Pre - LPF			
Pre-LPF				Levei			
Lavel Time			Chorus	Feedback			
# Time			ြင်	Delay		***************************************	
Feedback				Rate			
Send Level To Cho	rus	-		Depth			
				Send Level To Reve	rb		· · · · · · · · · · · · · · · · · · ·
		CONTRO	L AS	SIGN			
	Outp	ut		Assign		Pole	ırity
Pedal 1							
Pedal 2							
C1 Slider							200
Hold							
Aftertouch Threshold							
		MI	DI				
		Transmit			R	eceive	
Program Change							*
Control Change							
Volume							
Bender							
Modulation							
Aftertouch							

Roland Exclusive Messages

The Data Format for Exclusive Messages

Roland's MIDI implementation uses the following data format for all exclusive messages (type IV):

Byte	Description
F0H	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	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 version 1.0).

#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 02H 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:

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

#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

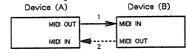
Address mapping is a technique for transferring messages conforming to the data format given in Section 1. It assigns a series of memory-resident records—waveform and tone data, switch status, and parameters, for example—to specific locations in a machine-dependent address space, thereby allowing access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

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 Diagram

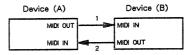


Connection at point 2 is essential for "Request data" procedures. (See Section 3.)

#Handshake-transfer procedure (This device does not cover this procedure)

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 Diagram



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.

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 Messages

Message	Command ID
Request data 1	RO1 (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
F0H	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
11H	Command ID
aaH : : ssH	Address MSB LSB 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 DTI 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-dependent order.

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 separate segments.

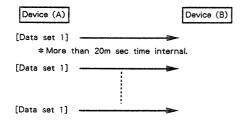
Byte	Description
FOH	Exclusive
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
12H	Command ID
aaH	Address MSB
ddH sum	Data Check sum
F7H	End of exclusive

- ^e 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

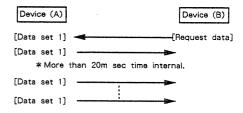
Device A sending data to Device B

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.



MIDI Implementation

Date . IVIAL 44 1330

Version: 1.00

Model JV-1000

1. RECEIVE DATA

選 Channel Voice Message

Mote off

<u>Status</u>	Second	Third
8nH	kkH	vvH
9nH	kkH	00H

n = MIDI channel number kk = Note number

: OH - FH (ch.1 - ch.16) :00H - 7FH (0 - 127)

vv = Velocity :00H - 7FH (0 - 127)

- * In the performance mode, ignored when the MIDI receive switch is OFF at
- * In the rhythm part (part8), ignored when "ENV mode" is "NO SUSTAIN" at each rhythm tone.

Mote on

Third Status Second 9nH vvH

n = MIDI channel number kk = Note number

: OH - FH (ch.1 - ch.16) :00H - 7FH (0 - 127)

vv = Velocity

:01H - 7FH (1 - 127)

* In the performance mode, ignored when the MIDI receive switch is OFF at

Control change

O Bank select MSB/LSB

<u>Status</u>	Second	Third
BnH	H00	mmH
BnH	20H	llH .

n = MIDI channel number : OH - FH (ch.1 - ch.16) mm = MSB of bank number : 50H - 54H (80 - 84) :00H - 7FH (0 - 127) II = LSB of bank number

- * The bank select is suspended until receiving a program change.
 * Ignored when "Program bank sel" of the system common is OFF.
- * In the patch mode, selected a bank of the patch memory. In the performance mode, selected a bank of the performance part memory. And specified the control channel, selected a bank of the performance itself.
- * The bank number specified as follow.

Bank Select | Program Change | Media (Patch Number)

 MSB	1	LSB	1				Ì								
80		0	1	1	-	64	1	internal	(#1	_	#64)	 	 	
80	1	0	1	65	-	128	1	Data Card	(#1	~	#64)			
81	ĺ	0	ì	1		64	1	JV-80 Preset A	A (#1	-	#64)			
81	1	0		65	-	128	1	JV-80 Preset B	В (#1	-	#64)			
81	1	1	ì	1	-	64	1	Preset A	(#1	-	#64)			
81		1	1	65	-	128	1	Preset B	(#1	-	#64)			
81	1	2	ĺ	1	-	64	1	Preset C	(#1	-	#64)			
81	1	2	1	65	-	128	1	Preset D	(#1	-	#64)			
82	ļ	0	İ	1	-	64	1	Data Card	(#1	-	#64)			
83	1	0	1	1	-	128	-	PCM Card	(#1	_	#128)			
84	1	0	1	1	_	128		Expansion Boar	rd (#1	-	#128)			
84	l	1	1	1	-	128	1	Expansion Boar	rd (#	129	-	#256)			

○ Modulation

Status Second Third 01H BnH vvH

n = MIDI channel number : OH - FH (ch.1 - ch.16) vv = Modulation depth :00H - 7FH (0 - 127)

- * The effect of the modulation depends on the value of "Mod1-4" of the
- * Ignored when "Receive Modulation" of the system common is OFF.

O Portamento time

Status Second Third BnH 05H vvH

n = MIDI channel number : OH - FH (ch.1 - ch.16) :00H - 7FH (0 - 127) vv = Portamento time

- * You can adjust the portamento time of the patch common.
- * Ignored when "Receive Control change" of the system common is OFF.

○ Volume

Status Second Third

: OH - FH (ch.1 - ch.16) n = MIDI channel number : 00H - 7FH (0 - 127)vv = Volume

- * You can adjust the volume of specified channel.
- * Ignored when "Receive Volume" of the system common is OFF.
- * In the performance mode, ignored when the volume receive switch is OFF at each part.
- * Ignored when "Volume switch" of the patch tone is OFF.

O Pan

Status Second Third BnH OAH vvH

: OH - FH (ch.1 - ch.16) n = MIDI channel number

- :00H 7FH (0 127) vv = Pan
- * "0" represents left end, "64" represents the center, and "127" represents right end.
- * Ignored when "Receive Control change" of the system common is OFF.

○ Expression

Status Second Third BnH vvH

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

- * The effect of the expression depends on the value of "Expl 4" of the patch
- * Ignored when "Receive Control change" of the system common is OFF.

O Moldt

Status Second Third BnH 40H vvH

n = MIDI channel number : 0H - FH (ch.1 - ch.16)

vv = Control value : 00H - 7FH (0 - 127) 0 - 63 = OFF 64 - 127 = ON

- * Notes played can be sustained for as long as the time that elapses between turning hold on and turning hold off.
- * Ignored when "Receive Control change" of the system common is OFF.
- * In the performance mode, ignored when the hold1 receive switch is OFF at each part.
- * In the rhythm part (part8), ignored when "ENV mode" is "NO SUSTAIN" at each rhythm tone.
- * Ignored when "Hold 1 switch" of patch tone is OFF.

O Portamento

Status Second Third BnH 41 H vvH

n = MIDI channel number : 0H - FH (ch.1 - ch.16)

: 00H - 7FH (0 - 127) 0 - 63 = OFF 64 - 127 = ONvv = Control value

- * Switched over "Portamento sw" of patch common.
- * Ignore when "Receive Control change" of the system common is OFF.

O Effect1 depth(Reverb send level)

Status Second Third BnH 5BH vvH

n = MIDI channel number : OH - FH (ch.1 - ch.16)

vv = Control value : 00H - 7FH (0 - 127) 0 - 63 = OFF 64 - 127 = ON

* In the patch mode, switched over the reverb switch of the system common.

* In the performance mode, switched over the reverb switch of the performance part.

And specified the control channel, switched over the reverb switch of the system common.

* Ignore when "Receive Control change" of the system common is OFF.

O Effect3 depth(Chorus send level)

Status Second Third 5DH BnH vvH

n = MIDI channel number

: 0H - FH (0 - 15) (ch.1 - ch.16)

vv = Control value : 00H - 7FH (0 - 127) 0 - 63 = OFF 64 - 127 = ON

* In the patch mode, switched over the chorus switch of the system common.

* In the performance mode, switched over the chorus switch of the performance part.

And specified the control channel, switched over the chorus switch of the system common.

* Ignored when "Receive Control change" of the system common is OFF.

ORPH MSB/LSB

Status Third Second BnH 65H mmH BnH 64H

n = MIDI channel number : OH - FH (ch.1 - ch.16) mm = MSB of the specified parameter by RPN II = LSB of the specified parameter by RPN

O Data entry MSB/LSB

Status Third Second BnH 06H mmH BnH 26H IIH

n = MIDI channel number :0H - FH (ch.1 - ch.16) mm = MSB of the value of the parameter specified with RPN II = LSB of the value of the parameter specified with RPN

* Ignored when "Receive Control change" of the system common is OFF.

本本 BPM 本本

RPN (registered parameter number) is a parameter number of tone color or musical expression defined in MIDI specification.

With the JV - 1000 as the receiver, RPN #0 (pitch bend sensitivity), RPN # 1 (fine tuning) and RPN #2 (coarse tuning) are effective. When sending an RPN to the JV-1000, first specify the MSB and LSB of the RPN to be used to control a parameter and then set the value in the data entry field.

RPN	Data	entry	Description
MSB LSB	MSB		
он оон	aeH		Pitch bend sensitivity mm : 00H - 0CH (0 - 12 semitone) 11 : ignored (Up to 1 octave) * You can adjust "Bend range up" and "Be range down" at same time. * In the rhythm part(part8), this messaage not recognized.
OOH OIH	on#	11H	Fine tuning mm, 11: 20H, 00H - 40H, 00H - 60H, 00H (-50 - 0 - +50 cent) # In the patch mode, adjusted the master tun # In the performance mode, adjusted fine tu at each part. # In the performance mode, specified contr channel, changed the master tune.
OOH 02H	和加計		Coarse tuning mm: 10H - 40H - 70H (-48 - 0 - +48 semitone) il: Ignored in the patch mode, this message is n recognized. in the performance mode, adjusted coar tune at each part.
7FH 7FH			RPN reset mm, 11 : ignored † Return to no specified parameter of RP

Status Second ppH

n = MIDI channel number : 0H - FH (ch.1 - ch.16)

pp = Program number :00H - 7FH (prog.1 - prog.128)

* Ignored when "Receive Program change" of the system common is OFF.

* When the JV - 1000 receives a program change on a part receive channel while in the performance mode, it changes the patches of that part: the new patch value being the program number plus 1. If the JV - 1000 receives the program change on the control channel, it changes the performance.

@ Channel pressure

Status Second DnH vvH

n = MIDI channel number : OH - FH (ch.1 - ch.16) : 00H - 7FH (0 - 127) vv = Pressure value

* The effect of the Channel pressure depends on the value of "After1 - 4" of the patch tone.

Ignored when "Receive Aftertouch" of the system common is OFF.

Pkch bend change

Status Second Third EnH ШH mmH

n = MIDI channel number :0H - FH (ch.1 - ch.16)

mm, II = Pitch bend change : 00H, 00H - 7FH, 7FH (-8192 - 0 - +8191)

* Ignored when "Receive Pitch bend" of the system common is OFF.

