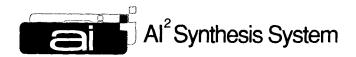
Music Workstation

Ol/Wood Owner's Manual







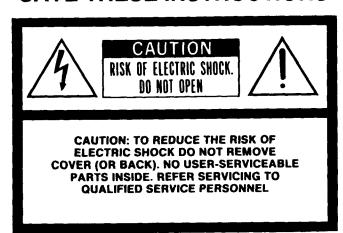
IMPORTANT SAFETY INSTRUCTIONS

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.
- 3. This product should be used only with a cart or stand that is recommended by the manufacturer.
- 4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- 5. The product should be located so that its location or position does not interfere with its proper ventilation.
- 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.

- 8. 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.
- 10. 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 into the product; or
 - C. The product has been exposed to rain; or
 - D. 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.
- 11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

SAVE THESE INSTRUCTIONS





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.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER — Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product — if it will not fit the outlet, have a proper outlet installed by a qualified electrician

THE FCC REGULATION WARNING

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interferences to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient the receiving antenna.
- · Relocate the equipment with respect to the receiver.
- · Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C.20402, stock No. 004-000-00345-4.

CANADA

THIS DIGITAL APPARATUS DOES NOT EXCEED THE "CLASS B" LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATION OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

LE PRESENT APPAREIL NUMERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUES DE LA "CLASSE B" PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIOELECTRIQUE EDICTE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

Thank you for purchasing the Korg 01/WproX•01/Wpro Music Workstation. To ensure long, trouble-free operation, please read this manual carefully.

Precautions

Location

Using the unit in the following locations can result in malfunction.

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

■ Power supply

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

■ Interference with other electrical devices

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

■ Handling

To avoid breakage, do not apply excessive force to the switches or controls.

■Care

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

■ Keep this manual

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

■ Notes on Foreign Matter

- Never place cups, flower vases or other objects containing water on top of this unit. Fluids spilled into this unit will result in damage to the equipment, and possible fire or electrical shock.
- Use care to prevent dropping hairpins, coins and so on into the unit (e.g. through the gaps between the keyboards). If a situation such as those described here should arise, switch the power OFF and disconnect the power cord, then contact your nearest Korg dealer or the shop where you purchased this equipment.

How to use this manual

- First, read the "Basic operation" section while actually operating the 01/WproX•01/Wpro.
 - This will help you to understand the basics of operating the 01/WproX•01/Wpro. Follow the directions to learn the function of each key and display.
- Next, glance through the "Reference" section.
 - This will give you an idea of the possibilities of the 01/ WproX•01/Wpro, and points to remember.
- When necessary, refer to the explanations for each function you need to use.

This manual covers both the 01/WproX (88 Keys) and the 01/Wpro (76 Keys).

Features of the 01/WproX•01/Wpro

1. All-digital AI² Synthesis system

From the tone generator (a capacity of 96 Mbits) through the filters and effect units, all audio is handled in digital form, ensuring high-quality sound with no signal loss.

2. A wide variety of Multisounds (waveforms)

The 01/WproX•01/Wpro contains 256 preset Multisounds (multi-sampled PCM waveforms), providing a wide variety of ingredients for flexible sound creation. Additional Multisounds can be provided by inserting optional PCM cards, allowing you to create sounds that were not possible on the 01/WproX•01/Wpro without the card.

3. Combinations allow flexible performance possibilities

With 100 combinations available in each bank, the two banks provide a total of 200 combinations which can be used to combine up to 8 sounds for performance.

4. Editable Drum Kits assist in song creation

The 01/WproX•01/Wpro provides 119 drum sounds. Settings and tuning for each drum sound can be stored in two Drum Kits per bank.

5. Multi-track sequencer with flexible editing functions

The built-in sequencer allows you to record 16-tracks of data using realtime or step recording, with the ability to edit individual data events in each track. By using Patterns for

The backup battery

The 01/WproX•01/Wpro contains a battery that preserves its memory settings when the power is turned off. When the

frequently-appearing motifs, you can save memory and speed up the process of song creation. The 01/WproX-01/Wpro will function as a 16-timbre multi-timbral tone generator, making it an ideal addition to any sequencing system.

6. Multi Digital Effect processor for creative sounds

The 01/WproX•01/Wpro contains a Multi Digital Effect processor that provides up to 4 simultaneous effects, and can also be used as two completely independent stereo effect systems. Not only delay and reverb, but also equalizer, distortion, rotary speaker, and many other types of effects are provided.

7. Edit even while playing

Not only sounds, but even Combination parameters and Sequencer settings can be easily edited while you play.

8. Wave shaping, for producing a more profound sound

A new synthesis technology, Wave shaping, modifies the harmonic spectrum of Multisounds allowing you to creat sounds more complex and richer in nuance than was previously possible.

9. Compatibility through use of standard MIDI files

It is possible to use standard MIDI files saved to floppy disk, providing compatibility with other devices and enabling the use of sequence data from many different sources.

display indicates "Battery Low", please contact your dealer or a nearby Korg service center to have the battery replaced.

RAM MEMORY CARD

- ◆ The RAM card (SRC-512) requires battery power in order to preserve data in memory. The included lithium battery (type CR2016) should be put in place before use.
- ① Installing the battery

Turn the card over to the side without the contacts. You will find a slot in the battery holder.

Install the lithium battery in the holder with the "+" side up.

2 Write Protect Switch

No data can be written on the card when this switch is set to "ON". To preserve data, set this switch to ON, except when writing new data.

3 Replacing the Lithium Battery

Power from the lithium battery is used to protect data held in memory. The battery should be replaced once a year. However, battery life is shortened if kept at temperatures exceeding 40 degrees centigrade. (104 Fahrenheit) Always use a CR2016 type lithium battery.

When replacing the battery, leave the card in the unit with unit power ON. This will preserve the contents of the memory. If the card is removed before battery replacement, memory contents will be lost.

^{*} The names of the Programs, Combinations, Multisounds, etc. appearing in the displays given as examples in this manual do not necessarily correspond to any internal data.

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FRONT PANEL

(For the explanation of each key and slider, refer to page 11.)

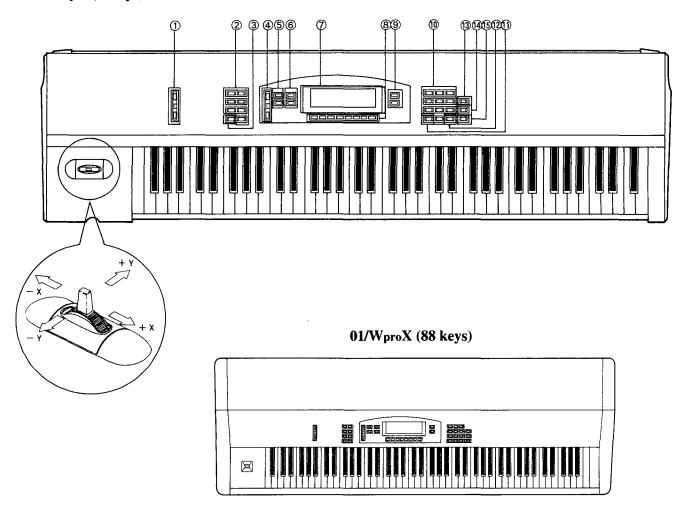
- ① MASTER VOLUME slider
- ② Mode select keys

COMBI = Combination mode
EDIT COMBI = Edit Combination mode
PROG = Program mode
EDIT PROG = Edit Program mode
SEQ = Sequencer mode
GLOBAL = Global mode
DISK = Disk mode

- 3 BANK key
- **4** VALUE slider

- \bigcirc \triangle / ∇ keys
- **6** Cursor UP/DOWN keys
- O Display
- (8) Cursor keys (A—H)
- PAGE+/- keys
- **10** NUMBER keys (0 9)
- (1) 10'S HOLD (-) key
- **②** COMPARE key
- REC/WRITE key
- (4) START/STOP key
- ® RESET key

01/Wpro (76keys)



REAR PANEL

(1) PCM DATA slot

A card containing PCM (Multisound) data can be inserted here. Cards containing voice and sequence data should be inserted into the PROG/SEQ DATA slot, not into this slot.

② PROG/SEQ DATA slot

A card containing (or into which you will store) voice or sequence data can be inserted into this slot. PCM (Multisound) data cards should be inserted into the PCM DATA slot, not into this slot.

- ③ MIDI THRU jack
- **4** MIDI OUT jack
- **⑤** MIDI IN jack

6 DAMPER jack

A footswitch can be connected here and used as a damper pedal.

① ASS. PEDAL/SW jacks (1, 2)

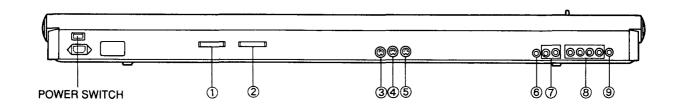
Pedals or footswitches can be connected to these jacks. They will function as assigned in Global mode.

8 OUTPUT jacks (1/L, 2/R, 3, 4)

These are the audio outputs of the 01/WproX•01/Wpro. The output to each jack is determined by various parameters.

PHONES jack

A pair of headphones can be connected to this jack to monitor the sound of the OUTPUT 1/L and 2/R jacks.

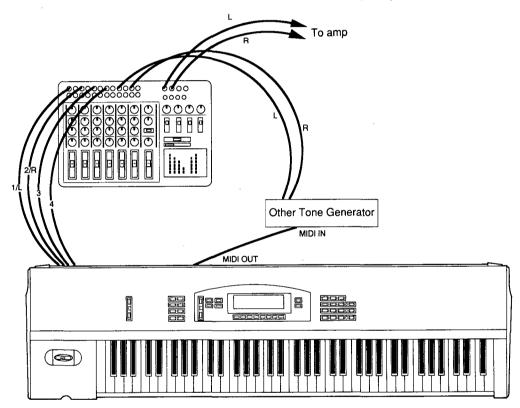


BASIC OPERATION

CONNECTIONS

- (1) First, make sure that the 01/WproX•01/Wpro power switch (rear panel) is turned Off.
 - Also make sure that the power of all connected equipment (amps, mixers, etc.) is turned Off. Set the volume controls of all equipment to their lowest position.
- (2) Insert the included power cable into the rear panel power connector, and connect the other end to an AC outlet.
- (3) Turn the 01/WproX•01/Wpro power On.

- (4) Turn the power of all connected equipment On, and gradually raise the volume controls of the 01/WproX•01/Wpro and your mixer/amp system to an appropriate level.
- The range of the 01/WproX keyboard is A0 C8 without using the Key Transpose function. The range of the 01/Wpro is E1 G7. (By using key transpose, you can cover nearly 7 octaves in the range A-1 C9 on the 01/WproX keyboard, and approximately 6 octaves in the range E0-G8 on the 01/Wpro keyboard.



◆The 01/WproX, 01/Wpro will respond to Note messages transmitted to MIDI IN for all notes C-1 — G9 (notes numbers 0 —127). (For some Programs, the high range may not sound.)

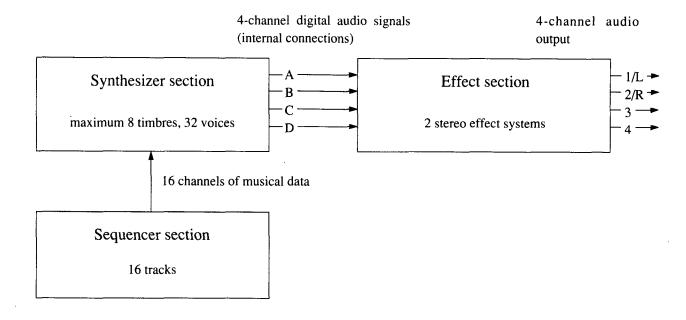
Key name	C-1	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	G9
MIDI Note Number	0	12	24	36	48	60	72	84	96	108	120	127

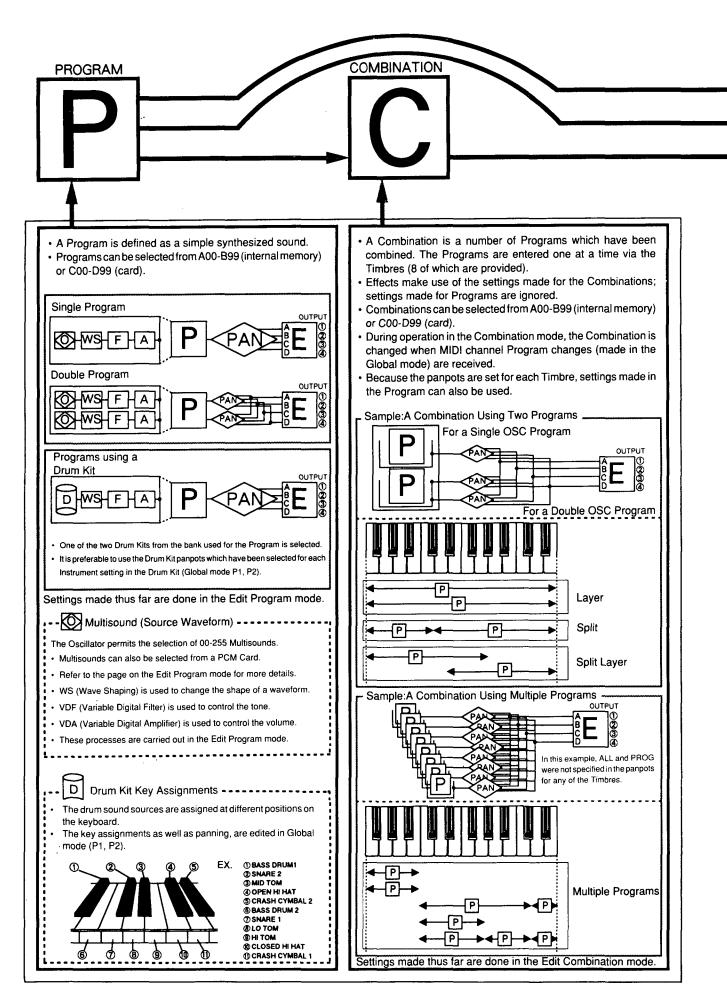


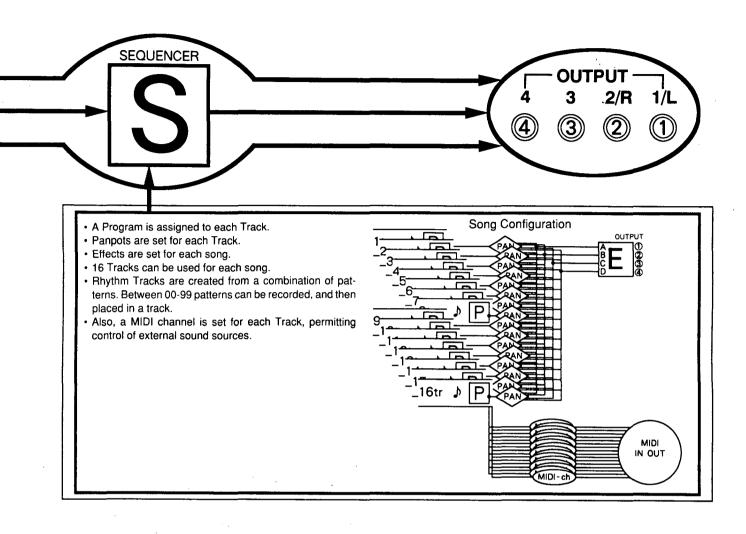
Note:

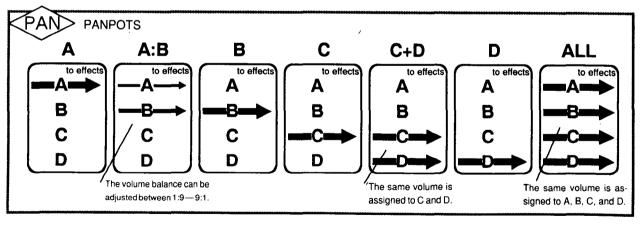
The 01/WproX•01/Wpro does not have a contrast knob. When the unit is shipped, the LCD contrast is set at an appropriate level, but depending on the temperature, etc., this may need to be re-adjusted for best visibility. If necessary, press the GLOBAL key to enter Global mode, and adjust the display contrast (the first parameter on the first page).

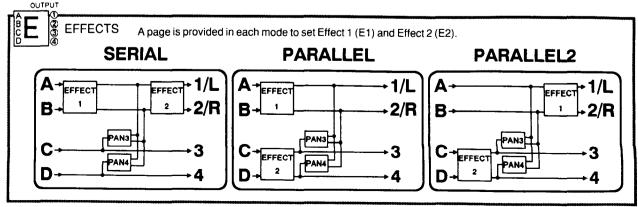
HOW THE 01/W_{pro}X • 01/W_{pro} IS ORGANIZED







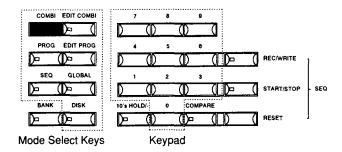




PLAYING A COMBINATION (A COMBINATION OF SEVERAL SOUNDS)

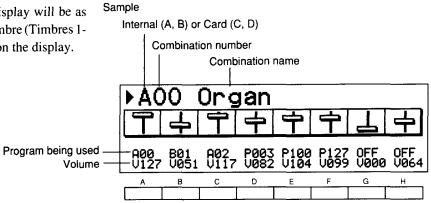
There are 200 combinations in the internal memory (Bank A:00-99, Bank B:00-99) and 200 more are available in the PROG/SEQ card (Bank C:00-99, Bank D:00-99).

- (1) Press the COMBI mode select key (Combination mode).
- (2) Use the BANK key, number keys, and ∇ / △ keys to select the Combination (A00-B99, C00-D99) you wish to play.
- (3) Play the keyboard and you will hear the Combination you selected in step (2).



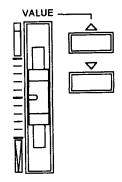
About the display

When you select Combination mode, the display will be as follows. The program and volume for each timbre (Timbres 1-8 from the left) set by the slider are shown on the display.



Each timbre in the display corresponds to the cursor key below it

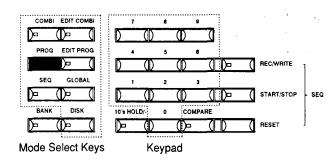
For example, you can press cursor key \boxed{D} , and then use the VALUE slider to change the volume of Timbre 4 (volume number "82" in the example).



PLAYING A PROGRAM (A SINGLE SOUND)

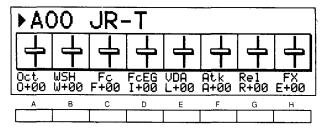
There are 200 programs in the internal memory (Bank A:00—99, Bank B:00—99) and 200 more are available in the PROG/SEQ card (Bank C:00—99, Bank D:00—99).

- (1) Press the PROG mode select key (Program mode).
- (2) Use the BANK key, number keys, and 7 keys to select the Program (A00 B99, C00 D99) you wish to play.
- (3) Play the keyboard and you will hear the Program you selected in step (2).



About the display

Example



When you select PROGRAM mode, the display will be as shown in the example. Here you can press a cursor key A—H to display the corresponding parameter name and value, and then use the VALUE slider to adjust the value of the parameter displayed above that key. In this way, you can easily edit a sound without entering Edit Program mode. This is especially convenient during a live performance.

- * The various parameters affect the sound as follows. (For a more detailed explanation, refer to "Program mode".)
- O = Octave
 This adjusts the octave settings up and down. (-3 +3)
- W = Wave Shaping Intensity
 This adjusts the amount of deformation of the PCM waveform. Higher settings will result in greater deformation. (-10 +10)
- F = VDF Cutoff (VDF cutoff frequency)

 This adjusts the frequency at which the VDF begins to cut. Higher settings will make the sound brighter, and lower settings will make the sound darker. (-10 +10)
- I = VDF EG Intensity
 This adjusts the intensity of VDF EG. (-10 +10)
 L = VDA Level
- L = VDA Level
 This adjusts the overall volume of the Program. (-10—+10)

A = VDA EG Attack Time

This parameter adjusts the VDA EG attack time of the Program. Higher settings will result in a slower attack.

- R = VDF, VDA EG Release Time
 This parameter adjusts the release time of the Program.
 Higher settings will result in a longer release time. (-10
 ---+10)
- E = Dry:Effect Balance

This parameter adjusts the volume balance between effect processed sound and direct sound. As this value is increased, the proportion of the effect processed sound (relative to that of the direct sound) will increase. (-10 - +10)



Note:

The parameters you edit here will return to their original values when you select another Program. If you move to another mode after adjusting them in PROGRAM mode, the corresponding Program parameter (two or more in some cases) will be modified (your edits will be remembered), and when you return to PROG mode these values will be displayed once again as 00. The sound remains as editted. You may save the sound by using the REC/WRITE key.

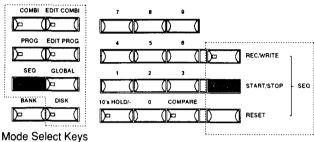
HOW TO USE THE SEQUENCER

The floppy disk included with the 01/WproX, 01/Wpro contains demo song data.

Here's how to hear the demo songs.

- (1) Insert the floppy disk containing the demo song data into the disk drive.
- (2) Press the DISK mode select key. (The disk mode Load Disk page will appear.)
- (3) Use the cursor UP/DOWN keys to move the cursor (the inverse area) to "Load All Data".
- (4) Use the \triangle / ∇ keys to select the file to be loaded.
- (5) Press G [Load], and you will be asked "YES/NO". Press F [YES], and the data will be loaded from disk into internal memory.
- (6) Press the START/STOP key to enter the Sequencer mode, and the sequencer will begin playback.
- (7) Press the START/STOP key once again, and playback will stop.

(8) Press the RESET key, then press the START/STOP key, and playback will begin from the begining of the song. If you press the START/STOP key without pressing the RESET key, playback will continue from the location where you stopped.



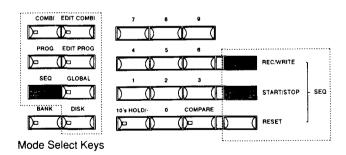
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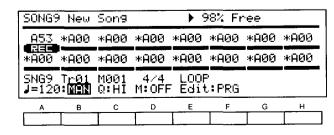
SONGØ	Sno	owGoos	se .	▶Te	MPO		
*400	A01	A02	A03	A04	A05	A06	A07
A08	A09	A10	A11	A12	A13	A14	OFF
SNGØ €=144	TrØ1 MAN	M001 Q∶HI	4/4 M:OFF	OUWR Edit	PRG		
Α	В	С	D	E	F	G	Н
		<u> </u>	<u> </u>				

HOW TO RECORD

Now let's try recording into the sequencer.

- (1) Press the SEQ mode select key to enter Sequencer mode.
- (2) Press the numeric key 0 to call up Page 0, which will enable you to select a song.
- (3) Use the VALUE slider to select the song you wish to record. For this example, select "9".
- (4) Press cursor key B, and then use the VALUE slider to select the track you wish to record. For this example, select "1".
- (5) Press DOWN key, then press the cursor key Fto display "PROG", and then move the cursor to Track 1. (To do this, press the DOWN key once, and then press cursor key A.) Use the value slider to select the Program you wish to use.) Select any Program you like.
- (6) Press the REC/WRITE key.
- (7) Press the START/STOP key. Recording will begin. After the two-measure count-in, begin playing.
- (8) When you finish playing, press the START/STOP key to end recording.
- (9) Press the START/STOP key once again, and the performance you just recorded will be played back.





KEY AND SLIDER FUNCTIONS

Number keys

- In Combination mode, use these keys to select Combinations.
- In Program mode, use these keys to select Programs.
- In other modes, use these keys to select the page of the function (The page number is displayed in the top line of each page.). You can also enter parameter values by using these keys while holding down the Cursor key (A—H). See "How to input data", p.16 for details.

10's HOLD - key

In Program or Combination mode, you can use the 10's HOLD/—key to keep the ten's digit of the number constant, so that only the one's place will change. For example if you have selected "21", and you press the 10's HOLD/—key, the ten's digit "2" will be fixed, and you can then press "7" to select "27", or press "3" to select "23". (This is referred to as 10's HOLD.) To cancel this, press the 10's HOLD/—key once again. (The key indicator will light when 10's hold is on.)

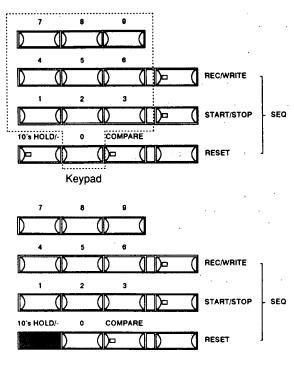
- If you use the ▽ / △ keys, the foot switch, or MIDI program change messages to change the Combination or Program, 10's HOLD will be cancelled.
- In Program mode and Combination mode, pressing the number key while holding down the 10's HOLD/– key will show ten Programs or Combinations, the ten's digit of which is the same as the number of the key pressed (see illustration at right).
- When using the number keys to enter data, this key is also used to enter a negative value choose a program from Bank
 B, or select a Multisound from a PCM card.

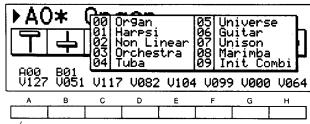
COMPARE key

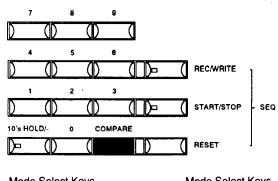
In Edit Program mode and Edit Combination mode, this key allows you to temporarily restore the values of all parameters used for a Program or Combination to the settings it had before you began editing. Press the COMPARE key once again, and the settings will be restored to the values you edited. However if you edit a Program or Combination while comparing, your previous edits will be lost. (The key indicator will light while compare is on.) Also, pressing the COMPARE key during PROGRAM mode or COMBINATION mode the edit recall function will call up a value set when moving from the EDIT PROGRAM mode or EDIT COMBINATION mode to a different mode.

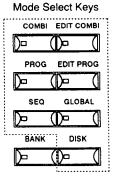
Mode select keys

The lit key indicates the current mode.









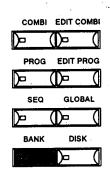


BANK key

Use this key to select Combinations, Programs or songs from internal memory (Banks A, B) or from a PROG/SEQ card. (The indicator will light when Card is selected.)

The bank selected will change with each press of the key (A \rightarrow B \rightarrow C \rightarrow D \rightarrow A \rightarrow B...). For a song, each press of the key will change the selection as follows: I (Internal) \rightarrow C \rightarrow D \rightarrow I.

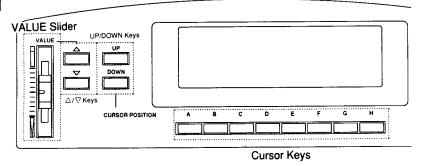
- When selecting PCM (Multisound) card waveforms in the Edit Program mode parameter Oscillator Assign, or in the Global mode drum kit parameters, this CARD key is not used.
- The contents of a PROG/SEQ card are organized into 2 banks (C, D).
- Card sequencer song data can be used directly only when playing. When editing or recording, you must first use the Global mode functions to load it into internal memory. Be aware that loading sequencer data from card will overwrite all sequencer data that was previously in internal memory.
- Be sure that cards are inserted firmly into the correct slot.

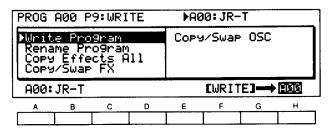


Cursor UP/DOWN keys, cursor $\overline{\mathbf{A}}$ — $\overline{\mathbf{H}}$ keys, VALUE slider

After using the cursor UP/DOWN keys to select the line of parameters you wish to edit, press the \boxed{A} — \boxed{H} key below the desired parameter. Then use the value slider to modify the value of that parameter. To execute a function enclosed in $[\]$ in the display, press the key below it.

- You can perform various functions by pressing another key while holding a key A — H. (See "How to input data", p.16.)





VALUE \triangle / ∇ keys

Use these keys to specify a precise value for a parameter that may be difficult to set using the value slider. To increase the value by 1, press \triangle . To decrease the value by 1, press ∇ . If you continue holding the switch, the value will change continuously. By simultaneously pressing \triangle and ∇ , you can undo the modification (i.e., restore the value of the parameter to state when you selected it).



Press the COMBI/PROG mode select key (or immediately after you have entered Combi/Prog mode), and the cursor " \blacktriangleright "will be displayed on the left of the Combination/Program number in the upper left of the display. If you now press the \triangle key, the next Combination/Program will be selected. (If you press the ∇ key, the previous Combination/Program will be selected.)

- In this case, moving the value slider will not change the Combination/Program. Depending on the effect settings of the selected Combination/Program, you will be able to control the effects instead as well. (Page49. Refer to Page52 in the section Dynamic Modulation.)
- Press a cursor key (A H) and the cursor will move to the corresponding parameter, allowing you to use the △/

 ∨ keys and value slider to edit. (This is known as the "performance edit" function.)

PAGE+/- keys

The various functions of the 01/WproX•01/Wpro are organized into display pages. Use these keys to advance to the next page (PAGE+) or return to the previous page (PAGE-).

START/STOP key

This key is used to start and stop the sequencer. During playback, the indicator will blink red on the first beat, and green on the other beats.

REC/WRITE key

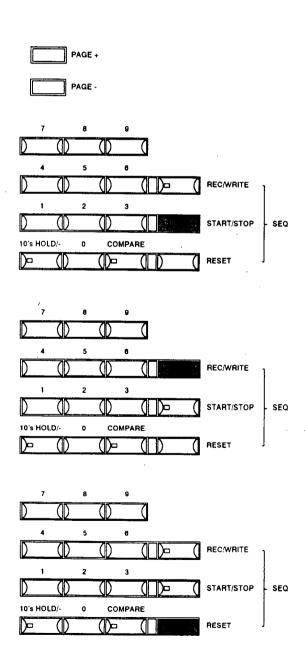
This key is used to record in SEQ mode. When the REC/WRITE key is lit, pressing the START/STOP key will begin recording. To cancel recording, press the REC/WRITE key once again without pressing START/STOP. (The indicator will be lit when recording is on.)

When in Combi, Edit Combi, Prog, or Edit Prog mode, press the REC/WRITE key to write that Combination or Program.

RESET key

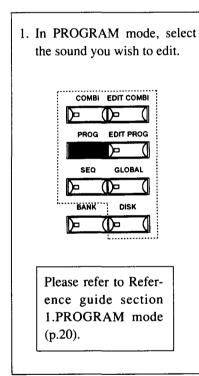
Pressing the START/STOP key in SEQ mode will stop playback, and pressing the RESET key will restore the song position to the beginning of the song (When you have used the Next Song function for continuous playback, this will be the beginning of the song from which playback began.). When you then press the START/STOP key, playback will start from the beginning of the song, and the Program number, volume, etc. of the starting position will be used.

- If you press the START/STOP key without pressing this key, playback will begin from the location where you last stopped (i.e., continue start).
- When the 01/WproX•01/Wpro is being played by the sequencer or from MIDI IN, and for some reason a stuck note occurs, you can press the COMPARE key to turn off the sounding notes. (This can be used in any mode.)



HOW TO CREATE YOUR OWN SOUNDS

This section will explain the process of creating your own sounds on the 01/WproX•01/Wpro.



2. In EDIT PROGRAM mode, create the desired sound, and write it into memory.

COMBI EDIT COMBI

PROG EDIT PROG

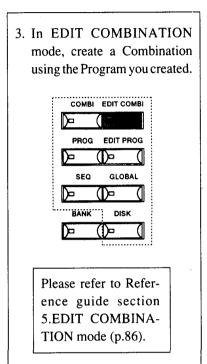
SEQ GLOBAL

PUBLISH

BANK DISK

PUBLISH

Please refer to Reference guide section
2.EDIT PROGRAM mode (p.22).



the sound you created to record a song.

COMBI EDIT COMBI

PROG EDIT PROG

PROG EDIT PROG

SEQ GLOBAL

BANK DISK

DISK

4. In SEQUENCER mode, use

Please refer to Reference guide section 6.SEQUENCER mode (p.98).

ABOUT THE 01/W_{pro}X•01/W_{pro}'S MEMORY

For details, refer to "How the memory of the 01/WproX•01/Wpro is organized", at the end of this manual.

- Any bank may be used when selecting a Combination in the Combination mode.
- Any bank may be used when selecting a Program in the Program mode.
- When selecting Programs to be used in Combinations from Banks A and B (Internal memory), you must choose these Programs from Banks A and B as well. Likesise, when selecting Programs to be used in Combinations from Banks C and D (Card), you must choose these Programs from Banks C and D. In other words: Internal Combinations must use Internal Programs, Card Combinations must use Card Programs.
- Drum Kits must be selected from the same Bank as the Program. For example, when selecting a Drum Kit for a Program from Bank C, the selection must be made from Bank C.

or

Also, a Drum Kit used in editing in Global mode must be taken from the bank currently selected for the Program in Program mode. For example, when you would like to edit a Drum Kit from Bank A, first select a Program (one which has the Drum Kit you wish to edit) from Bank A in the Program mode.

- The data contained in Bank A is used as the Global data. Because of this, when Global data is loaded from a Card (Load Combi/Prog), the Global settings will be changed when loading to Bank A, but the settings will not be changed when loading to Bank B. In addition, even when data being saved to a Card (Save Combi/Prog) is from Bank B, the Global data from Bank A will be saved as well.
- Because Sequence data is lost from the internal memory when the power is turned off, be sure to save data you wish to keep to a disk or card 01/WproX before cutting the power. For the 01Wpro, data will be saved even if the power is turned off. Sequence data can only be accessed directly from a Card when playing. You must first load the data into the internal memory before doing any editing or recording, and the data must then be saved to a Card when finished.

<< Internal memory >>

<bank a=""></bank>	<bank b=""></bank>	Sequence memory	
100 Combinations, 100 Programs, 2 Drum Kits, 1 Global Data	100 Combinations, 100 Programs, 2 Drum Kits	Sequencer Data (10 songs, 100 patterns, up to 48,000 steps)	Sequence data will be lost when the power is turned off. If you wish to keep the data, save it to disk or card before turning the power off.

<< PROG/SEQ data cards >>

The data in a PROG/SEQ card (512 Kbit RAM card) is organized in two BANKs (C, D), and each BANK can contain either of

100 Combinations,	
100 Programs,	
2 Drum Kits,	
1 Global Data	l
	•

Sequence data

10 Songs,
100 patterns,
(up to a maximum of 7,000 steps total)

the following two types of data.

☆ PCM cards are of a different type

☆ The following table shows the modes that allow you to write da	ata into a card and read data from a card.
--	--

<i>1</i> 9	Read	Write
100 program, 100 combinations, 2 drum kits,	Global mode P5-1	Global mode P6-1
1 global data		
All sequence datas (10 songs, 100patterns)	Global mode P5-2	Global mode P6-2
1 Combination	Combi mode	Edit Combi mode P9-1
1 Program	Prog mode	Edit Prog mode P9-1
1 Drum Kit	Edit Prog mode	Global mode P1,2

Note: When using a new card, first save the data for each bank using the Global mode settings P6-1 and P6-20. Saving the data will format the banks, and allow you to load data, read a Program from the card, and write a Program onto the card.

e.x. Saving the data of both BANKs C and D in Global mode P6-1 (100 programs, 100 combinations) will format both banks for programs and combinations.

HOW TO INPUT DATA

There are various ways to input data into the 01/W_{pro}X•01/Wpro.

- Use the VALUE slider, or the ∇ / \triangle keys (See "Key and slider functions").
- "Numeric key input" using the numeric keys (0 9) and the 10's HOLD/– key while holding one of the A H keys.
- "Keyboard input" by playing a note while holding one of the A H keys.

• Numeric key input

This method is convenient when selecting a Program for use in a Combination, when selecting a Multisound, or when inputting a specific number.

- (1) Select the parameter you wish to edit.
- (2) Press the key (A H) that is displayed below the parameter. (Continue pressing the key until step (4).)
- (3) Use the numeric keys (0 9) to input the desired value. To input a negative (-) value, press the 10's HOLD/- key. (This key is also used when selecting a Bank for use by a Timbre in a Combination.)
- (4) When you release the key you pressed in step (2), the value will be entered.
- * In general, the numeric value you specified will be the same as the displayed value, but some parameters (Octave, MG Waveform, etc.) are an exception. If the specified value is outside the valid range for that parameter, the parameter will be set to the nearest valid value. (For example if you enter a number of 20 for a parameter that has a range of -12 +12, it will be given a value of +12.)

Keyboard input

This method is convenient when specifying the area of a key window, or when selecting a key of a Drum Kit using note name parameters. The procedure is essentially the same as for numeric key input, but you will use the keyboard after steps 1 and 2, instead of using the numeric keys.

The keyboard of the $01/W_{pro}X$ allows you to specify notes in the range A0 — C8, and the keyboard for the $01/W_{pro}$ provides a range E1 — G7. (Use of Key Transpose in the Global Mode provides a 7 octave range C1 — C9 for the $01/W_{pro}X$ keyboard, and the $01/W_{pro}X$ keyboard has a 6 octave range E0 — G8.) It is also possible to use MIDI to select settings from an external source (any note C –1 — G9:MIDI note nos. 0 — 127).

- The numeric keys cannot be used to enter parameters for keyboard input.

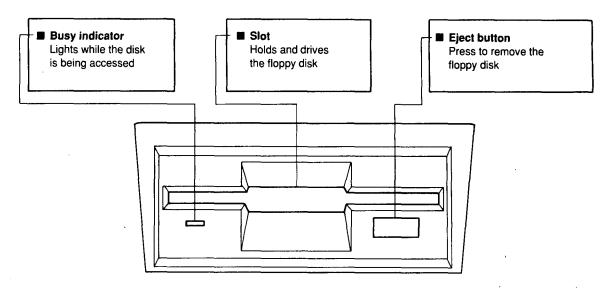
• Returning input values to unedited values

If the COMPARE key is pressed during the editing of a Program or Combination, the values for all parameters will return to the value they had when the Program or Combination was selected, and the COMPARE key LED will light up. Pressing this key a second time will change the values back to those set during editing, and the LED will go out.

THE DISK DRIVE AND FLOPPY DISKS

The 01/WproX, 01/Wpro contains a disk drive. Please observe the following precautions.

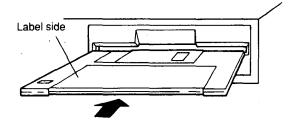
Disk drive



■ Inserting a floppy disk

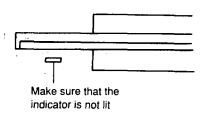
Insert the floppy disk into the drive with the label facing upward. Push the disk into the drive until it clicks into place.

* Floppy disks should be inserted carefully, and pointing straight into the slot.

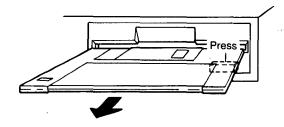


Removing a floppy disk

(1) Make sure that the busy indicator is not lit.

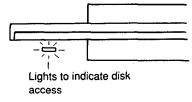


(2) Press the eject button, and remove the disk.



Precautions for the disk drive

* The busy indicator will light when the disk is being accessed (read or written). Never remove the disk or turn off the power when this indicator is lit. Doing so may damage the disk or the data on the disk.

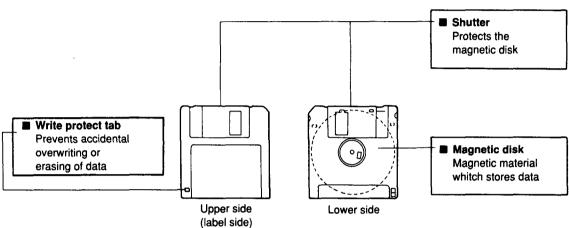


■ Head cleaning

- If the disk drive head becomes dirty, data errors may occur. Accumulated dirt can scratch the disk. Regular cleaning is important to avoid dirt buildup.
- To clean the disk drive head, use a commercially available fluid-type head cleaning disk for dual-sided drives. Using a single-sided cleaning disk may damage the disk drive.

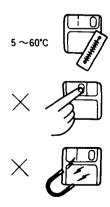
- · Cleaning procedure
- (1) Moisten the cleaning disk with cleaning liquid.
- (2) Immediately insert the cleaning disk into the disk drive, and execute a load operation. (Any type of load operation is ok.) An error message will appear.
- (3) After approximately 10 seconds, press the eject button, and remove the cleaning disk.
- (4) For approximately 5 minutes, do not use the disk drive. (Using the disk drive before the cleaning liquid has dried may cause malfunctions.)

Floppy disks



Floppy disk handling

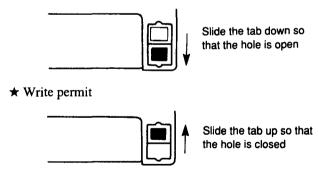
- Avoid using or storing floppy disks in locations of high temperature, high humidity, in direct sunlight, or in excessively dirty or dusty locations.
- Do not open the shutter. Doing so may cause the disk to become dirty or scratched.
- Do not allow floppy disks to be brought near magnets, televisions, speakers, or power transformers. If a disk is exposed to a strong magnetic field, its data may disappear.
- Never transport the 01/WproX•01/Wpro with a floppy disk inserted in the drive. Vibration may cause the disk drive heads to scratch the disk, making it unusable.
- Do not place objects on top of a floppy disk. Doing so can deform the disk, making it unusable.



■ The write protect tab

The small sliding "Write protect tab" at the corner of a floppy disk allows you to prevent important data from being accidentally overwritten.

- ★ When the tab is covering the hole, data can be written onto the disk.
- ★ When the tab is uncovering the hole, data cannot be written onto the disk.
- ★ Write prohibit



Note:

After you save important data, set the write protect tab to the "Protect" position (the hole is open) so that you will not accidentally erase the data. (Slide the tab until it clicks into position.)

APPLICATION SECTION

HOW TO READ A DISPLAY PAGE CHART

P0-6 Pitch EG (pitch EG) ————(2)

A S	Start Level	-99 — +99	Specify how the pitch of OSC1 will change over time.
B AT	Attack Time	0 — 99	
C A	Attack Level	-99 — +99	+99 = approx. 1 octave above Attack level Key on Key on
D DT	Decay Time	0 — 99	0 = pitch of oscillator
E RT	Release Time	0 — 99	when key is held Attack time Release level
FR	Release Level	99 +99	Start level -99 = approx. 1octave below Release time
G L	EG Level Vel. Sens	-99 — +99	Specify how key velocity will affect the depth of the pitch EG.
НТ	EG Time Vel. Sens	-99 — +99	Specify how key velocity will affect the speed of the pitch EG.
3	4	5	6

- (1) P0-6 PITCH EG (pitch EG): This indicates that this display is for the sixth line of page 0, and contains pitch EG parameters.
- (2) Diagrams relating to this page
- (3) Cursor position keys to move to this parameter.
- (4) Parameter name
- (5) Value range (numerical values, etc.) and contents of this parameter (The value written farthest to the left in this panel appears when the VALUE slider is in the lowest position.)
- (6) Explanation of the function of the parameter
- * In this manual, "cursor" refers to the parameter displayed in inverse video.

1. PROGRAM MODE

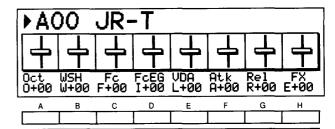
In this mode you can select and play Programs (sounds) from memory. You can select internal Programs A00 — B99, and card Programs C00 — D99.

To select Programs, use the BANK key, the numeric keys (0 — 9), \triangle key and ∇ key, a foot switch (PROG UP/DOWN), or MIDI program change messages.

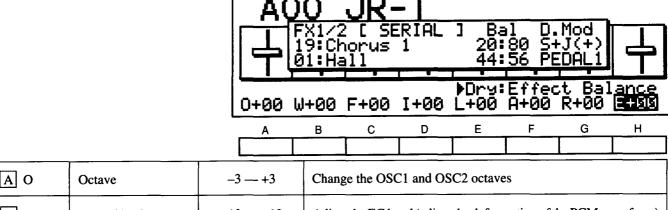
- If you wish to use a footswitch to select programs, set the Global mode Assignable Pedal parameter to "Program Up" or "Program Down" (see p. 165).
- "► FX1" or "► FX2" will be displayed to the right of the program name in situations for which the VALUE slider can be used to control the dynamic modulation of an effect. However, the VALUE slider cannot be used for dynamic modulation during performance editing (while the cursor is located in the bottom row).
- If you wish to use MIDI to select programs, set the Global mode MIDI Filter PROG parameter to "ENA" (see p.159).

- Before selecting a Card Program, insert a PROG/SEQ card containing Program data.
- Pressing the COMPARE key during PROGRAM mode will enable the edit recall function to call up a value set when moving from the EDIT PROGRAM mode to another mode.

Example: After creating a piano sound in the EDIT PRO-GRAM mode and then moving to the PROGRAM mode, although a program number may have been selected, pressing the COMPARE key will leave the combination number as it is and bring up the piano sound.



EDITING WHILE IN PROGRAM MODE ("PERFORMANCE EDITING")



A O	Octave	-3 +3	Change the OSC1 and OSC2 octaves
BW	Wave Shaping	-10 +10	Adjust the EG level (adjust the deformation of the PCM waveform)
C F	VDF Cutoff	-10 +10	Adjust the cutoff frequency of VDF1 and VDF2 (adjusts the tone)
DI	VDF EG Intensity	-10 +10	Adjust the EG intensity of VDF 1 and 2 (how deeply the tone will change over time)
EL	VDA Level	-10 +10	Adjust the level of OSC1 and OSC2 (adjusts the volume)
F A	Attack Time	-10 +10	Adjust the attack time of VDA1 and VDA2 (how quickly the sound will begin)
G R	Release Time	-10 +10	Adjust the release time of VDF1, 2 and VDA1, 2
НЕ	Dry:Effect Balance	-10 +10	Adjust the balance of direct and processed sound for Effect 1, 2

- You can edit major program parameters in Program mode, by pressing a cursor position key (A—H) and using the value slider and the △ / ▽ keys. This can be especially useful during a live performance.
- Editing these program settings will automatically affect the corresponding Edit Program parameters shown on the display (see the following page).

- After using these editing operations, you can write your edits into memory using the REC/WRITE key or in Edit Program mode page 9.
- To return from editing to the previous display, press the CURSOR UP key.

HOW PERFORMANCE EDITING AFFECTS EDIT PROGRAM PARAMETERS

When you are performance editing, adjusting the various performance edit parameters in the "+" direction will affect the Edit Program parameters as follows. (Changes in the "-" direction will have the opposite effect.)

Changes made in Program mode ("performance editing")	Result of editing in the "+" direction		
Octave	OSC 1, 2 Octave	Adjusted in higher octave	
Wave Shaping	Wave Shaping 1, 2, Start Level Wave Shaping 1, 2 Sustain Level	Adjusted in the "+" direction (*1)	
VDF Cutoff	VDF1, 2 Cutoff	Adjusted in the "+" direction (*1)	
VDF EG Intensity	VDF 1, 2 EG Intensity	Adjusted in the "+" direction (*2)	
VDA Level	OSC1, 2 Level	Adjusted in the "+" direction (*1)	
Attack Time	VDA1, 2 Attack Time	Adjusted in the "+" direction (*1)	
Release Time	VDF1, 2 Release Time VDA1, 2 Release Time	Adjusted in the "+" direction (*1)	
Dry:Effect Balance	Effect 1, 2 Balance	Adjusted in the "+" direction (*1)	

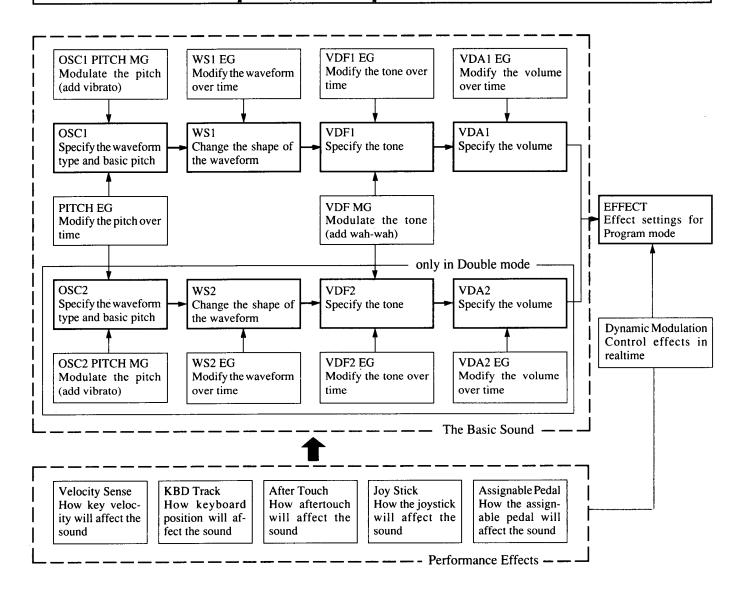
- (*1) Five times the value will be added to the value. For negative (-) values, five times the value will be subtracted from the value. [Value = Value±5xV]
- (*2) Three times the value will be added to the value. For negative (-) values, three times the value will be subtracted from the value. [Value = Value±3xV]
- The resulting values are limited to the range of each parameter.

2. EDIT PROGRAM MODE

This mode is where you edit Program parameters, such as EG settings and the selection of a waveform.

- To edit a Program, you must first select it in Program mode.
- You can also edit Programs while in Program mode ("Performance editing").
- When you finish editing, use page 9 to write your edits into memory. You can also write your edits into memory by pressing the REC/WRITE key. (If you select another Program before doing so, your edits will be lost.)
- While editing, you can press COMPARE to listen to the original un-edited Program. If you press COMPARE again without editing, you will return to the Program being edited.
- ☆ In EDIT PROGRAM mode, the numeric keys select pages, but you can also use them in conjunction with the cursor keys A — H for numeric input.

HOW THE PROGRAM PARAMETERS OF THE 01/WproX, 01/Wpro ARE ORGANIZED



FUNCTIONS IN EDIT PROGRAM MODE

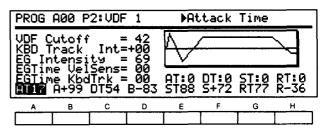
Press a numeric key (0 — 9) to select the page of each function (or use the PAGE+/PAGE-keys).
 Use the ∇ / △ keys to select the line that contains the item you wish to edit, and use the cursor keys (A — H) to select the parameter.

Page	Function	Parameters
P0 OSC		
	0 - 1 OSC Mode	Oscillator mode
	0 - 2 Assign, Hold	Number of voices to sound, and Hold settings
	0 - 3 OSC1 Multisound, Level	Oscillator 1 waveform and level
	0 - 4 OSC2 Multisound, Level	Oscillator 2 waveform and level Double mode only
	0 - 5 OSC2 Interval, Detune	Difference in oscillator 2 relative to oscillator 1 Double mode only
	0 - 6 Pitch EG	Change in pitch over time
P1 Emphasis, WS		
• ,	1 - 1 Emphasis 1	Add brilliance to oscillator 1
	1 - 2 Emphasis 2	Add brilliance to oscillator 2 Double mode only
	1 - 3 Wave Shaping 1	Adjust the waveform modification for oscillator 1
	1 - 4 Wave Shaping 2	Adjust the waveform modification for oscillator 2 Double mode only
		,
P2 VDF1	2 - 1 VDF1 Cutoff	VDE1 outoff fraguerray
	2 - 2 VDF1 KBD Tracking	VDF1 cutoff frequency
	2 - 3 VDF1 KBD Tracking 2 - 3 VDF1 EG Int., Vel Sense	How key position affects VDF1 Adjust VDF1 EG intensity according to velocity
•	2 - 4 VDF1 EG Time Vel Sense	
•	2 - 5 VDF1 EG Time KBD Tracking	How key recition affects VDF1 EG Time
	2 - 6 VDF1 EG	How key position affects VDF1 EG Time Change in VDF1 cutoff frequency over time
	2 - 0 VDI I EG	Change in VDI'l Culon nequency over time
P3 VDF2		Double mode only
	3 - 1 VDF2 Cutoff	VDF2 cutoff frequency
	3 - 2 VDF2 KBD Tracking	How key position affects VDF2
	3 - 3 VDF2 EG Int., Vel Sense	Adjust VDF2 EG intensity according to velocity
	3 - 4 VDF2 EG Time Vel Sense	How key velocity affects VDF2 EG Time
	3 - 5 VDF2 EG Time KBD Tracking	How key position affects VDF2 EG Time
	3 - 6 VDF2 EG	Change in VDF2 cutoff frequency over time
P4 VDA1		
	4 - 1 VDA1 Velocity Sense	How key velocity affects VDA1
	4 - 2 VDA1 KBD Tracking	How key position affects VDA1
	4 - 3 VDA1 EG Time Vel Sense	How key velocity affects VDA1 EG
	4 - 4 VDA1 EG Time KBD Tracking	How key position affects VDA1 EG
	4 - 5 VDA1 EG	Change in VDA1 over time
P5 VDA2		Daubla oral San Ind
IJ VDAL	5 - 1 VDA2 Velocity Sense	Double mode only How key velocity affects VDA2
	5 - 2 VDA2 KBD Tracking	How key position affects VDA2
	5 - 3 VDA2 EG Time Vel Sense	How key velocity affects VDA2 EG
	5 - 4 VDA2 EG Time KBD Tracking	How key position affects VDA2 EG
	5 - 5 VDA2 EG Time KBD Tracking	Change in VDA2 over time
		Change in 1 D112 Offi tillo

^{*} Double mode only: These parameters are displayed only if P0 - 1 OSC Mode has been set to DOUBLE.

Page	Function	Parameters
P6 Pitch Modulation		
	6 - 1 JS, AT Pitch Bend	How the joystick and aftertouch affect pitch
	6 - 2 Pitch MG 1	Oscillator 1 pitch modulation (vibrato)
	6 - 3 Pitch MG1 Mod	Pitch MG1 modulation
	6 - 4 Pitch MG2	Oscillator 2 pitch modulation (vibrato) Double mode only
	6 - 5 Pitch MG2 Mod	Pitch MG2 modulation Double mode only
P7 VDF/VDA		
	Modulation	
	7 - 1 JS, AT Cutoff Bend	How the joystick and aftertouch will affect cutoff frequency
	7 - 2 After Touch VDA Amp	How aftertouch will affect volume
	7 - 3 VDF MG	VDF modulation (wah-wah effect)
	7 - 4 VDF MG Mod	VDF MG modulation
P8 Effect		
	8 - 1 Effect 1 Type, Dynamic Mod	Select effect 1, dynamic modulation settings
	8 - 2 Effect 1 Parameter	Parameters for effect 1
	8 - 3 Effect 2 Type, Dynamic Mod	Select effect 2, dynamic modulation settings
	8 - 4 Effect 2 Parameter	Parameters for effect 2
	8 - 5 Effect Placement	How effects 1 and 2 are arranged
P9 Write/Copy		
	9 - 1 Write Program	Write a program
	9 - 2 Rename Program	Rename a program
	9 - 3 Copy Effects All	Copy effect parameters
	9 - 4 Copy/Swap FX	Copy/exchange between effects 1 and 2
	9 - 5 Copy/Swap OSC	Copy/exchange parameters between OSC1 and OSC2

- The total range of pitch change produced by Pitch Bend, Pitch EG, Pitch Modulation, Aftertouch, etc. is limited to one octave. (In some pitch ranges, some Multisounds will have an even narrower range of pitch change.)
- The total range of tonal change produced by the various VDF parameters and the VDF EG and VDF MG is limited to the tonal range that the VDF can control.
- The range of volume change produced by Oscillator Level and the VDA parameters is limited to the volume range that the VDA can control.
- A graphic of the EG is displayed while you edit EG parameters (Pitch EG, WS EG1/2, VDF EG1/2, VDA EG1/2).



- The display is a graphic indication of the various parameters, and will differ from the actual EG shape.
- To cancel the graphic EG display, move the cursor to a non-EG parameter.

EDIT PROGRAM

Page-0 Oscillator

P0-1 OSC Mode

P0-2 Assign/Hold

P0-3 OSC1 Multisound/OSC1 Level

P0-4 OSC2 Multisound/OSC2 Level

P0-5 OSC2 Interval Detune

P0-6 Pitch EG

PROG	A00 P	0:OSC	,	▶M∪	ıltisc	und	
Assi9 013:4	lode 3n 3fors 11ieke 1nt AT69	POĽÝ lan r =+ØØ	L=54 L=63 Det.ur	Hold 8, 4, ne=+00 RT99	EG Ir Dela	: OFF nt=+00 nt=+00 nt=00 L+00	5:5 5:5 T+00
A	В	С	D	Е	F	G	Н

P0-1 OSC Mode

OSC Mode	:	Tone generator mode	
	SINGLE	One oscillator mode (single)	
	DOUBLE	Two oscillator mode (double)	
	DRUMS	Drums mode (drums)	

- ▼OSC Mode determines the type of the Program. The number of oscillators and the type of waveform used will depend on this setting.
- When SINGLE is selected, one OSC-WS-VDF-VDA system will be used. You will be able to play up to 32 simultaneous notes.
- When DOUBLE is selected, two OSC-WS-VDF-VDA systems will be used. This allows you to create more com-
- plex sounds, but you will be able to play only up to 16 simultaneous notes.
- When DRUMS is selected, a drum kit (a collection of drum sounds) selected in Global mode will be used as the sound source, and pan settings for the drum kit will be used. Other details are the same as for SINGLE.
- * The drum kit selected must be one of the two kits in the same bank used for the Program.

P0-2 Assign / Hold

A	Assign	POLY MONO	Number of voices sounded Play chords of up to the maximum number of voices Play monophonically
E	Hold	ON/OFF	Whether or not the sound will continue after a key is released

- ▼Assign determines whether this Program will play polyphonically (POLY) or monophonically (MONO).
- ▼When Hold is set On, notes will continue sounding even after a key is released. This is useful mainly when playing the Drum Kit. Usually you will set this Off.
- If Hold is On and the VDA EG Sustain Level is other than "0" the sound will never end.

P0-3 OSC1 Multisound	l / Level / Pit	tch EG Intensity	/ Pan
----------------------	-----------------	------------------	-------

A	Multisound	0 — 255, C00 —	Select the OSC1 Multisound (basic waveform) (when the OSC Mode is SINGLE or DOUBLE)
	Drum Kit		Select the Drum Kit (when OSC Mode is DRUMS)
		A: Drum Kit 1,2	When Program is from Bank A
		B: Drum Kit 1,2	When Program is from Bank B
		C: Drum Kit 1,2	When Program is from Bank C
		D: Drum Kit 1,2	When Program is from Bank D
DL	OSC Level	0 — 99	Volume of oscillator 1
	Octave		Specify the octave of oscillator 1
		32'	2 octaves lower
E		16'	1 octave lower
		8'	Normal pitch
!		4'	1 octave higher
F EG Int	Pitch EG Intensity	-99 — +99	The depth of the pitch change over time
H	Pan	A, 9:1—1:9, B, C, C+D, D, ALL	The output destination of oscillator 1

- ▼When the P0 1 OSC Mode setting is SINGLE or DOU-BLE, this parameter selects the Multisound used by Oscillator 1.
- Multisounds indicated by "NT" will produce the same pitch regardless of the key that is pressed.
- Since each Multisound (waveform) has an upper limit to its pitch range, some Multisounds will produce no sound when played in high octaves.
- If an optional PCM card is inserted into the rear panel slot, you will be able to select Multisounds from the card as well.
 To see the selectable Multisounds, move the VALUE slider past Multisound number 254, or press the 10's HOLD/- key when using numeric key input.

- Note:

Insert or remove PCM cards only when the power is turned off, or when the unit is producing no sound.

- ▼When the OSC Mode is set to DRUMS, this parameter selects either Drum Kit 1 or Drum Kit 2, from the same bank as that used for the program.
- You can assign drum sounds to a Drum Kit at P1, P2 in Global mode. However, because the Drum Kit selected will be from the same bank used for the currently selected Program, first choose a bank while in Program mode, then select a Program with the desired Drum setting before changing to the GLOBAL mode.
- ▼ OSC Level determines the volume of Oscillator 1. 99 is the

- maximum volume.
- For some sounds, high settings of OSC Level will result in distortion when chords are played. In such cases, lower the OSC Level.
- ▼Octave sets the basic pitch of Oscillator 1 in units of an octave. If the setting here is not 8', special attention should be paid when you set the keys of the keyboard tracking parameter. In addition, when the OSC mode is DRUMS, set this to 8'.
- ▼Pitch EG Intensity determines the amount of the pitch EG change produced by the settings in P0-6 Pitch EG.
- ▼Pan (panpot) determines the output destination of oscillator 1 (i.e., the input to the effect system).
 You can select A, B, C, D or ALL.
 The AB balance can be adjusted → A, 9:1 1:9, B
 The CD balance cannot be adjusted → C, C+D, D

It is possible to send the sound to all outputs \rightarrow ALL

- If the OSC Mode has been set to DRUMS, this will not display anything, and the panpot settings made for the drum kit in Global mode will be used.

P0-4 OSC 2 (Oscillator 2) (DOUBLE Mode only)

A	Multisound	0 — 255, C00 — A/B/C/D: Drum Kit I, 2	Select a Multisound for OSC2 Select a drum kit
DL	OSC Level	0 — 99	Oscillator 2 volume
			Specify the octave of oscillator 2
		32'	2 octaves lower
E	Octave	16'	1 octave lower
	·	8'	Normal pitch
		4'	1 octave higher
FEG Int	Pitch EG Intensity	_99 +99	The depth of the pitch change over time
H	Pan	A, 9:1 — 1:9, B, C, C+D, D, ALL	The output destination of oscillator 2

- * Settings for Oscillator 2 can be made only if OSC Mode (P0-1) is set to DOUBLE.
- ▼Multisound (Multisound select) selects the Multisound for oscillator 2. The selection is the same as in P0-3 OSC1 Multisound.
- **▼**OSC Level (oscillator level) determines the volume of oscillator 2.
- **▼**Octave determines the octave of oscillator 2.
- ▼Pitch EG Intensity determines the amount of the P0-6 Pitch EG effect.
- ▼Pan (panpot) determines the output destination of oscillator 2.

P0-5 OSC2 Interval/Detune/Delay (DOUBLE Mode only)

B Int	Interval	-12 +12	Interval (in chromatic steps) of OSC2 relative to OSC1
D Detune	Detune	-50 — +50	Detune between OSC1 and OSC2
F Delay	Delay Start	0 — 99	Time delay of OSC2 relative to OSC1

- ▼Interval determines the pitch difference (in chromatic steps over a range of -12 +12) of oscillator 2 relative to oscillator 1. This can be used so that oscillators 1 and 2 form a chord.
- ▼Detune specifies the pitch difference between oscillators 1 and 2 in fine steps of 1 cent (-50 +50). By slightly detuning oscillators 1 and 2, you can create richer sounds.

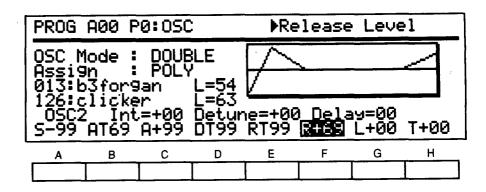
The following table shows how Detune affects the pitch.

Detune	OSC1 Pitch	OSC2 Pitch
+50	-25 cent	+25 cent
	•	
	•	•
0	0	0
	•	•
	-	
-50	+25 cent	-25 cent

If you set Detune to a positive (+) value, the pitch of OSC1 will be lowered, and the pitch of OSC2 will be raised. Negative (-) values will have the opposite effect. As this value is increased, the pitches of OSC1 and OSC2 will spread further apart from 0.

▼Delay Start specifies the time delay of oscillator 2 relative to oscillator 1 over a range of 0 — 99. (If you do not wish to use this effect, set this to a value of 0.)

P0-6 Pitch EG

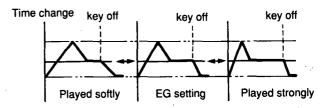


AS	Start Level	-99 — +99	These parameters determine pitch change over time
ВАТ	Attack Time	0 — 99	+99 = approx. 1 octave above
CA	Attack Level	_99 — +99	Key on Attack level Key off
DDT	Decay Time	0 — 99	oscillator when key is Dacay Release level
ERT	Release Time	0 — 99	held dowm Attack time time Start level Release time
FR	Release Level	-99 — +99	-99 = approx. 1 octave below
GL	EG Level Vel. Sens.	-99 — +99	How velocity affects the amount of pitch EG
Нт	EG Time Vel. Sens.	-99 — + 99	How velocity affects the speed of the pitch EG

- ▼These parameters determine how the pitch will change over time.
- Inverting the + and values for each EG level will invert the shape of the EG.
- * Pitch EG can be used for both OSC1 and OSC2.
- The amount of effect is determined by the EG Intensity parameter for OSC1 in P0-3, and for OSC2 in P0-4.
- ▼For positive (+) values of EG Level Vel. Sense (EG level velocity sensitivity), the pitch change will become greater as you play more strongly. (Negative (-) values will have the opposite effect.) The range of pitch change produced by the Pitch EG is limited to ±1 octave.
 - For positive (+) settings



- ▼For positive (+) values of EG Time Vel. Sens. (EG time velocity sensitivity), the pitch change will become faster as you play more strongly. (Negative (-) values will have the opposite effect.)
 - For positive (+) settings



Page-1 Emphasis, Wave Shaping

P1-1 Emphasis 1 P1-2 Emphasis 2

P1-3 Wave Shaping 1 P1-4 Wave Shaping 2 PROG A00 P1:EMP/W.S ▶Emphasis Inten

Emphasis 1 Intensity=00 Vel.Sense=+00
Emphasis 2 Intensity=00 Vel.Sense=+00

WS1=00:CLICK1 US+00 S99 DT70 SL30
WS2= OFF US+00 S99 DT00 SL99

A B C D E F G H

P1-1 Emphasis 1

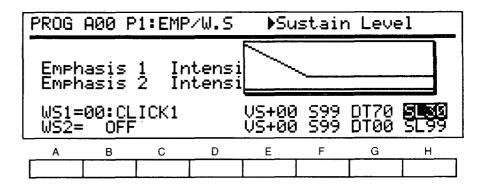
A	Emphasis Intensity	0 — 99	The emphasis effect
F	Emphasis Velocity Sens	-99 — +99	How velocity will affect the emphasis effect

- * Emphasis is an effect that makes the sound stand out more clearly.
- ▼Intensity determines the depth of the emphasis effect. Higher values will result in a greater effect.
- ▼Velocity Sens (velocity sensitivity) determines how key velocity will affect the amount of emphasis.
- For positive (+) values, strongly played notes will have more emphasis. For negative (-) values, strongly played notes will have less emphasis.
- As the value approaches –99 or +99, your playing dynamics will have a greater effect.

P1-2 Emphasis 2 (DOUBLE Mode only)

- ▼Specify the emphasis setting for oscillator 2.
- Details are the same as for P1-1.

P1-3 Wave Shaping 1



A	WS Table	OFF, 0 — 59	Select the table used to shape the waveform
EVS	WS Velocity Sens	_99 — +99	How velocity will affect the amount of change
FS	WS EG Start Level	0 — 99	How wave shaping will change over time
G DT	WS EG Decay Time	0 — 99	
H SL	WS EG Sustain Level	0 — 99	· · · · · · · · · · · · · · · · · · ·

- * This modifies the waveform of the PCM audio signal that is output by oscillator 1, generating harmonics that were not present in the original signal. The essential character of the sound is determined by the Multisound you select in P0-3, but these Wave Shaping parameters can be applied to change it into a very different sound.
- ▼WS Table (wave shaping table) selects the table that will be used to modify the PCM waveform. For example, wave shaping tables can slightly change the character of the sound, add resonance, add distortion, etc.
 - If you are not going to shape the waveform, select "OFF".

- ▼WS Velocity Sens (wave shaping velocity sensitivity) determines how EG levels (start level, sustain level) will be affected by your keyboard dynamics.
- For positive (+) values, strongly played notes will have greater change. As the value approaches –99 or +99, your playing dynamics will have a greater effect.
- * The selection of some settings may create some distortion in the sound.

▼WS EG (wave shaping EG)

- These parameters determine how wave shaping will change over time.
- The WS EG levels determine how greatly the waveform will be modified.
- Higher levels will result in greater change.
- For some tables, the volume may decrease at lower levels.

P1-4 Wave Shaping 2 (DOUBLE Mode only)

- * This deforms the waveform of the PCM audio signal that is output by oscillator 2, generating harmonics that were not present in the original signal.
- The details are the same as for P1-3 Wave Shaping 1.

Page-2 VDF1

P2-1 VDF1 Cutoff

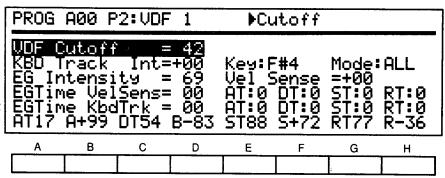
P2-2 VDF1 KBD Tracking

P2-3 VDF1 EG Int./Vel Sense

P2-4 VDF1 EG Time Vel Sense

P2-5 VDF1 EG Time KBD Tracking

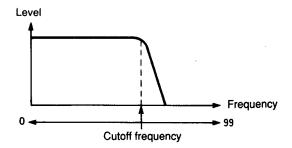
P2-6 VDF1 EG



P2-1 Cutoff

VDF Cutoff	0 — 99	VDF1 cutoff frequency (tonal brightness)

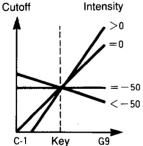
- * The VDF (Variable Digital Filter) cuts the high frequency range of the multisound to control the tone.
- ▼Cutoff determines the VDF cutoff frequency. Lower values will result in a darker sound.



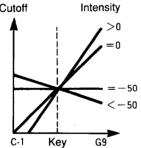
P2-2 KBD Tracking (keyboard tracking)

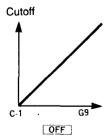
A	KBD Tracking Intensity	- 99 — + 99	How keyboard position will affect VDF1
E Key	Key	C-1 — G9	If the Keyboard Tracking Mode is LOW or HIGH, this determines the key from which keyboard tracking will begin. If ALL, this determines the key around which the keyboard will be tracked (i.e., the key at which no change will occur).
G Mode	KBD Tracking Mode	OFF LOW HIGH ALL	The area over which keyboard tracking will occur Keyboard tracking will not occur Keyboard tracking will occur in the low range Keyboard tracking will occur in the high range Keyboard tracking will occur over the entire range

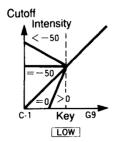
- * VDF Keyboard Tracking allows the keyboard position to affect the VDF cutoff frequency.
- ▼For positive (+) values of KBD Tracking Intensity (cutoff keyboard tracking intensity), higher notes will be brighter. (Negative values will have the opposite effect.) As the value approaches +99 or -99, the change will be greater, and for a value of 0, the cutoff frequency will change in exact proportion to the pitch.
- At a value of -50, the cutoff frequency will be the same for all notes, regardless of the keyboard position.

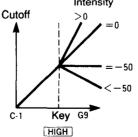


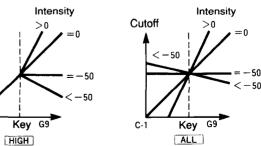
▼KBD Tracking Mode specifies the area over which keyboard tracking will occur. When this parameter is OFF, the P2-2 keyboard tracking Intensity and P2-5 EG Time KBD Track are disabled.









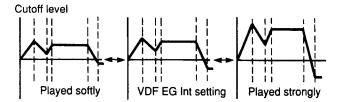


▼If the Keyboard Tracking Mode is LOW or HIGH, the Key parameter specifies the key from which keyboard tracking will occur. If the Keyboard Tracking Mode is ALL, the Key parameter specifies the key around which keyboard tracking will occur (i.e., the key at which the Cutoff/EG Time will not be changed). You may specify the key parameter from the keyboard.

P2-3 EG Intensity

A	EG Intensity	0 99	The depth of tonal change produced by the VDF1 EG
E	Vel Sense	–99 — +99	How velocity will affect the VDF1 EG effect

- ▼EG Intensity determines the amount of the change in cutoff frequency produced by the VDF EG (P2-6) in the following item (P2-6). For a value of 99, the cutoff EG will produce the maximum change.
- ▼Vel Sense (EG intensity velocity sensitivity) determines how keyboard dynamics will affect the tone.
- For positive (+) values, softly played notes will have less change in cutoff frequency than specified by the VDF EG.
- For negative (-) values, strongly played notes will have less change in cutoff frequency than specified by the VDF EG.
 (These changes are relative to the values specified by EG Intensity.)
- ☆ For many acoustic instruments, softly played notes have less energy in the high frequency region. To simulate this, you can set the VDF to a fairly low cutoff frequency, and set all VDF EG sustain level, VDF EG intensity, and VDF EG intensity velocity sensitivity parameters to positive values.
- For positive (+) values

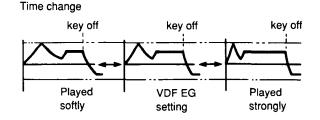


P2-4 EG Time Velocity Sense (EG time velocity sensitivity)

A	EG Time Vel. Sens	0 — 99	How velocity will affect the time of VDF1 EG
EAT	Attack Time	-, 0, +	The direction in which EG Time Velocity will affect the
F DT	Decay Time	-, 0, +	parameters of the VDF1 EG (for a value of 0 there will be no effect)
G ST	Slope Time	-, 0, +	
HRT	Release Time	-, 0, +	

- ▼EG Time Vel.Sense (EG time velocity sensitivity) determines how keyboard dynamics will affect the speed of the VDF EG. For a setting of "+", strongly played notes will have a shorter time (Attack/Decay/Slope/Release Time). For a setting of "-", strongly played notes will have a longer time.
- The value of EG Time Vel. Sense also applies to the four time parameters. You can specify +/- (the direction of change) independently for Attack, Decay, Slope, and Release. This is also true of P2-5 VDF EG Time KBD Track, P4-3 VDA EG Time Vel. Sense, and P4-4 VDA EG Time KBD Track.