M Channel Mode Message

Reset All Controllers

Third Status Second 79H 00H BnH

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

* Received this message. The controllers is set the following.

Controller	Value
Modulation	0 (off)
Volume	127 (maximum)
Pan	64 (center)
Expression	0(off)
Hold1	0(off)
Channel pressure	0 (off)
Pitch bend change	±0 (center)
RPN	No specified parameter, value is no change.

Decai control

Third Status Second 7BH ννΗ BnH

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

vv = Value

: 00H, 7FH (0, 127) 0 = OFF 127 = ON

All notes off

Status Second BnH

Third

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

* When this message is recognized, all the notes which have been turned on by MIDI note on message are turned off.

OMNI OFF

Status BnH

Second 7CH

Third 00H

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

* Recognized as all notes off.

9 OMNI ON

Status RnH

Second 7DH

Third OOH

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

* Recognized as all notes off. (JV - 1000 doesn't recognize OMNI ON.)

9 MONO

Status BnH

Second 7EH

Third mmH

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

mm = Number of mono

: OH - FH (0 - 16)

* Switched over "Assign mode" of patch common.

* Recognized as all notes off, and set MODE4 (M = 1) at each part.

POLY

Status BnH

Second 7FH

Third

00H

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

* Switched over "Assign mode" of patch common.

* Recognized all notes off, and set MODE3 at each part.

System Resitime message

Active sensing

Status FEH

> * When JV - 1000 receive "active sensing", it measures time intervals between incoming messages. If the subsequent message will not come within about 300 ms after previous one, JV - 1000 turn off all MIDI - on notes as if it receive "reset all controllers", and stop measuring message interval.

System Exclusive Message

Data Status FOH iiH ddHeeH

F7H

FOH : System exclusive

ii = Manufacturer ID : 41H (65)

: 00H - 7FH (0 - 127) ddee = Data F7H : EOX (End of exclusive)

Ignored when "Receive Exclusive" of the system common is OFF. Refer to section 3, 4.

2. TRANSMIT DATA

Channel Voice Data

Mote off

Status Second Third 8nH kkH vvH

: 0H - FH (ch.1 - ch.16) n = MIDI channel number :00H - 7FH (0 - 127) :00H - 7FH (0 - 127) kk = Note number vv = Velocity

* In the performance mode, not transmit when the MIDI transmit switch is OFF at each part.

Mote on

Status Second Third vvH

n = MIDI channel number : 0H - FH (ch.1 - ch.16) :00H - 7FH (0 - 127) kk = Note number. :01H - 7FH (1 - 127) vv = Velocity

* In the performance mode, not transmit when the MIDI transmit switch is OFF at each part.

Control change

- * The function of the Modualtion lever is determined by control number 1 (modulation).
- * The function of the Hold pedal is determined by control number 64 (hold1).
- * Control numbers 0 95 can be assigned to Pedal1, Pedal2 and C1.

Status Second Third BnH ccH vvH

n = MIDI channel number :0H - FH (ch.1 - ch.16)

:0H - 3FH, 46H - 5FH (0 - 63, 70 - 95) cc = Control number

vv = Control value :00H - 7FH (0 - 127)

Control change messages will not be transmitted when the following parameter are set:

Control number	TRANSMIT MIDI
0, 32(Bank Select)	Bnk=OFF
1, 33(Modulation)	Mod=0FF
7, 39(Volume)	Vol=OFF
2 - 6, 8 - 31, 34 - 38, 40 - 95	C. C=OFF

Program change

Status

Second ppH

CnH

n = MIDI channel number pp = Program number

: 0H - FH (ch.1 - ch.16)

:00H - 7FH (prog.1 - prog.128)

* Not transmit when "Transmit Program change" of the system common is OFF.

Channel pressure

Status

Second

n = MIDI channel number

: OH - FH (ch.1 - ch.16)

vv = Value

:00H - 7FH (0 - 127)

*Not transmit when "Transmit Aftertouch" of the system common is OFF.

Pitch bend change

Status Second Third mmH

EnH

: 0H - FH (ch.1 - ch.16)

n = MIDI channel number mm.il = Value

:00H,00H - 7FH,7FH (-8192 - +8191)

* Not transmit when "Transmit Pitch bend" of the system common is OFF.

3 System Real Time Message

Active sensing

Status

FEH

* This message transmit at about 300 milli - seconds interval.

System Exclusive Message

Status FOH

Data

iiH ddHeeH

F7H

: System exclusive

ii = Manufacturer ID : 41H (65)

ddee = Data

: 00H - 7FH (0 - 127)

: EOX (End of exclusive)

Refer to section 3, 4.

3. Exclusive communications

The JV - 1000 can send and receive patch parameter, etc using the system exclusive message.

The model ID code of the JV - 1000 is 46H. The device ID code is to be determined by the unit number setting of MIDI function.

The JV - 1000 ignores GS exclusive messages other than scale tune parameter.

The model ID of the GS is 42H.

One way communication

Request data 1

RQ1 (11H)

Byte	Description
F0H	Exclusive status
41H	Manufacturer ID (Roland)
Dev	Device ID (Dev = UNIT # - 1)
46H	Model ID (JV - 1000)
11H	Command ID (RQ1)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
ssH	Size MSB
ttH	Size
uuH	Size
vvH	Size LSB
sum	Check sum
F7H	EOX (End of exclusive)

Receive only: the JV - 1000 does not send this message.

@ Data set 1 DT1 (12H)

1. JV - 1000 (MODEL ID = 46H)

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
Dev	Device ID (Dev = UNIT # - 1)
46H	Model ID (JV - 1000)
12H	Command ID (DT1)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
eeH	Data
:	:
ffH	Data
sum	Check sum
F7H	EOX (End of exclusive)

2. GS (MODEL ID = 42H)

FOH Exclusive status 41H Manufacturer ID (Roland) Dev Device ID (Dev = UNIT # - 1) 42H Model ID (GS) 12H Command ID (DT1) aaH Address MSB bbH Address ccH Address LSB eeH Data : : ffH Data sum Check sum F7H EOX (End of Exclusive)	Byte	Description
Dev Device ID (Dev = UNIT # - 1) 42H Model ID (GS) 12H Command ID (DT1) aaH Address MSB bbH Address ccH Address LSB eeH Data : : ffH Data sum Check sum	FOH	Exclusive status
42H Model ID (GS) 12H Command ID (DT1) aaH Address MSB bbH Address ccH Address LSB eeH Data : : ffH Data sum Check sum	41H	Manufacturer ID (Roland)
12H Command ID (DT1) aaH Address MSB bbH Address ccH Address LSB eeH Data : : ffH Data sum Check sum	Dev	Device ID (Dev = UNIT # - 1)
aaH Address MSB bbH Address ccH Address LSB eeH Data : : ffH Data sum Check sum	42H	Model ID (GS)
bbH Address ccH Address LSB eeH Data : : : ffH Data sum Check sum	12H	Command ID (DT1)
ccH Address LSB eeH Data : : ffH Data sum Check sum	aaH	Address MSB
eeH Data : : : ffH Data sum Check sum	bbH	Address
: : : ffH Data sum Check sum	ccH	Address LSB
ffH Data sum Check sum	eeH	Data
sum Check sum	:	:
	ffH	Data
F7H EOX (End of Exclusive)	sum	Check sum
	F7H	EOX (End of Exclusive)

Note: When the device ID is 7FH, JV - 1000 can receive the GS exclusive message even if the unit number is anything.

4. Parameter address map

Address and size are configured in 7 bits, and expressed in hexadecimal.

Address	MSB			LSB
Binary	Oaaa aaaa	0bbb bbbb	Occc cccc	Oddd dddd
7-bit hex	AA .	BB	CC	DD
Size	MSB			LSB
Binary	Osss ssss	Ottt tttt	0นนน นนนน	0000 0000
7-bit hex	SS	T T	UU	VV

Parameter base address

All data sent in exclusive message are given particular addresses to identify parameters. These addresses are the sum of the base address and offset address. Some parameters are defined using multiple offsets.

The address included in the message of a data set or a data request must be within the value shown in the table below.

Note: A pair of two addresses preceded by the symbol # represents a divided - by - two data. e.g. the data ABH (hex) is divided into OAH and OBH and sent in that order.

Note: Parameters associated with address following the symbol % are for JV $-\,880$ and invalid with the JV $-\,1000.$

Example of exclusive data

To set the reverb type of the temporary performance common to "DELAY", send the following data to the $JV-1000.\,$

FOH	41H	10H	46H	12H	H00	00H	10H	ODH	06H	5DH	F7H
1	2	3	4	5			6		7	8	9

- 1. Exclusive status
- Manufacturer ID: Roland = 41H.
- Device ID: the unit number of the system common parameter minus
 In this example, the unit number is 17: 17 1 = 16 which is expressed as 10H in hexadecimal notation.
- Model ID of the JV 1000 is 46H.
- 5. Command ID: data set 1 = 12H.
- 6. Addresses: by referring to Table 1, the start address of the temporary performance = 00H 00H 10H 00H; from Table 1 2, offset address of performance common = 00H 00H; from Table 1 2 1, offset address of reverb type = 0DH. These addresses are added together:

00H 00H 10H 0DH = target address

- 7. The number of "DELAY" is 6: 06H in hexadecimal.
- 8. Check sum

The error checking process uses a checksum and provides a bit pattern where the last significant 7 bits are zero, when values for an address, data (or size) and the checksum are summed.