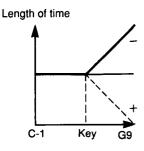
- If each parameter is set to "+"



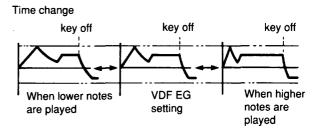
P2-5 EG Time KBD Track (EG time keyboard tracking)

A	EG Time KBD Track	0 — 99	How keyboard position will affect the time of VDF1 EG
E AT	Attack Time	-, 0, +	The direction in which EG time keyboard tracking will affect the parameters of the VDF1 EG (for a value of 0 there
F DT	Decay Time	-, 0, +	will be no effect)
G ST	Slope Time	-, 0, +	
HRT	Release Time	-, 0, +	

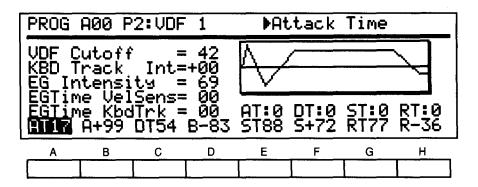
- ▼EG Time (EG time keyboard tracking) determines how keyboard position will affect the speed of the VDF EG. For a setting of "+", notes above the key specified in P2-2 [E] will have shorter VDF EG times (Attack/Decay/Slope/Release Time). For a setting of "-", notes above the key specified by P2-2 [E] will have longer VDF EG times. The key specified by P2-2 and the 'Key' and 'Keyboard Tracking Mode' determine the range which is affected.
- When Keyboard Tracking Mode is High.



- If each parameter is set to "+"



P2-6 VDF1 EG



A AT	Attack Time	0 — 99	How the VDF1 cutoff will change over time
BA	Attack Level	-99 — +99	Value set by
C DT	Decay Time	0 — 99	EG Intensity Attack level Key off
DB	Break Point	-99 +99	Key on +
E ST	Slope Time	0 — 99	Cutoff by Break Sustain level
FS	Sustain Level	_99 — +99	P2-1 Attack Decay Release
G RT	Release Time	0 — 99	time time Slope time Release time
HR	Release Level	_99 +99	

- * These parameters determine how the VDF1 cutoff frequency will change over time.
- If you invert the "+" and "-" values of the EG levels, the EG will be inverted.
- VDF1 EG Intensity will determine the overall EG levels.

Page-3 VDF2 (only for DOUBLE mode)

P3-1 VDF2 Cutoff

P3-2 VDF2 KBD Tracking

P3-3 VDF2 EG Int./Vel Sense

P3-4 VDF2 EG Time Vel Sense

P3-5 VDF2 EG Time KBD Tracking

P3-6 VDF2 EG

PROG	A00 P	3:VDF	2	▶Cυ	utoff		
KBD T EG Ir EGTim EGTim	utoff rack ntensi ne Vel ne Kbd A+65	Int= ty = Sens= Trk =	= 00 = 00 = 00	AT:0	#4 ense DT:0 DT:0 S+04	ST:0	RT:0
A	В	С	D	E	F	G	Н

- ▼This is the VDF for oscillator 2.
- The details are the same as for Page-2 VDF1.
- ☆ To select DOUBLE mode or SINGLE mode, use Page-0 OSC Mode.

Page-4 VDA1

P4-1 VDA1 Velocity Sense

P4-2 VDA1 KBD Tracking

P4-3 VDA1 EG Time Vel Sense

P4-4 VDA1 EG Time KBD Tracking

P4-5 VDA1 EG

PROG	A00 P	4:UDF	1	▶Ue	elocit	y Ser	ise
KBD T EGTim EGTim	its s rack e Vel e Kbd A+99	Int= Sens= Trk =	+00 - 00 - 00	AT:0	DT:0	Mode: ST:0 ST:0 RT88	RT:0
Α	В	С	D	E	F	G	Н

P4-1 Velocity Sense

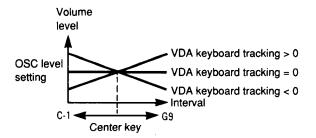
VDA Velocity Sense	-99 — +99	How key velocity affects the volume change produced by the VDA1
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- ▼VDA Velocity Sense (VDA velocity sensitivity) determines how key velocity will affect the volume. For positive (+) values, softly played notes will be softer. For negative (-) values, strongly played notes will be softer. As the value approaches +99 or -99, key velocity will have a greater effect on the volume.
- ☆ In DOUBLE mode, you can achieve a velocity crossfade effect by giving oscillators 1 and 2 opposite settings for VDA Velocity Sensitivity. This will allow you to fade between sounds by playing softly or strongly. By setting oscillators 1 and 2 to the same values (use Oscillator Copy in P9-5) and setting only the panpot parameter to different values (A and B), you can use velocity to control panning.

P4-2 KBD Tracking

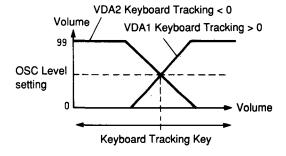
A	KBD Tracking Intensity	-99 — +99	How keyboard position will affect VDA1 volume change
E Key	Key	C-1 — G9	When the Keyboard Tracking Mode is LOW or HIGH, this specifies the key from which keyboard tracking will begin to take effect. When the Keyboard Tracking Mode is ALL, this specifies the center key around which VDA1 keyboard tracking will take effect (i.e., the key which will not be affected).
G Mode	KBD Tracking Mode	OFF LOW HIGH ALL	The range over which keyboard tracking will occur Keyboard tracking will not occur Keyboard tracking will occur for the low note range Keyboard tracking will occur for the high note range Keyboard tracking will occur over the entire note range

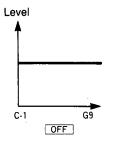
- * VDA Keyboard Tracking determines how VDA volume will be affected by the key position.
- ▼For positive (+1 +99) settings of KBD Tracking Intensity, the volume will increase as you play higher notes. For negative (-1 -99) settings, the volume will decrease as you play higher notes.
- When the Keyboard Tracking Mode is LOW or HI, the Key parameter specifies the key from which keyboard tracking will begin to take effect. When the Keyboard Tracking Mode is ALL, the Key parameter specifies the center key around which keyboard tracking will take effect (i.e., the key at which volume and EG Time will not be affected). You may specify the key parameter from the keyboard.

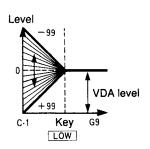


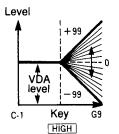
▼KBD Tracking Mode determines the range over which keyboard tracking will occur. When this parameter is OFF, the P4-2 Keyboard Tracking and P4-4 EG Time Keyboard Track are disabled.

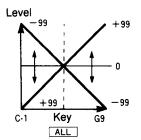
- ☆ In DOUBLE mode, you can create a "positional crossfade" effect by setting an identical keyboard tracking key for both oscillators 1 and 2, and giving them opposite "+" and "-" settings.
- The resulting volume after the Keyboard Tracking setting is applied will stay within the range of 0 99.



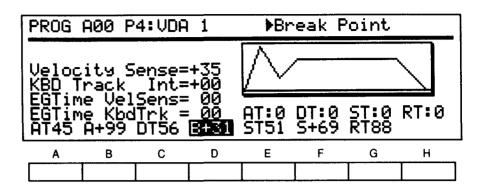






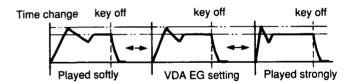


P4-3 EG Time Velocity Sensitivity



A	EG Time Vel. Sense	0 99	How key velocity affects VDA1 EG time
E AT	Attack Time	-, 0, +	These settings determine the direction in which the various VDA1 EG parameters (attack time, etc.) will be affected by
F DT	Decay Time	-, 0, +	key velocity, in the amount specified by EG Time Velocity Sensitivity. (Parameters set to 0 will not be affected by key
G ST	Slope Time	-, 0, +	velocity.)
H RT	Release Time	-, 0, +	

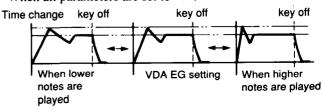
- ▼EG Time Velocity Sensitivity determines how much effect the key velocity will have on the speed of the VDA EG time parameters (Attack / Decay / Slope / Release). For each parameter, you can specify the direction of the change controlled by key velocity; parameters set to "+" will have shorter VDA EG times as you play more strongly, and parameters set to "-" will have longer VDA EG times as you play more strongly.
- ☆ For example if Attack Time is set to "+", strongly played notes will have a sharp attack, and softly played notes will have a gentle attack. This is especially effective for string sounds.
- When all parameters are set to "+":



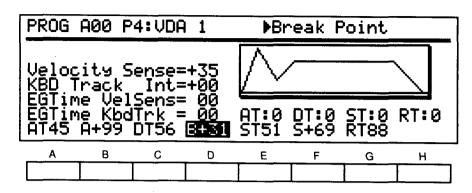
P4-4 EG Time KBD Tracking

A	EG Time KBD Track	0 — 99	How key position affects VDA1 EG time
EAT	Attack Time	-, 0, +	These settings determine the direction in which the various VDA1 EG parameters (attack time, etc.) will be affected by
F DT	Decay Time	-, 0, +	key position, in the amount specified by EG Time KBD Track. (Parameters set to 0 will not be affected by key
G ST	Slope Time	-, 0, +	position.)
HRT	Release Time	-, 0, +	

- specified by P4-2 and the 'key' and 'keyboard Tracking Mode' determine the range which is affected.
- When all parameters are set to "+":



P4-5 VDA1 EG

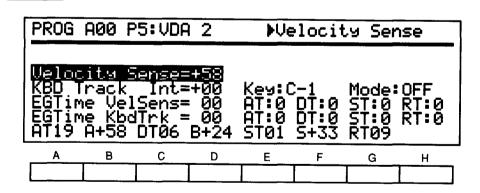


AAT	Attack Time	0 — 99	These parameters specify the shape of the VDA EG to determine how the volume will change over time.
ВА	Attack Level	0 — 99	Attack level Key off
CDT	Decay Time	0 — 99	
DВ	Break Point	0 — 99	Volume Key on Sustain
E ST	Slope Time	0 — 99	level
FS	Sustain Level	0 — 99	Attack Decay point
G RT	Release Time	0 — 99	time time Slope time Release time

^{*} The VDA (Variable Digital Amplifier) is the section that modifies the volume of the waveform.

▼The VDA EG determines how volume will change over time.

Page-5 VDA2 (only for DOUBLE mode)



[▼]This is the VDA for oscillator 2.

⁻ The details are the same as for Page-4 VDA1.

[☆] To select DOUBLE mode or SINGLE mode, use Page-0 OSC Mode.

Page-6 Pitch Modulation

P6-1 Joy Stick Pitch Bend Range/ After Touch Bend

P6-2 Pitch MG1

P6-3 Pitch MG1 Modulation

P6-4 Pitch MG2

P6-5 Pitch MG2 Modulation

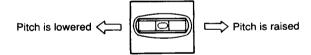
PROG	A00 P	6:Pit	ch MG	∳Jc	y-sti	ck	
JSE	Pitch	Bend	=+02	Aft	Touch	Bend	+00
	KBD F	=+00 IGI F	Free=	F=0 63	AT00 I:17	JS00 DL00	FI31 S:OFF FI00 S:OFF
Α	В	С	D	E	F	G	Н
			<u> </u>		<u>L</u>	L	<u> </u>

P6-1 Joy Stick Pitch Bend Range / After Touch Bend

A	Joy Stick Pitch Bend Range	-12 — +12	The maximum effect that the joystick will have on pitch (up to +/- 1 octave)
E	After Touch Bend	-12 — +12	The maximum effect that after touch will have on pitch

- ▼Joy Stick Pitch Bend Range specifies the maximum pitch change (in half-steps) that will occur when the joystick is moved to left or right. For the maximum setting of 12, the pitch will change one octave up or down. For positive settings (+1 +12), moving the joystick to the right will raise the pitch. Negative settings will have the opposite effect.
- For positive settings:

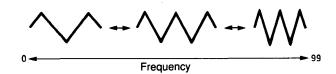
▼After Touch Bend specifies the maximum pitch change (over a range of -12 — +12 half-steps) that will occur when you press down on the keyboard after playing a note; i.e., aftertouch.



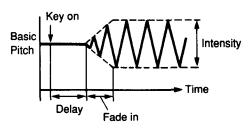
P6-2 Pitch MG1

			Select the modulation waveform
		TRIANGLE	Triangle wave
B	Waveform	SAW UP	Upward sawtooth wave
D	Waveloriii	SAW DOWN	Downward sawtooth wave
		SQUARE	Square wave
		RANDOM	Random
D Freq	Frequency	0 — 99	Speed of modulation
FI	Intensity	0 — 99	Depth of modulation
G DL	Delay	0 — 99	Delay from when key is pressed to when modulation begins
H FI	Fade In	0 — 99	Time from when the modulation begins to when it reaches the level specified by the Intensity parameter

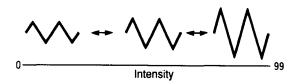
- * Pitch MG (pitch modulation generator) periodically varies the pitch (creates vibrato). These are the oscillator 1 Pitch MG parameters.
- **▼**Waveform selects the modulation waveform; i.e., the "shape" of the variation in pitch.
- Saw Up upward sawtooth wave
- Saw Down N downward sawtooth wave
- Square wave
- Random fregular change
- ▼Frequency determines the modulation frequency (the speed of the pitch variation). A setting of 99 results in the fastest modulation.
- When Triangle wave is selected:



- ▼Delay determines the time delay from when a key is pressed to when modulation begins.
- ▼Fade In specifies the time from when the modulation begins to when it reaches the setting specified by the Intensity parameter.



- ▼Intensity determines the depth of the modulation.
- When Triangle wave is selected:



P6-3 Pitch MG1 Modulation

B KBD F	Frequency Mod by KBD Track	-99 +99	How keyboard tracking will affect the MG speed
D AT+	Frequency Mod by After Touch + Joy Stick	0 — 9	How aftertouch and the joy stick will affect the speed of Pitch MG
FAT	Intensity Mod by After Touch	0 — 99	How aftertouch will affect the amount of Pitch MG
G JS	Intensity Mode by Joy Stick	0 — 99	How the joystick will affect Pitch MG
НS	Key Sync	OFF ON	Modulation will apply to all notes in the same way Modulation will be started independently for each new note

- ▼When plus(+) is selected for Frequency Mod by KBD Track, as higher notes are played, the speed of the Pitch MG will increase accordingly. When minus (-) is selected, the speed of the Pitch MG will decrease as higher notes are played. The Pitch MG will not be affected when a value of 0 is selected. C4 (middle C) is the center key.
- ▼Frequency Mod by After Touch + Joy Stick specifies how much the Pitch MG speed will increase in response to aftertouch and the joy stick.
- ▼The greater the After Touch value, the greater the effect on the Pitch MG when a key is played strongly.
- ▼The greater the Joy Stick value, the greater the effect on the Pitch MG when the joy stick is pushed upward.

- ▼If Key Sync is set ON, the modulation waveform will be restarted for each newly played note.
- * After Touch allows you to affect the sound by pressing down on the keyboard after playing a note.
- * The Joy Stick can be moved in the +Y axis (away from you) to control the Pitch MG effect.

Pitch MG becomes deeper Pitch MG becomes faster

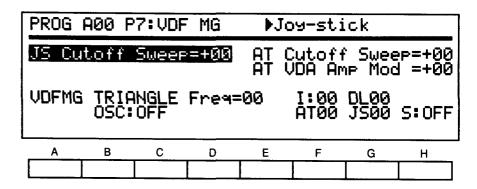


P6-4, 5 Pitch MG2, Pitch MG2 Modulation (Double mode only)

These parameters determine the Pitch MG for oscillator 2.

- The details are the same as for P6-2,3 Pitch MG1 and Pitch MG1 Mod.

Page-7 VDF/VDA Modulation

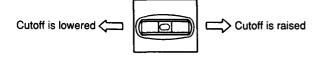


P7-1 VDF Sweep by JS, AT (VDF Sweep by Joy Stick, After Touch)

A	Joy Stick VDF Sweep Intensity	-99 — +99	How the joystick will affect VDF cutoff
E	After Touch VDF Cutoff	-99 — +99	How aftertouch will affect cutoff (tone)

- ▼VDF Sweep Int. (VDF sweep intensity) specifies how the VDF cutoff will change when the joystick is moved to left or right. For positive values, moving the joystick to the right will raise the cutoff value. Negative values will have the opposite effect.
- ▼For positive values of After Touch VDF Cutoff, pressing down on the keyboard will increase the cutoff value (the sound will become brighter). Negative values will have the opposite effect.

- For positive (+) values:



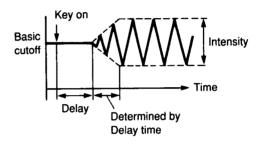
P7-2 VDA Amp Mod by After Touch

▼For positive values of After Touch VDA Amplitude, pressing down on the keyboard will increase the volume. Negative values will have the opposite effect.

P7-3 VDF MG

			Select the modulation wave	form
		TRIANGLE	Triangle wave	\sim
		SAW UP	Upward sawtooth wave	M
В	Waveform	SAW DOWN	Downward sawtooth wave	W
		" SQUARE	Square wave	\Box
		RANDOM	Random	<u>ل</u>
D Freq	Frequency	0 — 99	Speed of modulation	
FI	Intensity	0 — 99	The intensity of modulation	
G DL	Delay	0 — 99	The time from when a key i will begin	s pressed to when modulation

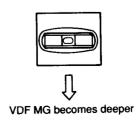
- ▼VDF MG (VDF modulation) creates periodic variation in the Cutoff Frequency, resulting in a "wah-wah" effect.
- The details are the same as for Pitch MG, but there is no Fade In parameter. (The Fade In time will depend on the Delay Time.)



P7-4 VDF MG Modulation

B osc	OSC Select	OFF OSC1 OSC2 BOTH	No modulation effect Modulation will affect only VDF1 Modulation will affect only VDF2 Modulation will affect both VDF1 and VDF2
F AT	Intensity Mod by After Touch	0 — 99	How aftertouch affects VDF MG
G JS	Intensity Mod by Joy Stick	0 — 99	How the joy stick affects VDF MG
H S	Key Sync	OFF ON	Modulation will apply to all keys in the same way Modulation will be re-started for each key-on

- ▼Since VDF1 and VDF2 share the same VDF MG, OSC Select specifies the VDF to which the MG will be applied.
- ▼For higher values of MG Int by AT, aftertouch will increase the effect of the VDF MG. For a value of 0, there will be no change.
- ▼For higher values of MG Int by Joy Stick, moving the joystick toward you will deepen the effect of the VDF MG.
- ▼If Key Sync is set ON, the modulation waveform will be restarted for each key when it is pressed.
- Details are the same as for P6-3 Key Sync
- * VDF Cutoff MG depth is controlled by the -Y direction of the joy stick (i.e. pulling the joystick toward you).



Page-8 Effect

For details of the following parameters, refer to "Effect Parameters" (p.49).

P8-1 Effect 1 Type, Dynamic Mod

P8-2 Effect 1 Parameter

P8-3 Effect 2 Type, Dynamic Mod

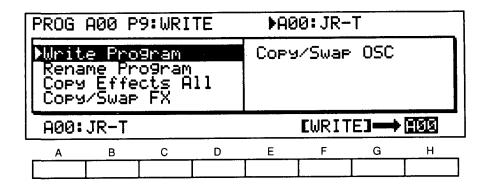
P8-4 Effect 2 Parameter

P8-5 Effect Placement

PROG	A00 P	8:EFF	ECT				
FX1=1	9:Cho 50.30	rus 1 M60	TRI	ON:	Mod:9 L+06 H	;+J(+) +00 →	I+15 20:80
1 3.2	1:Hal 0060 RIAL]	E62	HD30	:ON OFF	Mod: F L+00 F Out4	PEDAL1 1+00 → = OF	I+15 44:56 F
Α	В	С	D	E	F	G	Н

- Effect settings made here will apply only to the Program for which they are made.
- In Program mode, the Pan (A D) output of the oscillator is sent to the effect units.
- * If a cursor key A H is held down while the EDIT PROG key is pressed in the COMBINATION or EDIT COMBINATION mode, you will be able to edit the program parameters for the corresponding program (A—H) while listening to the entire Combination. Since the Combination has its own set of Effects, this page would not be desplayed.

Page-9 Write/Copy



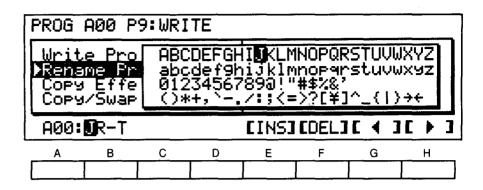
P9-1 Write

F	[WRITE]	Execute the writing operation
H	A00 — B99, C00 — D99	The Program number to write

- ▼This operation is used to write an edited Program into internal memory or a RAM card.
- To write (save) a program to disk, use the operation in Disk mode. This will save all 200 internal programs to disk.
- (1) Select the Program number for the writing destination (cursor key \boxed{H}). The Program name of the writing destination will be displayed at the top right position.
- (2) Press [WRITE] (cursor key F).
- (3) The display will ask "Are You Sure?". If you are sure you want to write the data into memory, press [YES] (cursor key [E]).
 - Be aware that the data previously in that memory will be lost.
 - To quit without writing, press [NO] (cursor key G).
 - Writing is not possible if Program Memory Protect has been turned on. (Turn off memory protect in Global mode.)

- (4) When writing is completed, the display will show «Write Completed».
 - Press a cursor key (A H) to return to the display from which you began the procedure.
- ☆ When writing a Drums program to a different Bank, the Drum Kit used will be changed to match the one in the Bank of the writing destination. Be sure to copy these together.
- ☆ To copy a Program from internal memory to another program number, select the source Program in Program mode, and use this writing function to write it into the destination memory number.
- ☆ Press the REC/WRITE key, if you want to write data into the currently selected Program. Writing can be done without changing to this page.

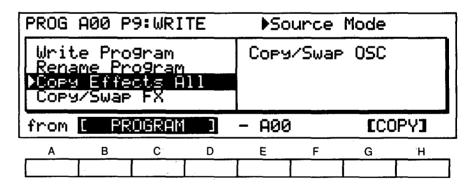
P9-2 Rename



E	[INS]	Insert one character at the rename cursor position
F	[DEL]	Delete one character at the rename cursor position
G	[◀]	Move the rename cursor to the left
H	[▶]	Move the rename cursor to the right

- ▼Use this function to modify the Program name.
- ▼Use [\blacktriangleleft] (cursor key \boxed{G}), [\blacktriangleright] (cursor key \boxed{H}), [INS] (cursor key \boxed{E}), [DEL] (cursor key \boxed{F}), the VALUE slider, and the \triangle / ∇ keys to modify the Program name. Pressing [INS] will insert one copy of the character at the
- cursor position to the right of the cursor position.
- Pressing [DEL] will delete the character at the cursor position.
- A Program name consists of up to 10 characters and symbols.

P9-3 Copy Effects All



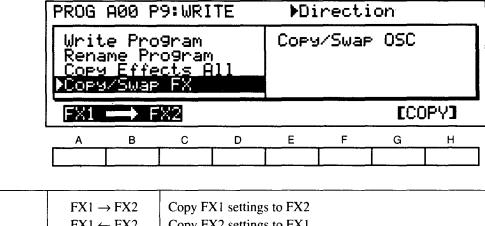
В	Source Mode	PROGRAM COMBINATION SONG	Copy from a Program Copy from a Combination Copy from a Song
E	Source Number	A00 — B99/C00 — D99 A00 — B99/C00 — D99 0 — 9/C0 — D9	The Program number to copy from The Combination number to copy from The Song number to copy from
G		[COPY]	Execute copying

- This operation copies only the effect parameters from a Combination, Program, or Song.
- The data will be copied into the Program being edited.
- (1) Select the type of data (B) from which you want to copy the effect parameters.

April 1 Towns Control

- (2) Select the memory number () from which you want to copy the effect parameters. If you are copying effect parameters from a Program, select the Program number. If from a Combination, select the Combination number. If from a Song, select a Song number.
- (3) Press [COPY] (G) to copy the effect parameters from the selected memory.

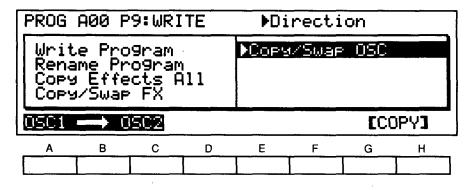
P9-4 Copy/Swap FX



A	$FX1 \rightarrow FX2$ $FX1 \leftarrow FX2$ $FX1 \leftrightarrow FX2$	Copy FX1 settings to FX2 Copy FX2 settings to FX1 Swap (exchange) settings of FX1 and FX2
G	[COPY]	Execute the copy/swap operation

■ This operation copies (or exchanges) parameter values between Effect 1 and Effect 2.

P9-5 Copy/Swap OSC



A	$OSC1 \leftarrow OSC2$	Copy OSC1 settings to OSC2 Copy OSC2 settings to OSC1 Swap (exchange) settings of OSC1 and OSC2
G	[COPY]	Execute the copy/swap operation

- This operation copies (or exchanges) oscillator parameters (OSC, Emphasis, WS, VDF, VDA, Pitch MG, VDF MG Destination) between the oscillators.
- * Please note that Multisound and Octave will not be copied.

3. EFFECT PARAMETERS

The 01/WproX•01/Wpro has two systems of stereo digital multi-effect units. Each effect unit can produce a wide variety of effects such as reverb, delay, chorus, flanger, phase shifter, distortion, and exciter. Effect parameters can be edited for detailed adjustments.

Effect settings can be made separately as part of Program parameters, Combination parameters, and Song parameters, allowing you to use the most appropriate effect setup for each situation.

- When playing Programs, each sound can have its own effect settings, so you can use effects as part of the process of creating a sound.
- When playing Drum Kit Programs, Combinations, or when using the sequencer, it is also possible to apply effects to specific sounds.

You can edit effect parameters in Edit Program mode, Edit Combination mode, and Sequencer mode. (The editing parameters are the same.)

The effect section has four inputs (A, B, C, D), four outputs (1/L, 2/R, 3, 4), two effect units, and two panpots (PAN 3, 4). The two effects can be connected either in serial or in parallel. (In the $01/W_{pro}X \cdot 01/W_{pro}$, all signal processing and routing is done as digital data, and the signal is converted from digital to analog audio only after it has passed through the effect section.)

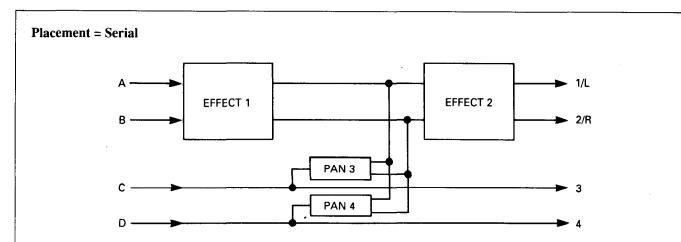
About Dynamic Modulation

Effect parameters (such as Dry: Effect Balance, Modulation Speed, etc.) can be controlled in realtime using the joy stick, aftertouch, or other controllers, for a greater range of musical expression.

Dynamic modulation settings can be made independently for each of the two effect systems (the control source and sensitivity). An arrow "->" is shown to the left of the parameter that can be controlled for each effect.

* While listening to a Combination during the Combination mode or Edit Combination mode, a Program can be edited by pressing the EDIT PROG key while holding down any of the cursor keys (A—H). It is not possible, however, to edit Effects in this way. (This is because the Combination settings are being used.)

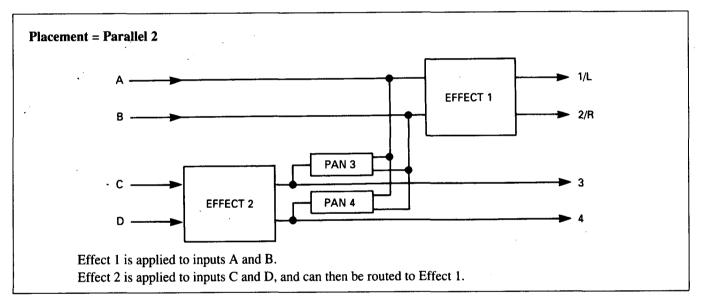
EFFECT PLACEMENT



In serial mode, two effects 1 and 2 are applied to inputs A and B, and the sound is output from 1/L and 2/R. The outputs 3 and 4 will output the signals directly from C and D. It is also possible to mix the input signal from C and D into the two inputs of effect 2.

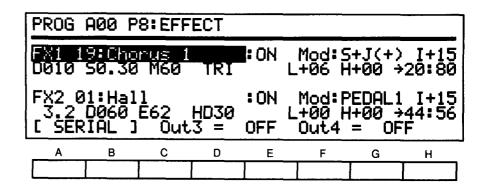
☆ For example by using inputs C and D, you can avoid applying effect 1 to a specific sound, or apply effect 1 only to a specific sound and then apply effect 2 to all the sounds.

In Parallel mode, separate effects are applied to inputs A and B and inputs C and D, and the output is sent respectively to 1/L and 2/R, and 3 and 4. It is also possible to mix the output of 3 and 4 into the output of 1/L and 2/R.



- ☆ The Out 3 Pan and Out 4 Pan settings can be used in the following ways.
- When different sounds are input to C and D, you can create a stereo mix by using Out 3 Pan and Out 4 Pan to pan these sounds to the stereo output.
- There are two types of effects; stereo-type effects (1 37), and effects in which each channel has a different effect (38 47).
- The input to A—D is determined by the panpot settings for the Oscillator parameters, Timbre parameters, and Track parameters in Edit Program mode, Edit Combination mode, and Sequencer mode, respectively.
- ☆ If stereo-type effects have been selected for effect units 1/2 when effect Placement is Parallel, you can set output 3 Pan to L and output 4 Pan to R to send the outputs of effects 1 and 2 as a stereo mix.
- ☆ If you are using an external effect or mixer, it is also possible to set output 3 Pan and output 4 Pan to "OFF", and use outputs 3/4 as separate outputs.
- * You can monitor only output 1/L and 2/R with the headphones. Therefore, the sound input from C and D cannot be monitored when output 3 Pan and output 4 Pan are set to OFF.

Page 8 Effect



P8-1 Effect1

A	Effect Type	00 01 — 47	No effect is used Select the Effect Type
E	Switch	OFF, ON	Switch the effect ON or OFF
	Dynamic Modulation Source		Dynamic Modulation Control Source
	}	NONE	Not used
F Mod		JS (+Y)	Joystick (+Y)
		JS (-Y)	Joystick (–Y)
	,	AFTT	After Touch
	ļ	PEDAL 1	Foot Pedal 1
		PEDAL 2	Foot Pedal 2
		VDA EG	VDA EG
	[SLIDER	VALUE Slider
		S + J(+)	Slider & Joystick (+Y)
		S + J (-)	Slider & Joystick (-Y)
v	·	S + AFTT	Slider & After Touch
•		S + PDL1	Slider & Foot Pedal 1
		S + PDL2	Slider & Foot Pedal 2
		S + VDA	Slider & VDA EG
HI	Dynamic Modulation Intensity	-15 +15	Specify the depth of Effect Dynamic Modulation

- When you select the effect Type, the effect parameters P8-2 will be set to their initial values.
- If one effect unit is set to 24:Symphonic Ensemble, it will not be possible to select the following effects at the same time.

19 - 23	CHORUS
24	SYMPHONIC ENSEMBLE
25 — 27	FLANGER
32,33	PHASER
34	ROTARY SPEAKER
35,36	TREMOLO
38, 39	CHORUS, FLANGER-DELAY
42	DELAY/CHORUS
43	DELAY/FLANGER
46	DELAY/PHASER
47.	DELAY/ROTARY SPEAKER

- If the foot switch has been assigned to effect QN/OFF, the effect will be switched on/off each time you press the foot switch. SWITCH E displays and sets this status. Also, the control change function lets you use a MIDI sequencer to turn Control No.91 (Effect 1) and No.92 (Effect 2) ON and OFF.
- When you select a Program, Combination, or Song, the on/ off status will be set to the condition specified by the effect parameters in that mode.
- ☆ For all effects other than Delay (13 14), Chorus (19 20), Exciter (28), and Tremolo (35 36) the equalizer settings (LOW EQ and HIGH EQ) are used even when the effect ON/OFF parameter is off.

While editing a sound, you can turn all effects (including the equalizer) off by setting the effect Type to "No Effect" (00).

- If the selected effect has a parameter that can be controlled by dynamic modulation (indicated by an "→" at the left), you can specify the Dynamic Modulation Source F and the Intensity H to control that parameter in realtime.
- The "→" symbol will not be displayed for the Rotary Speaker (34) and Delay/Rotary Speaker (47) effects, but switching between slow and fast can be carried out.
- Values of "Slider", "S + J (+)", etc. for the Dynamic Modulation source indicate the VALUE slider. If you are not using the Performance Editor in Program or Combination mode, you can use Dynamic Modulation with the VALUE slider. "► FX1" or "► FX2" will be displayed to the right of the Program or Combination name.
- P8-2 Effect 1 Parameter
- ▼These are the parameters for effect 1.
- The parameters will depend on the effect type. Please refer to the explanation of each effect type.

P8-3 Effect 2

- ▼This selects the effect type for effect unit 2.
- The details are the same as for effect unit 1.

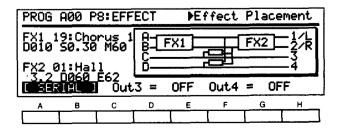
P8-4 Effect 2 Parameter

- ▼These are the parameters for effect 2.
- The details are the same as for effect unit 1.
- **P8-5 Effect Placement**

A	Effect Placement	SERIAL PARALLEL PARALLEL 2	Specify how the effect units are connected Serial Parallel Parallel 2
C	Out3 Panpot	OFF L, 99:1 — 1:99, R	The sound from Out 3 is not sent to L or R Out 3 pan setting (L:R balance)
F	Out4 Panpot	OFF L, 99:1 — 1:99, R	The sound from Out 4 is not sent to L or R Out 4 pan setting (L:R balance)

- ▼These parameters determine the effect Placement and the panning of outputs 3 and 4.
- When editing effect Placement, Out 3 Panpot, or Out 4 Panpot, the effect connections will be displayed graphically.

- "VDA EG" on the Dynamic Modulation has 32 voices for each VDA EG.
- When a foot switch is to be used as a Dynamic Modulation source, assign the switch to "Effect 1 On/Off" or "Effect 2 On/Off" in the Global mode.
- When a pedal is used to control Dynamic Modulation, set the function of that pedal to EFFECT CONTROL in the Global Mode. Also, EFFECT CONTROLS 1 and 2 (Bn, OC, vv or Bn, OD, vv) transmitted via MIDI correspond to foot pedals 1 and 2.
- * When using Dynamic Modulation during MIDI operations, assign the MIDI channel control source to the Global channel. Also, when controlling operations with data recorded on a sequencer, assign the MIDI channel used for that track to the Global channel.



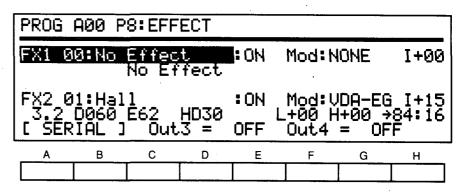
 To cancel the graphic display, move the cursor to another line.

NO EFFECT

0. NO EFFECT

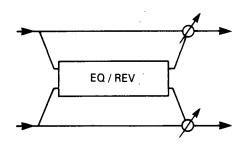
When no effects are used, select "NO EFFECT".

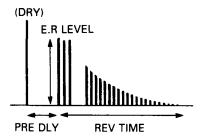
☆ If Delay (13-14), Chorus (19-20), Exciter (28), or Tremolo (35-36) is selected, the settings of the equalizer parameters (EQ Low, EQ High) will be used even if the Effect Switch is turned OFF. If you want to turn off all the effects including the equalizer, select "NO EFFECT".



REVERB

This effect simulates the reverberant acoustics of a hall, adding ambience to the sound.





1. HALL

The acoustic ambience of a natural-sounding hall.

2. ENSEMBLE HALL

The acoustic ambience of a hall suitable for string and brass ensembles.

3. CONCERT HALL

The acoustic ambience of a larger hall, with emphasized early reflections.

4. ROOM

The acoustic ambience of a smaller room.

5. LARGE ROOM

This effect is a room-type reverb with emphasized density. With Reverb Time settings of about 0.5 seconds, the result will be similar to a gating effect.

6. LIVE STAGE

The acoustic ambience of a fairly large room.

7. WET PLATE

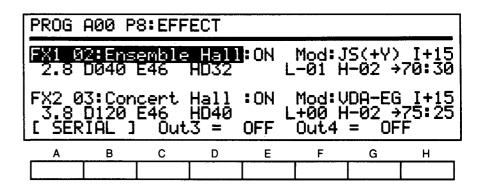
A simulation of a heavily applied plate reverb device.

8. DRY PLATE

A simulation of a lightly applied plate reverb device.

9. SPRING REVERB

A simulation of a spring reverb device.

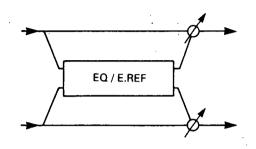


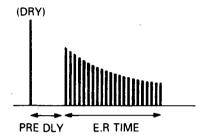
A	Reverb Time	0.2 — 9.9 [sec] (HALL type) 0.2 — 4.9 [sec] (ROOM type) 00 — 99 (PLATE type)	The time over which the reverberation will decay
BD	Pre Delay	0 — 200 [ms]	The delay between the direct sound and the initial reflections
CE	E.R Level	0 — 99 (HALL/ROOM type) 1 — 10 (PLATE type)	The level of the early reflections
DHD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
FL	EQ Low	-12 +12 [dB]	The amount of boost or cut for the low frequency range
GH	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For effects 1 — 9, you can use Dynamic Modulation to control the Dry:effect Balance.

EARLY REFLECTION

The Early Reflection effects create the early reflections that are an important element in determining the qualities of an acoustic environment. By using various settings of the Early Reflection Time parameter, you can create a variety of effects such as thickening the sound, or creating echo-like reflections.





10. EARLY REFLECTION I

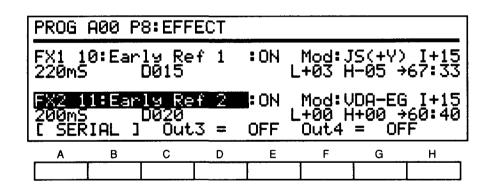
This effect emphasizes the low frequency range, and is effective when used on percussive sounds such as drums.

11. EARLY REFLECTION II

The level of the early reflections produced by this effect will change over time in a different way than with the Effect 10. Early Reflection I, giving it a different character.

12. EARLY REFLECTION III

This effect creates early reflections with an envelope opposite from Early Reflection I and Early Reflection II. When used on sound with a strong attack, such as cymbals, it can create reverse-tape effects.



A	E.R Time	100 — 800 [ms]	The early reflection time (10ms increments)
CD	Pre Delay	0 — 200 [ms]	The delay between the direct sound and the initial reflections
FL	EQ Low	-12 +12 [dB]	The amount of boost or cut for the low frequency range
GH	EQ High	-12 +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For effects 10 — 12, you can use Dynamic Modulation to control the Dry:Effect Balance.

STEREO DELAY

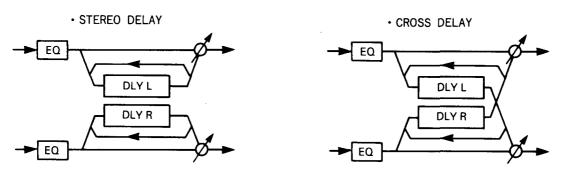
These effects create stereo delay patterns in which you can set the left and right delay times independently. By using appropriate high damp settings, you can make the repeated delays decay in a natural way.

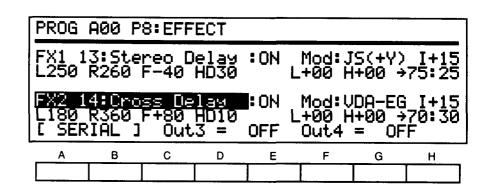
13. STEREO DELAY

This stereo delay has two delay channels with feedback. The delay times range from 000ms to 500ms for both channels.

14. CROSS DELAY

This stereo delay has two delay channels with feedback from one channel to the other, to make the sound move between left and right.





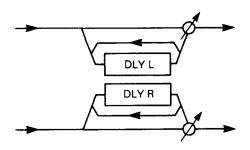
AL	Delay Time Left	0 — 500 [ms]	The time from the direct sound to the processed sound in the left channel (A or C)
BR	Delay Time Right	0 — 500 [ms]	The time from the direct sound to the processed sound in the right channel (B or D)
C F	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase)
DHD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
FL	EQ Low	-12 +12 [dB]	The amount of boost or cut for the low frequency range
Gн	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY: FX Balance	DRY, 99:1 — 1: 99, FX	The output balance between direct and processed sound

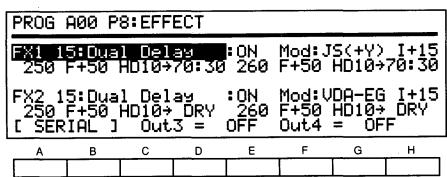
For effects 13 and 14, you can use Dynamic Modulation to control the Dry:Effect Balance.

DUAL MONO DELAY

15. DUAL MONO DELAY

This effect provides two independent mono delays.



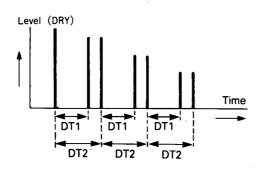


A	Delay Time L	0 — 500 [ms]	The time from the direct sound to the processed sound for the left channel
BF	Feedback L	-99 — +99 [%]	The amount of feedback for the left channel (negative values invert the phase)
CHD	High Damp L	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
D	DRY:FX Balance L	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the left channel
E	Delay Time R	0 — 500 [ms]	The time from the direct sound to the processed sound for the right channel
FF	Feedback R	_99 — +99 [%]	The amount of feedback for the right channel (negative values invert the phase)
G HD	High Damp R	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
H	DRY:FX Balance R	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the right channel

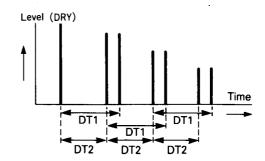
For this effect, you can use Dynamic Modulation to control the Dry: Effect Balance.

MULTI TAP DELAY

In this effect, an equalizer is applied to each effect input, and then the signal is sent to two independent delays connected in series. The output of the second delay is fed back into the input.



When DT1 < DT2



When DT1 > DT2

16. MULTI TAP DELAY I

This is a two-channel multi-repeat delay.

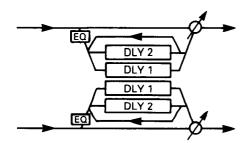
17. MULTI TAP DELAY II

This is a two-channel multi-repeat delay with cross-panning.

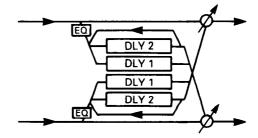
18. MULTI TAP DELAY III

This is a two-channel multi-repeat delay with cross-feedback.

• MULTI TAP DELAY I, II



• MULTI TAP DELAY III



PR	PROG A00 P8:EFFECT							
FX D1	1 130	6:Mul 0 D2	titap T400	Dly FB+	1:0N 50	Mod: L+00	JS(+Y) H+00) I+15 +50:50
	251	78 Mul	titae	019	 B <u>:</u> ON	Mod:	VDA-E	G_ <u>I+15</u>
וק [T26 SER	7 D2 IAL]	T400 Out		50 OFF	L+00 Out4	H+00 = Ol	>50:50 FF
	Α	В	С	D	E	F	G	Н

ADIT	Delay Time 1	0 — 500 [ms]	The time from the direct sound to the processed sound
C D2T	Delay Time 2	0 — 500 [ms]	The time from the direct sound to the processed sound
D FB	Feedback	-99 — +99	The amount of feedback (negative values invert the phase)
FL	EQ Low	-12 +12 [dB]	The amount of boost or cut for the low frequency range
Gн	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For effects 16, 17, and 18, you can use Dynamic Modulation to control the Dry:Effect Balance.

CHORUS

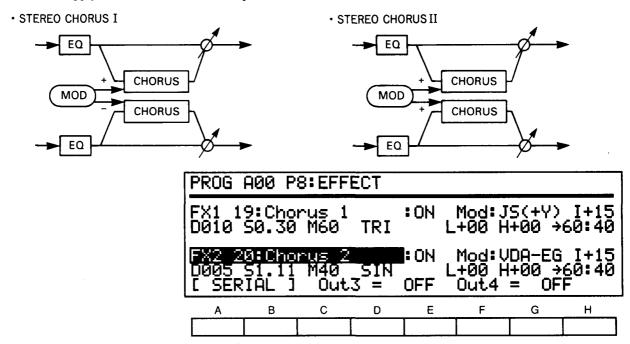
These are stereo-type effects which use two chorus units, and are an effective way to add spaciousness and depth to any type of sound; piano, strings, brass, etc.

19. STEREO CHORUS I

Since the two chorus units apply modulation with the opposite phase, the sound seems to shimmer and move in stereo.

20. STEREO CHORUS II

The two chorus units apply modulation with the same phase.



	,	·	
A D	Delay Time	0 — 200 [ms]	The time from the direct sound to the processed sound
BS	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation
C M	Mod Depth	0 — 99	The depth of modulation
D	Mod Waveform	SIN (sine) TRI (triangle)	Select the modulation waveform.
FL	EQ Low	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
GH.	EQ High	-12 +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

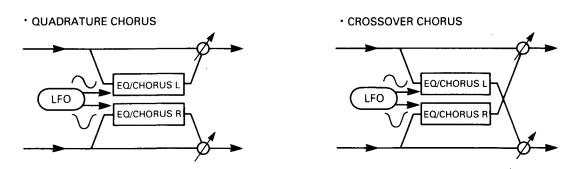
For effects 19 and 20, you can use Dynamic Modulation to control the Dry:Effect Balance.

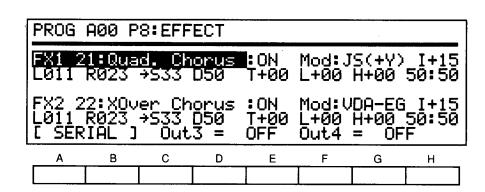
21. QUADRATURE CHORUS

This is a stereo chorus in which the modulation is applied to each channel 90 degrees out of phase.

22. CROSSOVER CHORUS

This is a stereo chorus in which the modulation is applied to each channel 90 degrees out of phase, and the chorused signal is mixed into the output of the other channel.



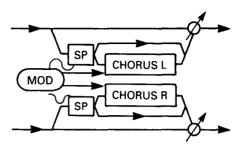


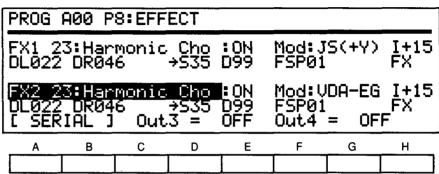
AL	Delay Time L	0 — 250 [ms]	The time from the direct sound to the processed sound of the left channel
BR	Delay Time R	0 — 250 [ms]	The time from the direct sound to the processed sound of the right channel
Cs	Mod Speed	1 — 99	The speed of modulation
DD	Mod Depth	0 — 99	The depth of modulation
E	Mod Shape	T + 10 — T – 10, S – 10 — S + 10	Select the modulation waveform. The number determines the symmetry of the waveform.
FL	EQ Low	-12 +12 [dB]	The amount of boost or cut for the low frequency range
GH	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For effects 21 and 22, you can use Dynamic Modulation to control the Mod Speed.

23. HARMONIC CHORUS

This is a quadrature chorus effect that splits the sound and applies chorusing only to the high range. The low range will not pass through the chorus, and will not be processed. This effect is especially good for low-frequency instruments such as bass.





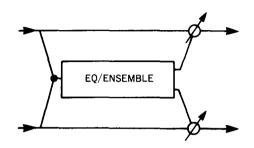
A DL	Delay Time L	0 — 500 [ms]	The time from the direct sound to the processed sound of the left channel
B DR	Delay Time R	0 — 500 [ms]	The time from the direct sound to the processed sound of the right channel
Ds	Mod Speed	1 — 99	The speed (frequency) of modulation
ED	Mod Depth	0 — 99	The depth of modulation
F FSP	Filter Split Point	0 — 18	The point at which the sound range is split
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct and processed sound

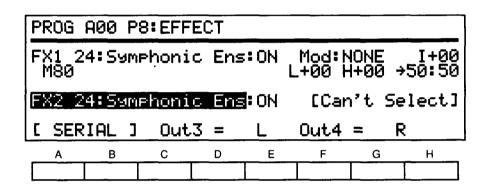
For this effect, you can use Dynamic Modulation to control the Mod Speed.

SYMPHONIC ENSEMBLE

24. SYMPHONIC ENSEMBLE

This effect is designed to be most effective for ensemble sounds like strings by applying greater modulation in a chorus-type program.





AM	Mod Depth	0 — 99	The depth of ensemble effect
FL	EQ Low	-12 + 12 [dB]	The gain that cuts or boosts low range components
GH	EQ High	-12 — +12 [dB]	The gain that cuts or boosts high range components
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct sound and effect sound

For this effect, you can use Dynamic Modulation to control the Dry: Effect Balance

* You cannot use the following effects together with the Symphonic Ensemble.

19 — 23	CHORUS	38, 39	CHORUS, FLANGER-DELAY
24	SYMPHONIC ENSEMBLE	42	DELAY/CHORUS
25 — 27	FLANGER	43	DELAY/FLANGER
32, 33	PHASER	46	DELAY/PHASER
34	ROTARY SPEAKER	47	DELAY/ROTARY SPEAKER
35, 36	TREMOLO		

FLANGER

These effects add feedback to a chorus effect. When used on sounds that contain a lot of high frequency energy, such as cymbals, they can not only create modulation effects, but also add a sense of pitch to a non-pitched sound.

25. FLANGER I

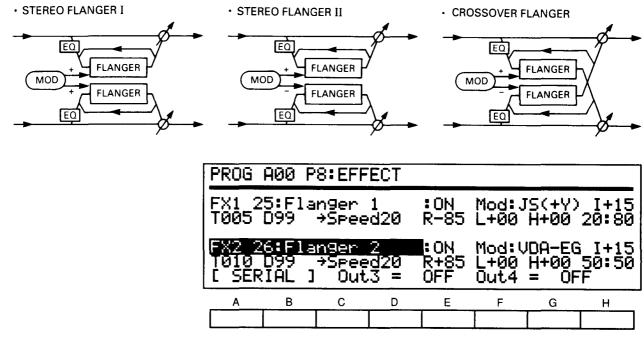
This is a stereo flanger in which the modulation is applied to both channels in the same phase.

26. FLANGER II

This is a stereo flanger in which the modulation is applied to each channel in the opposite phase, resulting in a wider stereo image and motion.

27. CROSSOVER FLANGER

In this effect, two flangers being modulated in inverse phases apply feedback to each other.



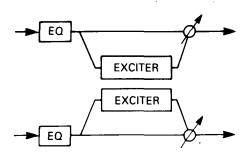
A T	Delay Time	0 — 200 [ms]	The time from the direct sound to the processed sound
B D	Mod Depth	0 — 99	The depth of modulation
C	Mod Speed	1 — 99	The speed of modulation
E R	Resonance	-99 — +99	The amount of feedback for the flanger
FL	EQ Low	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
G H	EQ High	-12 +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY: FX Balance	DRY, 99: 1—1: 99, FX	The output balance between direct and processed sound.

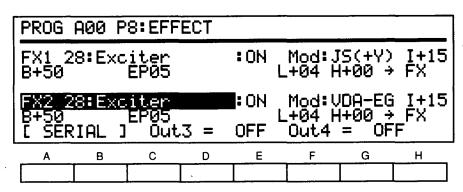
For effects 25 — 27, you can use Dynamic Modulation to control the Mod Speed.

EXCITER

28. EXCITER

This is an effect that increases the clarity of the sound, gives it greater definition and presence, and helps in bringing the sound to the forefront.





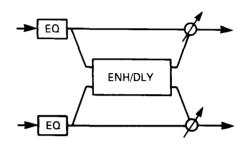
A B	Blend	_99 — + 99	The depth of exciter effect
C EP	Emphatic Point	1 — 10	The central frequency emphasized by exciter
FL	EQ Low	-12 — +12 [dB]	The gain that cuts or boosts low range components
GH	EQ High	-12 +12 [dB]	The gain that cuts or boosts high range components
H	DRY: FX Balance	DRY, 99 1: — 1:99, FX	The output balance of direct sound and effect sound

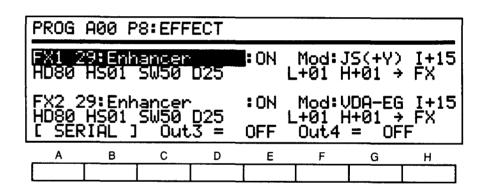
For this effect, you can use Dynamic Modulation to control the Dry: Effect Balance

ENHANCER

This is a two-channel enhancer which includes a delay to give the sound more spaciousness. An enhancer makes the sound clearer and more well-defined, giving the sound more presence and bringing it up front in the mix.

29. ENHANCER





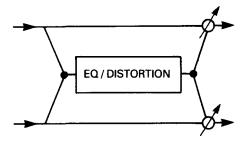
AHD	Harmonic Density	1 — 99	The depth of the exciter effect
BHS	Hot Spot	1 — 20	The center frequency to which the exciter effect will be applied
C sw	Stereo Width	0 — 99	The level at which an inverse-phase delay will be mixed with the output of the other channel
DD	Delay Time	1 — 99	The time between the direct sound and the delayed sound
FL	EQ Low	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
GH	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For this effect, you can use Dynamic Modulation to control the Dry: Effect Balance.

DISTORTION

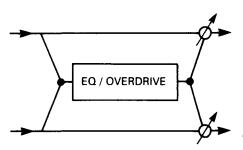
30. DISTORTION

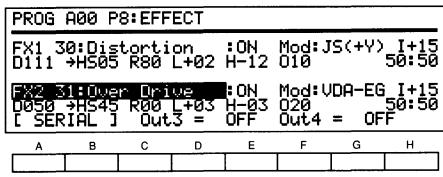
This effect distorts the sound and adds a wah effect. It is especially good for solos.



31. OVER DRIVE

This effect simulates the overdrive sound frequently used by guitars. It is effective when playing guitar-like phrases on organ or electric piano sounds, and for solos.





AD	Drive (Edge)	1 — 111	How greatly the input signal will be distorted
BHS	Hot Spot	0 — 99	The center frequency for the wah filter
C R	Resonance	0 — 99	The Q of the filter (i.e., the amount of wah effect)
DL	EQ Low	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
EΗ	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
FO	Out Level	0 — 99	The output level of the distorted sound
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

For effects 30 and 31, you can use Dynamic Modulation to control the Hot Spot in order to obtain a wah effect.

PHASER

These are two-channel stereo phase shifters. Using time delay and changes in phase, they produce a modulation effect that is clearer than chorus or flanger. These effects are especially suitable for electric piano or guitar.

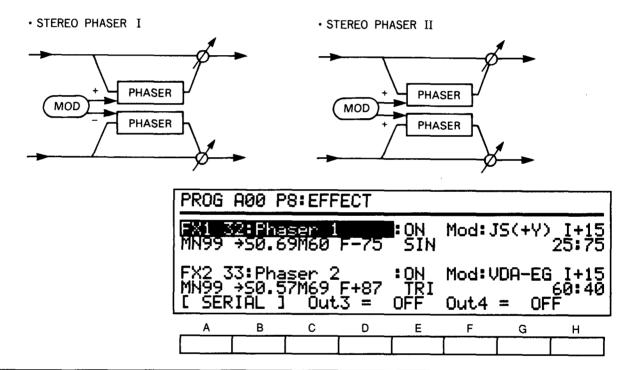
Chorus and flanger produce their effects by modulating the delay time. However, phasers modulate the phase of the input signal, creating an effect that has a different character than chorus or flanger.

32. STEREO PHASER I

Since each phaser block is modulated in inverse phase to the other, the sound image will shift back and forth in stereo.

33. STEREO PHASER II

This stereo-type effect combines two phaser blocks. This effect modulates both phaser blocks with the same phase.



AMN	Manual	0 — 99	The center frequency to which the phase shift effect will apply
BS	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation
C M	LFO Depth	0 — 99	The depth of the phase shift effect
DF	Feedback	-99 +99 [%]	The amount of feedback (negative settings invert the phase)
E	Mod Waveform	SIN (sine), TRI (triangle)	The waveform used for modulation
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

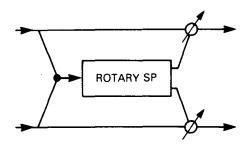
Effects 32 and 33 allow you to use Dynamic Modulation to control the Mod Speed.

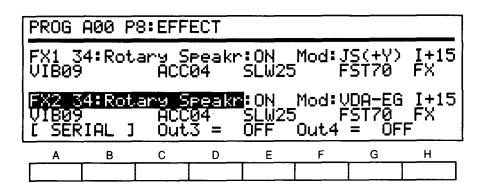
ROTARY SPEAKER

This effect simulates the rotary speaker effect that is popular for organs.

34. ROTARY SPEAKER

The rotary effect is created by a completely independent LFO. The selected dynamic modulation source can be used to switch between fast and slow speeds. In this case, moving the controller rapidly will not make the rotor speed change in the same way. Rather, regardless of how fast you move the controller, the rotor speed will change to the new speed at the rate specified by Acceleration. Also, the speed can be changed without having to vary the Dynamic Modulation source.





A VIB	Vibrato Depth	0 — 15	The depth of vibrato. This corresponds to varying the horn diameter of the rotating speaker.
C ACC	Acceleration	1 — 15	The rate at which the speed will change Slow <-> Fast
E SLW	Slow Speed	1 — 99	The speed when Slow
G FST	Fast Speed	1 — 99	The speed when Fast
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound

This effect allows you to use Dynamic Modulation to control the speed.

TREMOLO

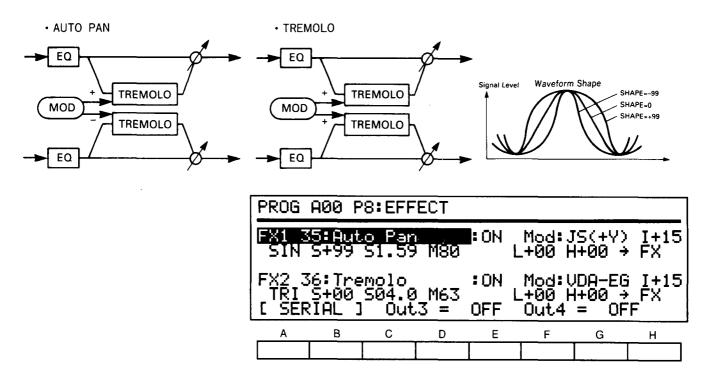
This effect cyclically varies the volume.

35. AUTO PAN

This is a stereo-type program that combines two tremolo blocks. Since the two blocks are modulated inversely, the stereo image will move as if it were being panned from side to side.

36. TREMOLO

Unlike the Auto Pan above, this effect modulates both tremolo blocks in the same phase.



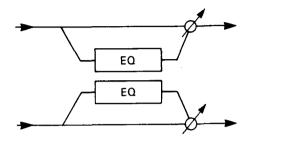
A	Mod Waveform	SIN TRI	Select the modulation waveform Sine Triangle
BS	Mod Shape	_ 99 + 99	Change the modulation waveform
Cs	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation (tremolo)
DM	LFO Depth	0 — 99	The depth of tremolo
FL	EQ Low	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
Gн	EQ High	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY: FX Balance	DRY, 99: 1 — 1:99, FX	The output balance between direct and processed sound

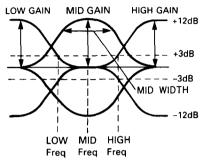
Effects 35 and 36 allow you to use Dynamic Modulation to control the Dry:Effect balance.

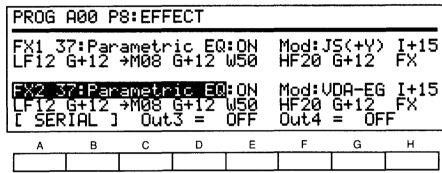
PARAMETRIC EQ

37. PARAMETRIC EQ

This is a three-band equalizer. You can independently adjust the cutoff frequency and gain for the high, middle, and low frequencies.







A LF	Low Freq	0 — 29	The low band cutoff
BG	Low Gain	-12 — +12 [dB]	The amount of boost or cut for the low frequency range
CM	Mid Freq	0 — 99	The center of the mid range filter
DG	Mid Gain	-12 — +12 [dB]	The amount of boost or cut for the mid range filter
EW	Mid Width	0 — 99	The resonance of the mid range filter
FHF	High Freq	0 — 29	The high band cutoff
GG	High Gain	-12 — +12 [dB]	The amount of boost or cut for the high frequency range
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct and processed sound

This effect allows you to use Dynamic Modulation to control the Mid Frequency in order to obtain a wah effect.

COMBINATION EFFECTS: SERIAL

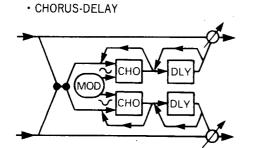
In effects 38 and 39, a mono-in stereo-out chorus/flanger is connected in series with a stereo delay.

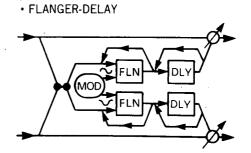
38. CHORUS-DELAY

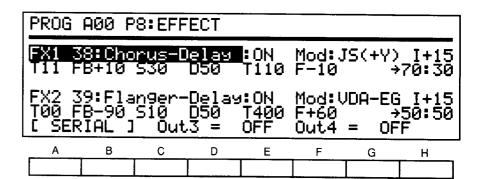
In this effect, a mono-in stereo-out chorus with a 90 degree out-of-phase LFO is connected in series with stereo delay.

39. FLANGER-DELAY

In this effect, a mono-in stereo-out flanger with a 90 degree out-of-phase LFO is connected in series with stereo delay.







• CHORUS, FLANGER

AT	Delay Time	0 — 50 [ms]	The delay time of chorus or flanger
B FB	Feedback	99+99 [%]	The amount of feedback (negative settings invert the phase)
C S	Mod Speed	1 — 99	The speed of modulation
D D	Mod Depth	0 — 99	The depth of modulation

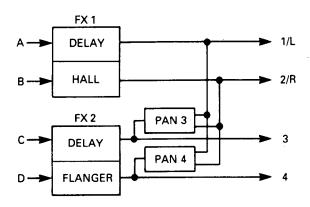
• DELAY

Ет	Delay Time	0 — 450 [ms]	The delay time of the delay effect (2ms increments)
FF	Delay Feedback	-99 — + 99 [%]	The amount of feedback (negative settings invert the phase)
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound (chorus, flanger → delay)

For effects 38 and 39, you can use Dynamic Modulation to control the Dry: Effect Balance.

COMBINATION EFFECTS: PARALLEL

* The effects described from here on (40 - 47) use effects which are combined in parallel placement, allowing you to apply a different effect to each channel. Therefore, you can have up to four different types of effects simultaneously. e.x. In the example below, 40. DELAY/HALL is selected for EFFECT 1, and 43. DELAY/FLANGER is selected for EFFECT 2.



- Please refer sections 1—34 for the contents of effects.
- Items A D correspond to the parameters of one effect (Mono Delay), and items E H correspond to the parameters of the other effect.

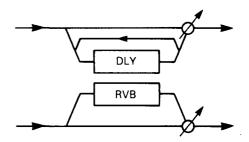
MONO DELAY/REVERB

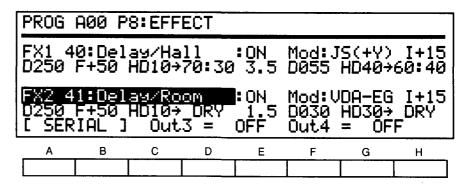
40. DELAY/HALL

This effect combines a mono delay with a mono hall reverb.

41. DELAY/ROOM

This effect combines a mono delay with a mono room reverb.





DELAY

A D	Delay Time	0 — 500 [ms]	The delay time of the delay effect
BF	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase)
C HD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
D	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the delay

· HALL, ROOM

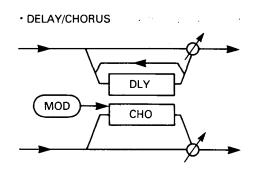
E	Reverb Time	0.2—9.9 [sec] (HALL) 0.2 — 4.9 [sec] (ROOM)	The time after the pre delay over which the reverb will decay
FD	Pre Delay	0 — 150 [ms]	The delay between the direct sound and the first early reflections
GHD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the reverb

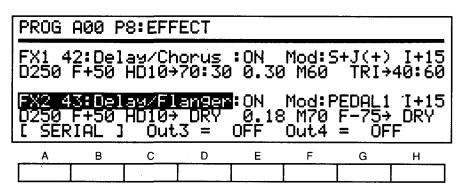
For effects 40 and 41, you can use Dynamic Modulation to control the Dry: Effects Balance.

MONO DELAY/MODULATED DELAY

42. DELAY/CHORUS

This effect combines a mono delay with a mono chorus.





• DELAY

A D	Delay Time	0 — 500 [ms]	The delay time of the delay effect
BF	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase)
CHD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
D .	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the delay

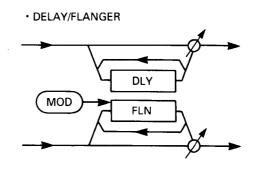
CHORUS

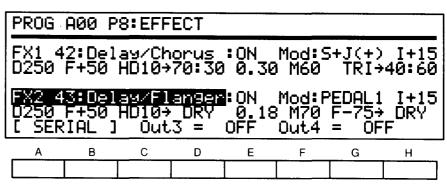
E	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation
FM	Mod Depth	0 — 99 [%]	The depth of modulation
G	Mod Waveform	SIN, TRI	Modulation waveform
H	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the chorus

For this effect you can use Dynamic Modulation to control the Dry: Effects Balance.

43. DELAY/FLANGER

This effect combines a mono delay with a mono flanger.





• DELAY

AD	Delay Time	0 — 500 [ms]	The delay time of delay
BF	Feedback	-99 — + 99 [%]	The amount of feedback (negative values invert the phase)
C HD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies
D	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for The delay

• FLANGER

E	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation		
FM	Mod Depth 0 — 99		The depth of modulation		
G F	Feedback	99 +99 [%]	The amount of feedback (negative values invert the phase)		
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct and processed sound for the flanger		

For this effect you can use Dynamic Modulation to control the Dry: Effects Balance.

MONO DELAY/DISTORTION, OVER DRIVE

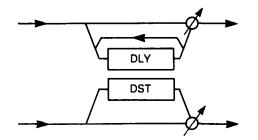
44. DELAY/DISTORTION

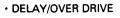
This effect combines a mono delay with a distortion that includes a wah effect.

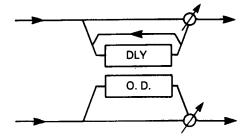
45. DELAY/OVER DRIVE

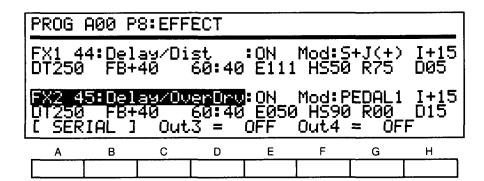
This effect combines a mono delay with an overdrive that includes a wah effect.

· DELAY/DISTORTION









• DELAY

A DT	Delay Time	0 — 500 [ms]	The delay time of delay
B FB	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase)
D	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the delay

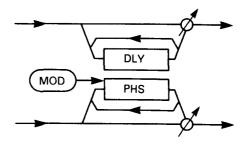
DISTORTION, OVER DRIVE

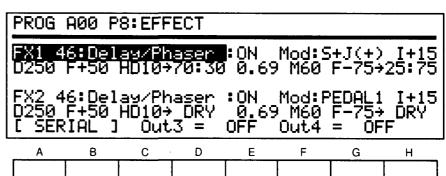
ΕE	Drive (Edge)	1 — 111	How greatly the input signal will be distorted
FHS	Hot Spot	1 — 99	The center frequency for the wah filter
G R	Resonance	0 — 99	The amount of wah effect
H D	Level	1 — 99	The output level of the distorted sound

MONO DELAY/PHASER

46. DELAY/PHASER

This effect combines a mono delay and a mono phaser.





• DELAY

AD	Delay Time	0 — 500 [ms]	The delay time of delay		
BF	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase		
C HD	High Damp	0 — 99 [%]	Higher values will result in a faster decay for high frequencies		
D	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the delay		

Phaser

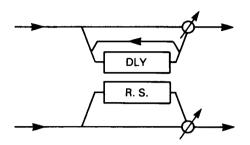
E	Mod Speed	0.03 — 30 [Hz]	The speed (frequency) of modulation		
FM	Mod Depth	0 — 99	The depth of modulation		
G F	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase		
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct and processed sound for the phaser		

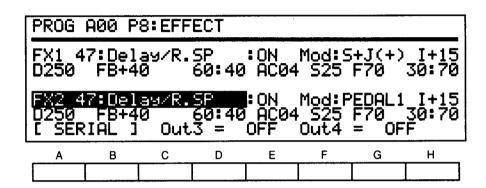
For this effect, you can use Dynamic Modulation to control the Dry: Effects Balance.

MONO DELAY/ROTARY SPEAKER

47. DELAY/ROTARY SPEAKER

This effect combines a mono delay with a mono rotary speaker.





• DELAY

AD	Delay Time	0 — 500 [ms]	The delay time of delay
B FB	Feedback	-99 — +99 [%]	The amount of feedback (negative values invert the phase)
D	DRY:FX Balance	DRY, 99:1 — 1:99, FX	The output balance between direct and processed sound for the delay

ROTARY SPEAKER

E AC	Acceleration	1 — 15	The rate at which the speed will change Slow ↔ Fast	
FS	Slow Speed	1 — 99	The speed of Slow	
G F	Fast Speed	1 — 99	The speed of Fast	
H	DRY: FX Balance	DRY, 99: 1 — 1: 99, FX	The output balance between direct and processed sound for the rotary speaker	

For this effect, you can use Dynamic Modulation to change the Rotary Speaker speed.