End of exclusive

1 JV - 880

< MODEL ID = 46H >

+		+
Start		1
address	Description	- 1
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
00 00 00 00 0	System Common	*1-1
	***************************************	
	Temporary Performance	<b>#1-2</b>
	Performance Mode Temporary Patch (Part 1)	*1-3
00 01 20 00	Performance Mode Temporary Patch. (Part 2)	I
1 : 1	;	l
00 06 20 00	Performance Mode Temporary Patch (Part 7)	1
00 07 40 00 1	Temporary Rhythm Setup	*1-4 i
00 08 20 00	Patch Mode Temporary Patch	*1-3
01 00 10 00 1	Internal Performance 101	<b>#1-2</b>
01 01 10 00 1	Internal Performance 102	I
1 : 1	<b>;</b>	1
01 OF 10 00	Internal Performance   16	ı
01 40 20 00	Internal Patch   11	<b>\$1-3</b>
01 41 20 00	Internal Patch 112	ŀ
;	<b>:</b>	1
01 7F 20 00	Internal Patch 188	l
01 7F 40 00	Internal Rhythm Setup	\$1-4
02 00 10 00	Card Performance CO1	\$1-2
02 01 10 00	Card Performance CO2	l
1 :	:	
02 OF 10 00	Card Performance C16	1
02 40 20 00	Card Patch C11	<b>\$1-3</b>
02 41 20 00	Card Patch C12	1
:	:	į
02 7F 20 00	Card Patch C88	ļ
02 7F 40 00	Card Rhythm Setup	<b>\$1-4</b>
+		

1 – 1		System Common	
ffset address		Description	
00	0000 000	a   Panel mode	0 - 1
01	   Oaaa aaa	,	(PERFORMANCE, PATCH) 1 - 127
		·	(427.4 - 452.6)
			28 - 100 0 - 1
		- ,	0 - 1
04	1 0000 000		(OFF, ON)
05	. 0000 000		0 - 1
30	1	- ,	(OFF, ON)
06	0000 000	a   Hold polarity	0 - 1
			0 - 1
08	0000 00a	a   Pedal 1 mode	0 - 3
09	0aaa aaa	a   Pedal 1 assign	0 - 100
0A	0000 000	a   Pedal 2 polarity	0 - 1
OB	0000 00a	a i Pedal 2 mode	0 - 3
OC.	Oaaa aaa	a   Pedal 2 assign	0 - 100
		- ,	0 - 3
			0 - 100
0F	0aaa aaa +	a   Aftertouch threshold	0 - 127
	1	MIDI receive switch	
10	0000 000		0 - 1
	ļ		(OFF, ON)
11	0000 000	a   Control change	0 - 1
	1	1	(OFF, ON)
12	0000 000	a   Channel pressure	
			(OFF, ON)
13	0000 000		0 ~ 1
	1 0000 000		(OFF, ON)
14	0000 000		0 - 1
,,	1 0000 000	·	(OFF, ON)
15	0000 000		0 - 1 (OFF, ON)
16	0000 000		(Orr, ON) 0 - 1
10	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a i Dank Select	(OFF. ON)
	1	MIDI transmit switch	(OII, ON)
17	1 0000 000		0 - 1
	0000 000		
	0000 000		
	0000 000		0 - 1
ın	1 0000 000	a ; modatacion	0 1

10	1 0000 0000	Drogram chongs	0 1
10	1 0000 0008	Program change Bank select	0 - 1
10	0000 000a	Bank select	0 - 1
1E	0000 aaaa	Patch receive channel	0 - 15
	1	1	(1 - 16)
10		Dodah Americanis   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   Dodah   D	
		Patch transmit channel	
20	000a aaaa	Control channel	0 - 16
	1	1	(1 - 16, OFF)
21	1 0000 0002	Output mode	
41	1 0000 0002	i output mode	0 - 1
	1	I	(OUT2, OUT4)
22	0000 000a	Rhythm edit key	0 - 1
	1	1	(INT&MIDI, INT)
22	1 0000 0000	Scale tune switch	
40	1 0000 0000	, scare tune switch	0 - 1
	I	!	(OFF, ON)
24	Oaaa aaaa	Scale Tune Part1 C	0 - 127
	1	1 2	(-64 - +63)
25	1 :	: C#	( 01 100)
	:	: D	
27	1 :	l : D#	
28	1 :	: E	
29	1 :	1 : F	
	:	: F#	
2B	;	: G	
2C	1 :	† : G#	
2D	1 :	! : A	
	•		•
2E		1 : A#	
2F	:	: B	
	1	1	
30		Scale Tune Part2 C	0 - 127
50			
	!		(-64 - +63)
31	1 :	l : C#	
32	1 :	l : D	
33	-	l : D#	
34	1 :	: E	
35	1 :	! : F	
36	1 :	! : F#	
37		: G	
38		l : G#	
39	1 :	1 : A	
3A	1 :	1 : A#	
3B		: B	
		· •	
	1	1	
3C	0aaa aaaa	Scale Tune Part3 C	0 - 127
	1	1	(-64 - +63)
3D	:	: C#	( 00 .00)
3E	•	1 : D	
3F	1 :	! : D#	
40	1 :	1 : E	
41		·	
		! ; F	
42		: F#	
43	1 :	l: G	
44	1 :	! : G#	
45		i . A	
	•	· · · · · · · · · · · · · · · · · · ·	
46		: A#	
47		l : B	
AR	Maaa aaaa	Scale Tune Part4 C	0 = 197
10	i vada tada	Care fune fait4 C	0 - 127
		l	(-64 - +63)
49	:	: C#	
4A	1 :	l : D	
4B		: D#	
4C			
		: E	
4D		: F	
4E	:	: F#	
4F	:	: G	
50			
	:	: G#	
51	:	: A	
51   52		: A : A#	
52	; i	: A#	
52 53	; ;		
52 53	; ;	: A# : B	
52 53	; ;	: A#	0 - 127
52 53	; ;	: A# : B	
52   53   54	: : 0aaa aaaa	: A# : B Scale Tune Part5 C	0 - 127 (-64 - +63)
52   53   54   55	: : 0aaa aaaa :	: A# : B Scale Tune Part5 C : C#	
52   53   54   55   56	: : 0aaa aaaa   : :	: A# : B Scale Tune Part5 C : C# : D	
52   53   54   55   56   57	: : 0aaa aaaa : : :	: A# : B Scale Tune Part5 C : C#	
52   53   54   55   56	: : 0aaa aaaa : : :	: A# : B  Scale Tune Part5 C : C# : D : D#	
52   53   54   55   56   57   58	0aaa aaaa   : : : : :	: A# : B  Scale Tune Part5 C : C# : D : D# : E	
52   53   54   55   56   57   58   59	0aaa aaaa   : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F	
52   53   54   55   56   57   58   59   5A	: : : 0aaa aaaa : : : : : : :	: A# : B  Scale Tune Part5 C : C# : D : D# : E	
52   53   54   55   56   57   58   59	: : : 0aaa aaaa : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F	
52   53   1   54   1   55   1   56   1   57   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1   58   1	: : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : F : G	
52   53   54   55   56   57   58   59   54   58   58   58	: : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : G : G#	
52   53   1   54   1   55   1   56   1   57   1   58   1   58   1   56   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1	: : : : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : G : G# : A	
52   53   54   55   56   57   58   59   54   58   58   58	: : : : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : G : G#	
52   53   1   54   1   55   1   56   1   57   1   58   1   58   1   56   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1   50   1	: : : : : : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : G : G# : A	
52   53   6   54   6   6   6   6   6   6   6   6   6	: : : : : : : : : : : : : : : : : : :	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : G : G# : A : A#	
52   53   54   55   56   57   58   59   56   57   58   50   50   50   55   55   55   55	.: .: 0aaa aaaa   .: .: .: .: .: .: .: .: .: .: .: .: .:	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : F : G : G# : A : A# : B	(-64 - +63)
52   53   60   52   53   54   55   56   57   58   55   56   57   58   55   55   56   56   56   56   56	0aaa aaaa	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : F : G : G# : A : A# : B	(-64 - +63) 0 - 127
52   53   54   55   56   57   58   59   56   57   58   50   50   50   55   55   55   55	0aaa aaaa	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : F : G : G# : A : A# : B	(-64 - +63)
52   53   54   55   56   57   58   56   57   58   50   55   56   57   56   56   57   56   56	0aaa aaaa	: A# : B  Scale Tune Part5 C  : C# : D : D# : E : F : F : G : G# : A : A# : B	(-64 - +63) 0 - 127

1	62	1 :	1 :	D	
1	63	1 :	1 :	D#	
1	64	_	1 :	E	
Í	65			F	
i	66	•	i :	F#	
i	67		, . I :	G	
i	68			G#	
1	69				
!	6A			A.	
1			:	A#	
1	6B		:	В	
1			]   01- <b>T</b> - T - T		
1			Scale Tune Part7	Ç	0 - 127
1			1		(-64 - +63)
1	6D			C#	
1	6E			D	•
!	6F			D#	
1	70		:	E	
1	71		l :	F	
1	72	:	:	F#	
1	73	! : !	:	G	
1	74	: !	:	G#	
1	75	:	:	A	
1	76	: 1	:	A#	
1	77	: 1	:	В	
1	i	i		_	
İ			Scale Tune Part8	С	0 - 127
1	1			•	(-64 - +63)
		: 1		C#	( 04 100)
i	7A			D	
í	7B			D#	
ì	7C	,		E E	
i	7D			F	
t f	7E	. ,	· · · · · · · · · · · · · · · · · · ·	r F#	
1	7F				
1 01				G C"	
	00			G#	
	01			A	
	02			A#	
	03		:	В	
1	. !				1
			Scale Tune Patch	С	
	1				(-64 - +63)
	05	-	:	C#	1
	06		;	D	
	07	: 1	:	D#	1
01	08	: 1	:	E	1
01	09 j	: 1	:	F	١
01	OA i	: 1	:	F#	I
01	0B	: 1	:	G	1
01	0C	: 1	:	G#	·
01	0D	: 1	:	A	i
01	0E	: 1		A#	!
	OF !	: 1		В	
	+-				
Total Siz	ze	00 00 01 10			i

1 – 2 Perform	ance
Offset	
address	Description
00 00   Performance Common	1-2-1
08 00   Performance Part 1	1-2-2
09 00   Performance Part 2	
OA 00   Performance Part 3	
OB 00   Performance Part 4	
OC 00   Performance Part 5	
OD OO   Performance Part 6	
OE 00   Performance Part 7	
OF 00   Performance Part 8	

-2-1		Performance Comm	ton
Offset address		Descrip	otion
		Performance name 1	
01	Oaaa aaaa	Performance name 2	32 - 127
:	:	:	00 104
		Performance name 12	0 - 2
00	0000 0088	Key mode	
dD.	0000 0aaa	Reverb type	0 - 7
	1100 1444	• • • • • • • • • • • • • • • • • • • •	NOOM1, ROOM2, STAGE1, STAGE2,
		H	IALLI, HALLZ, DELAY, PAN-DLY)
30	Oaaa aaaa	Reverb level	0 - 127
OF	Oaaa aaaa	Reverb time	0 - 127
10	0aaa aaaa	Reverb feedback	0 - 127
11	0000 00aa	Chorus type	0 - 2
			(CHORUS1, CHORUS2, CHORUS3)
12	Oaaa aaaa	Chorus level	0 - 127
13	Oaaa aaaa	Chorus depth	0 - 127
14	Oaaa aaaa	Chorus rate	0 - 127
		Chorus feedback	0 - 127
16	0000 000a	Chorus output	0 - 1
		 	(MIX, REV)
17	000a aaaa	Part 1 Voice reserve	0 - 28
18	000a aaaa	Part 2 Voice reserve	0 - 28
:	:	l :	
1E	000a aaaa	Part 8 Voice reserve	0 - 28

The values set for Voice Reserve for all Parts combined must add up to 28 (or less).