Effect Parameter

	EFFECT	A		B		<u>C</u> _	
	REVERB	Reverb T	ime	Pre De		E.R Le	
1	Hall	0.2~9.9	[3.2]	0~200	[60]	0~99	[62
2	Ensemble Hall	"	[2.8]	//	[40]	//	[46
3	Concert Hall	//	[3.8]	//	[120]	//	[46
4		0.2~4.9	[1.1]	//	[10]	//	[7!
	Room	 					
5	Large Room	//	[2.3]	//	[45]		[6
6	Live Stage	//	[2.0]	//	[20]	//	[6
7	Wet Plate	0~99	[60]	//	[50]	1~10	[
8	Dry Plate	//	[40]	//	[60]	//	[1
9		"	[50]	//	[0]		1
9	Spring Reverb	<u> </u>			- [0]		
	EARLY REFLECTION	E.R Tin				Pre De	
10	Early Reflection 1	100~800	[220]			0~200	[1
11	// 2	//	[200]			//	[2
12	// 3	//	[190]			//	[1
	STEREO DELAY	Delay Tim	ne L	Delay Tir	ne R	Feedba	ıck
13.	Stereo Delay	0~500	[250]	0~500	[260]	$-99 \sim +99$	[-4
	The state of the s		[180]		[360]		[+8
14	Cross Delay	//		<i>"</i>			
	DUAL MONO DELAY	Delay Tim		Feedbac		High Dar	
15	Dual Mono Delay	0~500	[250]	$-99 \sim +99$	[+50]	0~99	[1
	MULTI TAP DELAY	Delay Tin	ne 1			Delay Tir	me 2
16	Multi Tap Delay 1	0~500	[300]			0~500	[40
		//	[267]	-			[40
17	// 2						-
18	// 3	//	[300]				[40
	CHORUS	Delay Ti		Mod Sp	eed	Mod De	·
19	Stereo Chorus 1	0~200	[10]	0.03~30	[0.30]	0~99	[6
20	// 2	//	[5]	//	[1.11]	//	[4
	CHORUS	Delay Tim		Delay Tir		Mod Sp	
21	Quadrature Chorus	0~250	[11]	0~250	[23]	●1~99	[3
22	Cross Over Chorus	//	[11]	//	[23]	• //	[3
	HARMONIC CHORUS	Delay Tin	ne L	Delay Tir	ne R		
23	Harmonic Chorus	0~500	[22]	0~500	[46]		
					[]		
	SYMPHONIC ENSEMBLE	Mod De					
24	Symphonic Ensemble	0~99	[80]				
	FLANGER	Delay Ti	me	Mod De	pth	Mod Sp	eed
25	Flanger 1	0~200	[5]	0~99	[99]	●1~99	[2
26	// 2	//	[10]	"//	[99]	• //	[2
					[99]	• //	[5
27	Cross Over Flanger	//	[50]	//	[88]	_ 	
	EXCITER	Blend				Emphatic	
28	Exciter	$-99 \sim +99$	[+50]			1~10	[
<u> </u>	ENHANCER	Harmonic D	ensity	Hot Sp	oot	Stereo V	Vidth
29	Enhancer	1~99 [80]		1~20 [1]		0~99 [!	
							-
	DICTORTION			Hat Cr	204	Decons	nca
	DISTORTION	Drive		Hot Sp		Resona	
30	DISTORTION Distortion	Drive 1∼111	[111]	●0~99	[5]	0~99	[8
30		Drive					[8
30	Distortion	Drive 1∼111	[111] [50]	●0~99	[5] [45]	0~99	[8
30 31	Distortion Over Drive PHASER	Drive 1∼111 //	[111] [50]	●0~99 ● //	[5] [45]	0~99 //	[8 epth
30 31 32	Distortion Over Drive PHASER Stereo Phaser 1	Drive 1~111 // Manua 0~99	[111] [50] II [99]	● 0~99 ● // Mod Sp ● 0.03~30	[5] [45] eed [0.69]	0∼99 // Mod De	[8 epth [6
	Distortion Over Drive PHASER Stereo Phaser 1 // 2	Drive 1~111 // Manua 0~99 //	[111] [50] il [99] [99]	● 0~99 ● // Mod Sp	[5] [45] eed	0~99 // Mod De 0~99 //	[8] epth [6
30 31 32 33	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER	Drive 1~111	[111] [50] II [99] [99] epth	● 0~99 ● // Mod Sp ● 0.03~30	[5] [45] eed [0.69]	0~99 // Mod De 0~99 // Accelera	[8 epth [6 etion
30 31 32 33	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker **	Drive 1~111 // Manua 0~99 // Vibrato D 0~15	[111] [50] II [99] [99] epth [9]	● 0~99 ● // Mod Sp ● 0.03~30 ● //	[5] [45] eed [0.69] [0.57]	0~99 // Mod De 0~99 // Accelera	[8
30 31 32 33	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER	Drive	[111] [50] II [99] [99] epth [9]	● 0~99 ● // Mod Sp ● 0.03~30 ● //	[5] [45] eed [0.69] [0.57]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp	[8 epth [6 ation
30 31 32 33 34	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker **	Drive 1~111 // Manua 0~99 // Vibrato D 0~15	[111] [50] II [99] [99] epth [9]	● 0~99 ● // Mod Sp ● 0.03~30 ● //	[5] [45] eed [0.69] [0.57]	0~99 // Mod De 0~99 // Accelera	[8 epth [6 ation
30 31 32 33 34 35	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO	Drive	[111] [50] II [99] [99] epth [9]	● 0~99 ● // Mod Sp ● 0.03~30 ● //	[5] [45] eed [0.69] [0.57]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp	[8 epth [6 ation peed
30 31 32 33 34 35	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo	Drive	[111] [50] II [99] epth [9] iform [SIN]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 //	[5] [45] eed [0.69] [0.57] Shape [+99]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 //	[8 epth [6 ation [peed [1.5]
330 331 332 333 334 335 336	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ	Drive	[111] [50] II [99] epth [9] form [SIN] [TRI]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fi	[8 epth [6 ation peed [1.5
330 331 332 333 334 335 336	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker ** TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ	Drive	[111] [50] [9] [99] epth [9] form [SIN] [TRI] eq	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99	[8 epth [6 ation [0eed [1.5 [4.0
330 331 332 333 334 335 336 337	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL	Drive	[111] [50] [99] [99] epth [9] form [SIN] [TRI] eq [12] Delay	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12 Fig/Cho F	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] · Back	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr • 0~99 Mod Sp	[8] [8] [8] [8] [8] [8] [8] [8] [8] [8]
330 331 332 333 334 335 336 337	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker ** TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ	Drive	[111] [50] [9] [99] epth [9] form [SIN] [TRI] eq [12] Delay [11]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99	[8] [8] [8] [8] [8] [8] [8] [8] [8] [8]
330 331 332 333 334 335 336 337 338	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL	Drive	[111] [50] [99] [99] epth [9] form [SIN] [TRI] eq [12] Delay	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12 Fig/Cho F	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] · Back	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr • 0~99 Mod Sp	[8] [8] [8] [8] [8] [8] [8] [8] [8] [8]
330 331 332 333 334 335 336 337 338	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay	Drive	[111] [50] II [99] epth [9] form [SIN] [TRI] eq [12] Delay [11] [0]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave - 99~ +99 // Low G - 12~+12 Fig/Cho F - 99~ +99	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] ···Back [+10] [-90]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ●0~99 Mod Sp 1~99	[8 pth [6 ation [1.5 [4.0 req [3 6eed [1.5] [4.0 [5eed [5eed] [1.5] [5eed [5eed] [5eed] [1.5] [5eed [5eed]
30 31 32 33 34 35 36 37 38 39	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL	Drive	[111] [50] II [99] epth [9] form [SIN] [TRI] eq [12] Delay [11] [0] ime	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave - 99~+99 // Low G - 12~+12 Fig/Cho F - 99~+99 // Feedba	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] ···Back [+10] [-90] ack	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99 Mod Sp 1~99 // High Da	[8 pth [6 ation [0eed [1.5 [4.0 req [3 [4.0] [5] [5] [5] [6] [6] [6] [6] [6] [7] [7] [8] [8] [8] [8] [8] [8] [8] [8] [8] [8
330 331 332 333 334 335 336 337 338 339	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL Delay/Hall	Drive	[111] [50] II [99] epth [9] form [SIN] [TRI] eq [12] Delay [11] [0] ime [250]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave - 99~ + 99 // Low G - 12~ + 12 Fig/Cho F - 99~ + 99 // Feedba - 99~ + 99	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] ···Back [+10] [-90] ack [+50]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99 Mod Sp 1~99 // High Di 0~99	[8 pth [6 ation [1.5 peed [4.0 req [5 amp
330 331 332 333 334 335 336 337 338 339	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL	Drive	[111] [50] II [99] [99] epth [9] form [SIN] [TRI] eq [12] Oelay [11] [0] ime [250] [250]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave - 99~ + 99 // Low G - 12~ + 12 Fig/Cho F - 99~ + 99 // Feedba - 99~ + 99 //	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] :-Back [+10] [-90] ack [+50]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99 Mod Sp 1~99 // High Di 0~99	[8] [epth
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330 331 332 333 334 335 336 337 388 339 400 411 422 422 422 422 422 422 422 423 423 423 424 424 424 424 424 425	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL Delay/Hall Delay/Room Delay/Chorus	Drive	[111] [50] I [99] [99] epth [9] form [SIN] [TRI] eq [12] Oelay [11] [0] ime [250] ime [250]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave - 99~+99 // Low G - 12~+12 Fig/Cho F - 99~+99 // Feedba - 99~+99 // Feedba - 99~+99 // Feedba - 99~+99 Feedba	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] :-Back [+10] [-90] ack [+50] [+50] ack	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr ● 0~99 Mod Sp 1~99 // High Da 0~99 High Da 0~99 High Da 0~99	[8] epth [6] ation [7] peed [1.5] epth [6] ation [7] peed [7] amp [7] amp
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30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker * TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL Delay/Hall Delay/Room Delay/Chorus Delay/Flanger Delay/Distortion Delay/Over Drive	Drive	[111] [50] I [99] [99] epth [9] form [SIN] [TRI] eq [12] Delay [11] [0] ime [250] ime [250] ime [250] ime [250] ime [250]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12 Fig/Cho F -99~+99 // Feedba -99~+99 // Feedba -99~+99 Feedba -99~+99 Feedba -99~+99 Feedba	[5] [45] [eed [0.69] [0.57] Shape [+99] [0] ain [+12] **Back [+10] [-90] ack [+50] [+50] ack [+50] ack [+50] ack	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr 0~99 Mod Sp 1~99 // High Da 0~99 High Da 0~99 High Da 0~99 High Da 0~99	[8] [epth
330 331 332 333 334 335 336 337 388 339 400 411 422 433 444	Distortion Over Drive PHASER Stereo Phaser 1 // 2 ROTARY SPEAKER Rotary Speaker ** TREMOLO Auto Pan Tremolo PARAMETRIC EQ Parametric EQ COMBINATION SERIAL Chorus-Delay Flanger-Delay COMBINATION PARALLEL Delay/Hall Delay/Room Delay/Chorus Delay/Flanger Delay/Distortion	Drive	[111] [50] I [99] [99] epth [9] form [SIN] [TRI] eq [12] Delay [11] [0] ime [250] ime [250] ime [250] ime [250] ime [250]	● 0~99 ● // Mod Sp ● 0.03~30 ● // Mod Wave -99~+99 // Low G -12~+12 Fig/Cho F -99~+99 // Feedba -99~+99 // Feedba -99~+99 Feedba -99~+99 Feedba -99~+99 Feedba	[5] [45] eed [0.69] [0.57] Shape [+99] [0] ain [+12] F-Back [+10] [-90] ack [+50] [+50] ack [+50] ack [+50] ack [+50] ack [+50] ack [+50]	0~99 // Mod De 0~99 // Accelera 1~15 Mod Sp 0.03~30 // Mid Fr 0~99 Mod Sp 1~99 // High Da 0~99 High Da 0~99 High Da 0~99	[8] Pepth [6] Pepth [6] Pepth

Mod Speed

Acceleration

[50]

[0.69]

//

0~99

1~99

Mod Depth

Slow Speed

[90]

[60]

[0]

[70]

Feedback

Fast Speed

99~+99 [-75]

//

0.03~30

1~15

//

● DRY~FX

DRY~FX

Dry:FX Balance

Dry:FX Balance

[40]

[30]

[15]

[70]

11

◆ DRY~FX

DRY~FX

Dry:FX Balance

Dry:FX Balance

^{*: &}quot;Slow speed" and "Fast speed" can be controlled by the Dynamic Modulation.

4. COMBINATION MODE

In this mode you can select and play Combinations (a combination of Programs), and control other instruments via MIDI. To select a Combination, use the BANK key, the numeric keys (0-9), the ∇/\triangle keys, a footswitch (COMBI UP/DOWN) or MIDI program change messages.

- Selections are made from among A00-B99 (internal memory) and C00-D99 (card).
- If you want to select Combinations using a foot switch, set the assignable pedal setting in Global mode to Program Up or Program Down (see page 165).
- When selecting Combinations by MIDI program change messages, set the Global mode parameter MIDI Filter PROG to "ENA".

When set to ENA ... Program change messages received on the global MIDI channel will change Combinations. Program change messages received on other channels will select the Program of the Timbre which is receiving on that channel.

If the Timbre channel is the same as the global channel, the global channel will take priority, and the Combination will be changed.

When set to PRG ... Program change messages received on the global channel will not change Combinations, but if a Timbre is receiving on that channel, the Program of that Timbre will change.

- The global channel is a MIDI channel set in Global mode P0-3, and it controls the entire 01/WproX•01/Wpro.
- Before selecting a Combination from a card, insert a PROG/ SEQ card containing the desired Combination.
- The Timbre mode settings of each Timbre will determine whether or not that Timbre will sound in response to the keyboard or MIDI IN, and whether it will transmit to MIDI OUT according to the Timbre's settings.

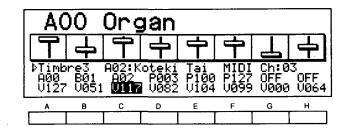
- Playing the keyboard will sound all Timbres which are set to the same channel as the global MIDI channel (you must first set the Timbre Mode to INT).
- "FX1" or "FX2" will be displayed to the right of the Combination name when the Value slider can be used to control the dynamic modulation of an effect.
- ★ Notes can be played until the total number of oscillators used by all Timbres reaches 32.
- ★ In Combination mode, effect settings for each Program are ignored, and the effect settings specified by the Combination parameters will be used.
- ★In Edit Program mode, when a Program is selected for editing, an asterisk "*" will be displayed in front of the Program number. (This will disappear when carrying out a Program Write operation.) If you edit in Program mode or Edit Program mode and then move to the Combination mode, the edited Program will be heard.
- ★ Combinations in Banks A and B (internal memory) must use Programs from Banks A and B as well. Combinations in Banks C and D must use Programs from Banks C and D. However if a card Bank (C or D) contains Sequence data, the Program must be selected from the same Bank as that used for the Combination.
- ★ Pressing the COMPARE key during COMBINATION mode will enable the edit recall function to call up a value set when moving from the EDIT COMBINATION mode to another mode.

Example: After creating an orchestra combination in the EDIT COMBINATION mode and then moving to the COMBINATION mode, although a different combination number may have been selected, pressing the COMPARE key will leave the combination number as it is and bring up the orchestra combination.

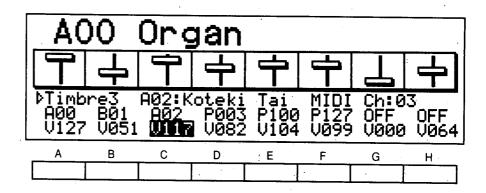
EDITING IN COMBINATION MODE

- In Combination mode, you can modify the Programs assigned to each Timbre of the Combination, and adjust the volume of each Program.
- Press a cursor key (A H), and use the VALUE slider or the △ / ▽ keys to edit the value.
- When you edit a Combination in Combination mode, the corresponding Edit Combination mode parameter will also be edited.
- To write a Combination you have edited in Combination mode, use the REC/WRITE key, or the Write operation in Page 9 of Edit Combination mode.
- To move to a lower line, press the CURSOR DOWN key.
 To move to an upper line, press the CURSOR UP key.

☆ By holding a cursor key (A — H) and pressing the EDIT PROG key, you can edit a Program (except effects and pan) used by a Timbre of the Combination, while listening to the Combination. To return, press the COMBI key.



PERFORMANCE EDIT



P0-1 Program

A	Timbre 1 Program	A00 — B99/C00 — D99 P000 — P127	Select the Program for each Timbre
:	:	:	
H	Timbre 8 Program	A00 — B99/C00 — D99 P000 — P127	

- ★ Combinations in Banks A and B (internal memory) must use Programs from Banks A and B as well. Combinations in Banks C and D must use Programs from Banks C and D. However if a card Bank (C or D) contains Sequence data, the Program must be selected from the same Bank as that used for the Combination.
- Numbers with "P" indicate a Program change number. This is displayed when Timbre mode is EXT, and program changes of external MIDI instruments are being controlled. For details, refer to the information on P0-3 in the Program Edit mode.

P0-2 Volume

A	Timbre 1 Volume	00 — 127	Adjust the output volume of each Timbre
:	:	:	
H	Timbre 8 Volume	00 — 127	

[▼]The output volume of each Timbre is shown on the slider display.

5. EDIT COMBINATION MODE

In this mode you can specify how programs are combined into a Combination, and make settings for MIDI OUT.

A Combination consists of 8 Timbres. Each Timbre contains a Program and various parameters related to performance and output (panpot, volume, MIDI channel, etc.). A Combination also contains a set of effect parameters that apply to the entire Combination.

- Operations in this mode will edit the Combination you previously selected in COMBINATION mode.
- When you finish editing a Combination, use the Write operation on Page 9 to write your edits into memory. This can also be done by pressing the REC/WRITE button. (If you select another Combination in COMBINATION mode before writing, your edits will be lost.)
- ☆ In EDIT COMBINATION mode, the numeric keys function as page select keys, but they can also be used together with the cursor keys (A H) to enter values for parameters.
- While editing, you can press the COMPARE key to hear the un-edited Combination. If you then press the COMPARE key once again without modifying a parameter value, you will return to the Combination you were editing before the COMPARE key was pressed.
- ☆ While editing P0~3, you can hold a cursor key (A—H) and press the EDIT PROG key to edit the corresponding Program (excluding effects and panponts) while listening to the Combination. To return, press the EDIT COMBI key.

FUNCTIONS IN EDIT COMBINATION MODE

Use the numeric keypad (0-9) or the PAGE+ key and PAGE- keys to select pages. To select parameters, use the CURSOR keys (UP, DOWN, $\boxed{A} - \boxed{H}$).

PAGE	FUNCTION	Parameter to edit
P0 Timbre 1		
	0-1 Timbre Mode (T1 — T8)	The MIDI transmit/receive mode of each Timbre being played
	0-2 MIDI Channel (T1 — T8)	The MIDI transmit/receive channel of each Timbre
	0-3 Program (T1 — T8)	The Program assigned to each Timbre
	0-4 Volume (T1—T8)	Volume of each Timbre
P1 Timbre 2		
11 Timole 2	1-1 Transpose (T1 — T8)	Transpose setting of each Timbre
	1-2 Detune (T1 — T8)	Detune setting of each Timbre
	1-3 Panpot (T1 — T8)	Output destination of each Timbre
		Output destination of each Timble
P2 Window		
12 Willdow	2-1 Vel Window Top (T1 — T8)	Top velocity value of velocity switch for each Timbre
	2-2 Vel Window Bottom (T1 — T8)	Bottom velocity value of velocity switch for each Timbre
	2-3 Key Window Top (T1 — T8)	Top key of keyboard range played by each Timbre
	2-4 Key Window Bottom (T1 — T8)	Bottom key of keyboard range played by each Timbre
P3 Filter		· ·
	3-1 Program Change Filter (T1 — T8)	Program Change message reception switch for each Timbre
	3-2 Control Change Filter (T1 — T8)	Control Change message reception switch for each Timbre
	3-3 Damper Switch Filter (T1 — T8)	Damper Switch message reception switch for each Timbre
	3-4 After Touch Filter (T1 — T8)	Aftertouch message reception switch for each Timbre
P8 Effect	. •	Effect settings
P9 Write		
	9-1 Write Combination	Write a Combination into memory
ĺ	9-2 Rename Combination	Rename a Combination
	9-3 Copy Effects All	Copy an Effect
ĺ	9-4 Copy/Swap FX	Copy/swap (exchange) settings between effects 1 and 2

For details of Page-8 EFFECT, refer to Effect Parameters (p.49).

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EDIT COMBINATION

Page-0 Timbre 1

P0-1 Timbre Mode(T1-T8) P0-2 MIDI. Channel(T1-T8)

P0-3 Program(T1-T8)

P0-4 Volume(T1-T8)

COMBI A00 PO:TIMBRE				▶Tin	1ode		
⊅Timbre2 B01:SAX				MIDI	Ch: 02	2	
 INT 01G A00 V127	02 801 V051	INT 03 A02 V117	EXT 04 P003 V082	EXT 05 P100 V104	EXT 06 P127 V099	0FF 07 806 V000	0FF 08 807 V064
Α	В	С	D	E	F	G	н

P0-1 Timbre Mode

A	Timbre 1	OFF, INT, EXT	Specify the sound and MIDI transmit/receive mode for
:		:	each Timbre being played
H	Timbre 8	OFF, INT, EXT	

- ▼This parameter specifies the sound and MIDI transmit/ receive mode for each Timbre.
- Select OFF for Timbres which are not being used.
- When playing the keybard, Timbres which have been set to INT and whose MIDI channels match the Global channel will respond, as will those Timbres which are set to the same MIDI channel as the Global channel (see P0-2).

Timbres which have been assigned to channels other than the Global channel will respond when MIDI signals are received via the channel selected.

- During play back using the 01/Wpro keyboard or joy stick, performance data is normally transmitted from MIDI OUT on the Global MIDI channel, but if a Timbre used in a Combination is set to EXT, the data will be sent via MIDI OUT through the channel of that Timbre, as well as through the Global channel. In addition, when a change is made in the Combination, Program changes and volume are output, permitting the 01/WproX•01/Wpro to control an external MIDI source as if it were a single Timbre.
- * Timbres which have been set to EXT will not sound.
- * Timbres which are set to EXT should be assigned to a channel other than the Global channel.

P0-2 MIDI Channel

A	Timbre 1	1 — 16	Specify the MIDI transmit/receive channel for each Timbre
:	:	:	
H	Timbre 8	1 — 16	

- ▼This parameter specifies the MIDI transmit/receive channel for each Timbre.
- If the Timbre Mode is INT, incoming note, pitch bend, aftertouch, and control change data will be received on the channel specified for each Timbre. The settings in P3-1— 4 allow you to enable or disable reception of each type of message. Up to 8 channels of MIDI data can be received to independently play up to 8 Timbres.
- If a channel setting is the same as the Global channel, a «G» will be displayed after the channel number.
- When you play the keyboard, move a controller, or apply aftertouch, messages will be transmitted on the Global channel. Messages will also be transmitted by Timbres whose Timbre Mode is set to EXT, on the channel specified for that Timbre.

When you play the keyboard, the Timbre with a "G" displayed will sound.

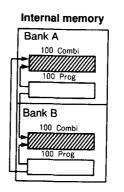
P0-3 Program

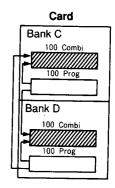
A	Timbre 1	A00 — B99/C00 — D99 P000 — P127	Select a Program for each Timbre
:	:	:	
H	Timbre 8	A00 — B99/C00 — D99 P000 — P127	

▼Select a Program for each Timbre.

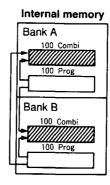
- If the Timbre Mode is INT, incoming Program Change messages will select Programs for Timbres of the corresponding channel.
- You can specify a Program in the range of A00 B99 and C00 D99. However, when the MIDI channel for that Timbre is the Global channel, operations will vary according to the setting selected for MIDI filter "PROG" (see page 159).
- When you select a Combination, Timbres whose Timbre Mode is EXT will transmit a Program Change message from MIDI OUT. You can specify a Program Change number in the range of 000 127. However, when the MIDI channel for that Timbre is the Global channel, the Program number for that Timbre will not be transmitted via MIDI OUT.
- Combinations in Banks A and B (internal memory) must use Programs from Banks A and B as well. Combinations in Banks C and D must use Programs from Banks C and D. However, if a card Bank (C or D) contains no Programs (e.g. no data has been saved in the bank or the bank contains Sequence data), a Program must be selected from the same Bank as that used for the Combination.

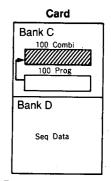
- Programs selected for Combinations
- (1) When the Program/Combination are in Banks C/D (Card) Internal memory





(2) When Bank C contains Programs and Bank D contains Sequence Data





Programs for a Combination in Bank C must be selected from Bank C.

P0-4 Volume

A	Timbre 1	00 — 127	Specify the volume for each Timbre	
	:	:		
H	Timbre 8	00 — 127		

- ▼Volume specifies the volume of a timbre whose Timbre Mode is set to INT. At a value of 127, the volume will be the full volume as determined by the Program parameters. At a value of 0, that Timbre will not sound.
- When you select a Combination, Timbres whose Timbre Mode is EXT will transmit the specified volume as a MIDI Volume message (Bn.07.xx). However, when the MIDI channel for that Timbre is the Global channel, this will not be transmitted via MIDI OUT.

Page-1 Timbre 2

P1-1 Transpose(T1-T8) P1-2 Detune(T1-T8)

P1-3 Panpot(T1-T8)

COMB	I	900 I	P1:TI	1BRE	▶Par	npot		············
⊳Timbre5 EXT:100				MID	I Ch:	2 5		
T+0 D-0 PRG	10 ' 12 I	T+12 D+00 A	T-24 D+00 B	T+05 D+00 5:5	T+00 D+00 5 H 5	T+00 D+00 5:5	T+00 D+00 5:5	T+00 D+00 5:5
A		В	С	D	E	F	G	Н
	\bot							

P1-1 Transpose

AT	Timbre 1	-24 +24	Adjust the pitch of each Timbre in chromatic steps (+/-2 octaves)
:	:	:	
НТ	Timbre 8	-24 +24	

- ▼Transpose adjusts the pitch of each Timbre in chromatic steps over a range of -24 to +24 (12 chromatic steps equals 1 octave).
- * For a Timbre whose Timbre Mode is INT, this setting will affect the pitch that is sounded, but not the Note messages that are transmitted from MIDI OUT. For a Timbre whose Timbre Mode is EXT (and whose MIDI channel is different than the Global channel), this setting will affect the Note messages that are transmitted from MIDI OUT.

P1-2 Detune

AD	Timbre 1	-50 +50	Adjust the pitch of each Timbre in steps of 1 cent (+/-50 cents)
:	:	:	
HD	Timbre 8	-50 — +50	

- ▼Detune is a fine pitch adjustment for each Timbre in steps of 1 cent, over a range of -50 to +50 (100 steps equal 1 chromatic step).
- * This setting is not transmitted from MIDI OUT.

P1-3 Panpot

A	Timbre 1	A, 9:1 — 1:9, B, C, C+D, D, ALL, PRG	Specify the audio output of each Timbre
:	:	:	
H	Timbre 8	A, 9:1 — 1:9, B, C, C+D, D, ALL, PRG	

- ▼Panpot assigns the audio output (& Effects input) of each Timbre to outputs A through D. The audio output of each Timbre can be sent from output A, 9:1—1:9, B, C, C+D, D, ALL, or PRG.
- When ALL is selected, the sound will be output from all outputs A—D. When PRG is selected, the Pan setting saved in the Program being played by the Timbre will be used. (In
- Edit Program mode, you can specify the output for each oscillator.) For settings other than «PRG», oscillators 1 and 2 of the Program will be panned to the same output.
- When a drum kit Program is assigned and "PRG" is selected, the panpot settings of the drum kit (Global P1, 2) will be used. For settings other than "PRG", all drum sounds will be panned to the same output.
- * The Panpot setting is not transmitted from MIDI OUT.

Page-2 Window

P2-1 Vel Window Top(T1-T8)
P2-2 Vel Window Bottom(T1-T8)
P2-3 Key Window Top(T1-T8)
P2-4 Key Window Bottom(T1-T8)

	to the activity	<u> </u>						
	COMBI	A00	P2:WI	NDOW	▶Ve	l Wir	idow E	ottom
,, ,,	ÞTimb	re2	B01:S	AX		MIDI	Ch:0	12
	064 001 G9 C-1	127 868 G9 C-1	127 001 69 C-1	127 001 83 C-1	127 001 G9 C4	127 001 F6 F#2	127 001 69 C-1	127 001 69 C-1
	Α	В	С	D	E	F	G	Н

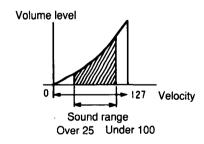
P2-1 Vel Window Top

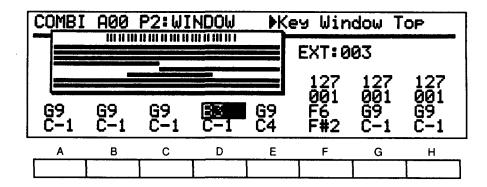
A	Timbre 1	1 — 127	Specify the maximum velocity that will play each Timbre or be transmitted from MIDI OUT
	:	:	
H	Timbre 8	1 — 127	

P2-2 Vel Window Bottom

A	Timbre 1	1 — 127	Specify the minimum velocity that will play each Timbre or be transmitted from MIDI OUT
:	:	:	
H	Timbre 8	1 — 127	

- ▼For Timbres whose Timbre Mode is INT, Velocity Window specifies the range of velocities for which the Timbre will sound. This allows you to make different Programs sound in response to notes of different velocities. For Timbres whose Timbre Mode is EXT, Velocity Window specifies the range of velocities for which Note messages will be transmitted from MIDI OUT.
- It is not possible to set a Top value lower than the Bottom value.
- Example
 Velocity Window Bottom = 25
 Velocity Window Top = 100





P2-3 Key Window Top

A	Timbre 1	C-1 — G9	Specify the highest note that will play each Timbre or be transmitted from MIDI OUT
	:	:	
H	Timbre 8	C-1 — G9	

P2-4 Key Window Bottom

A	Timbre 1	C-1 — G9	Specify the lowest note that will play each Timbre or be transmitted from MIDI OUT
:	:	•	
H	Timbre 8	C-1 — G9	

- ▼For Timbres whose Timbre Mode is INT, Key Window specifies the range of notes for which the Timbre will sound. This allows you to play different Programs over different areas of the keyboard.
 - For Timbres whose Timbre Mode is EXT, Key Window specifies the range of notes for which Note messages will be transmitted from MIDI OUT.
- It is not possible to set a Top key lower than a Bottom key. If you set the Top key lower than the Bottom key, the Bottom key will automatically be set to the Top key, and vice versa.
- When editing the Key Window, the Key Window setting for each Timbre will be displayed graphically. The keyboard for the main unit (black keys) is displayed on the upper level of the graph.
- To cancel the display, move the cursor to a parameter other than Key Window.
- You can also use the keyboard to make key settings. While holding the cursor key A H underneath the Timbre you wish to edit, press a key, and it will be entered when you release the cursor key.
- When Key Transpose is set to 0 in the Global Mode, the 01/ WproX keyboard will correspond to A0 — C8, and the 01/ Wpro (76 Keys) keyboard to E1 — G7.

Page-3 Filter

▶Timbre2 B01:SAX MIDI Ch:02 P3: o C3: o D3: o P3-1 Program Change Filter(T1-T8) P4:0 P1:0 P5:0 P6:0 P2:o P7:o Ċ**Š:** ō P3-2 Control Change Filter(T1-T8) C1:0 C2:x D2:0 C7:0 C4:0 Č8:0 <u>C6:o</u> Ď5:o D6:0 D1:o D4:0 D8:0 A2:0 A3:x A1:0 A4:x A5:x A7:0 A6: o A8: o

A00 P3:MIDI FLTR▶Program

COMBI

P3-3 Damper Switch Filter(T1-T8)

P3-4 After Touch Filter(T1-T8)

P3-1 Program Change Filter

AP	Timbre 1	x /0	Specify whether or not each Timbre will transmit and receive MIDI program changes
:	:	•	
HP	Timbre 8	x /0	

- ▼If the Program Change Filter is set to "x", that Timbre will not change Programs even when a MIDI program change message is received.
- When you select a Combination, if the Timbre Mode of the Timbres in the newly selected Combination is EXT, the Timbre with the Program Change Filter set to "O" will transmit the MIDI Program Change message. This will not occur if the Program Change Filter is set to "x".
- If the "PROG" parameter in the Global mode MIDI Filtering page (P0-5) is set to "ENA", incoming Program Change messages received on the Global channel will select Combinations, regardless of this setting. However if the "PROG" parameter in the Global mode MIDI Filtering page is set to "PRG", Combination changes cannot be made, and the Program Change Filter settings made here will be used.

P3-2 Control Change Filter

AC	Timbre 1	x /0	Specify whether each Timbre will respond to and transmit control changes (joystick, etc.)
:	:	:	
DC	Timbre 8	x /O	

▼If the Control Change Filter is set to "x", that Timbre will not be affected by control changes (joystick, foot controller, etc.).

If the Control Change Filter is set to "O" when the Timbre Mode is "INT", these effects are used, but when the Timbre Mode is "EXT", movements of the joy stick or controllers will be transmitted from the MIDI channel specified for that Timbre.

P3-3 Damper Switch Filter

AD	Timbre 1	x /0	Specify whether each Timbre will respond to and transmit damper pedal messages
:	:	:	
HD	Timbre 8	x :/0	

▼If the Damper Switch Filter is set to "x", that Timbre will not respond to the damper pedal.

If the Damper Switch Filter is set to "O" and the Timbre Mode is "EXT", movements of the damper pedal will be transmitted from the MIDI channel specified for that Timbre.

P3-4 After Touch Filter

AA	Timbre 1	x /0	Specify whether each Timbre will respond to and transmit aftertouch
:	;	:	
HA	Timbre 8	x /0	

▼If the After Touch Filter is set to "x", that Timbre will not respond to aftertouch.

If the After Touch Filter is set to "O" and the Timbre Mode is "EXT", aftertouch pressure will be transmitted from MIDI channel specified for that Timbre.

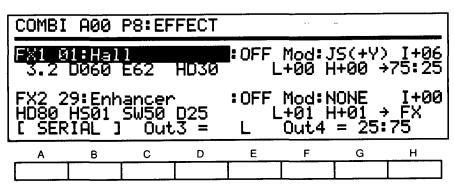
Page-8 Effect

For details of the following, refer to "Effect Parameters" (p.49).

P8-1 Effect 1 Type P8-2 Effect 1 Parameter P8-3 Effect 2 Type

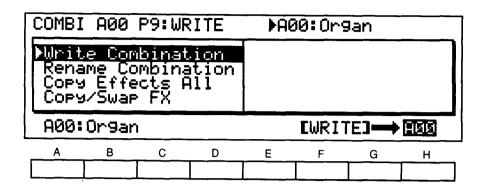
P8-5 Effect Placement

P8-4 Effect 2 Parameter



- The Combination Effects saved with the individual Programs in all Timbres are not used. The settings made here will be used instead.
- If you wish to use effect settings from a particular Program or Song, use the Copy Effect operation (P9-3).
- In Combinations, the Pan settings (A-D) for all Timbres are the inputs to the Effects.

Page-9 Write



P9-1 Write Combination

F	[WRITE]	Execute writing
H	A00 — B99/C00 — D99	The writing destination Combination number

- ▼This function writes (stores) an edited Combination into internal memory or a RAM card.
- (1) Select the combination number of the writing destination (use cursor key H). The name of the Combinations selected at the write destination will be displayed at the top right position.
- (2) Press WRITE (cursor key F).
- (3) The display will ask "Are you sure?". If you are sure you want to write the data into memory, press [YES] (cursor key [E]).
 - The Combination previously in that memory will be lost.
 - To quit without writing, press [NO] (cursor key H).
 - Writing is not possible if Combination Memory Protect is On. (Turn memory protect off in GLOBAL mode P4-5.)

- (4) When the write operation is completed, the display will show "Write Completed".
 - Press a cursor key (A—H) to return to the previous display.
- ☆ To copy a Combination from internal memory into another Combination memory, select the copy source in COMBI-NATION mode, and use this page to write it into another memory.
- ☆ You can also press the REC/WRITE key to write data without entering this page. In this case, the data will be written into the currently selected Combination.
- If you wish to write (save) Combination data to disk, use the operation in Disk mode. This will save all 200 Combinations from internal memory to disk.

P9-2 Rename Combination

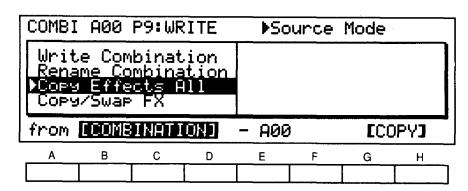


E	[INS]	Insert one character at the rename cursor position
F	[DEL]	Delete one character at the rename cursor position
G	[◀] (cursor left)	Move the rename cursor to the left
H	[▶] (cursor right)	Move the rename cursor to the right

- ■Use [◄] (cursor key G), [▶] (cursor key H), [INS] (cursor key E), [DEL] (cursor key F), the VALUE slider, and the △ / ▽ keys to modify the Combination name.

 Pressing [INS] will insert one copy of the character at the cursor position to the right of the cursor position. Pressing [DEL] will delete the character at the cursor position.
- You may give a Combination a name of up to 10 characters or symbols.

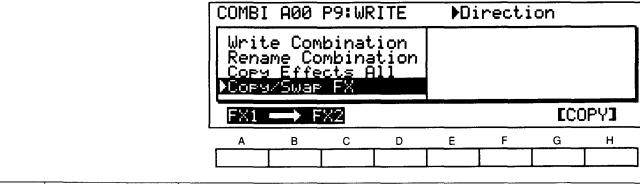
P9-3 Copy Effects All



В	Source Mode	PROGRAM COMBINATION SONG	Copy from a Program Copy from a Combination Copy from a Song
E	Source Number	A00 — B99/C00 — D99 A00 — B99/C00 — D99 0 — 9/C0 — D9	The Program to copy from The Combination to copy from The Song to copy from
G		[COPY]	Execute the copy operation

- This function copies only the Effect parameters from a Combination, Program, or Song.
- The data will be copied into the Combination you are currently editing.
- (1) Select the type of data containing the memory whose Effect parameters you want to copy (B).
- (2) Select the memory number you want to copy from. This will be the Program number when copying from a Program, the Combination number when copying from a Combination, or the Song number when copying from a Song.
- (3) Press [COPY] (G) to copy the effect parameters from the specified memory.

P9-4 Copy/Swap FX



A	$FX1 \rightarrow FX2$ $FX1 \leftarrow FX2$ $FX1 \leftrightarrow FX2$	Copy FX1 settings to FX2 Copy FX2 settings to FX1 Swap (exchange) settings of FX1 and FX2
G	[COPY]	Execute the copy/swap operation

This operation copies (or exchanges) parameter values between Effect 1 and Effect 2.

6. SEQUENCER MODE

HOW A SONG IS ORGANIZED

The 01/WproX•01/Wpro's memory can hold up to 10 Songs. Each Song consists of the following data.

Song

Song parameters (tempo, time signature, etc.)	TRACK 1 parameters (Program number, volume, MIDI channel, etc.)	TRACK 1 musical data
time signature, etc.)	TRACK 2 parameters	TRACK 2 musical data
	TRACK 3 parameters	TRACK 3 musical data
	TRACK 4 parameters	TRACK 4 musical data
	TRACK 5 parameters	TRACK 5 musical data
	TRACK 6 parameters	TRACK 6 musical data
	TRACK 7 parameters	TRACK 7 musical data
	TRACK 8 parameters	TRACK 8 musical data
	TRACK 9 parameters	TRACK 9 musical data
	TRACK 10 parameters	TRACK 10 musical data
	TRACK 11 parameters	TRACK 11 musical data
Tempo track (Track into which control	TRACK 12 parameters	TRACK 12 musical data
data is inserted to change the tempo or beat for Tracks	TRACK 13 parameters	TRACK 13 musical data
1-16 simultaneously)	TRACK 14 parameters	TRACK 14 musical data
EFFECTS (effect settings	TRACK 15 parameters	TRACK 15 musical data
used in this Song)	TRACK 16 parameters	TRACK 16 musical data

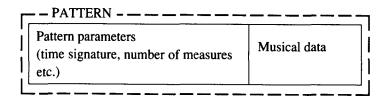
- Each song contains 16 tracks.
- Each track has its own Program and MIDI channel. (It is also possible to insert program changes at any point in a song.)
- Each track can contain up to 999 measures of musical data.
- Each song has its own effect settings. (In Sequencer mode, the effect settings of the Program assigned to each Track will be ignored.)
- The number of simultaneous notes that the 01/WproX•01/ Wpro can produce can not exceed 32 oscillators total for all Tracks.
- Control of external sound sources can be carried out by assigning EXT status to each Track.
- You can select a base resolution (the smallest unit of timing used) of either J/48 (1/48th of a quarter note) or J/96. These are referred to respectively as Low Resolution and High Resolution. If you wish to record subtle nuances of timing, you should select High Resolution, but be aware that in this case there are some time signatures (see P0 Beat) which cannot be used.
- Before playing sequence data from a card or disk you must first load the data into internal memory.
- A song can be played directly from a card, but no editing or recording can be carried out. (This can be done after loading to the internal memory.)
- Among the settings (Track Parameters) used when you start playback, if the Program number, Volume and Pan have been recorded as playback data, the settings for these parameters can be changed during playback.

- ☆ Musical data on tracks in a Song can be created in three ways.
- (1) **Realtime recording (P0-1):** Your keyboard playing will be recorded in the timing that you play it. This is the simplest way to record. When you enter Sequencer mode, you will automatically be in the realtime recording page.
- (2) Step recording (P5-1): This allows you to enter notes one by one (a step at a time) from the keyboard, specifying the length and velocity of each note.
- (3) Pattern (P7-1, P7-2): Patterns (musical data of 1 99 measures) can be strung together to form rhythm parts, etc.

HOW A PATTERN IS ORGANIZED

Pattern

In addition to the 10 Songs, memory also holds 100 Patterns. These Patterns can be arranged in a Track, and played during a Song. It is also possible to use Patterns for repeating sections of a Song, such as rhythm patterns or phrases. This lets you save memory. Each pattern corresponds to one Track, and has a length of 1-8 measures. Each Pattern consists of the following data.



- A Pattern can be placed in any Track of any Song. However, it is not possible to place two or more Patterns in the same measure of the same Track, nor can the same measure contain both a Pattern and other musical data.
- ☆ Pattern data can be created in three ways.
- (1) Realtime recording: Your keyboard playing will be recorded in the timing that you play it. Unlike realtime Track recording, realtime Pattern recording overdubs your playing (the newly played data is added to the old data) as the Pattern continues to repeat. (This allows you to record a drum kit pattern by playing each drum separately.)
- (2) Step recording: This allows you to enter notes one by one (a step at a time) from the keyboard, specifying the length _ and velocity of each note. Unlike step Track recording, the newly played data is overdubbed (added to the old data).
- (3) Copy from a Track: Musical data can be copied from a Track into a Pattern.

SEQUENCE DATA MEMORY

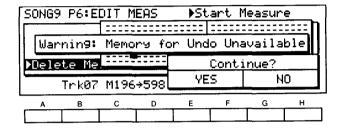
The sequence memory of the 01/WproX•01/Wpro can contain up to 48,000 steps total for all Songs and Patterns. However, a single Track or Pattern can contain no more than 16,000 steps.

When you turn the 01/WproX•01/Wpro power off, all the sequence data in memory will be lost. Be sure to save your newly created sequence data to disk or card, or use the MIDI data dump to save it to some other external data file.

- The sequence memory of a PROG/SEQ card can contain a total of 7,000 steps. Therefore, you can save the sequence data created on the 01/WproX•01/Wpro if the free memory space on the card is 86% or more.
- When there is enough free memory, you can press the COMPARE key to cancel the previous edit and return the sequence data to its previous condition. For example, if after executing a Quantize operation you decide that you don't like the results, this function allows you to restore the data to its original state.

However, this Compare function applies only to the lastexecuted operation. While editing a sequence, it is a good idea to save your work to disk or RAM card as necessary.

• If there is not enough free memory and the Compare function is not available, the display will ask "Continue?".

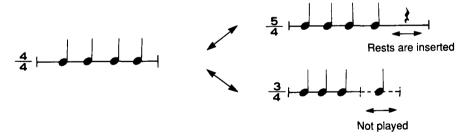


Press YES (\boxed{E}) to execute the operation. To quit without executing, press NO (\boxed{G}).

TIME SIGNATURE

The 01/WproX•01/W allows you to specify the beat (time signature) of each measure, but it is not possible for the same measure in two or more tracks to be set to a different time signature. If the time signature of a track is changed as a result of recording or editing, the time signature of the other tracks will change in the same way. Measures that became longer

will have rests inserted into them, and measures that became shorter will no longer play the musical data that extends beyond the new end of the measure. (However since the musical data still remains in the measures, it can be played if the time signature is restored to its original value.)



- * The range of beats you can specify will depend on the base resolution.
- Base resolution is the resolution which a song is based on, and is divided into High and Low.

The range of beats on the beat resolution

Base Resolution	Beat
Low	1/4 — 9/4
	1/8 16/8
	1/16 — 16/16
High	1/4 — 5/4
	1/8 — 10/8
	1/16 — 16/16

Note: Please note that you cannot change the base resolution of the Song recorded unless you erase the entire Song in P5-7.

FUNCTIONS IN SEQUENCER MODE

Functions in Sequencer mode allow you to play and record a Song, and edit musical data and Song parameters.

• In this mode, the keyboard will play the Program which is assigned to the currently selected Track (i.e., the Track which is selected in P0-1 Track).

PAGE	FUNCTION	
P0 REC/PLAY		
	0-1 Real Time Recording	Record a Track in realtime
	0-2 Track 1 — 8 Mute/Rec/Play	Mute/record/playback settings for Tracks 1—8
	0-3 Track 1 — 8 Program, Volume,	Specify the Program, Volume and Pan for Tracks 1—8
	Pan	
	0-4 Track 9 — 16 Mute/Rec/Play	Mute/record/playback settings for Tracks 9—16
	0-5 Track 9 — 16 Program,	Specify the Program, Volume and Pan for Tracks 9—16
	Volume, Pan	·
P1 TRACK 1 — 8		
	1-1 Track Status	On/Off, MIDI output for each Track
	1-2 Track Protect	Memory protect On/Off for each Track
	1-3 Transpose	Transpose setting for each Track
	1-4 Detune	Detune setting for each Track
		a state state grant and the state grant gran
P2 TRACK 9 — 16		Same as P1
P3 Ch, Window 1 — 8		
	3-1 MIDI Channel	Specify MIDI channel for each Track
	3-2 Velocity Window Top	Specify velocity window for each Track
	3-3 Velocity Window Bottom	
	3-4 Key Window Top	Specify key window for each Track
	3-5 Key Window Bottom	
P4 Ch, Window 9 — 16		Same as P3
P5 EDIT SONG		
	5-1 Step Recording	Step record a Track
	5-2 Create Control Data	Modify and insert control data in a Track
	5-3 Event Edit	Edit the events in a Track
	5-4 Erase Track	Erase a Track
	5-5 Bounce Track	Bounce a Track
	5-6 Copy Track	Copy a Track
	5-7 Erase Song	Erase a Song
	5-8 Append Song	Append a Song

PAGE	FUNCTION	
P6 EDIT MEASURE		
	6-1 Quantize	Quantize
	6-2 Shift Note	Transpose note data
	6-3 Modify Velocity	Modify velocity data
	6-4 Delete Measure	Delete measures
	6-5 Erase Measure	Erase measures
	6-6 Copy Measures	Copy measures
	6-7 Insert Measure	Insert measures
	6-8 Put/Copy Pattern	Place/copy a Pattern in/to a measure
P7 EDIT PATTERN		
	7-1 Real Time Recording	Record a Pattern in realtime
!	7-2 Step Recording	Step record a Pattern
	7-3 Event Edit	Edit the events in a Pattern
	7-4 Pattern Parameter	Set time signature and length of a Pattern
	7-5 Erase Pattern	Erase a Pattern
	7-6 Get from Track	Define a Pattern as data from a Track
	7-7 Bounce Pattern	Bounce a Pattern
	7-8 Copy Pattern	Copy a Pattern
P8 EFFECT		Effect settings
P9 SONG		
	9-1 Next Song	Specify the Song to be played next
	9-2 Rename Song	Set the Song name
	9-3 Metronome	Metronome settings
	9-4 Copy Effects All	Copy effect parameters
	9-5 Copy/Swap FX	Copy/exchange settings of effects 1 and 2
	9-6 Copy from Combination	Copy Combination data
	9-7 Base Resolution	Specify the Base Resolution

SEQUENCER

Page-0 REC/PLAY (record/play)

P0-1 Track1~8 Program,Volume,Pan

P0-2 Track1~8 Mute/Rec/Play

P0-3 Track9~16 Program, Volume, Pan

P0-4 Track9~16 Mute/Rec/Play

P0-5 Real Time Rec/Play

SONGO	Sno	SnowGoose			▶Tempo		"
*A00	A01	A02	A03	A04	A05	A06	A07
A08	A09	A10	A11	A12	A13	A14	OFF
SNGØ J=144	Tr01 MAN	M001 Q:HI	4/4 M:OFF	OVWR Edit	:PRG		
A	В	С	D	E	F	G	Н
1							

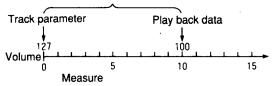
P0-1 Track 1 — 8 Program, Volume, Pan

A	Track 1	OFF, A00 — A99, B00 — B99 00 — 127 A, 9:1 — 1:9, B, C, C+D, D, ALL, PRG	Program number Volume Pan
:	1:	· ·	
H	Track 8		

- ▼This determines the Program, Volume, and Pan settings for each Track 1 8. Edit Parameter (key in the bottom line) determines whether Program, Volume, or Pan will be set.
- If changes are made in the Program, Pan or Volume settings of a track during recording, those changes will be recorded along with the note data and the control data.
- If changes are made in the Program, Volume, or Pan settings, during playback, these values will be stored as track parameters, and the new settings will be selected when Reset Start (playback from the beginning) is used for playback. However, if these changes result in parameters that are the same as some other parameters already recorded on that track, no changes will be made.

For example, the Volume parameter for a track is set to 127 and a song which contains data setting the Volume to 100 in the 10th measure is played. At some point prior to playback of the 10th measure, the Volume parameter is changed to 110, so the next time the song is played the track will start playback at 110, the new Volume parameter. However, when the song reaches the 10th measure, the data in that measure will adjust the Volume parameter to 100. After this change, no further adjustments will be made in the value of the Volume parameter during playback from the 10th measure forward.

Changing the volume between these points during playback will modify the track parameter.



- If a Track contains program changes, volume control, or pan change data, the display will change independently during playback and when the measure is changed.
- Changes can be made by adding data during recording (Realtime, Step) or editing (P5-2 Create Control Data, P5-3 Event Edit).
- When a Track's pan setting is "PRG", the pan setting of the Program selected for that track will be used. This means that if that Program is a Drum Kit, the pan settings of the inst of the drum kit will be used.
- When any setting other than PRG is selected, a single pan will be used for Oscillators 1 and 2, even if the OSC mode for the Program is set to Double. The output (= effects input) will be transmitted from this setting. The DRUMS setting in the OSC mode also works in this manner.
- * When a Pan setting is changed during playback or recording, the newly selected pan will be enabled with the next note played following the change. Pan settings cannot be changed for a sound while it is being played.

P0-2 Track 1 — 8, Mute/Rec/Play

A	Track 1	PLAY MUTE REC PLAY MUTE	Playing Muted Recording Playing Muted	During playback During recording
:	:	:		
H	Track 8			

- ▼Specify the Mute/Rec/Play mode of each track 1 8
- During playback, tracks set to PLAY will be played, and tracks set to MUTE will not be played.
- When carrying out single track recording (Tracks 1-16), select REC for the track to be recorded, and other tracks which have data to PLAY or MUTE.
- When carrying out multi-track recording (select MULTI),
 REC or " —— " will appear for tracks which contain no data, and for tracks which do contain data, select REC,
 PLAY or MUTE.
- : Track is not used (contains no data)
- REC: Track is used for recording
- PLAY: Track is played back
- MUTE: Track is not played (contains data)
- During playback, press a key 0-3 while holding down any key A H that correspond to the track you have selected.
 The following settings may be selected.
- 0 : The track(s) will be played.
- : The track(s) will be muted.: All tracks will be played.
- 3 : All tracks other than the one selected will be muted
 - (Solo function).Play

P0-3 Track 9 — 16 Program, Volme, Pan

A	Track 9	OFF, A00 — A99, B00 — B99 00 — 127 A, 9:1 — 1:9, B, C, C+D, D, ALL, PRG	Program number Volume Pan	
	l :	:		
H	Track 16			

[▼]This determines the Program, Volume, and Pan settings for each Track 9 — 16. The content is the same as P0-3.

P0-4 Track 9 — 16, Mute/Rec/Play

A	Track 9	PLAY MUTE REC PLAY MUTE	Playing Muted Recording Playing Muted	During playback During recording	
:	. :	:			
H	Track 16				

[▼]Specify the Mute/Rec/Play mode of each track 9 — 16. The content is the same as P0-2.

P0-5 Real Time Rec/Play

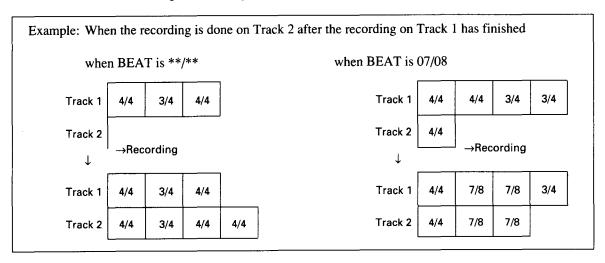
A SNG	Song	0 — 9	Select the Song to play or record
В	Track	1 — 16 MULT	Select the Track to record Specify multitrack recording
C M	Location Measure	001 — 999	Current measure number (location measure)
	Beat	01/04 — 9/04)	Display and set the time signature
D		01/04 — 9/04 01/08 — 16/08 01/16 — 16/16	Low base resolution
		01/04 — 05/04 01/08 — 10/08 01/16 — 16/16	High base resolution
		** / **	Recording
E	REC Mode	OVWR OVDB AUTP MANP LOOP	Select the recording mode Overwrite Overdub Auto punch in Manual punch in Loop
F	Rec Start Measure	001 — 999	Measure to start the recording
G	Rec End Measure	001 — 999	Measure to end the recording

- ▼Song selects the song to be played or recorded. If a card containing sequence data has been inserted, press the BANK key to make your selection for playback. Songs you wish to edit or record must first be loaded from a disk or card into the internal memory.
- ▼Track specifies the track that will be recorded. When set to a specific track "1 16", the specified track will be recorded. When set to "MULT", recording will be done in "Multitrack recording" mode, and recording will occur for all tracks whose REC/PLAY setting is "REC" (see Multitrack Recording).
- When a specific track "1—16" is selected and you play the keyboard, the specified track will sound. At this time, the other tracks, with the same MIDI channel assignment will sound simultaneously.

- When "MULT" is selected and you play the keyboard, the track which is assigned to the same channel as the Global channel will sound.
- * The global channel is the MIDI channel which is set in Global mode P0-3, and it controls the entire01/WproX•01/Wpro.
- ▼Measure (location measure) indicates the current recording/playback location. After a song has been played back, or when the RESET key has been pressed, this will display "001".

▼Beat specifies the time signature.

By specifying the beat (second row from the bottom \boxed{D} key) before starting to record, you can specify the time signature the measures will be recorded in. Changes in time signature will apply to all tracks that contain musical data.



The time signatures that can be selected will depend on the Base Resolution (see Base Resolution P9-7).

 Base resolution is the timing resolution which a Song is based on, and is divided into High and Low.

Low resolution
$$1/4$$
 — $9/4$ $1/8$ — $16/8$ $1/16$ — $16/16$ High resolution $1/4$ — $5/4$ $1/8$ — $10/8$ $1/16$ — $16/16$

Note: Please note that you cannot change the base resolution of the Song recorded unless you erase the entire Song in P5-7.

- * It is not possible to make Beat settings during playback.
- * If previously recorded tracks exist, the Beat display during recording will be "**/**". If you begin recording in this condition, the previously recorded time signature will be used, but if you specify a time signature other than "**/**", that time signature will be used for the previously recorded track.

▼Recording Mode

Five methods of realtime recording are provided. Use the method that is appropriate for your situation. (Refer to "Realtime Recording" P108)

- The Rec Start Measure and Rec End Measure will be displayed if REC Mode is set to "AUTP" or "LOOP".
- * If you have selected Loop Recording, looping will be carried out during playback as well.

A] =	Tempo	40 — 240 EXT	Tempo when clock source is INT (number of beats per minute) When clock source is EXT
В	Tempo Track	MAN, AUT MAN, AUT, REC	Tempo track mode Tempo track mode
C Q:	Realtime Quantize	HI, \$3, \$, \$3, \$, \$3, \$, \$	Rhythm correction step while recording (realtime quantization)
DM:	Metronome	OFF ON REC	Specify how the metronome will sound The metronome will not sound The metronome will sound during both recording and playback The metronome will sound only during recording
E Edit:	Edit Parameter	PRG VOL PAN	Select the parameter you wish to edit in this page Program number Volume Panpot
G	Add/Remove	[ADD] [RMV]	Add or remove musical data
H	Erase	[ERA]	Partially erase performance data

- ▼Tempo displays and adjusts the playback tempo.
- When the Global mode P0-3 "Clock Source" is set to "INT", the any previously recorded tempo will be displayed if the Tempo Track is set to «AUT» when playing back or when the measure is changed. (You cannot use the Value Slider or △/▽ key to edit). The VALUE slider and the △/▽ keys can be used for editing without being affected by changes in any previously recorded tempo when "MAN" is selected for the Tempo Track.
- When the Global mode P0-3 "Clock Source" is set to "EXT", the Tempo display will be "EXT". The tempo will be determined by clock messages from an external sequencer, etc.
- ▼The Tempo Track registers data to control the tempo during a song.
 - When recording, this can be set to MAN (manual), AUT (auto), or REC (record). If you modify the tempo when this is set to "REC", the tempo changes will be recorded into the tempo track. When set to "AUT", the tempo will change according to the tempo changes that were recorded, and you can record as the tempo changes. When set to "MAN", the tempo will not be changed automatically.
- When playing back, this can be set to MAN or AUT. When "MAN", the tempo will not be changed automatically. When "AUT", the recorded tempo changes will control the tempo.

▼Realtime Quantize

Realtime Quantize (bottom line B key) determines the timing accuracy to which data will be corrected as you realtime record. If you set this to "HI", data will be recorded at the timing set in the Base Resolution (P9-7), and if this is set to J, data will be be recorded at quarter note intervals. If control data for which the value is constantly changing (such as pitch bend) is recorded at a rough resolution (such as J), it will have an unnatural "stepped" effect when played back. In such cases, record using as fine a resolution as possible, and then use P6-1 Quantize to correct the timing of note data.

▼Metronome

OFF: the metronome will not sound

REC: the metronome will sound during recording but not during playback

ON: the metronome will sound during both recording and playback

- * When the metronome is used, the number of available voices will decrease by one.
- ▼Edit Parameter allows you to select either "Program No.", "Volume", or "Panpot" as the parameter to be edited in that screen. If you edit these while recording, your edits will be recorded, allowing you to insert Program Change, Fade In, Fade Out or panning data in realtime.
- ▼[ADD] [RMV] Remove and [ERA] Erase will be displayed if REC Mode is set to "Loop".
- * See "Loop Recording", P112, for Rec Start Measure, Rec. End Measure, Add/Remove, and Erase.

Play

Specify the Song number (second row from the bottom A key) to play, and press START/STOP to begin playback. Insert a PROG/SEQ card containing sequence data and press the BANK key to select a song from the card. To playback from a specific location in the song, specify the location measure (second row from the bottom C key). During playback, pressing START/STOP will pause playback. Press START/STOP once again to resume playback.

When the song ends, playback will stop and the measure will be reset to 001. However if P9-1 Next Song has been specified, that song will be selected.

- If playback was started from the middle of a song, the position will be reset to the measure at which playback was started when the song ends.
- While not playing back, pressing the RESET switch will return to the beginning of the song, and all settings will change to the initial track parameter values. The Bank, Program Number, and Volume settings for tracks with a status of "EXT" or "BOTH" will be transmitted via MIDI OUT.

- Effect settings can be changed even during playback by moving to Page 8 and making your selection.
- * Beat settings cannot be made during playback.
- During playback, you can set P0-2 and P0-4 REC/PLAY mode to "MUTE", to mute the playback of a track.
- * When the tempo (the A key in the bottom line) is "EXT", playback will not begin if you have not input a MIDI clock when you press the START/STOP key, since it will be controlled from an external MIDI device. If you set the Global mode parameter P0-3 "Clock Source" to "INT", the tempo display will show a number value, and you will be able to start playback by pressing the START/STOP key.
- When a change is made in the Program, Volume or Pan settings during playback or when stopped, the value is written as a new track parameter (initial value) with each change that is made (Refer to P0-3).

About realtime recording

There are five ways to realtime record. "P0-1 Rec Mode" specifies the recording method.

Over Write	overwrite		
Over Dub	overdub		
Auto Punch In	auto punch in		
Manual Punch In	manual punch in		
Loop	loop		

• Over Write Recording

Press the REC/WRITE key and then press the START/STOP key to begin recording. To stop recording, press the START/STOP key once again. This is the most basic form of recording.

If you overwrite record on a track which already contains musical data, the data will be rewritten and the data following the point at which you began recording will be erased.

• Over Dub Recording

If you overdub record into a track which already contains musical data, the newly recorded data will be combined with the previous data.

• Auto Punch In Recording

This method of recording allows you to re-record a specified area (specified measures) of a previously recorded track.

Manual Punch In Recording

This method of recording allows you to playback a previously recorded track, and press the REC/WRITE key or use the footswitch to carry out re-recording.

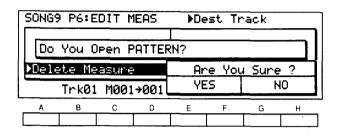
Loop Recording

This method of recording repeatedly plays back a specified area (specified measures), and allows you to continue recording additional data (or deleting data) in that area.

☆ Sequence data cannot be recorded or edited directly from a card. The data must first be loaded (using Global mode page P5-2 or P5-6) into the internal sequence memory.

Pattern opening

If there is a Pattern which has been put into a specified measure using Put Pattern (P6 — 8), in the measures recorded in the range specified in the Source/Destination Track of the Bounce Track or Edit Measure, the following message will be shown when the recording or editing has finished.

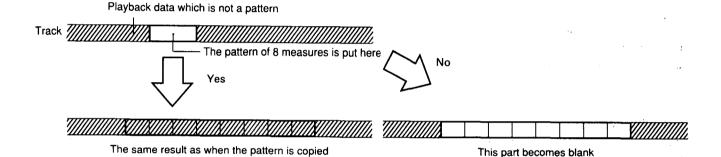


Selecting "Yes" will have the same result as when the Pattern was copied onto the Track when the Pattern was copied in P6-8. This is the same result as that obtained after editing in the Bounce Track or Edit Measure has finished.

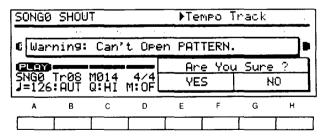
In other words, "Pattern opening" means that the Pattern put into the measure will be copied onto the Track. This operation does not affect the Pattern.

Selecting "No" will cancel the Put Pattern. (Data will be erased from measures in which the Pattern of the corresponding Track has been Put.)

There may be some cases where the error message is displayed and you cannot execute Edit depending on the type of Edit (see page 211).



When a pattern is within the range specified during real time recording, the pattern is automatically opened after recording is completed. The following message will be displayed if there is not enough memory space.



Pressing "Yes" will lead to the same result as selecting "No" in response to the question "Do You Open Pattern?". Pressing "No" will cancel the recording and editing operation.

Realtime recording procedure

- (1) Select the song you wish to record (second line from the bottom A key), and then specify the P9-7 Base Resolution. This can be set independently for each song. However, be aware that once the Base Resolution has been set, it cannot be modified until you erase the song data (P5-7 Erase Song).
- (2) Select the track you wish to record (second line from the bottom B key), and if necessary, use P1 4 to specify parameters (output destination and MIDI channel of the musical data, etc.). At this time, set P1-2 (P2-2) Protect to "OFF". (If this is "ON", recording will not be possible.)
- (3) Press the REC/WRITE key to make the indicator light.
- (4) Specify the Beat (second line from bottom \boxed{D} key) and Tempo (bottom line \boxed{A} key). These parameters can be set independently for each song, and playback will begin with the settings you specify. If necessary, make settings for the basic parameters related to the tempo, Quantize value, Metronome ON/OFF, and so on using Tempo Track (bottom line \boxed{B} key), Realtime Quantize (bottom line \boxed{C} key), and Metronome (bottom line \boxed{D} key).
- (5) Press Edit Parameter (bottom line E key), and in P0-3 and P0-5, specify the Program number, Volume, and Panpot for the track you will be recording. If you modify these settings during recording, your changes will be recorded. If desired, make settings when you start recording.
- (6) Select the recording mode (second line from bottom E key). After this step, the procedure will depend on the type of recording, so refer to the explanations of each recording mode.
- Aftertouch data uses up a lot of memory. When recording a Track which does not require aftertouch data, save memory by setting the Global mode P0-5 MIDI Filter setting for Aftertouch to "DIS".

Overwrite recording

Follow steps (1) — (5) of the "Realtime recording procedure", and select "OVWR" in step (6).

- (7) Press START/STOP. After the countdown specified by P9-3 Lead In, recording will begin. At this time, other tracks will be played according to the P1-1 (P2-1) Track Status setting.
- (8) When you are finished, press START/STOP to stop recording. You will return to the measure at which recording began, so you can press START/STOP to hear the performance you just recorded.
- * Overwrite recording on a Track where a Pattern has been Put will automatically cancel the Put pattern, and new data will be recorded on the Track.

Overdub recording -

The recording procedure is the same as for "Overwrite recording". (Select "OVDB" in step (6).)

* When Overdub recording on a Track in which a Pattern has been put, the display will ask you if you want to open the Pattern. Selecting "Yes" will open the Pattern on the Tracks and Selecting "No" will cancel the Put Pattern.

Auto Punch In recording -

Auto Punch In recording allows you to re-record a specified measure of a Track.

Perform steps (1)—(5) of "Realtime recording"; and select "AUTP" in step (6).

- (7) Specify the Rec start measure (second from the bottom row F key) and the Rec End measure (second from the bottom row G key.). 18 1 1 1
- (8) Set the location measure (second row from the bottom C key) to a location several measures before the Rec start measure, and press START/STOP. After a countdown to the measures specified on P9-3 Lead In, playback will begin.
- (9) When the Rec start measure is reached, recording will automatically begin.

- (10) When the Rec end measure is reached, press START/ STOP to stop playback. You will return to the measure at which playback began. To punch in record to the same measure once again, repeat from step (8).
- If the specified punch in/out area contains damper or pitch bend data, the loss of this data may result in a "stuck" or different effect of damper pedal or pitch bend when played back. If so, use Create Control Data (P5-2) or event edit (P5-3) to correct the data.
- * When Auto Punch In recording on a Track onto which a Pattern has been put, the display will ask you if you want to open the Pattern. Selecting "Yes" will open the Pattern on the Track, and selecting "No" will cancel the Put Pattern.

٠,					:	
· .	÷				REC Start Measure	REC End Measure
	*	Track		<u></u>		
			<u> </u>	Location M	leasure	

Manual Punch In recording -

Perform steps (1), (2), (4), and (5) of "Realtime recording" (not (3)), and select "MANP" in step (6).

- (7) Set the location measure (second row from the bottom C key) to a location several measures before the area you wish to re-record, and press START/STOP to begin playback.
- (8) When you reach the beginning of the area you want to re-record (the punch-in point), press the REC/WRITE key or press a foot switch (the assignable pedal for which you select "SEQ Punch In/Out" in Global mode P4-2(3)). The REC/WRITE key will light, and recording will begin.
- (9) When you reach the end of the area you wish to record (the punch-out point), press the REC/WRITE key once again, or press the footswitch. Recording will end.

- If the specified punch in/out area contains damper off or pitch bend data, the loss of this data may result in a "stuck" damper pedal or pitch bend when played back. If so, use Create Control Data (P5-2) or event edit (P5-3) to correct the data.
- * This method of recording is used to make corrections to existing data. The previously specified beat will be used, and cannot be set here.
- * When Manual Punch In recording on a Track in which a Pattern has been Put, the display will ask you if you want to open the Pattern. Selecting "Yes" will open the Pattern on the Track, and selecting "No" will cancel the Put Pattern.

Loop Recording -

In this method of recording, the specified area of measures will be played back repeatedly, and you can record additional data while listening to the previously recorded data play back.

Perform steps (1) — (5) of "Realtime recording", and select "LOOP" in step (6).

- (7) Specify the Rec start measure (second from the bottom row F key) and the Rec end measure (second from the bottom row G key).
- (8) Set the location measure (second row from the bottom $\boxed{\mathbb{C}}$ key) to a location several measures before the Rec start measure, and press START/STOP. After a count-down to the measures specified on P9-3 Lead In, playback will begin.
- (9) When the Rec start measure is reached, recording will automatically begin.
- (10) When the Rec end measure is passed, playback will immediately begin again from the Rec start measure, and you can continue recording. The newly recorded data will be overdubbed.

- * In Loop recording, there are two ways in which you can erase data.
- After starting the recording, press [ERA] ([H]), and all sequence data during the time you press the key will be erased.
- After starting, select "RMV" for Add/Remove (G). Press the key you wish to erase, and data for that note will be erased from the pattern as long as you hold the key down. While you use the joystick to apply an effect such as pitch bend, that control data will be erased.
- (11) When you press the START/STOP key, recording will stop. If you start without pressing the REC/WRITE key, you will hear the data you just recorded. If you wish to modify or erase the data further, repeat steps (8) (11).
- * If you record data onto the area which indicates the Pattern which has been Put on the Track, the Put Pattern will be automatically cancelled, and new data will be recorded on the Track.

Multi-track recording

The 01/WproX•01/Wpro can also record MIDI data from external devices. When the Track selection (second row from bottom B key) is set to a single track "Trk1"—"Trk16", only MIDI data which matches the channel specified for that Track will be recorded (single track recording). However, if "MULT" is selected, several Tracks can simultaneously record data on the corresponding MIDI channels.

- * Multi-track recording involves receiving data from an external source such as a MIDI sequencer. Because of this, the clock source should be set to EXT in order to be in synch with the external MIDI device.
- (1) Specify the P3-1 (P4-1) Track MIDI Channel for each Track.
- (2) Set Track (second row from bottom B key) to "MULT".
- (3) Set P0-2 and P0-4 Track REC/PLAY to "REC" for each Track you want to record. (Tracks you do not wish to record should be set to ", and Tracks you wish to play back should be set to "PLAY".)

- (4) Follow the procedure for Realtime Recording.
- If the amount of MIDI data on each channel is uneven, a memory full error may occur even though not all memory has been used up. In such cases, record without the largest track, and then re-record this track later.
- The following messages received at MIDI IN will be recorded; note on/off, pitch bend, program change, channel pressure, poly key pressure, and control change (0 101).
- ☆ Multi-track recording and Loop recording cannot be carried out together.
- During single track recording, "PLAY" is shown in the REC/PLAY display for tracks which contain playback data.
 When the REC/WRITE key is pressed, "REC" will be displayed for the selected tracks.

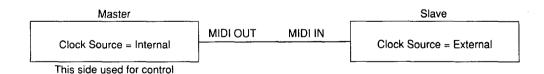
Synchronization with external MIDI devices

External rhythm machines or sequencers can be connected via MIDI to play back in synchronization with the $01/W_{pro}X \cdot 01/W_{pro}$.

Set the clock (timing) source of the master unit (the device operations controlling operations) to Internal (transmit MIDI clock messages), and the clock source for the slave unit (the device being controlled) to External (synchronize to incoming MIDI clock messages), and connect the master unit's MIDI OUT to the slave units's MIDI IN.

• Specify the clock source of the 01/WproX•01/Wpro in Global mode (P0-3). (The operating manual of your other unit will tell you how to set its clock source.)

- Start and stop operations must be executed on the master unit.
- If the slave side MIDI device is able to use Song Select or Song Position Pointer messages, selecting a song or measure on the 01/WproX•01/Wpro being used as a master device will make the External Clock device start from the same location of the same song. This is the same if the 01/WproX•01/Wpro is being used as a slave device as well.
- If a MIDI clock is supplied from an external device when the 01/WproX•01/Wpro is being used as a slave unit, start and stop operations can be carried out from either the MIDI device or the 01/WproX•01/Wpro, but this will be subject to the MIDI clock which is inputting the tempo.



Page-1 Track 1—8 Parameters

P1-1 Track Status P1-2 Track Protect P1-3 Transpose P1-4 Detune

SONG	i0 P1:	TRK P	ARA 1	-8 ≯ T	rack	Statu:	5
Trø	1 Tr	02 Tr0	3 Tr0	4 Tr0	5 Tr0	6 Tr0	7 Tr08
300 ON T+0 D+0		ON 12 T+0	ÖFF 10 T+0	OFF 0 T+0	OFF 0 T+0	OFF 0 T+0	OFF 0 T+00
Α	В	С	D	E	F	_G	н

P1-1 Status

A	Track 1	OFF INT EXT BOTH	Not played back Played back only internally Played back only from MIDI OUT Played back both internally and from MIDI OUT
	:	:	
H	Track 8		

- ▼You can specify whether no tracks will be played back (OFF), or if data will be played back only by the internal tone generators "INT", played back only from MIDI OUT "EXT", or played back by both (BOTH).
- If you have selected a track which is set to "EXT", playing the keyboard will not make the internal tone generator produce sound. If the selected track is set to "INT" or "OFF", playing the keyboard will not transmit data from MIDI OUT.

P1-2 Track Protect

A	Track 1	OFF/ON	Protect On/Off for each Track
	:	:	
H	Track 8		

- ▼If protect is turned On, changes cannot be made on that track, nor can the data be recorded or edited.
- * When this is set to ON, changes made in the Volume or other settings are not written to the Sequence memory, so pressing the RESET key will return the data to the original settings. When this is set to OFF, Volume and other setting changes will be rewritten in the data. Select ON if you want no changes to be made to your data.

P1-3 Transpose

A	Track 1	-24 +24	Transpose setting for each Track (chromatic)
:	:	•	
H	Track 8		

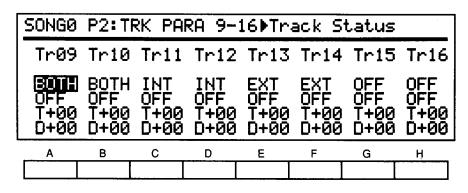
- ▼Each Track can be transposed in chromatic steps.
- This has no effect on the data transmitted from MIDI OUT.

P1-4 Detune

A	Track 1	-50 — +50	Detune setting for each Track (one-cent steps)
•		• • •	
H	Track 8		

- ▼This adjusts the pitch of each track in one-cent steps.
- This has no effect on the data transmitted from MIDI OUT.

Page-2 Track 9 — 16 Parameter



- **▼**Status, Protect, Transpose, and Detune settings for tracks 9 16.
- The details are the same as for Page-1 Track 1 8 Parameter.

Page-3 Track 1 — 8 Channel/Window

P3-1 MIDI Channel

P3-2 Velocity Window Top

P3-3 Velocity Window Bottom

P3-4 Key Window Top

P3-5 Key Window Bottom

SONG0	P3:C	P3:CH/WINDOW1-8 ▶MIDI Ch					
Tr01 316 127 001 G9 C-1	Tr02 02 127 001 C7 C2	Tr03 03 127 001 80 C-1	Tr04 04 127 001 B2 C1	Tr05 05 127 001 B4 C3	Tr06 06 127 001 B6 C5	Tr07 07 127 001 69 C7	Tr08 08 127 001 69 C4
Α	В	С	D	Ε	F	G	н

P3-1 MIDI Channel

A	Track 1	1 — 16	MIDI transmit channel for each track
:	:		
H	Track 8		

- ▼This determines the MIDI transmit channel (1 16) for each Track.
- If the channel is the same as the Global channel, a "G" will be displayed after the channel number.
- When the 01/WproX•01/Wpro keyboard is played, the track selected in P0-1 sounds, and other tracks assigned to the same MIDI channel will also sound. In addition, when P0-1 is "MULT", the tracks assigned to the same MIDI channel as the Global channel (a "G" is displayed) will sound.
- By assigning the same MIDI channel to Tracks for which different Programs are selected, you can play those Programs in unison.

Example:

Track 1	Data	ch: 3	Prog A10
Track 2	No data	ch: 3	Prog B30

As a result, Programs A10 and B30 will be played in unison. Prog A10 and B30 Layer

Track 1 data is used to combine programs A10 and B30 for playback.

 It is also possible to set two or more tracks to the same MIDI channel, and divide the musical data between the tracks; for example, placing note data in one track and control data in another track.

Example:

Track 1	Note data	ch: 1	Prog A15
Track 2	Control data	ch: 1	Prog OFF

 The MIDI channel selected here will be used for MIDI data output from tracks which have been assigned status of "EXT" or "BOTH".

P3-2 Velocity Window Top

A	Track 1	1 — 127	Upper limit of the velocity window	
:	:	:		
H	Track 8			

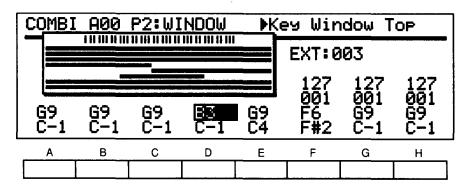
▼This determines the upper limit of the velocity that will play the Program assigned to each Track 1 — 8.

P3-3 Velocity Window Bottom

A	Track 1	1 — 127	Lower limit of the velocity window
:	:	:	
H	Track 8		

This determines the lower limit of the velocity that will play the Program assigned to each Track 1 - 8.

P3-4 Key Window Top



A	Track 1	C-1 — G9	Upper limit of the key window
:	:	•	
H	Track 8		

▼This determines the highest note of the key range that will play the Program assigned to each Track 1 — 8.