| Total Size | 00 00 00 1F

1-2-2		Performance Part	
Offset	 		
address	1	Description	1
00		Transmit switch	0 - 1
•			0 - 15
	0000 aaaa 1	Transmit program change	0 - 128
•		Transmit volume	0 - 129
	0000 aaaa 1		0. 120
•		Transmit pan	0 - 128
* **	0000 aaaa 1	•	0 - 120
*		Transmit key range lower	0 - 127
-		Transmit key range upper	· ·
		Transmit key transpose	
		Transmit velocity sense	
		Transmit velocity max	
		Transmit velocity curve	
1 0E	0000 000a	Internal switch	0 - 1
) OF	0aaa aaaa 1	internal key range lower	0 - 127
10	0aaa aaaa	internal key range upper	0 - 127
11	Oaaa aaaa	internal key transpose	28 - 100
12	Oaaa aaaa	Internal velocity sense	1 - 127
13	Oaaa aaaa	Internal velocity max	0 - 127
14	0000 0aaa	internal velocity curve	0 - 6
15	0000 0000	Receive switch	0 - 1
10	1	nederve Burton	(OFF, ON)
1 16	0000 2222	Receive channel	0 - 15
, 10	1	NOOTTO CHAMIST	(1 - 16)
i# 17	0000 2222	Patch number	0 - 255
	0000 bbbb		54, A01 - A64, B01 - B64)
		Part level	0 - 127
•	Oaaa aaaa		0 - 127
1		l luit pui	(L64 - 63R)
1 1R	0222 2222	Part coarse tune	16 - 112
1	l Jaga Bada		(-48 - +48)
10	Daga agga	Part fine tune	14 - 114
1			(-50 - +50)
10	0000 000a	Reverb switch	0 - 1
i	1		(OFF, ON)
1 1E	0000 000a	Chorus switch	0 - 1
1	1		(OFF, ON)
1F	0000 000a	Receive program change	0 - 1
i	1		(OFF, ON)
20	0000 000a	Receive volume	0 - 1
1	1		(OFF, ON)

1	21	0000 000a   F	Receive hold-1	0 - 1	1
1		1		(OFF, ON)	1
1%	22	0000 00aa   0	Output select	0 - 2	1
1		1		(MN, SB, PAT)	ĺ
1	23	0000 00aa   F	Patch media	0 - 3	
1				(BASIC, PRESET, EXP, PCM	) [
1	24	0000 000a   S	Sequencer switch	0 - 1	
İ		1		(ON, OFF)	1
					-1
Total	Size	00 00 00 25			

Note: The values of the transmit key range upper must be greater than or equal to the values of the transmit key range lower.

Note: The values of the internal key range upper must be greater than or equal to the values of the internal key range lower.

*1-3	Patch	
Offset	Perceintion	
address	Description	
00 00	)   Patch Common	1-3-1
08 00	Patch Tone 1	1-3-2
09 00	Patch Tone 2	1
0A 00	Patch Tone 3	1
1 OB 00	)   Patch Tone 4	i
		+

*1-3-1		Patch Common	1
Offset			
address		Desc	ription
00	Oaaa aaaa i	Patch name 1	32 - 127
		Patch name 2	32 - 127
:			32 - 127
		Patch name 12 Velocity switch	0 - 1
1	.	verousty switch	(OFF, ON)
0D	0000 0aaa	Reverb type	0 - 7
· ·	1		(ROOM1, ROOM2, STAGE1, STAGE2,
1	l		HALLI, HALL2, DELAY, PAN-DLY)
		Reverb level	0 - 127
		Reverb time	0 - 127
10	Oaaa aaaa	Delay feedback	0 - 127
11	0000 00aa	Chorus type	0 - 2
i	i		(CHORUS1, CHORUS2, CHORUS3)
12	Oaaa aaaa i	Chorus level	0 - 127
13	Oaaa aaaa l	Chorus depth	0 - 127
14	Oaaa aaaa	Chorus rate	0 - 127
15	Oasa aasa	Chorus feedback	0 - 127
16	0000 000a	Chorus output	0 - 1
1		l	(MIX. REV)
17	Oaaa aaaa	Analog feel	0 - 127
18	Oaaa aaaa	Patch level	0 - 127
19	Oaaa aaaa	Patch pan	0 - 127
			(L64 - 63R)
1A I	Oaaa aaaa	Bender range down	16 - 64
			(-48 - 0)
,		Bender range up	0 - 12
1C !	0000 000a	Key assign	0 - 1
 			(POLY, SOLO)
10 1	0000 000a	Solo legato	0 - 1
		 	(OFF, ON)
1E	0000 000a	Portamento switch	0 - 1
, , , , , , , , , , , , , , , , , , ,	0000 000-	   Dttdo	(OFF, ON)
; 1F !	uuuu uuda	Portamento mode	0 - 1 (LEGATO, NORMAL)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0000 000-	l Bortomonto turo	0 - 1
1 20 1	BUUU UUUB	Portamento type	(TIME, RATE)
i 21	Oaaa aaaa	Portamento time	0 - 127

1-3-2		Patch Tone			! 1C	0000	aaaa	Expression 2 destinatio	
ffset address	 	Description	)	†   		1		LEVEL	PITCH, CUTOFF, RESONANCE, , PITCH LFO1, PITCH LFO2, FO1, TVF LFO2, TVA LFO1,
00	0000 00aa	Wave group	0 - 2	1	   11	   Daga	   aaaa		FO2, LF01 RATE, LF02 RATE 1 - 127
	   0000 sasa		(INT, EXP, PCM) 0 - 254	1	1	1	1	•	(-63 - +63)
	0000 bbbb		(1 - 255) 0 - 1	1	i i	0000	aaaa I		n 0 - 12 PITCH, CUTOFF, RESONANCE, , PITCH LF01, PITCH LF02,
04	   0000 000a	   FXM switch	(OFF, ON) 0 - 1				1	TVA L	FO1, TVF LFO2, TVA LFO1, FO2, LFO1 RATE, LFO2 RATE
05	0000 aaaa	   FXM depth 	(OFF, ON) 0 - 15 (1 - 16)	# f	1	1	1	Expression 3 depth  Expression 4 destination	1 - 127 (-63 - +63)
	, 	†		!	1				PITCH, CUTOFF, RESONANCE,
		Velocity range lower   Velocity range upper	0 - 127 0 - 127	 	1	1	1	TVF L	PITCH LFO1, PITCH LFO2, FO1, TVF LFO2, TVA LFO1, FO2, LFO1 RATE, LFO2 RATE
		Volume switch	0 - 1 (OFF, ON)	[ 	21	0aaa a	aaaa		1 - 127 (-63 - +63)
		Hold-1 switch	0 - 1 (OFF, ON)	 	22	0000	+- 0aaa	LFO-1 form	0 - 5
OA	0000 aaaa	Modulation 1 destination   OFF, Pl	0 - 12 TCH, CUTOFF, RESONANCE,	! 	1 23	0000	0aaa	(TRI, S	SIN, SAW, SQR, RND1, RND2 O - 4
		TVF LFC	PITCH LFO1, PITCH LFO2, 1, TVF LFO2, TVA LFO1,	į	1 24	1 0000 (	   000a	LFO-1 synchro	(-100, -50, 0, +50, +100) 0 - 1
OB I	Oaaa aaaa	TVA LFC   Modulation 1 depth	2, LF01 RATE, LF02 RATE) 1 - 127		25	l Daaa a	l Rana	LFO-1 rate	(OFF, ON) O - 127
00	0000		(-63 - +63)		i# 26	0000 a	aaaa	LFO-1 delay	0 - 128
DC	0000 aaaa		TCH, CUTOFF, RESONANCE,			0000 0		LFO-1 fade polarity	(0 - 127, KEY-OFF) 0 - 1
1		·	PITCH LFO1, PITCH LFO2, 1, TVF LFO2, TVA LFO1,		1 29	l Oana a	aaaa	LFO-1 fade time	(IN, OUT) 0 - 127
   an	0999 9999		2, LF01 RATE, LF02 RATE) 1 - 127	  -				LFO-1 pitch depth	1 - 127
1		   Modulation 3 destination	(-63 - +63)		i 2B	0aaa a	aaaa	LFO-1 TVF depth	(-63 - +63) 1 - 127 (-63 - +63)
1		OFF, PI	TCH, CUTOFF, RESONANCE, PITCH LFO1, PITCH LFO2,		2C	0aaa a	aaaa	LFO-1 TVA depth	(-63 - +63) 1 - 127 (-63 - +63)
İ		TVF LF0	1. TVF LFO2, TVA LFO1, 2. LFO1 RATE, LFO2 RATE)	l	2D	   0000 0	aaa	LFO-2 form	0 - 5 IN, SAW, SQR, RND1, RND2)
0F	Oaaa aaaa		1 - 127 (-63 - +63)		2E	0000 0		LFO-2 offset	0 - 4 (-100, -50, 0, +50, +100)
10	0000 aaaa	Modulation 4 destination (OFF, Pi			2F	0000 0	000a	LFO-2 synchro	0 - 1 (OFF, ON)
1		LEVEL,	PITCH LFO1, PITCH LFO2,					LFO-2 rate	0 - 127
,			1, TVF LFO2, TVA LFO1, 2, LFO1 RATE, LFO2 RATE)		(# 31 I	0000 a   0000 b		LFO-2 delay	0 - 128 (0 - 127, KEY-OFF)
11	Oaaa aaaa		1 - 127 (-63 - +63)		33	•		LFO-2 fade polarity	0 - 1 (IN, OUT)
12	0000 aaaa	Aftertouch 1 destination		i				LFO-2 fade time	0 - 127
1		LEVEL.	FCH, CUTOFF, RESONANCE,   PITCH LFO1, PITCH LFO2,   1, TVF LFO2, TVA LFO1,			l	- 1	LFO-2 pitch depth LFO-2 TVF depth	1 - 124 (-63 - +63) 1 - 127
13	Oaaa aaaa		2, LF01 RATE, LF02 RATE)	! !			1	LFO-2 TVA depth	(-63 - +63) 1 - 127
14	0000 aaaa 1	Aftertouch 2 destination	(-63 - +63) 0 - 12	1					(-63 - +63)
1	1		TCH, CUTOFF, RESONANCE,   PITCH LFO1, PITCH LFO2,	1	38	0aaa a 	aaa	oitch coarse	16 - 112 (-48 - +48)
1		TVA LFO	l, TVF LF02, TVA LF01,   2. LF01 RATE, LF02 RATE)	1	39	0aaa a	888	Pitch fine	14 - 114 (-50 - +50)
15	Oaaa aaaa	Aftertouch 2 depth	1 - 127 (-63 - +63)	1	3A	0000 a	aaa	Random pitch (0. 5. 10.	0 - 15 20, 30, 40, 50, 70, 100,
16 [	0000 aaaa		CH, CUTOFF, RESONANCE,	1	3B	0000 a	aaa   i	200, 300, Pitch key follow	400, 500, 600, 800, 1200) 0 - 15
1	1	TVF LF01	TITCH LFO1, PITCH LFO2,   , TVF LFO2, TVA LFO1,	! !				+40, +50, +70	0, -10, 0, +10, +20, +30, +100, +120, +150, +200)
17	Oaaa aaaa	Aftertouch 3 depth	1 - 127	1	j		1	-ENV velocity sense	1 - 127 (-63 - +63)
18	0000 aaaa	Aftertouch 4 destination	(-63 - +63)   0 - 12   CH, CUTOFF, RESONANCE,		3D   	0000 a	aaa   1		0 - 14 040, -30, -20, -10, 0, +30, +40, +50, +70, +100)
1	1	LEVEL, F TVF LFOI	TTCH LF01, PITCH LF02,   , TVF LF02, TVA LF01,	1	3E	0000 a	aaa   1	-ENV T4 velocity	0 - 14 0, -40, -30, -20, -10, 0,
19	Oaaa aaaa	Aftertouch 4 depth	. LF01 RATE, LF02 RATE)  1 - 127		3F	0000 a	aaa   I		+30, +40, +50, +70, +100) 0 - 14
1A	   0000 aaaa	Expression 1 destination						+10, +20,	), -40, -30, -20, -10, 0, +30, +40, +50, +70, +100)
1	!	LEVEL, P	CH, CUTOFF, RESONANCE,   ITCH LFO1, PITCH LFO2,   TVF LFO2, TVA LFO1,	1	!		1	-ENV depth	52 - 76 (-12 - +12)
İ	-	TVA LF02	, LFO1 RATE, LFO2 RATE)!					-ENV time 1 -ENV level 1	0 - 127 1 - 127
15 1	Nega agaa l	Expression 1 depth	1 - 127	1	1		- 1		(-63 - +63)