P3-5 Key Window Bottom

A	Track 1	C-1 — G9	Lower limit of the key window
:	:	•	
H	Track 8		

- ▼This determines the lowest note of the key range that will play the Program assigned to each Track 1 8.
- When recording, only the notes that fall inside the specified velocity window and key window will be recorded.
- By setting two or more Tracks to the same MIDI channel but different velocity and key windows, you can record and playback using velocity switched and/or key split sounds.
- When editing the key window, the display will show a graphic indication of the key window setting for each Track.
- To exit the display, move the cursor to a parameter other than key window.
- Key window settings can also be made using the keyboard.
 While pressing a key A H, press a key. When you release the key A H, the data will be entered.

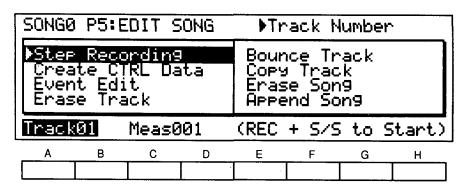
Page-4 Track 9 — 16 Channel/Window

ſ	SONG0	P4:CI	P4:CH/WINDOW9-16▶MIDI Ch					
	Ir09 127 001 69 C-1	Tr10 10 127 001 G9 C-1	Tr11 11 127 001 G9 C-1	Tr12 127 127 001 69 C-1	Tr13 13 127 001 69 C-1	Tr14 14 127 001 G9 C-1	Tr15 15 127 001 69 C-1	Tr16 16 127 001 G9 C-1
	Α	В	С	D	E	F	G	н

▼MIDI channel, velocity window, and key window settings for each track 9 — 16. Details are the same as for Page-3 Track 1 — 8 Channel/Window.

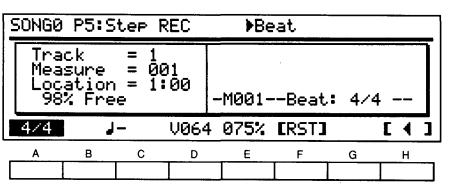
Page-5 Edit Song

P5-1 Step Recording



A	Track	1 — 16	The Track number to record
C	Measure	1 — 999	The measure at which to begin recording

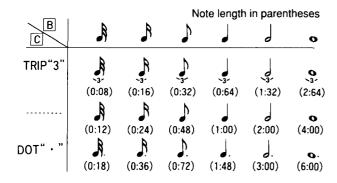
• Press the REC/WRITE key, and then press the START/STOP key to enter the step recording display.



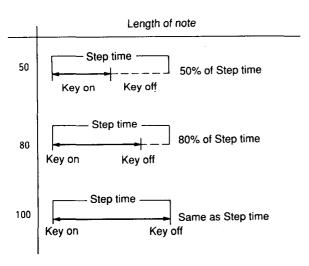
A	Beat		Display and set the time signature
		01/04 — 9/04 01/08 — 16/08	Low base resolution
		01/16 — 16/16	Low base resolution
		01/04 — 05/04	
		01/08 — 10/08 01/16 — 16/16	High base resolution
В	Step Time	3,3,0,0,0	Basic note length
		3	Triplet of note length specified by Step
C	Triplet/Dot	_	Note length specified by Step
		•	Dotted note of note length specified by Step
D	Key Dynamics	002 — 126, key	Note velocity (002 — 126), key input
E	Note length	1 — 100 [%]	Note duration
F		[RST]	Specify a rest
G		[TIE]	Specify a tie (only when a note has been input)
H		[◄]	Go back one step

Step recording

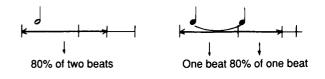
- Step recording allows you to enter notes one by one from the keyboard, specifying the length and velocity for each note. If you step record over a measure which already contains data, the old data in that measure will be lost.
- (1) Specify the track program, volume, pan, etc. for the song you will be recording (P0).
- (2) Specify the track (A) and starting measure (C) for recording.
- (3) Press REC/WRITE to make the indicator light, and then press START/STOP.
 - The upper left of the display will indicate the track measure number which is being recorded, the current beat of that measure, and the current "clock" in that beat. (0:01 corresponds to a 1/96th of a quarter note.)
- (4) Specify the beat (A).
 - If you have already finished recording other Tracks, the beat of the other Tracks will be displayed.
 - If you change the beat, the beat of other Tracks will also be changed.
- (5) Specify the type of note to be input, using step time (B) and triplet / dot (C). A triplet "3" changes the step time by 2/3, and a dot "." changes the step time by 3/2.



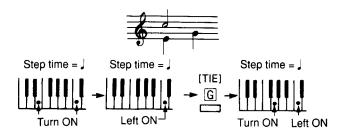
(6) Use note length (\boxed{E}) to adjust the length of the note specified by the step time (\boxed{B}) and triplet/dot (\boxed{C}).



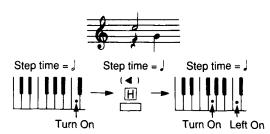
- (7) Use key dynamics (D) to specify the loudness of the note.
 - In step recording if Key Dynamics is set to "Key", the velocity of each note will be recorded just as you actually played it. However if Key Dynamics is set to "002—126", the actual played velocity of the note will be ignored and the velocity specified by the numeric values will be recorded.
- (8) Use the keyboard to enter a note. (To enter a chord, press that chord.) Regardless of the timing with which they were pressed, each note that is pressed until all notes are released will be recorded at the same step.
 - Pressing each note on the keyboard will display the key on position, pitch name, velocity and note length on the right hand side of the display.
- (9) When all notes are released, you will advance to the next step. Repeat steps (5) (8) as many times as necessary.
 - To enter a rest, specify the length of the rest and then press [RST] (F).
- (10) When you are finished recording, press "START/STOP" to exit step recording.
- When you press [RST] (F), the position will advance by the specified step time.
- When you press [TIE] (G), the note you entered in the previous step will be lengthened as specified in step (5).
- ☆ In order to enter a note that is longer than the setting specified in step (5). You can either change the step time or use a tie to lengthen the note. These two methods will result in different note durations, as follows.



☆ You can also enter a tie while you are pressing a key, and that note will be lengthened by the value of the step time. In this case, the time will apply only to the note you are holding, so you can give different note lengths to individual notes in a chord.

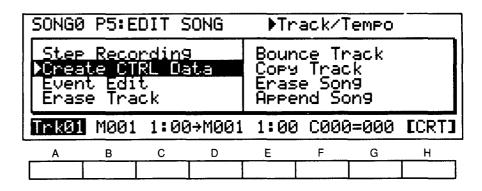


- Pressing [◄] (H) will move back one step as specified by in step (5). If any notes exist at or later than that position, they will be deleted.
- This function is useful when you make a mistake, and also allows you to shorten the step time and enter notes as follows.



☆ In step recording only notes can be entered, not control data. If necessary, you can record control data into another Track in realtime and then use the Bounce function (mix the two tracks), or insert control data using Event Edit or Create CNTL.

P5-2 Create Control Data

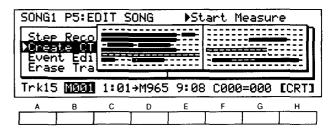


A	Track	Trk01 — Trk16, Tempo	The track you wish to modify
B M Start Measure		001 — 999	The measure from which to begin modifying, and the location in that measure
C	Start Location	1:00 — 9:95	
D M	End Measure	001 — 999	The measure at which to stop modifying, and the location in that measure
E	End Location	1:00 — 9:95	
F	Controller	BEND, AFTT, C000 — C102	The controller to be modified
G	End Value	ERA, -8192 — +8191 ERA, 40 — 240 ERA, 0 —127, C, C+D, D, ALL, PRG ERA, 0 — 127	The final value of the modified data (for bend) (for temp track) When Control No. $\boxed{F} = 10$ (Pan) (for other)
H		CRT	Create Control Data function is carried out

This operation inserts data which gradually modifies control data over the specified range.

- (1) Select the track (A) in which you wish to modify data.
- (2) Select the controller (F) you wish to modify. Refer to the table on page 126 when making a selection C000—C102.
- (3) Specify the measure (B) from which to begin modifying the data, and the location (C) in that measure.
- (4) Specify the measure (D) at which to stop the data, and the location (E) in that measure.
- (5) Specify the final value (G) (the resulting value) of the modified data.
- (6) Press [CRT] (H) to execute the Create operation.
- If you select "Tempo" as the Track, the controller display will be "=".
- If you specify "ERA" as the End Value, the specified controller data will be erased from the specified area of the specified track.
- When you move the cursor to the end value (G), the start value (the value of the start measure/location) and the end value will be displayed in the upper right of the display.
- The location will be displayed as quarter note beats in the measure and the number of clocks in that beat.

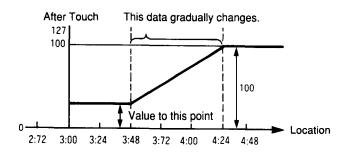
 The conditions of the tracks in the measure selected and the 16 measures which follow are shown in a graphic display.



The left half of the display shows tracks 1-8, and the right half shows tracks 9-16. The track farthest to the left is the measure which has currently been selected. As shown in the illustration above, measures which contain data will be indicated by a black bar "_____". The measure where the pattern is placed is indicated by _____.

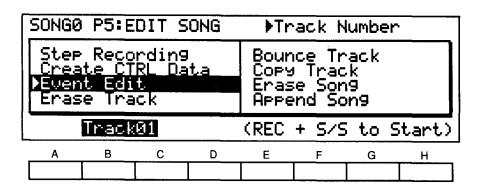
- Each clock corresponds to 1/96th of a quarter note. (One MIDI clock is equivalent to four clocks of the 01/WproX•01/Wpro.)
- When P9-7 Base Resolution has been set to "High", the location clock can be specified in individual steps. When it has been set to "Low", the location clock can be specified in steps of 2.

- It is not possible to set the end location before the start location.
 - e.x. The following example shows an arbitrary selected measure on a Track, where, $\boxed{C} = 3:48$, $\boxed{E} = 4:24$, $\boxed{F} = AFTT$ (Aftertouch), and $\boxed{G} = 100$.



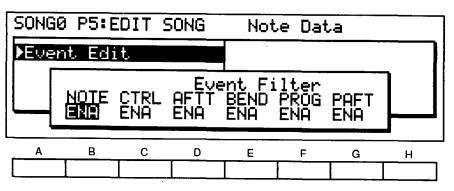
- * If any Pattern which has been put exists between the Start and End, the display will ask you if you wish to open the Pattern when you try to execute the Create operation. Selecting "Yes" will open the Pattern on the Track. If you select "No" or there is not enough memory space left
 - If you select "No" or there is not enough memory space left for Pattern opening, the control data will not be recorded into the measure.
- * Because a large amount of memory is used when making major value changes for a number of measures, a suitable amount of quantization will make this operation more manageable.
- * There are 11 Pan settings (from A to B) available in the 01/Wpro. Values 0-127 are enabled when controlling Pans for external devices via MIDI OUT, but this puts a large demand on the memory of the 01/WproX•01/Wpro. Because of this, these settings should be made during Real Time Recording or Event Edit operations.

P5-3 Event Edit



В	Track	1 — 16, Tempo	The track to be edited

* If you press the REC/WRITE key the following display will appear (the Event Filter display).



B NOTE	Note	DIS/ENA	Type of Event to display and edit
C CTRL	Control Change	DIS/ENA	(Events with a setting of DIS will not be displayed during edit).
D AFTT	After Touch	DIS/ENA	
E BEND	Bend	DIS/ENA	
F PROG	Program Change	DIS/ENA	• •
G PAFT	Poly After Touch	DIS/ENA	

* If you now press the START/STOP key, the following display will appear (the Edit display).

SONG	9 P5:	Track	(01	▶Me	easure		
1991 M001 M002 M002 M002 M002	#000 #001 #000 #001 #002 #003	1:00 === 1:00 1:00 1:00	BAR C#2 BAR F#3 G3	Beat: V064 Beat: V074 V098 V114	4/4 0:72 4/4 0:00 0:52 0:53		
А	В	С	D	E	F	G	Н

AM	Measure	001 — 999	The measure to be edited
B #	Index	000 —	Event index *1
C	Location	TIE, 1:00 — 9:95	Event timing within the measure
	Event		Type of event
		BAR	Bar line
		C-1 — G9	Note
D		BEND	Pitch bend
		AFTT	Channel aftertouch
		PROG	Program change
		CTRL	Control change
		PAFT	Poly aftertouch
		TEMPO	Tempo change (only tempo track)
E	Beat		(For bar lines)
_		1/4 — 9/4	
}		1/8 — 16/8	Low base resolution
		1/16 — 16/16	
		1/4 — 05/4	
		1/8 — 10/8	High base resolution
		1/16 16/16)
V	Velocity	2 — 126	(For notes)
	Bend	-8192 — 8191	(For pitch bend)
	After Touch	0 — 127	(For channel aftertouch)
	Program Bank	A, B, 2 — 127	(For program changes)
C	Controller No.	0 — 102	(For control changes)
	Poly After Touch Key	C- 1 — G9	(For poly aftertouch)
	Tempo	40 240	(For tempo changes) (only tempo track)
	Length	0:00 — 9:00, TIE	Note length (for notes)
F	Program Number	00 —127	(for program changes)
	Data Value	0—127, C, C+D, D,	(Control No. = 10 (Pan))
		ALL, PRG	
	Data	0 — 127	Control data (for control changes)
G		[INS]	Insert an event
H		[DEL]	Delete an event

^{*1} Two or more events in a single measure are numbered consecutively from the beginning of the measure. When you modify the location, its index will be renumbered automatically.

About Event Edit

A single step of musical data is called an "event". Event Edit allows you to modify, insert, or delete individual events from the data in a Track.

A note event consists of the note pitch (note number), loudness (velocity), and note length. For data other than notes, one MIDI type message is considered an event.

- ☆ Since event edit allows you to directly modify sequence data, careless editing can modify the data so that it can no longer be restored to its original state. Please use caution.
- (1) Specify the Track (B) to edit.
- (2) Press REC/WRITE to make the indicator light. The Event Filter setting will be displayed, so set the event types which you want to edit to "ENA". (Events set to "DIS" will not be displayed during editing.)

NOTE	Note data	
CNTL	Control change	
AFTT	Channel aftertouch	
BEND	Pitch bend	
PROG	Program change	
PAFT	Poly aftertouch	

When Tempo Track is selected, only tempo data will be displayed, regardless of the settings that have been made.

- (3) Press START/STOP and the event editing display will appear.
- * If you move to Event Edit after stopping a song during playback, you can select the beginning of the measure where playback was ended will be selected.
- (4) Use the cursor UP/DOWN keys or modify the value of the measure (A) and index (B) to select the event you wish to edit.
- (5) Select a parameter, and edit it.
- (6) When you have finished, press START/STOP to exit event editing.
 - The location is indicated by the beat number in the measure and the clock number in that beat.
 - One clock is 1/96th of a quarter note. (A MIDI clock corresponds to 4 clocks of the 01/WproX•01/Wpro.)
 - If the P9-7 Base Resolution has been set to "High", you will be able to modify the location clock in units of 1, but if this has been set to "Low", in units of 2. (When "Low" is selected, a quarter note is divided into 48 divisions.)

- ◆ For note events, D indicates the note name (pitch), E indicates the velocity (loudness), and F indicates the length (note duration).
- The velocity cannot be set to an odd numbered value.
- In event edit mode, notes will be sounded. (When you edit a note, it will be sounded with the current data.)

SONG	9 P5:	Trac	k 0 1	▶Iı	ndex		
M001 M001 M002 M002 M002 M002	#041 #042 #000 #001 #002 #003	4:00 4:00 1:00 1:00 2:00	C3 D3 BA3 C3 C3 B2	V064 V064 Beat: V064 V064 V064	0:72 0:72 4/4 0:72 0:72 0:72	CINSI	C DEL 3
A	В	С С	D	E	F	G	н

◆ For pitch bend and aftertouch, **E** indicates the data value.

SONGS	9 P5:	Traci	<01	Me	asur	·e	
M006 M006 M006 M006 M006 M006	#049 #050 #051 #052 #053 #054	1:00 1:00 1:00 1:00 1:00		-3281 -1367 +0000 +0696 +2816 +4663		CINSI	I EDEL 1
A	В	С	_ D	Ε	F	G	н

◆ For control change events, E indicates the control number and F indicates the data value.

SONGS	9 P5:	Tracl	(01	▶Me	easur	e	
M004 M004 M004 M004 M004 M004	#029 #030 #031 #032 #033 #034	1:87 1:90 1:95 2:02 2:05 2:08	CTRL CTRL CTRL CTRL CTRL CTRL CTRL	C002 C002 C001 C001 C001 C001	043 000 029 052 073 088	CINSI	COELI
Α	8	С	_ D	Ε	F	G	н

◆ For program changes, E indicates the bank, and F indicates the program number.

Control No.	Type of control	Value	Note
1	Pitch modulation	0 (off) — 127 (max)	Move the joystick in the direction of + Y (forward)
2	VDF modulation	0 (off) — 127 (max)	Move the joystick in the direction of $-Y$ (toward you).
7	Volume	0 (min) — 127 (max)	
10	Panpot	0 (A) — 127 (B), C, C+D,	0 — 127 refers to Pan settings from A to B
	-	D, ALL, PRG	
12	Effect 1 control	0 (min) — 127 (max)	Effect 1 dynamic modulation
13	Effect 2 control	0 (min) — 127 (max)	Effect 2 dynamic modulation
64	Damper switch	0 (off), 127 (on)	
91	Effect 1 switch	0 — 63 (OFF), 64 — 127 (ON)	Effect 1 on/off
92	Effect 2 switch	0 — 63 (off), 64 — 127 (ON)	Effect 2 on/off
102	VDF cutoff	0 (low) — 64 — 127 (high)	• A value of 64 will set VDF Cutoff to the edited
			value of the Program

- Control numbers not listed in this table indicate control change data that is recorded only from MIDI IN.
- Control number 102 is not received or transmitted via MIDI.
- ◆ For poly aftertouch events, E indicates the pitch name, and F indicates the value of the aftertouch.
- The 01/W_{pro}X•01/W_{pro} is not affected by the poly aftertouch function, which controls the poly affertouch of the external MIDI instruments.
- ◆ For bar line events, F indicates the time signature.
- When the time signature is edited, the time signature of other Tracks will automatically be changed.

SONG9 P5:	Track0)1 ▶B	eat		
M019 #004 M020 #000 M020 #001 M020 #002 M021 #000 M021 #001	1:18 0	CTRL C001 BAR Best: CTRL C001 CTRL C001 BAR Best: CTRL C001	001 015 15/16	[INS]	
A B	С	D E	F	G	н

◆ Measures which contain a Pattern will be displayed as follows. (These cannot be edited. To replace a pattern, use P6-8 Put/Copy Pattern.)

SONGS	50NG9 P5: Track03			ÞM∈	easure		
MØØ2 MØØ3 MØØ5 MØØ6 MØØ7	==Pat ==Pat	=== 00(H: 00(H: 00(H: 00(H:)==)==)==	Beat: Beat: Beat: Beat: Beat: Beat:	4/4 4/4 4/4 1/16 1/16 1/16		
Α	В	С	D	E	F	G	н

- Events can be moved to another measure by using the delete and insert functions.
- * Use the Tempo Track to edit the Tempo.
- * Track data set for the channel used as the Global channel determines the switches and controls used for Effects 1 and 2.
- * Values 0 127 correspond to the Pan settings from A to B as shown in the table below.

Event edit value	Pan setting on the 01/Wpro	Event edit value	Pan setting on the 01/Wpro
$ \begin{array}{r} 0 - 7 \\ 8 - 20 \\ 21 - 33 \\ 34 - 46 \\ 47 - 58 \end{array} $	A 9:1 8:2 7:3 6:4	72 — 84 85 — 97 98 — 110 111 — 122 123 — 127	4:6 3:7 2:8 1:9
59 — 71	5:5		

Editing an event

■ Dmodifies the note pitch or event type, and E and F modify the event data. (Refer to the table of event types.)

Moving an event

- Use C to move the event within that measure.
- If an event has been moved so as to change the order of events, the index B numbers within the measure will be renumbered.

Deleting an event

- Press [DEL] (H) to delete the event at the cursor.
- If you accidentally delete a note, press insert () before doing anything else, and the note will be restored. However if the note was tied, inserting it will not restore it to its original length.

Inserting an event

- Press [INS] (G) to create a new event at the location of the cursor. By modifying the location or editing the event, you can use this to insert any desired event.
- If you insert immediately after deleting, the deleted event will be inserted.
- ☆ It is also possible to insert events into a new Track. In this case, you must first use P6-7 Insert Measure to create blank measures.
- ☆ Notes which overlap bar lines are treated as two tied notes.

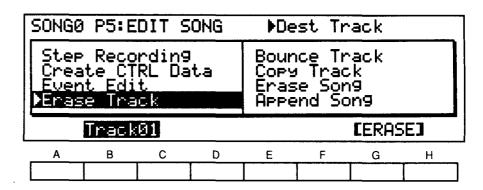
 To edit such notes, use the following procedure. (Refer to the diagram on the right.)
- (1) Edit the note number and velocity for note A. Note B will automatically be corrected.
- (2) To change the note length, edit note B.
- (3) To delete notes A+B, delete in the order of A, then B. If you delete only B, the length of A will extend to the end of the measure it is located in. (If you set the length of A to other than [TIE], note B will be given a location of 1:00.)

(4) To insert A+B, insert B at location 1:00, then insert A, and then set the note length to [TIE]. Set the note numbers and velocities of A and B to the same values.

SONGS	P5:	Trac	kØ4	▶Me	asure		
M003 M003 M003 M003 M004 M004	#000 #001 #002 #003 #000 #001	TIE 4:43 4:49 === TIE	BAR CA3 EAR C4	Beat: V090 V098 Beat:	4/4 TIE TIE TIE 4/4 3:30		(DEL)
Α	В	С	D	E	F	G	н

☆ If you make a mistake, press the COMPARE key before performing any other edit operation, and the data before editing will be restored.

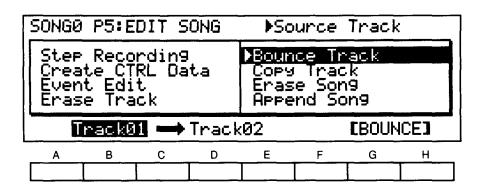
P5-4 Erase Track



В	Track	1 — 16	Specify the Track to be erased
G		[ERASE]	Execute the Erase operation

- This function erases all of the data in a Track from a Song.
- (1) Select the Track (B) to be erased.
- (2) Press [ERASE] (G) and the track will be erased.
- ☆ If you erase a track by mistake, you can press the COM-PARE key to restore the previous data before performing any other editing operation.
- * Use page P6-5 Erase Measure to erase part of the data from a Track.

P5-5 Bounce Track

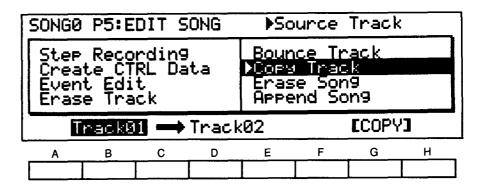


В	Source Track	1 — 16	Specify the track to be bounced
D	Dest Track	1 — 16	Specify the bounce destination track
G		[BOUNCE]	Execute the Bounce operation

This operation combines the data of two tracks into 1 track.

- (1) Select the source Track (B: the Track to combine) and the destination
 - Track (D: the Track into which to combine the data).
- (2) Press [BOUNCE] (G) and the data will be combined.
 - When the Bounce operation is completed, the data in the source track will be erased.
 - The settings of the destination Track will determine the value of track parameters such as Track program and MIDI channel. (If you bounce tracks with different program or MIDI channel settings, the program and MIDI channel settings will no longer be distinguished, and you will no longer be able to separate the data.)
- If both Tracks contain control change data etc., this bounce function can have unexpected effects. (You can use P6-5 Erase Measure to delete control change data.)
- ☆ If you bounce by mistake, press the COMPARE key to restore the previous data before editing again.
- * When bouncing a track in which a Pattern has been Put, the display will ask you if you wish to open the Patterns. Selecting "Yes" will open the Pattern on the track, and selecting "No" will bounce the track without opening the patterns.

P5-6 Copy Track

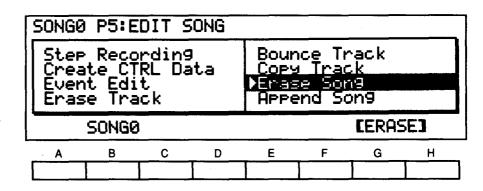


В	Source Track	1 — 16	The track to copy
D	Dest Track	1 — 16	The copy destination track
G		[COPY]	Execute the Copy operation

- This operation copies a Track to another Track.
- (1) Select the source Track (B: the Track to copy) and the destination Track (D: the Track into which the data will be copied).
- (2) Press [COPY] (G) and the data will be copied.

 ☆ If you copy by mistake, press the COMPARE key to restore the previous data before editing again.

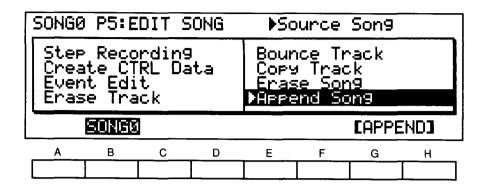
P5-7 Erase Song



	(DD 4 CE)	
<u>G</u>	[ERASE]	Erase the track
		L

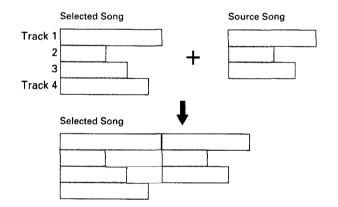
- ▼This function erases all data from the Song.
- Press [ERASE] (G) to erase the song. The song erased will be the one currently selected by P0-1.
- ☆If you erase by mistake, press the COMPARE key to restore the original data.
- * Selecting Erase Song will enable changes to be made in the Base Resolution (which is set using P9-7) for that song.

P5-8 Append Song



В	Source Song	0 — 9	Specify the source Song
G		[APPEND]	Execute the Append operation

■ This function appends the data from a specified Song to the end of the currently selected Song.

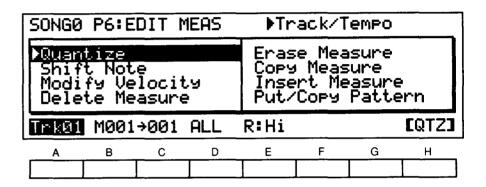


- Press (B) to select the song to append, and press [APPEND] (G) to execute the operation.
- The data of the Source song will not be affected.
- Track parameters of the currently selected song will be used.
- If the currently selected song has unnecessary blank space at the end, use P6-4 Delete Measure to delete it.
- ☆ If you append by mistake, press the COMPARE key to restore the previous data before editing again.
- * It is not possible to append songs which have a different Base Resolution.

Page-6 Edit Measure

When you specify the measures (the measures to be affected) for a measure editing function (P6-1 — P6-8), the condition of each Track will be displayed for 16 measures beginning with the specified measure. Please refer to P5-2 Create Control Data.

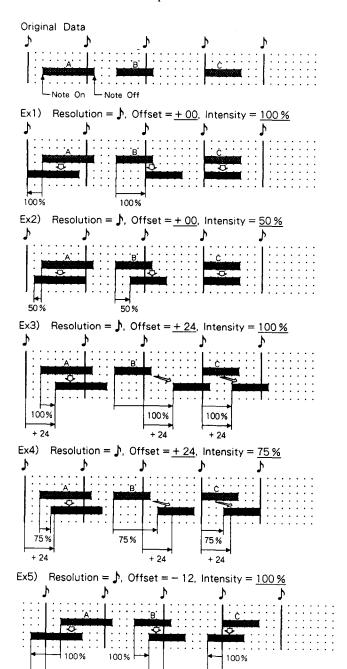
P6-1 Quantize



A Trk	Track	1 — 16, Tempo	Number of Track to be quantized
ВМ	Start Measure	1 — 999	First measure to be quantized
C	End Measure	1 — 999	Last measure to be quantized
D	Quantize Data	ALL NOTE CTRL AFTT BEND PROG	Type of data to be quantized All data Note On/Off (keyboard data) Control changes only (joystick Y, damper, etc.) Aftertouch only Pitch bend (joystick X) only Program changes only
ER	Resolution	Hi, A3, A, A3, A, A3, A, J	The quantization step
FO	Offset	-96 — +96	The amount of time skew
GI	Intensity	0 — 100	The percentage of accuracy (%)
H		[QTZ]	Execute quantization

- This operation corrects the timing of the data in the specified range to the nearest specified timing unit.
- (1) Specify the Track (A), first measure (B), and last measure (C) to be quantized.
- (2) Specify the data to be quantized (D). (This is not displayed when the Tempo Track is specified.)
- Selecting "AFTT" will quantize both Channel pressure and Poly aftertouch data. The 01/WproX•01/Wpro does not respond to Poly aftertouch events.

- (3) Specify the quantizing resolution (\boxed{E}), the offset (\boxed{F}), and the intensity (\boxed{G}) of the quantization.
 - For example if you specify a resolution of \downarrow , data will be corrected to the nearest quarter note.



- (4) Press [QTZ] (\overline{H}) to execute quantization.
- Note on position will be corrected, but note length will remain the same.
- ☆ If quantization moves two control change events of the same type onto the same location, they will be combined into a single event. This allows you to use quantization to thin out control data and save memory.
- For a quantize resolution of "Hi", the resolution will be the same as the Base Resolution of the song.
- Quantizing at a resolution of "Hi" will thin out control data while leaving the timing of note data unchanged.
- You can quantize program change data to thin out unnecessary program changes that were recorded in realtime recording.
- When specifying the Start Measure or End Measure, the graph display will indicate the conditions of each Track.
- ☆ If you quantize by mistake, press the COMPARE key to restore the previous data before editing again.

Applications: You can offset the data located after the Start Measure by the amount specified in Offset by setting the End Measure to "999", Resolution to "Hi", and Intensity to "100". This allows you to erase unnecessary notes which have been recorded by mistake. However, please note that careless operation may cause the data to be damaged.

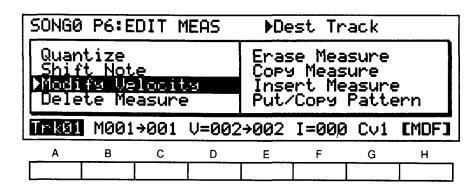
P6-2 Shift Note No.

SONGO P6:EDIT MEAS				▶De	st Tr	ack	
Quantize >Shift Note Modify Velocity Delete Measure			Copy Inse	e Meas Meas rt Me Copy	ure Pasure	e ern	
Trk02	M001) 001	C-1	+C-1	Shft	.=+00	[SFT]
A	В	Ç	D	E	F_	G	н

A Trk	Track	01 — 16	The track in which to shift notes
ВМ	Start Measure	001 — 999	The first measure for which to shift notes
C	End Measure	001 — 999	The last measure for which to shift notes
D	Note Range Bottom	C-1 — G9	The lowest note to be shifted
E	Note Range Top	C-1 — G9	The highest note to be shifted
G	Shift	-24 +24	The number of chromatic steps by which to shift
H		[SFT]	Execute the Shift Note operation

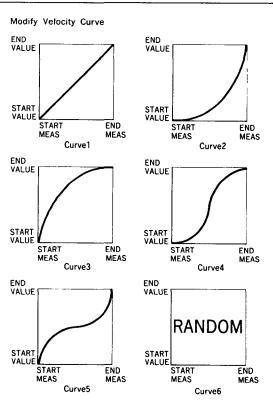
- This operation shifts (transposes) the note numbers in the specified area by the specified amount.
- (1) Specify the track (A), the first measure (B) and last measure (C), the lowest note (D) and the highest note (E).
- (2) Specify the number of chromatic steps by which the pitch will be shifted (G).
- (3) Press [SFT] (H) to execute the Shift Note operation.
- Shift specifies the transposition in chromatic steps, over a range of -2 +2 octaves.
- * If the specified range contains a Pattern which has been Put, the display will ask you if you wish to open the Pattern. Selecting "Yes" will open the Pattern, and a shift Note operation will be carried out on that data.

P6-3 Modify Velocity

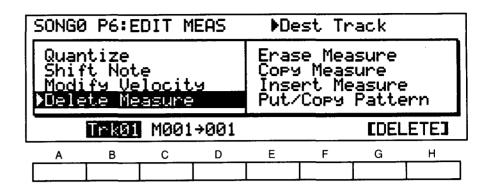


A Trk	Track	01 — 16	The track in which to modify velocity
ВМ	Start Measure	001 — 999	The first measure for which to modify velocity
C	End Measure	001 — 999	The last measure for which to modify velocity
Dν	Start Value	002 — 126	The initial velocity value
E	End Value	002 — 126	The last velocity value
FI	Intensity	000 — 100	The percentage (%) by which to modify the velocity
G Cv	Curve	1-6	The velocity curve
H		[MDF]	Execute the Modify Velocity operation

- This operation changes the time setting and modifies the velocity values in the specified area by the specified intensity following the specified curve.
- Specify the track (A), the first measure (B) and last measure (C), the velocity at the beginning of the range (D) and the velocity at the end of the range (E).
- (2) Specify how closely (F) the velocities will be modified toward the selected curve (G).
- (3) Press [MDF] to execute the Modify Velocity operation.
- When Intensity is 0, the velocity values will not change.
 When the Intensity is 100, the velocities will be changed to the specified curve.
- * If the specified range contains a Pattern which has been Put, the display will ask you if you wish to open the Pattern. Selecting "Yes" will open the Pattern, and a Modify Velocity operation will be carried out on that data.

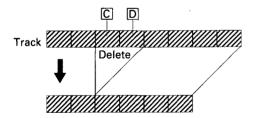


P6-4 Delete Measure



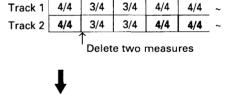
B Trk	Dest Track	1 — 16, ALL	The Track to be edited
C M	Dest Start Measure	001 — 999	The first measure to be deleted
D	Dest End Measure	001 — 999	The last measure to be deleted
G		[DELETE]	Execute the Delete operation

- This operation deletes measures from the specified area.
- (1) Specify the track (B), first measure to be deleted (C), and the last measure to be deleted (D).
- (2) Press [DELETE] (G) to delete the measures.
- For example if you set $\boxed{\mathbb{C}}$ to 3 and $\boxed{\mathbb{D}}$ to 4, the two measures 3 and 4 will be deleted. (Refer to the diagram below.)



- If Track has been set to "ALL", the specified measures will be deleted from all Tracks.

 Measures that follow the deleted measures will be moved forward. The measures moved forward in this way will have the same time signature as measures in other tracks.



Track 1 4/4 3/4 3/4 4/4 4/4

Track 2 4/4 3/4 3/4 4/4 4/4

Same time signature as Track 1

- When ALL is selected, the Tempo Track is also deleted.
 Because of this, the time signature settings for the deleted measures will also be moved forward accordingly.
- If a note overlaps the entire area being erased, it will be shortened by the deleted length.
- * If you specify the End Measure within the Pattern which has been put, the display will ask you if you wish to open the Pattern when executing the operation.

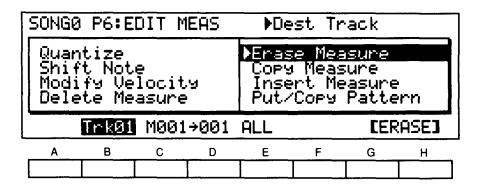
Selecting "Yes" will open the Pattern.

Selecting "No" will cancel the operation.

If you specify the Start Measure in the Pattern which has been Put, the measures starting from the Start Measure within the Pattern will not be played. This is the same as the operation to delete the corresponding measures.

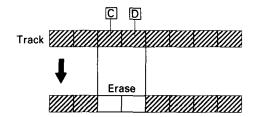
☆ If you delete by mistake, press the COMPARE key to restore the previous data before editing again.

P6-5 Erase Measure



B Trk	Track	1 — 16, ALL	The Track to be erased
C M	Start Measure	001 — 999	The first measure to be erased
D	End Measure	001 — 999	The last measure to be erased
			Type of data to be erased
		ALL	All data
		NOTE	Note on/off data (keyboard data)only
E	Erase Data	CTRL	Control changes (joystick Y, damper, etc.) only
		AFTT	Aftertouch only
		BEND	Pitch bend (joystick X) only
		PROG	Program changes only
G		[ERASE]	Execute the Erase operation

- This function erases the specified data from the specified area
- (1) Specify the track (\boxed{B}), the first measure (\boxed{C}), and the last measure that will be erased (\boxed{D}).
- (2) Specify the type of data to be erased.
- Selecting "AFTT" will erase both channel pressure and poly aftertouch data. The 01/WproX•01/Wpro is not affected by the poly aftertouch function. for more information on channel pressure and poly aftertouch.)
- (3) Press [ERASE] (G) to erase the data.
- For example if you set \boxed{C} to 3 and \boxed{D} to 4, the two measures 3 and 4 will be erased.



- If you specify "ALL" for Track, the specified measures will be erased from all tracks (including the tempo track).

- The Tempo Track can be erased by using event edit or create control data.
- If part of a note lies outside the specified range, only the portion within the range will be erased.
- ☆ If editing operations erase damper off or pitch bend (0 data) events, "stuck" damper pedal or pitch bend will result when the data is played back. In such cases you can either erase the corresponding damper on or pitch bend messages, or use the event edit function to correct the data.
- * If you specify the End Measure within the Pattern which has been put, the diplay will ask you if you wish to open the Pattern when executing the operation.