44	1 Oaaa aaaa	P-ENV level 2	1 - 127
45	1 0000 0000	P-ENV time 3	(-63 - +63) 0 - 127
		P-ENV level 3	1 - 127
-			(-63 - +63)
		P-ENV time 4	0 - 127
48	Daaa aaaa	P-ENV level 4	1 - 127
	 -+	 +	(-63 - +63)
49	0000 00aa	TVF mode	0 - 2
	1	1	(OFF, LPF, HPF)
		Cutoff frequency	0 - 127
	0aaa aaaa		0 - 127
40	0000 000a	Resonance mode	0 - 1 (SOFT, HARD)
4D	0000 aaaa	TVF key follow	0 - 15
	1	(-100, -70, -50, -3	10, -10, 0, +10, +20, +30,
457	1 0000 0000		), +100, +120, +150, +200)
46	1 0000 0444	TVF-ENV velocity curve	0 - 6 (1 - 7)
4F	Oaaa aaaa	TVF-ENV velocity sense	
	1	1	(-63 +63)
50	0000 aaaa	•	0 - 14
	1		60, -40, -30, -20, -10, 0, +30, +40, +50, +70, +100)
51	0000 aaaa	TVF-ENV T4 velocity	
	1	(-100, -70, -5	i0, -40, -30, -20, -10, 0,
	1 0000		+30, +40, +50, +70, +100)
52	0000 aaaa	TVF-ENV time key follow	0 - 14 i0, -40, -30, -20, -10, 0,
	1		+30, +40, +50, +70, +100)
53	Oaaa aaaa	TVF-ENV depth	1 - 127
	1	1	(-63 - +63)
		TVF-ENV time 1	0 - 127
		TVF-ENV level 1   TVF-ENV time 2	0 - 127 0 - 127
		TVF-ENV level 2	0 - 127
58	0aaa aaaa	TVF-ENV time 3	0 - 127
		TVF-ENV level 3	0 - 127
		TVF-ENV time 4   TVF-ENV level 4	0 - 127 0 - 127
	-+	}	
5C	0aaa aaaa	Level	0 - 127
5D	0000 aaaa	TVA key follow	0 - 14
	1		10, -40, -30, -20, -10, 0,
# 5E	0000 aaaa		+30, +40, +50, +70, +100) 0 - 128
	0000 bbbb	l	(L64 - 63R, RND)
60	0000 aaaa	Panning key follow	0 - 14
			0, -40, -30, -20, -10, 0,
61	0000 00aa	TVA delay mode	+30, +40, +50, +70, +100) 0 - 2
•			(NORMAL, HOLD, PLAY-MATE)
# 62	0000 aaaa	TVA delay time	0 - 128
	0000 bbbb		(0 - 127, KEY-OFF)
54	0000 0aaa	TVA-ENV velocity curve	0 - 6 (1 - 7)
65	Daaa aaaa	TVA-ENV velocity sense	
	1	1	(-63 - +63)
66	0000 aaaa	TVA-ENV T1 velocity	
	1		0, -40, -30, -20, -10, 0,
67	1 0000 aaaa	TVA-ENV T4 velocity	+30, +40, +50, +70, +100)
٠.			0, -40, -30, -20, -10, 0,
	1		+30, +40, +50, +70, +100)
68	0000 aaaa	TVA-ENV time key follow	0 - 14
	1		0, -40, -30, -20, -10, 0,
03	l Nasa sasa	+10, +20, TVA-ENV time 1	+30, +40, +50, +70, +100) 0 - 127
		TVA-ENV level 1	0 - 127
6B	Oaaa aaaa	TVA-ENV time 2	0 - 127
		TVA-ENV level 2	0 - 127
		TVA-ENV time 3	0 - 127 0 - 127 0 - 127
		TVA-ENV level 3	0 - 127 0 - 127
70	l Oaaa aaaa	Dry level	0 - 127
			0 - 127
		Chorus send level	0 - 127
% 73	1 0000 0002	Output select	0 - 1 (MAIN, SUB)
74	0000 000a	Redamper switch	0 - 1
	1		(OFF, ON)
	+		
Total Size	00 00 00 7	5	
			~~~~~

Note: The values of the velocity range upper must be greater than or equal to the values of the velocity range lower.

*1-4 Rhythm Setup

	* - 4	Hnythm Setup
	Offset	
i		·
. !	00 00	Rhythm Note for Key# 36 (C 2) 1-4-1
	01 00	: 37 (C#2)
1	02 00	: 38 (D 2)
1	03 00	: 39 (D#2)
ļ	04 00	: 40 (E 2)
-	05 00	
-	06 00	
	07 00	
	08 00	•
	09 00	
	0A 00	: 46 (A#2)
	0B 00	
1	0C 00 0D 00	
	0E 00	
	0F 00	
i	10 00	: 52 (E 3)
i	11 00	
	12 00	: 54 (F#3)
i	13 00	
ĺ	14 00	• • • •
i	15 00	
ı	16 00	: 58 (A#3)
1	17 00	: 59 (B 3)
ı	18 00	: 60 (C 4)
I	19 00	: 61 (C#4)
-	1A 00	: 62 (D 4)
ł	1B 00	: 63 (D#4)
ļ	1C 00	
i	1D 00	
Ì	1E 00	
	1F 00	•
	20 00	
	21 00	· · · · · · · · · · · · · · · · · · ·
1	22 00	
	23 00 24 00	: 71 (B 4) : 72 (C 5)
i	25 00	: 73 (C#5)
i	25 00	: 74 (D 5)
i	27 00	75 (D#5)
i	28 00	: 76 (E 5)
i	29 00	i_ i_
1	2A 00	
1	2B 00	
1	2C 00	: 80 (G#5)
-	2D 00	: 81 (A 5)
1	2E 00	: 82 (A#5)
	2F 00	: 83 (B 5)
1	30 00 1	: 84 (C 6)
-	31 00	: 85 (C#6)
	32 00	: 86 (D 6)
1	33 00	
-	34 00	• • •
-	35 00	
	36 00	
-	37 00	
	38 00	
1	39 00	
1	3A 00	
1	3B 00	
1	3C 00	: 96 (C 7)
т		

*1-4-1 Rhythm Note

-	Offset address	 	Description
1	00	0000 00aa Wave group	0 - 2 (INT, EXP, PCM)
1		0000 aaaa Wave number	0 - 254 (1 - 255)
	03	0000 000a Tone switch	0 - 1 (OFF, ON)
1	04	Oaaa aaaa Coarse tune	0 - 127 $(C-1 - 69)$

05 000a aaaa Mute group	
(NO-SUSTAIN, S 	
07 0aaa aaaa Pitch fine	TOTAL TUD
(-50 - +50)	USTAIN)
08 0000 aaaa Random nitch 0 - 15	
	70 100
(0, 5, 10, 20, 30, 40, 50, 1) (200, 300, 400, 500, 600, 8)	
09 0000 aaaa Bender range 0 - 12	200,
0A Oaaa aaaa P-ENV velocity sense 1 - 127	
(-63 - +63)	
0B 0000 aaaa P-ENV time velocity sense 0 - 14 (-100, -70, -50, -40, -30, -20,	-10 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0C Oaaa aaaa P-ENV depth 52 - 76	
(-12 - +12)	
0D 0aaa aaaa P-ENV time 1	
0E 0aaa aaaa P-ENV level 1	
OF Oaaa aaaa P-ENV time 2	
10 0aaa aaaa P-ENV level 2 1 - 127	İ
(-63 - +63)	!
11 0aaa aaaa P-ENV time 3	İ
(-63 - +63)	
13 Oaaa aaaa P-ENV time 4 0 - 127	İ
14 0aaa aaaa P-ENV level 4	
(-63 - +63)	
15 0000 00aa TVF mode 0 - 2	
(OFF, LPF, HPF)	
16 Oaaa aaaa Cutoff frequency 0 - 127	l
17 0aaa aaaa Resonance 0 - 127	1
18 0000 000a Resonance mode	
Sori, HARD) 19 Oaaa aaaa TVF-ENV velocity sense 1 - 127	i
(-63 - +63)	i
1A 0000 aaaa TVF-ENV time velocity sense 0 - 14	!
(-100, -70, -50, -40, -30, -20, +10, +20, +30, +40, +50, +7	
1B Oaaa aaaa TVF-ENV depth 1 - 127	.u, (100);
(-63 - +63)	i
1C Qaaa aaaa TVF-ENV time 1	1
1D Oaaa aaaa TVF-ENV level 1]
1E 0aaa aaaa TVF-ENV time 2	1
20 Oaaa aaaa TVF-ENV time 3	i
! 21 Oaaa aaaa TYF-ENV level 3 0 - 127	- 1
22 Oaaa aaaa TVF-ENV time 4	!
23 Oaaa aaaa TVF-ENV level 4	I
24 Oana aana Level 0 - 127	-1
# 25 0000 aaaa Pan 0 - 128	i
0000 bbbb (L64 - 63R, RND) !
27 0aaa aaaa TVA-ENV velocity sense	1
28 0000 aaaa TVA-ENV time velocity sense 0 - 14	1
(-100, -70, -50, -40, -30, -20,	
+10, +20, +30, +40, +50, +7	0, +100)
29 0aaa aaaa TVA-ENV time 1	1
2A 0aaa aaaa TVA-ENV level 1 0 - 127 2B 0aaa aaaa TVA-ENV time 2 0 - 127	1
2C Oaaa aaaa TVA-ENV level 2	1
2D Oaaa aaaa TVA-ENV time 3	i
2E 0aaa aaaa TVA-ENV level 3 0 - 127	ı
2F 0aaa aaaa TVA-ENV time 4	
30 0aaa aaaa Dry level 0 - 127	
31 Oana aana Reverb send level 0 - 127	i
32 Oaaa aaaa Chorus send level 0 - 127	1
% 33 0000 000a Output select 0 - 1	!
(MAIN, SUB)	
Total Size 00 00 00 34	1
	+

		- Address Map	
Address	Block	Sub Block	Reference
00 00 00 00	System Common	+	1-1
00 00 10 00	Temporary		1-2-1
	+		1-2-2
	:	: . :	,
00 00 20 00		: . Part 8 : .++ +++	++
	Performance Mode Temporary Patch		1-3-1
	:	: . ++ . Tone 1 : . Part 7 . ++	1-3-2
	:	Tone 4	
00 07 40 00		Note# 36	1-4-1
	:	f [:] : , +	••••
00 08 20 00	+	. Note# 96 	
	Patch Mode Temporary Patch	++ ,	++
	:	Tone 1	1-3-2
	: :	. Tone 4	
01 00 10 00	Internal Memory Performance	101 Common	1-2-1
		: . ++ . ++ . Part 1	1-2-2
	:	. 116 . ++ . ++ : . ++	
01 40 20 00		. ++	++
	Internal Memory Patch	: . ++	++
	: : :		
	: : : : :	. Tone 4	
	Internal Memory Rhythm Setup	Note# 36	1-4-1
	++	: . ++ . Note# 96	
	: :		
	reriormance	++, ++	++
	: : :	. C16 . ++	
02 40 20 00 -	; ; ;	. Part 8	+====+
0. 40 20 00	Card Memory Patch	C11 C0mmon	1-3-1
·		. Tone 1	1-3-1
	: : :	. ++ . : . Tone 4	
	Card Memory	++ Note# 36 ++	++
	Rhythm Setup	. :	++
		. Note# 96 .+	

2 GS

< MODEL ID = 42H >

\$ tart			1					
ac	idre	225	1				Description	
 			+-					
40	10	40	l	Scale	Tune	Part8		2-1
40	11	40	-		:	Part1		
40	12	40	1		:	Part2		
40	13	40	1		:	Part3		
40	14	40	1		:	Part4		
40	15	40	l		:	Part5		
40	16	40	1		:	Part6		
40	17	40	ŀ		:	Part7		4

2-1 Scale Tune

address	1	Description					
00	Oaaa	aaaa Se	cale Tur	ne C	00 - 127		
	1	1			(-64 - +63)		
01	:	1	:	C#			
02	1 :	- 1	:	D			
03	:	- 1	:	D#			
04	1 :		:	E			
05	:		:	F			
06	1 :		:	F#			
07	:	1	:	G			
08	i :	1	:	G#			
09	1 :	1	:	A			
0A	:	1	:	A#			
0B	l :	J	:	В			

Note: If you send the scale tune data, must send from "C" to "B" (1 oct) per packet.

/ Example of DT1 application /

To set the scale tune (C-B) of the performance part 1 Arabia, send the data as follows:

FOH 41H 10H 42H 12H 40H 11H 40H 3AH 6DH 3EH 34H 0DH 38H 6BH 3CH 6FH 40H 36H 0FH 50H F7H

Table A - 1::Decimal to Hexadecimal

The MIDI messages are expressed in hexadecimal configured in 7 bits. This table is usefull when you read or write MIDI messages.

- (D) = decimal (H) = hexadecimal

(D)	(H)	(D)	(H)	(D)	(H)	(D)	(H)
0 1	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2 1	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	248	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28R	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	OAH	42	2AH	74	4AH	106	6AH
11	OBH	43	2BH	75	4BH	107	6BH
12	OCH	44	2CH	76	4CH	108	6CH
13	ODH	45	2DH	77]	4DH	109	6DH
14	OEH	46	2EH	78	4EH	110	6EH
15	OFH	47	2FH	79	4FH	111 (6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H
22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87 [57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	JAH	90	5AH	122	7AH
27	1BH	69	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH

- * The decimal value of MIDI channel, bank select, program change, etc is the decimal number in the table plus 1.
- * In the hexadecimal notation in configured 7 bits, the maximum data of 1 byte is 128. If the data is mode than 128, used plural bytes.

 * The signed value is 00H = -64, 40H = ±0, 7FH = +63. In decimal notation,
- The signed value is one -64, 401 = 20, 711 = 703. In decimal hotelon, the value is the decimal number in the table minus 64. The signed value of dual bytes is 00001 = -8192, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4001 = 20, 4

@table A - 2: ASCH code

Patch Name and Performance Name of MIDI data are described the ASCII code in the table below.

(H) = hexadecimal

++	+	++	+	·+	+
Character	(H)	Character	(H)	Characteri	(H)
SP I	20H	 		·	
I A I	41H	al	61H	1	31H
В	42H	b l	62H	2	32H
CI	43H	l cl	63H	3	33H
D	44H	d l	64H	4	34H
E	45H	e	65H	5	35H
F	46H	fi	66H	6 1	36H
G	47H	l gi	67H	7	37H
H	48H		68H	8	38H
1	49H	l i l	69H	9	39H
J	4AH	j	6AH	0 1	30H
K I	4BH	l k l	6BH	+	2BH
LI	4CH	1 1 1	6CH	- 1	2DH
l K	4DH		6DH		2AH
l N I	4EH	l n	6EH	/ / /	2FH
0	4FH	0 0	6FH	#	23H
P	50H	l pl	70H	! ! !	21H
Q	51H	q	71H		2CH
R	52H	rl	72H		2EH
l SI	53H	s I	73H +	+	+
TI	54H	l tl	74H		
U	55H	ul	75H		
1 V I	56H	l v l	76H		
W I	57H	W	77H		
l X I	58H	x	78H		
ΥI	59H	у	79H		
Z	5AH	z i	7AH		
·+	+	+-	+		

Note: "SP" is space.

Model JV-1000

MIDI Implementation Chart

Date: Mar. 24 1993

Version: 1.00

Transmitted Recognized Remarks Function · · · 1 - 161 - 16Default Basic 1 - 161 - 16Memorized Channel Changed Default Mode 3 Mode 3 Mode Mode 3, 4 (m = 1)Messages Altered ***** 0 - 1270 - 127Note True Voice Number ***** 0 - 127Note ON 0 0 Velocity Note OFF 0 0 × Key's X After Ch's 0 0 Touch Pitch Bender 0 0 Resolution: 9 bit 0 - 95* 1 0 Bank select Modulation **** Portamento time 6, 38 7 Data entry Volume 10 Panpot Control Expression Change * 1 64 Hold1 65 91 Portamento Reverb 93 Chorus 100, 101 RPN LSB, MSB 121 × Reset all controllers Prog * 1 ***** Change True # 0 - 1270 System Exclusive 0 Song Pos X × System Song Sel X X Common Tune × × Clock X × System Real Time Commands X × Local ON/OFF X 0 Aux All Notes OFF X \bigcirc (123 – 127) Messages Active Sense 0 0 Reset *1 O, × can be selectable. Notes

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 data that can be transmitted or received.

× : MIDI data that cannot be transmitted or received.

Basic Channel

The MIDI channel for transmitting (or receiving) MIDI data can be specified over this range. The MIDI channel setting is remembered even when the power is turned off.

Mode

Most recent keyboard use mode 3(omni off, poly).

Reception: MIDI data is received only on the specified channels, and played polyphonically.

Transmission: All MIDI data is transmitted on the specified MIDI channel.

* "Mode" refers to MIDI Mode messages.

Note Number

This is the range of note numbers that can be transmitted(or received). Note number 60 is middle C(C4).

Velocity

This is the range over which velocity can be transmitted(or received) by Note On and Note Off messages.

Aftertouch

Key's: Polyphonic Aftertouch Ch's: Channel Aftertouch

Pitch Bender

The bender range setting of each Tone determines the range of pitch change caused by Pitch Bender messages. When set to 0, Pitch Bender messages will be ignored.

Control Change

This indicates the control numbers that can be transmitted(or received), and what they will control. For details, refer to the MIDI implementation.

Program Change

The program numbers in the chart indicate the actual data. (This is one less than the Pitch and Tone program numbers.)

Exclusive

Exclusive message reception can be turned On/Off.

Common, Real time

These MIDI messages are used to synchronize sequencers and rhythm machines. The JV-80 dose not use these messages.

Aux messages

These messages are mainly used to keep a MIDI system running correctly. Active sensing transmission can be turned on / off.

Index of Functions and Operations

The various operations of the JV-1000 and the pages to which you should refer to for more information are given in this section.

When a mode name is shown in parentheses, like (Patch Play mode), the following explanation is related to the functions and the operations of that mode.

Synthesizer Sound Source
3
Play mode
In this section, page references are given for changing the parameters of the Patch and Performance Play modes and the system common parameters.
SOUND 1. Changing the level of the sound
Change the volume of the entire JV-1000
Adjust the master volume on the side panel ······· INTRODUCTRY MANUAL
Assign volume control to foot pedals 1 or 2, or the C1 slider and adjust 36
(Performance Play mode)
Maintain the proper balance among the Parts
To set the Part level → Press LEVEL and select the Part Level page by using A
Record volume message into the on-board sequencer
To change the internal level →
Press LEVEL and select the Internal Level page, then change the value with the Parameter Slider
(Patch Play mode)
(Patch Play mode) Maintain the proper balance among the Tones
To set the Tone level → Press LEVEL and select the TVA Level page 15
2. Changing the pitch of the sound
⊕ Adjust the tuning of the entire JV-1000
To set the master tune value of the system common parameters →
Press TUNE function select button and select the TUNE & FUNCTION page
(Performance Play mode)
Set the pitch for each Part
Record pitch message into the on-board sequencer

To set the coarse tune and fine tune values -

To set the coarse tune and fine tune values ->

Set the pitch for each Tone and create chorus and detuning effects

Change the pitches in realtime for added expression during live performance

(Patch Play mode)

<u>J.</u>	Changing the stereo position of the sound image and pan
•	erformance Play mode)
	Adjust the stereo position of each Part to produce greater movement and space in the
•	Sound To adjust the Part pan setting → Press PAN and select the Part Pan page by using ▲
	10 adjust the Part pan setting - Press PAIN and select the Part Pan page by dsing A 1
	Record pan message into the on-board sequencer
.	To adjust the Internal pan setting → Press PAN and select the Internal Pan page ····································
	To adjust the internal pair seeing. These Trans and select the internal Lan page.
Pa	tch Play mode)
	Adjust the pan setting for each Tone to lend an expansive feeling to the sound of the
ē	Patch, or to move the stereo position to one side.
	To adjust the pan setting → Press PAN and select the Pan page
4.	Changing the sound programs
a	Patch Play mode) Change the brightness or the timbral characteristics of the sound
	program
ı	To adjust the cutoff or the resonance →
	Press CUTOFF, and select the Cutoff page
	Press RESONANCE, and select the Resonance page 20
	Trees (Trial world and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold and Sold an
• (Patch Play mode) Change the attack and decay portions of the sound
	To adjust the envelope related parameters →
	Press ATTACK or RELEASE and select the pages related to the TVF envelope and TVA envelope
	Change the sound program by using the controller
	Assign modulation, aftertouch or expression to pedals 1 or 2, or the C1 slider and adjust 36
	The way modulation, aftertouch and expression signals are used can be set for each Tone (P.51).
5	Changing the Performance or Patch
	onunging the restrictmentes of recon-
	Changing between Performances or Patches
•	Press PATCH GROUP , BANK , NUMBER
	Assign PROG-UP, PROG-DOWN to pedals 1 or 2, or the C1 slider then adjust
(Performance Play mode) Change the Patch to be assigned to the Part
	Record program change message into the on-board sequencer
	Press PATCH and select the Patch Select page
<u>5.</u>	Using effects (chorus/reverb)
_	
**	Create dynamics in the sound by turning the effect on/off
	Press CHORUS , and turn the chorus on/off
	Press REVERB , and turn the reverb on/off 15
2	Change how chorus and reverb are applied
(S)	To adjust the chorus/reverb level →
	(Patch Play mode) Press EFFECT and select the PATCH EFFECTS page 40
	(Performance Play mode) Press EFFECT and select the PERFORM EFFECTS page 40
	(1 citorinance ring invoc) recou <u>lant a more</u> junt select die r Ext Otto Page
9 1	Patch Play mode) Adjust the depth of chorus/reverb for each Tone
7	To adjust the send level of the chorus/reverb →
	Press PAN and select the Chorus Send or Reverb Send page by using
	transcented - Learnessed

	(Patch Play mode) delay the sounding for each Tone and get the various delay effect
	To adjust the time and mode of the Tone delay →
	Press LEVEL and select the Tone Delay page by using T
	(Porformance Blov mode)
	(Performance Play mode) Record turning the chorus/reverb on/off into the on-board sequencer
	Turn the chorus/reverb for each Part on/off
	To turn the chorus/reverb switch on/off →
	Press LEVEL or PAN and select the Chorus Switch or Reverb Switch page
KEYEC	ARD.
	1. Turning the internal sound source on/off
	● When connecting the JV-1000 to a sequencer or other device, try to avoid generating MIDI
	echo (the condition in which the transmitted MIDI signals are received again by the same
	device and sound twice)
	Have data from the keyboard transmitted via MIDI without sounding the internal sound
	source
	To turn off the local switch \rightarrow Press MIDI PERFORM MIDI (Performance Play mode),
	and select the PATCH MIDI (Patch Play mode) page
	(Performance Play mode) To turn the local switch of the Part on/off →
	Press TX and RX to lit and press PART SWITCH 25
	Have different Parts sound according to the key range played
	(Performance Play mode) To change the key range →
	Press INT TRANS, and select the Int. Range Lower and Int. Range Upper pages by using 🔻
	(Patch Play mode) Turn the sound for each Tone on/off
	Turn TONE SWITCH on/off
	2. Transpose
	A This formation makes it massible to play some in 1995 and the set by the set by the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the se
	This function makes it possible to play songs in different keys without having to change the fingering.
	 It also makes it possible to play in sound ranges which cannot normally be played.
	Change the tuning for each Part of the Performance.
	To change the transpose setting in the system common parameters →
	Press TUNE, and select the TUNE & FUNCTION page
	(Performance Play mode) To adjust the internal transpose setting →
	Press INT TRANS and select the Int. Transpose page
	2 Adiust the management in which
	3. Adjust the manner in which the sound responds to changes in playing strength
	the sound responds to changes in playing strength
	(Performance Play mode)
	Have different Parts sound according to the playing strength.
	Adjust the way the sound of each Part changes according to key velocity
	To adjust the internal zone parameters related to velocity →
	Press INT TRANS, and select the page to be edited by using .
	To adjust the degree to which playing strength is applied to velocity → Int. Velo Sense page
	To change the response curve by which playing strength affects velocity → Int. V-Crv page
	To set the maximum value of the after-processed velocity → Int. Max Velocity page ······ 31, 82

	(Patch Play mode)
	Adjust how changes of the sound program over time respond to playing strength
	To adjust the velocity related parameters of the Tone →
	Press LEVEL and select the page related to velocity by using .
	To adjust the relative strength and weakness of the level applied → TVA Velo Sense page 21, 66
	To change the response curve for the strength and weakness applied → TVA V-Crv page
	Have the brightness and timbral characteristics of the sound change according to playing strength
	To adjust the envelope level velocity sensitivity of the TVF envelope →
	Press CUTOFF and select the TVF-Env Velo Sense page by 22, 63
	4. Changing how the sound responds according to the key range played
	(Patch Play mode)
	Make changes in the sound volume
	To adjust the key follow value of the TVA → Press LEVEL and select the TVA Key Follow page by using W 21, 65
	To adjust the key follow value of the TVA envelope →
	Press either ATTACK or RELEASE and select the TVA-Env Key Follow page by using
	Make changes in the stereo position
	To adjust the key follow value of pan \rightarrow Press \boxed{PAN} and select the Pan Key Follow page by using $\boxed{\Psi}$
	Make changes in the pitch
	To adjust the key follow value of the pitch →
	Press TUNE assign button and select the Pitch Key Follow page by using TUNE assign button and select the Pitch Key Follow page by using TUNE
	Make changes in the cutoff frequency
	To adjust the key follow value of the TVF → Press CUTOFF and select the Cutoff Key Follow page by using 22, 62
	To adjust the key follow value of the TVF envelope →
	Press either ATTACK or RELEASE and select the TVF-Env Key Follow page by using
	•
MIDI	1. Changing the MIDI receiving and sending channels
	Changing the transmission channel
	(Performance Play mode) Press either TX VOLUME or TX PAN,
	and select the Transmit Channel page by using 30, 78
	(Patch Play mode) Press MIDI and select the PATCH MIDI page
	Setting the control channel
	(Performance Play mode) Press MIDI and select the PERFORM MIDI page and set the Rx-Channel
	Changing the receiving channel
	(Performance Play mode) Press one of the LEVEL or PAN buttons and select the
	Receive Channel page by using 🔻
	(Patch Play mode) Press MIDI and select the PATCH MIDI page
	O Truming SSIDI Avenomical on and account of
	2. Turning MIDI transmission and reception on/off
	Turning MIDI transmission on/off
	(Performance Play mode) To turn MIDI transmission of the Part on/off →
	Press TX button to lit and press PART SWITCH
	(Patch Play mode) Press MIDI and select the PATCH MIDI page by using and set the TX-Ch value
	(Performance Play mode) Turn MIDI receiving on/off
	Press RX button to lit and press PART SWITCH
	25 [] Sandra of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

(Performance play mode) Turn receiving the data from the on-board sequencer on/off	
To turn the sequencer mute switch on/off →	
Press PART SWITCH when neither TX nor RX are lit	25
Turn transmission/reception for each MIDI data type on/off	
Press MIDI, and select the TRANSMIT MIDI and RECEIVE MIDI page by using	39
3. Set a specific range for key on data to be transmitted	
Performance Play mode) Set the key range	
Press TX TRANS and select the TX. Range Lower and TX. Range Upper pages by using	76
I. Transmitting other types of MIDI data	
Performance Play mode)	
Changing the sound program of an external MIDI instrument	
To transmit program change messages →	
Press either TX VOLUME or TX PAN and select the Transmit Program Change page by using	79
Press PGM CHANGE and select the Transmit P.C page	41
Adjust the volume or stereo position of sounds of an external MIDI instrument	
To transmit volume or pan ram from the transmit zone →	
Press TX VOLUME and select the Transmit Volume page	28
Press TX PAN and select the Transmit Pan page ····	28
Change how each external MIDI instrument responds to playing strength	
To adjust the velocity data transmission parameter of the transmit zone →	
Press TX TRANS and select the page by using 🛕	
To set the degree to which playing strength is applied \rightarrow TX. Velo Sense page \rightarrow 30.	78
To set response curve for applying playing strength \rightarrow TX. V-C _r V	78
To set the maximum velocity value to be transmitted → TX. Max Velocity	
Having the JV-1000 and several external MIDI instruments sound at different pitches	
To set the transposition of the note number being transmitted from the transmit zone →	
Press TX TRANS and select the TX. Transpose page	.9
. Transmitting and receiving sound program data	_
Exchange sound program data, such as that of Patch, Performance and Rhythm Set, wit	h
on-board sequencer or external device.	1 #
To execute the bulk damp function →	
Press WRITE and select Bulk	19
**************************************	, 7

Edit mode

In this section, page references are given for changing the parameters of the Patch and Performance Play modes and the system common parameters.

SOUND 1. Setting the pitch of the sound

KEYEOARD

1. Setting how the sound changes according to playing strength velocity (Performance Edit mode) Adjust the way the sound of each Part changes according to key velocity To adjust the internal zone parameters \rightarrow Press INT ZONE, and select the appropriate page. To set the maximum value of the after-processed velocity → Max Velocity page ······ 82 (Patch Edit mode) Have different Parts sound according to the playing strength. Set how the pitch, timbre and level of the sound change according to playing strength. To set the degree of the change → Change the velocity envelope level sensitivity or the level sensitivity Timbre = Press TVF and select the TVF-ENV page 63 Level = Press TVA and select the TVA page 66 To set the response curve for the change -> Change the velocity curve type Timbre = Press TVF and select the TVF-ENV page 63 To set the start of the envelope and the length of the release → Change the velocity attack/release time sensitivity Timbre = Press TVF and select the TVF-ENV page 63 2. Setting how changes in the sound respond to the key range played key follow (Patch Edit mode) Set how pitch, timbre, level and pan change. → Change the key follow value Timbre = Press TVF and select the TVF page 62 Level = Press TVA and select the TVA page 65. 66 Set how the attack and release portions of the sound change. → Change the envelope time key follow value Pitch = Press PITCH and select the P-ENV page 60 Level = Press TVA and select the TVA-ENV page 68 3. Setting the basic sound modes (Performance Edit mode) Set the sound range over which the Patch can be played. To set the key range of the internal zone -To play a different Patch in each areas of the keyboard, or to sound the number of Parts simultaneously →

	(Patch Edit mode)
	Set the instrument for monophonic play (so that the number of sounding Patches is set to
	1).
	To set the key assign to the solo mode →
	Press CONTROL and select the KEY ASGN & BEND RANGE page 49
	Set the instrument for legato playing technique (so that only the pitch changes from note to note; the envelope and the phase of LFO remain unchanged)
3	To enable the legato function → Press CONTROL and select the KEY ASGN & BEND RANGE page
	Set the portamento parameter → Press CONTROL and select the PORTAMENTO page
	Set the portamento parameter → Press CONTROL and select the PORTAMENTO page
EFFECT	
	1. Turn the effect on/off
	(Manfannana a Falth manda)
	(Performance Edit mode) ● Turn the chorus for each Part on/off.
	Press PART and select the Chorus Switch page 86
	Press EFFECT and select the PERFORM CHORUS page, then press PART SWITCH 74
	Tress Err EoT and select the LEM ONN ONOR OF page, then press 1 Aut 1 ONN
	Turn the reverb for each Part on/off.
	Press PART and select the Reverb Switch page
	Press EFFECT and select the PERFORM REVERB page, then press PART SWITCH 75
	2. Set how the effect is applied
	21 001 1010 410 410 410 410 410 410 410 4
	Set the speed and depth of the chorus sound.
	To set the rate and depth of the chorus →
	(Performance Edit mode) Press EFFECT and select the PERFORM CHORUS page 74
	(Patch Edit mode) Press EFFECT and select the PATCH CHORUS page 47
	Set the level and length of the reverb sound.
•	To set the level and time of the reverb →
	(Performance Edit mode) Press EFFECT and select the PERFORM REVERB page
	(Patch Edit mode) Press EFFECT and select the PATCH REVERB page 48
	(Patch Edit mode)
	• Program a delay between the time the key is pressed (key on) to the time the Tone starts to
	sound. Create an effect in which the delay sounds while the pitch and sound program change.
	Set the delay effect for the Patch itself, separate from the reverb delay.
	To set the Tone delay → Press TVA and select the DELAY page
	10 00 410 1010 4015)
	Change the depth of the effect for each Tone.
	To set the send level for the effect →
	Press EFFECT and select the FX SEND page 46
	● Add 1/f modulation to the level and pitch.
	To set the analog feel function →
	Press EFFECT and select the ANALOG FEEL page
	I man a man a man a man a man balla

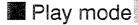
CONTROLLER

	1. Setting the internal controller	
	A (Datab Edit made) Control by banday/we deletion in a	
	● (Patch Edit mode) Control by bender/modulation lever To set the bend range → Press CONTROL and select the KEY ASGN & BEND RANGE page	
	To set the destination (the parameter to be affected) and the depth (effect depth) of the modulation →	49
	Press CONTROL and select the Modulation page	~ •
	ress CONTROL Janu Sciect the Modulation page	51
	(Patch Edit mode) Control the parameter of the Patch by aftertouch	
	To set the destination (the parameter to be affected) and the depth (effect depth) of the aftertouch →	
	Press CONTROL and select the Aftertouch page	51
	© Control by the C1 slider.	
	To set the sound source to be controlled (internal sound source/external MIDI device) and the parameter to be controlled \rightarrow	
	Press CONTROL and select the C1 ASSIGN page	36
	2. Setting the (optional) pedal	
	A Control by the model with a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	
	Control by the pedal switch or expression pedal.	
	To set the sound source to be controlled (internal sound source/external MIDI device) and the parameter to be controlled -	
	Press CONTROL and select the PEDAL 1 ASSIGN or PEDAL 2 ASSIGN pages	·· 36
MIDI	1. Setting the transmitting channel/transmission of MIDI data	
	1. Octaing the transmitting chainer transmission of MIDI data	
	Set the transmission channel from the Patch Play mode.	
	Press MIDI and select the PATCH MIDI page	38
	(Performance Edit mode)	
	Set the transmission channel for each Part.	
	To set the transmit channel of the transmit zone →	
	Press TX ZONE and select the Transmit Channel page	70
	Tress A ZONE and select the Transmit Chainet page	•• 78
	Limit the transmission of MIDI data to a specified key range	
	To set the key range of the transmit zone →	
	Press TX ZONE and select the Key Range Lower and Key Range Upper pages	76
	Set it so that the transmitted MIDI data is changed when the Performances are changed	
	To set the transmit program change, transmit volume and transmit pan parameters →	
	Program change = Press TX ZONE and select the Transmit Program Change page	79
	Volume = Press TX ZONE and select the Transmit Volume page	
	Pan = Press TX ZONE and select the Transmit Pan page	
	2. Setting the receiving channel/reception of MIDI data	
	2 Cathing the year is in a shown if for your the Paris I mi	
	Setting the receiving channel from the Patch Play mode	
	Press MIDI and select the PATCH MIDI page-	• 38
	Setting the receiving channel for each Part from the Performance Play mode	
	To set the receiving channel of the Part → Press PART and select the Receive Channel page	85

Other settings
In this section, page references are given for changing the parameters of the relevant modes.

	Changing the brightness of the LCD	
	To change the LCD contrast →	
	Press TUNE function select button on the Performance/Patch Play mode, and select the TUNE & FUNCTION page	33
	Setting the tuning for the entire JV-1000	
	To change the master tune setting →	
	Press TUNE function select button in the Performance/Patch Play mode, and select the TUNE & FUNCTION page	33
	Having MIDI data sent when the keyboard is played, without sounding the JV-1000	
	To turn the local switch on/off →	
	Press MIDI from the Performance/Patch Play mode, and select either the PERFORM MIDI or PATCH MIDI page	• 38
	Turning chorus or reverb on/off	
	Press CHORUS or REVERB	15
	Avoiding unusual or unexpected conditions (such as when the connected MIDI instrum	ent
	doesn't stop sounding, or the bender is applied constantly)	
	To execute the panic function →	
	Press the CUTOFF and RELEASE buttons simultaneously.	15
	Organization	
u Dala	a Organization	
	In this section, page references are given for the explanations on functions related to the data organization, such as storing sound pro	gram
	data to memory or copying data	
	Write the sound program data to the memory	
	Press WRITE and select the Write parameter	101
	Copy the data.	
	Press WRITE and select the Copy parameter	103
	Initialize the data.	
	Press WRITE and select the Initialize parameter	106
	Transfer the data between the optional DATA card and PCM card	
	Press WRITE and select the Card parameter	107
	● Transmit and receive data with on-board sequencer or external device over MIDI	
	Press WRITE and select the Bulk parameter	109
	Turn the memory protect function on/off	
	Press WRITE and select the Protect parameter	. 111
	Switch the Protect switch of the DATA card	. 101
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Expansion Sound Source



In this section, page references are given for changing the parameters of the V-EXP modes and the V-EXP system common parameters.

SOUND	1. Changing the level of the sound
	Change the volume of the entire expansion sound source
	Adjust the master volume(V-EXP) on the side panel INTRODUCTORY MANUAL
	Assign volume control to foot pedals 1 or 2, or the C1 slider and adjust
	To set the master level value of the V-EXP system common parameter →
	Press TUNE function select button and select the TUNE & FUNCTION page
	Maintain the proper balance among the Parts.
	Press LEVEL and select the Part Level page
	2. Changing the pitch of the sound
	Adjust the tuning of the entire expansion sound source
	To set the master tune value of the V-EXP system common parameter →
	Press TUNE function select button and select the TUNE & FUNCTION page
	Set the pitch for each Part
	To set the coarse tune and fine tune values →
	Press TUNE assign button and select the Part Coarse Tune page
	Press TUNE assign button and select the Part Fine Tune page by using
	Add modulation and vibration to the sound
	To set the Vibrato → Press VIBRATO and select Vibrato Rate/Depth/Delay pages ·
	Change the pitchs in realtime for added expression during live performance →
	Move the pitch bender lever · · · · · 4
	Assign pitch bend control to foot pedals 1 or 2, or the C1 slider and move them
	3. Changing the stereo position of the sound image and pan
	Adjust the stereo position of the entire expansion sound source
	To set the master pan value of the V-EXP system common parameter →
	Press TUNE function select button and select the TUNE & FUNCTION page
	Adjust the stereo position of each Part →
	Press PAN and select the Part Pan page
	4. Changing the sound programs
	Change the brightness or the timbral characteristics of the sound program for each Part
	To set the cutoff or the resonance →
	Press TVF/TVA and select the TVF Cutoff Freq. page
	Press TVF/TVA and select the TVF Resonance page 127
	Change the attack and decay portions of the sound
	To adjust the envelope related parameters →
	Press TVF/TVA and select the TVA-TVF Env Attack/Decay/Release pages
	Change the sound program by using the controller →

	5. Changing the Patch to be assigned to the Part	
	Press PATCH and select the Patch Select page, then select the bank and number	122
	6. Using effects	
	Turn the effect on/off	
	Press CHORUS and turn the chorus on/off	124
	Press REVERB and turn the reverb on/off	124
	Adjust the depth of chorus /reverb for each Part	
	To adjust the send depth of the chorus/reverb →	-
	Press CHORUS assign button and select the Chorus Send Depth page	128
	Press REVERB assign button and select the Reverb Send Depth page	128
	To set the type of the chorus/reverb	
	Press EFFECT and select the Effects Macro page	129
KEYEO		
	Turn the sounding on/off	
	Press PART SWITH	121
	Transpose the note data from the keyboard	
	To set the transpose value of the V-EXP system common parameter →	
	Press TUNE function select button and select the TUNE & FUNCTION page	132
	Adjust the tranpose of the entire expansion sound source	
	To set the master key shift value of the V-EXP system common parameter →	
	Press TUNE function select button and select the TUNE & FUNCTION page	132
MIDI	Turn MIDI receiving on/off for each Part	
	Press PART SWITCH	121
	Turn transmission/reception for each MIDI data type on/off	
	Press MIDI and select the TRANSMIT MIDI and RECEIVE MIDI page	134
	Transmit program change messages	
	Press PGM CHANGE and select the Transmit P.C page	130

Edit r	node
	In this section, page references are given for changing the paremeters of the Voice expansion edit mode and the V-EXP sysytem common parameters.
SOUND	Setting the pitch of the sound
	To set the coare tune and fine tune for each part →
	Press PITCH and select the Coarse Tune and Fine Tune pages 13
	Setting the change of the sound over time
	To set the envelope of TVF and TVA →
KEYBO.	Press TVF/TVA and select the TVF & TVA — ENV page 13.
N=10-)U/	
	Adjust the way the sound of each Part changes according to key velocity
	To adjust the degree to whitch playing stregth is applied to velocity → Press CONTROL and select the VELOCITY SENSE page
	17633 OONTHOL and select the VELOCITY SENSE page
	 Set the instrument for monophonic play (so that the number of sounding Patches is
	set to 1). To set the key assign to the mono mode →
	Press CONTROL and select the KEY ASGN & BENDER RANGE page
EFFECT	
	Cat the aread and denth of the above as well
	Set the speed and depth of the chorus sound To set the rate and depth of the chorus → Press EFFECT and select V-EXP CHORUS
	13/
	Set the level and length of the reverb sound
	To set the level and time of the reverb → Press EFFECT and select the V-EXP REVERB page
CONTRO	
	Set how the pitch change when the bender lever is pushed
	To set the bend range → Press CONTROL and select KEY ASGN & BENDER page
	Control by the C1 slider, pedal switch or expression pedal
	To set the sound source to be controlled (expansion sound source/external MIDI device) and
	the parameter to be controlled → (V-EXP play mode) Press CONTROL and select the PEDAL 1/PEDAL 2/C1 ASSIGN pages ··············· 133
	(Y-EAT play mode) Tress CONTROL and select the FEDAL 1/FEDAL 2/C1 ASSIGN pages
M Other	operations
	Transmitting the panel status to the expansion board
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Apparatus containing Lithium batteries

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Hiermit wird bescheinigt, daß der/die/das

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(Gerät. Typ. Bezeichnung)

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Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada ·

CLASS E

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.

CLASSE B

AVIS

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