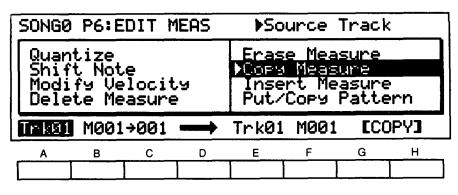
Selecting "Yes" will open the Pattern.

Selecting "No" will cancel the operation.

If you specify the Start Measure in the Pattern which has been Put, the measures starting from the Start Measure within the Pattern will not be played. This is the same as the operation to erase the corresponding measures.

☆ If you erase by mistake, press the COMPARE key to restore the previous data before editing again.

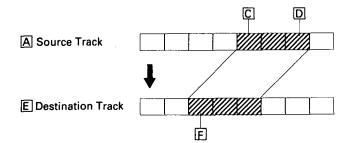
P6-6 Copy Measure



A Trk	Source Track	1 — 16, ALL	The Track containing the measures to copy
ВМ	Source Start Measure	1 — 999	The first measure to copy
C	Source End Measure	1 — 999	The last measure to copy
E Trk	Dest Track	1 — 16, ALL	The track into which the measures will be copied
F M	Dest Start Measure	1 — 999	The first measure of the copy destination
G		[COPY]	Execute the Copy operation

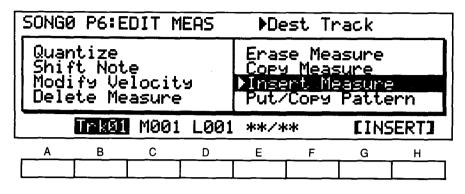
This operation copies the specified range of data inside a song.

- (1) Specify the copy source Track (A), the first measure (B), the last measure (C), the copy destination track number (E), and the first measure of the copy destination (F).
- (2) Press [COPY] (G) to copy the data.
- For example if you set B to 5, C to 7, and F to 3, measures 5 7 of the source track will be copied to measures three through five of the destination track.



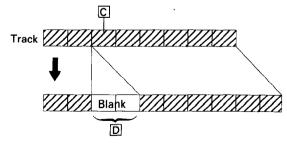
- The data in the copy destination measures will be lost.
- If you specify source measures which contain no data, blank measures will be copied.
- If data exists in tracks other than those from which you copied the measures, the time signature will be the same as that on the other tracks.
- If you have specified Tracks as "ALL", the same measures will be copied to all tracks (including the tempo track).
- * If the first measure to copy and the last measure of the copy destination includ Patterns which have been Put, the display will ask you if you wish to open the Patterns. Selecting "Yes" will open the Patterns, and selecting "No" will cancel the operation. If the last measure to copy includes a Pattern which has been put, copied measures will be played. If the first measure of the copy destination includes a Pattern which has been Put, the measures starting from the Dest Start Measure will be replaced with the copied measures. This is the same as when the measures are copied normally.
- ☆ If you copy by mistake, press the COMPARE key to restore the previous data before editing again.

P6-7 Insert Measure

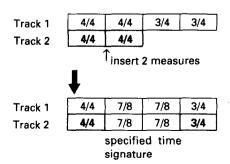


B Trk	Dest Track	1 — 16, ALL	The Track into which the measure will be inserted
C M	Dest Measure	001 — 999	The Measure position where the measure will be inserted
DL	Insert Measure Length	001 — 999	The length of the measure to be inserted
E	Beat	**/** 01/04 — 09/04 01/08 — 16/08 01/16 — 16/16 01/04 — 05/04 01/08 — 10/08 01/16 — 16/16	Time signature of measures to be inserted Time signature will not change Low base resolution High base resolution
G		[INSERT]	Insert the measures

- This operation inserts blank measures into the specified measure location.
- (1) Specify track (B), the measure to be inserted (C), the number of the measures to be inserted (D) and if necessary, the beat (E) of the measures to be inserted.
- (2) Press [INSERT] (G) to insert the measures.
- For example if you set C to 3 and D to 2, two measures will be inserted between measures 2 and 3.



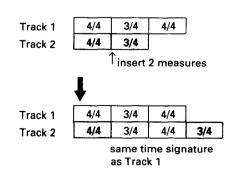
If BEAT: 07/08



- If the Track has been set to "ALL", the measures will be inserted into all tracks (including the tempo track) which contain data.
- A note which extends beyond the specified first measure will be divided into two notes.
- When beat (E) is set to **/**, the time signature of the inserted measures will match the time signature of the measures already existing in the other tracks. If any other beat is specified, the other tracks will be changed to the specified beat.

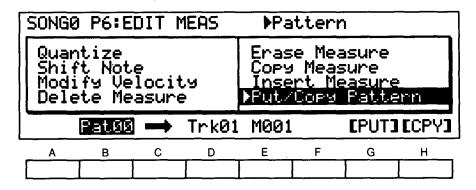
e.g. If measures are inserted into Track 2:

If BEAT: **/**



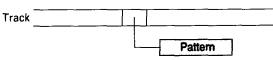
- * If you try to insert measures within the Pattern which has been Put, the display will ask you if you wish to open the Pattern. Selecting "Yes" will open the Pattern, and selecting "No" will cancel the operation.
- ☆ If you insert by mistake, press the COMPARE key to restore the previous data before editing again.

P6-8 Put/Copy Pattern

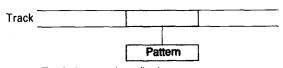


B Pat	Pattern	00 — 99	The Pattern to put/copy
D Trk	Dest Track	1 — 16	The Track into which the Pattern will be put/copied
E M	Dest Measure	1 — 999	The Measure into which the Pattern will be put/copied
G		[PUT]	Put the Pattern
H		[CPY]	Copy the Pattern

- Put Pattern: This operation puts (assigns) a Pattern into a specified measure of a Track. The Track will contain only a pattern number, not the actual data.
 - PUT PATTERN



- Uses less memory
- When the Pattern is modified, playback will be affected
- Copy Pattern: This operation copies musical data from the specified Pattern into the specified measure of a Track.
 - COPY FROM PATTERN



- Track data can be edited
- Playback will not be affected when you modify the Pattern
- (1) Specify the Pattern to put (B).
- (2) Specify the Track (D) and measure (E) into which the Pattern will be put or copied.
- (3) To put the Pattern, press [PUT] (G). To copy the Pattern, press [CPY] (H).
- When creating a new Track, first set the Track program etc. in PO REC/PLAY, and write the settings into memory.

- When this function is executed, the measure (E) will automatically move forward by the length of the Pattern.
- When you put/copy a Pattern into a measure, the data of that measure will be erased.
- If the destination Track contains musical data, the Pattern you put/copied will be played with the same time signature as the other Tracks.
- ☆ If the Base Resolution of the Song and Pattern are different, the Pattern data will be modified to the Song settings.
- ☆ When a Pattern is put into a measure, any control changes (other than volume) such as pitch bend which exist in that measure of the Track will be reset. In other words, if you want to apply pitch bend or damper to measures that were Put, you will have to write the data into the Pattern itself.
- ☆ If you put/copy by mistake, press the COMPARE key to restore the previous data before editing again.

Page-7 Edit Pattern

P7-1 Real Time Recording

SONG	SONGØ P7:PATTERN			▶Tempo			
Real Time Rec Step Recording Event Edit Pattern Parameter			Erase Pattern Get From Track Bounce Pattern Copy Pattern		````		
P00 J=144 M Q:HI			MM:	ON			
A	В	С	D	Ε	F	G	Н

A P	Pattern Number	00 — 99	The Pattern to record
B]=	Tempo	40 — 240, EXT	Tempo
См	Measure	00 — 99	Measure display
DQ:	Realtime Quantize	ні, № Ј	Precision to which time will be corrected
E MM:	Metronome	OFF/ON/REC	Turn the metronome Off/On
G	Add / Remove	[ADD] [RMV]	Add data Remove data
H		[ERA]	Erase data

- These settings allow you to record a Pattern in realtime.
- When creating a new Pattern or when you want to modify the beat or length of the Pattern, make settings in P7-4 Pattern Parameter.
- (1) Select the Pattern (A) to create. You may also select Patterns that were created by step recording, copy, etc.
- (2) Set the tempo (B), realtime quantize (D), and metronome On/Off/REC (E). These settings can also be modified after you start recording.
- (3) Press the REC/WRITE key to make the indicator light, and then press START/STOP to begin recording. In Pattern realtime recording, when the last measure of the Pattern ends, you will return to the first measure and recording will continue. The data of each pass will be added (overdubbed) to the previous data. (This is the same as when Loop Recording a song.) If you make a mistake, you can delete the incorrect data (see below).

- In Pattern realtime recording there are two ways to erase data.
- After starting the Pattern, press [ERA] ([H]), and all data existing over the time while the key is pressed will be erased.
- After starting, set Add/Remove (G) to "RMV". Press a key, and the data for that note will be removed while you continue pressing the note. While you apply an effect such as joystick or pitch bend, the data for that controller will be removed
- (4) Press START/STOP and recording will stop. To play the Pattern, start again without pressing REC/WRITE. To add data to the Pattern, repeat steps (3) (4).
- In Pattern realtime recording, tempo settings and operations will not be recorded. Use any tempo that is comfortable for recording.
- While creating a Pattern, the Program of the currently selected Track will sound. (When a Pattern is put into a Track, it will use the Program of that Track.)

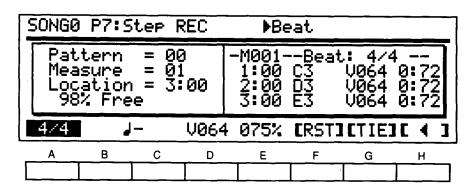
- ☆Control data such as joystick or pedal data can also be recorded in a Pattern. However, be careful to return the controllers to their normal position before the end of the Pattern, to avoid "stuck" controllers or pedals. Also, remember that overdubbing several passes of the same control change can result in unnatural effects.
- ☆ When recording with a high resolution, a note you intended for the beginning of the Pattern will sometimes be recorded at the very end of the pattern. In such cases, record using a lower resolution.

P7-2 Step Recording

SONGO P7: PATTERN			▶Pattern Number			nber	
Real Time Rec Step Recording Event Edit Pattern Parameter			Erase Pattern Get From Track Bounce Pattern Copy Pattern				
Pattern00			(REC	+ 5/9	to	Start)	
A	В	С	D	E	F	G	Н
	<u> </u>	L	<u> </u>	<u></u>			

В	Pattern	00 — 99	The Pattern number to create	

* Press the REC/WRITE key, and then press the START/ STOP key to select the Step Recording display.

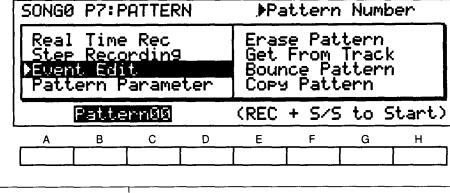


	Beat		Display and set the time signature
		1/4 — 9/4 1/8 — 16/8	Low base resolution
A		1/16 — 16/16	Low base resolution
		1/4 — 5/4	
		1/8 — 10/8	High base resolution
		1/16 — 16/16	
B	Step	1, 1, 1, 1, 0, 0	The basic note length
			Modification of the note length
C	Triplet / Dot	3	A triplet of note length specified by Step
	Implet / Bot		The note length specified by Step
		•	A dotted note of note length specified by Step
D	Key Dynamics	002 — 126, Key	Note velocity (002 — 126, key input)
E	Note Event Length	1 100 [%]	Note duration
F		[RST]	Enter a rest
G		[TIE]	Enter a tie (only when a note has been input)
H		[•]	Go back one step

- This is where you step record a Pattern.
- When creating a new Pattern or when you want to modify the time signature or length of the Pattern, make settings in P7-4 Pattern Parameter.
- (1) Specify the Pattern to record (B).
- (2) Press REC/WRITE to make the indicator light, and press START/STOP to begin step recording.
- (3) Follow the procedure explained in P5-1 Track Step Recording starting with step (4).
- In Pattern step recording, when the last measure of the Pattern ends, you will return to the first measure and

- recording will continue. The data of each pass will be added (overdubbed) to the previous data.
- [RST] (F) and [TIE] (G) can be used as explained in P5-1 Step Recording.
- When you press [◀] (H), you will move back one step as specified by the step time, and any data which existed in that step will be erased. (See P5-1 Step Recording.) However if you press a note while holding [◀], only the the note you pressed will be deleted.
- When creating a Pattern, the Program of the Track selected in P0-1 Track will be used.

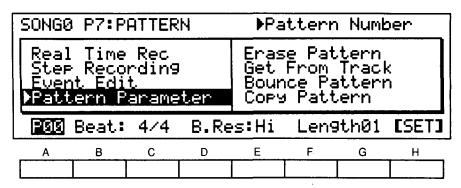
P7-3 Event Edit



В	Pattern	00 — 99	The Pattern to edit

- This function allows you to event edit a Pattern.
- (1) Select the Pattern to edit (B).
- (2) Press REC/WRITE to make the indicator light, and press START/STOP to begin event editing.
- (3) The remaining procedure is the same as explained in P5-3 Track Event Edit, starting with step (4).

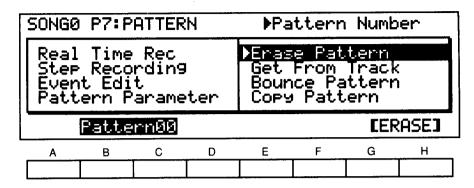
P7-4 Pattern Parameter



A P	Pattern Number	00 — 99	The Pattern to edit
	Pattern Beat		The time signature of the Pattern
В		1/4 — 9/4 1/8 — 16/8 1/16 — 16/16	Low base resolution
		1/4 — 5/4 1/8 — 10/8 1/16 — 16/16	High base resolution
D	Pattern Base Resolution	Low, Hi	The timing resolution of the Pattern data
F	Pattern Length	01 — 99	Length of Pattern (number of measures)
H		[SET]	Set the specified Pattern parameters

- These settings determine the time signature and length (number of measures) of each Pattern.
- (1) Specify the Pattern (A) whose parameters you want to edit, and set the beat (B), resolution (D), and length (F).
 - If the specified Pattern is already being used in a Track, the display will show the number of the Track in which that Pattern is used. (If you edit a Pattern which is being used in a Track, that Track may not play back correctly.)
- If the resolution is "Low", data will be recorded into the Pattern at a timing resolution of J/48. If the resolution is "Hi", a finer timing resolution of J/96 will be used, but fewer beat options will be available (specified in (B)).
- (2) Press [SET] (H) and the parameters will be set.
- ☆ If the Base Resolution of the Song and Pattern are different, the Pattern data will be modified to the Song settings.

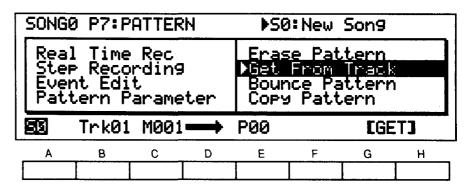
P7-5 Erase Pattern



В	Pattern Number	00 — 99	The Pattern to erase
G		[ERASE]	Erase the Pattern

- This operation erases a Pattern.
- (1) Specify the Pattern (B) to be erased.
 - If the specified Pattern is used in a Track, the display will show the number of the Track in which that Pattern is used.
- (2) Press [ERASE] (G] to erase the Pattern.
- ☆ If you erase a Pattern by mistake, press the COMPARE key to restore the previous data before editing again.

P7-6 Get From Track

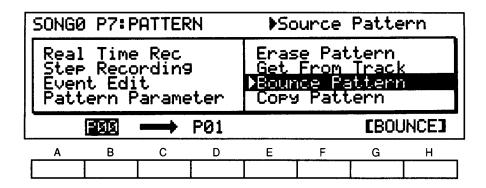


AS	Source Song	0 — 9	The song from which to get measures
B Trk	Source Track	1 — 16	The Track from which to get measures
C M	Source Measure	1 — 999	The first measure to get
E P	Pattern	0 — 99	The Pattern into which data will be placed
G		[GET]	Execute the Get Pattern operation

- This operation places data from a Track into a Pattern, allowing data recorded as a Track to be used in a Pattern. The number of measures that will be copied is determined by the length of the Pattern as specified in P7-4 Pattern Parameters.
- (1) Specify the Song (A), Track (B), and measure (C) of the data, and the Pattern (E) into which the data will be copied.
- (2) Press [GET] (G) to execute the operation.
- ☆ If you get a Pattern by mistake, press the COMPARE key to restore the previous data before editing again.
- If a note overlaps the specified range of measures, the tie will be deleted.

- The P7-4 Pattern Base Resolution and beat will be rewritten to the base resolution and beat of the song you get from.
- ☆ Editing operations not available for Patterns (such as quantize, create control data, etc.) can be performed by copying the Pattern data to an empty Track (P6-8), editing the data, and copying the data back to a Pattern.
- * If the specified range of measures contains a Pattern which has been put, the display will ask you if wish to open the Pattern. Selecting "Yes" will open the Pattern; and selecting "No" will cancel the operation.

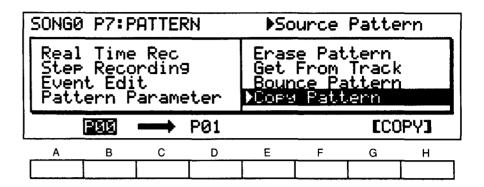
P7-7 Bounce Pattern



B P	Source Pattern	00 — 99	The source Pattern
D P	Dest Pattern	00 — 99	The destination Pattern
G		[BOUNCE]	Execute the Bounce operation

- This operation combines the data of two Patterns into one Pattern.
- (1) Specify the source Pattern (the Pattern to bounce, \boxed{B}) and the bounce destination Pattern (\boxed{D}).
- (2) Press [BOUNCE] (G) to execute the operation.
- The combined data of both patterns will be placed in the destination Pattern.
- The time signature and length of the destination Pattern will be used for the newly combined data.
- ☆If you Bounce by mistake, press the COMPARE key to restore the previous data before editing again.

P7-8 Copy Pattern



B P	Source Pattern	00 — 99	The source Pattern
D P	Dest Pattern	00 — 99	The destination Pattern
G		[COPY]	Execute the Copy operation

- This operation copies a Pattern to another Pattern.
- (1) Specify the source Pattern (the Pattern to copy, \boxed{B}) and the copy destination Pattern (\boxed{D}).
- (2) Press [COPY] (G) to copy the Pattern.
- The time signature, length, and base resolution of the resulting Pattern will be determined by the source Pattern.

☆ If you Copy by mistake, press the COMPARE key to restore the previous data before editing again.

Page-8 Effect

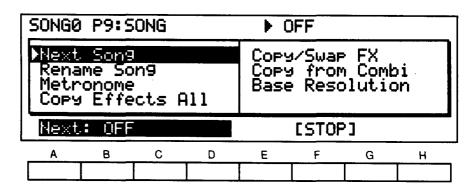
For details of the following parameters, please refer to "Effect Parameters" (p.49).

5	SONGØ P8:EFFECT								
	X1 (10:No	Effec No Ef	t. fect	OFF	Mod:h	IONE		I+00
F	FX2 00:No Effect No Effect [SERIAL] Out3 =			:OFF	Mod: N	ONE		I+00	
١ ـ		:	_110_61	Tecc					
	SER	RIAL_	<u>] Out</u>	.3 =	L	Out4	=	R	
	SEF	RIAL]	.3 = D	L .	Out4 F	= G	R	Н

- Pressing the Page+ key while a Song is playing will call up the Effect page, permitting you to edit any of the Effect parameters.
- * When you would like to use Sequencer playback data to control dynamic modulation, assign the Global channel to the channel used for the Track in which the modulation source data was recorded.
- If you wish to use effect settings from a Program or Combination, use the Copy Effect All operation (P9-4).

Page-9 Song

P9-1 Next Song



В	Next Song	OFF / 0 — 9	Specify the Song to be played next
F		[STOP] [PLAY]	Select the next Song and stop Continue playing the next song

- This function allows you to specify a Song to be selected (and played) when the currently selected Song ends.
- When Next Song is set to "OFF", playback will end when that song has been played back, but when set to "0 9", the specified song will be selected.
- When set to STOP, playback will stop at the beginning of the specified Song.
- When set to PLAY, playback will continue with the specified Song.
- ☆ When set to PLAY, there may be a slight delay when the Song is selected.
- When playback is stopped after the Next Song has been specified, pressing the Reset key will not switch playback to the specified Song. The playback will start again at the beginning of the Song that was interrupted.

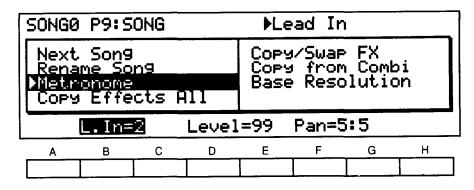
P9-2 Rename Somg



E	[INS]	Insert one character at the rename cursor position
F	[DEL]	Delete one character at the rename cursor position
G	[•]	Move the cursor left
H	[•]	Move the cursor right

- This operation rewrites the song name.
- Use [◄] (cursor key G) and [►] (cursor key H), [INS] (cursor key E), [DEL] (cursor key F), the VALUE slider, and the △ / ▽ keys to set the Song name.
- Each Song can be given a ten-character name.
- Pressing [INS] will insert one copy of the character at the cursor position to the right of the cursor position. Pressing [DEL] will delete the character at the cursor position.

P9-3 Metronome



В	Lead In	0 — 2	Number of measures for the lead-in (the number of measures until recording begins)
D	Metronome Level	00 — 99	Metronome volume
F	Metronome Panpot	A, 9:1 — 1:9, B, C, C+D, D, ALL	Panpot for the metronome sound

These settings determine how the metronome will sound for each Song.

- Lead In (B) specifies the number of measures which the metronome will countdown before recording begins when you start realtime recording; i.e, the number of measures before recording actually begins.
- The metronome volume (D) and panpot (F) can also be set. When "ALL" is selected, the sound will appear at all outputs A, B, C, and D.
- Using the metronome will decrease the simultaneous note capability of the 01/WproX•01/Wpro by one note.

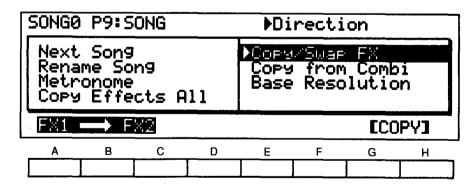
P9-4 Copy Effects All

SONG@	P9:9	ONG		▶So	urce	Mode	
Next Song Rename Song Metronome >Copy Effects All			Copy/Swap FX Copy from Combi Base Resolution				
from	[9	ONG		<u>- SI6</u>	1	ECC)PY]
A	В	С	D	E	F	G	Н

В	PROGRAM COMBINATION SONG	Copy from a Program Copy from a Combination Copy from a Song
E	A00 — B99 / C00 — D99	The Program from which to copy The Combination from which to copy The Song from which to copy
G	[COPY]	Execute the Copy operation

- This operation copies only the Effect parameters from a Program Combination or a Song.
- The data will be copied into the Song currently being edited.
- (1) Select the mode containing the memory whose Effect parameters you want to copy (B).
- (2) Select the number you want to copy. (When copying from a Song, select the Song number; when copying from a Program, select the Program number; when copying from a Combination, select the Combination number.)
- (3) Press [COPY] (G) to copy the effect parameters from the specified memory.

P9-5 Copy/Swap FX

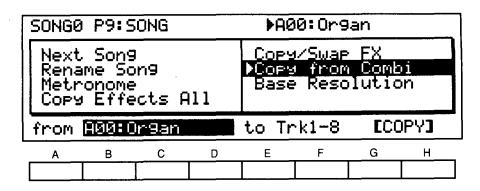


A	$FX1 \rightarrow FX2$ $FX1 \leftarrow FX2$ $FX1 \leftrightarrow FX2$	Copy FX1 \rightarrow FX2 Copy FX1 \leftarrow FX2 Exchange FX1 \leftrightarrow FX2
G	[COPY]	Execute the Copy/Swap operation

■ This operation copies/exchanges effect parameters between effects 1 and 2.

This operation is the same as the Copy/Swap FX for the EDIT PROGRAM and EDIT COMBINATION modes.

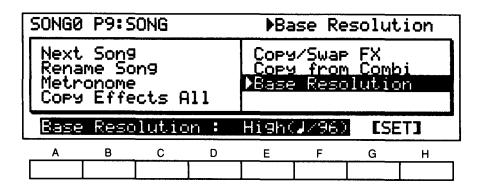
P9-6 Copy from Combination



B	Source Combination	A00 — B99 / C00 — D99	The Combination from which to copy
E	Destination Tracks	Trk 1 — 8, Trk 9 — 16	The copy destination Track
G		[COPY]	Execute the Copy operation

- This operation copies Timbre settings from the selected Combination to the song parameter data for tracks 1 8 or tracks 9 16.
- This operation will copy the settings for program, volume, transpose, detune, panpot, key window, velocity window, MIDI channel and Timbre mode (track status), and the effect parameter settings. Other song parameters will not be affected.
- Be aware that the way in which MIDI OUT etc. is handled differs somewhat between Combination mode and Sequencer mode.
- In order to use a Combination in the sequencer, you must use a Track for each Timbre (Program). If the MIDI channels match, the Programs will sound simultaneously. There is no need to copy the same data to the other tracks.
- (1) Select the Combination from which you want to copy the data (B).
- (2) Select the copy destination tracks (1 8 or 9 16) (\boxed{E}).
- (3) Press [COPY] (G) to execute the operation.

P9-7 Base Resolution



A	Base Resolution	Low, High	Specify the Base Resolution
G		[SET]	Set

- This function specifies the smallest unit of timing for musical data in a song.
- When "Low" is selected, recording and editing will use a timing resolution of 1/48th of a quarter note.
- When "High" is selected, recording and editing will use a timing resolution of 1/96th of a quarter note, but fewer options will be available for the time signature.

Beats for Base Resolutions

Base Resolution	Beat
Low	1/4 — 9/4 1/8 — 16/8 1/16 — 16/16
High	1/4 — 5/4 1/8 — 10/8 1/16 — 16/16

- When you set the realtime recording parameter P0-1 Realtime Quantize to "HI", or the resolution of P6-1 Quantize to "HI", quantization will be performed using the timing resolution you specify here.
- The location in P5-1 Step Recording, P5-2 Create Control Data, and P5-3 Event Edit will advance in steps of 2 if this setting is "Low", and in steps of 1 if this setting is "High".
- * Be aware that once you have recorded with this setting, it cannot be changed for the song unless you erase the entire song using the P5-7 operation.

7. GLOBAL MODE

In this mode you can make settings that affect the entire 01/WproX•01/Wpro (overall tuning, and MIDI-related settings), and assign drum sounds to a Drum Kit.

• With the exception of some MIDI-related parameters (clock source, local, note receive), settings made in this mode are memorized even when the power is turned off. It is not necessary to write these settings into memory.

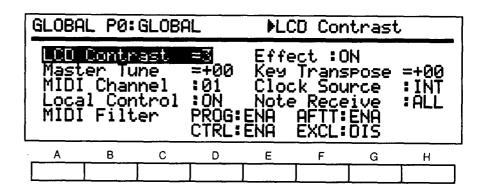
FUNCTIONS IN GLOBAL MODE

• Use the numeric keys and the PAGE+ and PAGE- keys to select the page containing the parameter you want to edit.

Page	Function	Parameters to set
P0 GLOBAL 1		·
	0-1 LCD Contrast, Effect ON/OFF	Adjust the contrast of the LCD, Effect switch ON/OFF
	0-2 Master Tune, Key Transpose	Overall pitch adjustment, overall transposition
	0-3 MIDI Channel, Clock Source	Specify MIDI global channel, MIDI clock
	0-4 Local, Note Receive	Local on/off, filter Note data (for connecting two units together)
	0-5 MIDI Filtering	Transmission / reception switches for Program Change, After Touch, Control Change, and System Exclusive MIDI messages
P1	Drum Kit 1	Assign drum sounds
P2	Drum Kit 2	Assign drum sounds
Р3	Scale Type / User Scale	Set the scale type and the user scale
P4 GLOBAL 2		
	4-1 Damper Switch Polarity	Specify the polarity of the damper footswitch
	4-2 Pedal 1 Assign	Specify the function of the assignable pedal 1
	4-3 Pedal 2 Assign	Specify the function of the assignable pedal 2
	4-4 Velocity Curve, Aft Touch Curve	Velocity curve and aftertouch curve settings
	4-5 Prog. Protect, Combi Protect, Seq. Protect	Memory protect (Program, Combination, Sequencer)
P5	Load Card	Load from PROG/SEQ card
P6	Save Card	Save to PROG/SEQ card
P7.	Preload	Load preload data
P8	MIDI Data Dump	Transmit various parameters and sequence data as MIDI exclusive messages

GLOBAL

Page-0 Global-1



P0-1 LCD Contrast

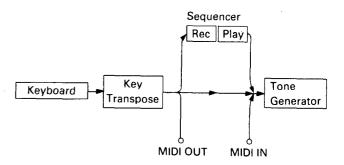
A	LCD Contrast	1 — 8	Adjust the contrast of the LCD
E	Effect SW	OFF, ON	Effect ON/Off switch

- ▼LCD Contrast adjusts the contrast of the display. A setting of 1 is the lightest, and 8 is the darkest.
- ▼When Effect SW (effect switch) is ON, all effects are enabled.

P0-2 Master Tune / Key Transpose

A	Master Tune	-50 — +50	Adjust the overall pitch of the 01/WproX•01/Wpro (steps of 1 cent)
E	Key Transpose	-12 +12	Transpose the overall pitch of the 01/WproX•01/Wpro (chromatic steps)

- * These parameters determine the pitch of the entire 01/ WproX•01/Wpro.
- ▼Master tune adjusts the tuning of the entire 01/WproX•01/ Wpro over a range of ±50 cents. Use this when tuning the 01/ WproX•01/Wpro to other instruments.
- The tuning selected on the 01/WproX•01/Wpro is not transmitted from MIDI OUT, but the MIDI RPN Master Tune setting can be output from an external device.
- ▼Key transpose adjusts the pitch of the entire 01/WproX•01/Wpro over a range of ±1 octave, in chromatic steps (-12 +12). This can be useful when you need to play songs of a difficult key signature in an easier key.
- This setting applies to the data that is recorded by the sequencer, and to the data that is transmitted from MIDI OUT. However, data played back by the sequencer will not be affected by this setting.



P0-3 MIDI Channel / Clock Source

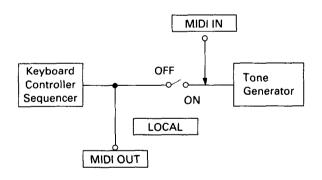
A	MIDI Channel	1 — 16	Select the channel on which the 01/WproX•01/Wpro will receive or transmit data (Global channel)
E	Clock Source	INT / EXT	Specify whether or not the sequencer will receive and transmit MIDI clock messages

- ▼MIDI channel determines the transmission and reception channel for musical data in Program mode, Combination changes in Combination mode, and for system exclusive data. (When the MIDI Filtering parameter "Prog" is set to "PRG", Combinations cannot be selected via MIDI). (This MIDI channel is called the Global channel, and it controls the entire 01/Wpro).
- Musical data in all timbres used in Combinations and in all Tracks used in Sequencer songs will be transmitted on the channels specified in Edit Combination mode and Sequencer mode.
- ▼If you want to receive MIDI clock data from an external sequencer etc. to determine the playback tempo, set Clock Source to "EXT". (The 01/W_{pro} internal tempo settings will have no effect.) Use this setting when synchronizing the 01/W_{pro}X•01/W_{pro} to an external device.
- If this is set to "INT", MIDI clock data will be transmitted from MIDI OUT while the 01/Wpro is in sequencer mode, allowing you to synchronize external devices to the 01/WproX•01/Wpro.
- If no MIDI device is connected to MIDI IN, be sure to set this to "INT".
- Start, stop, continue, song select, and song position messages will be received from external MIDI devices only if this is set to "EXT".
- When the power is turned on, this will be set to "INT".

P0-4 Local/Note Receive

A	Local Control	OFF/ON	MIDI local mode switch
E	Note Receive	EVEN, ODD, ALL	Note data filter

- ▼When local control is set "Off", the 01/Wpro's keyboard and controllers (joystick, aftertouch, etc.) will be disconnected from its tone generator. (However, MIDI data will still be transmitted and received.) Normally you will leave this set "ON".
- When local control is set "Off", the sequencer will transmit and receive only MIDI data.
- When the power is turned on, this will be "On".



- ▼Note Receive determines the data to be filtered. (EVEN: Notes with an even number will sound. ODD: Notes with an odd number will sound.) The data from MIDI OUT will not be filtered.
- When you have a MIDI connection between two 01/Wpro, this can be used to double the voice data being sounded.
 This is normally set to ALL.
- "ALL" is the default setting when the power comes on.

P0-5 MIDI Filtering

D PROG	Combination / Program Change	DIS, ENA, PRG, NUM	When set to "DIS", the specified type of MIDI data will neither be transmitted nor received.
FAFTT	After Touch	DIS, ENA	
D CTRL	Control Change	DIS, ENA	When set to "DIS", the specified type of MIDI data will
FEXCL	Exclusive	DIS, ENA	neither be transmitted nor received.

- * These parameters allow you to disable reception and transmission of specified types of MIDI data. (This is known as "filtering".)
- ☆ Data will be filtered when it is recorded by the sequencer, but not when it is played back.
- ▼If Combination / Program Change is set to "DIS", Combination (Program) changes will neither be transmitted nor received. If set to "ENA" in Combination mode, incoming program change messages on the Global channel will select Combinations. If set to "PRG", the Combination will not change, but Timbres of the matching channels in the Combination will change Programs. If set to "NUM", the basic operation is the same as for "ENA", except that only program change message are received and MIDI Bank Changes are ignored. (If "ENA" or "PRG" is selected, MIDI Bank Change will be received.) Refer to "Program Change Filtering" at the end of this manual.
- Select ENA if you want to use MIDI Program Change to change and then play Combinations.
- Use PRG if you want to use MIDI Program Change to change and then play a Program used in a Timbre of a single Combination. Select NUM if you do not want to change the Bank using MIDI Bank Change.

- ▼If Control Change is set to "DIS", control change messages (pitch bend, volume, joy stick, etc.) will neither be transmitted nor received.
- ▼If After Touch is set to "DIS", aftertouch data will not be received or transmitted.
- When you record data on the sequencer, you can save a considerable amount of memory by setting After Touch to "DIS" if is not needed.
- The 01/WproX, 01/Wpro only responds to Channel After Touch.
- ▼If Exclusive is set to "DIS", system exclusive messages for parameter changes or data dump operations will neither be transmitted nor received.
- ♦ System exclusive parameter changes are used by personal computer voice editing programs.

 When two 01/WproX•01/Wpros are connected via MIDI and Exclusive is set to "ENA", you can set one unit to MIDI IN and control it from the other unit (set to MIDI out), thus editing the voice data of both units.
- When the 01/WproX•01/Wpro is connected to a different type of MIDI device (ohter than 01/Wpro), set this to "DIS".

Page-1 Drum Kit 1

Page-1 Drum Kit 1

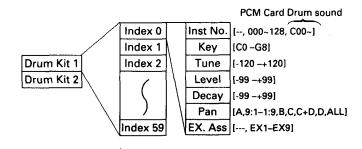
GLOB	AL P1	: DRUM	KIT F	91 ≯ S¢	cratch	nDbl		
#21 #23 #24 #24 #26	056 037 036 072 055	D5#4 D4 F554 F6F	+000 +000 +000 -059 -0995 +000	L+40 L+90 L+80 L+20 L+15 L+07	D+00 D+00 D+00 D-55 D-33 D-60	5:55 5:57 7:55 5:57 7:55	EX4 EX2 EX2 EX2	
A	В	С	D	E	F	G	Н	_

A #	Index	0 — 59	Index which assigns the drum sound you wish to edit
В	Inst	—, 000 — 128, C00 —	Select a drum sound
C	Inst Key	C0 — G8	Key assigned to drum sound
D	Inst Tune	-120 — + 120	Pitch adjustment of ± 1 octave
EL	Inst Level	-99 — +99	Level adjustment for each sound
F D	Inst Decay	_99 — +99	Decay time adjustment for each sound
G	Pan	A, 9:1—1:9, B, C, C+D, D, ALL	Output selection
H	Exclusive Assign	—, EX1 — EX9	Set exclusive assign group

- * This is where you edit the Drum Kit used as a sound source by a Program in Drum Kit mode. Each of the 4 Drum Kits can contain up to 60 different drum sounds.
 - There are two Drum Kits available in each bank, but when editing a kit in the Global mode, the drum kit must be from the bank selected for the Program in the Program mode. For example, when editing a drum kit from Bank B, first select a Program (one which uses the drum kit you want to edit) from Bank B in the Program mode, then move to the Global mode.
- When you play the keyboard in this page, the parameters of the Program selected in Program mode will be used.
- When the corresponding Program parameter is modified, the Volume etc. of the entire Drum Kit will be affected.

- Other Program parameters will also affect the entire Drum
Kit

In other words, if a Program with (for example) a slow attack has been selected, the drum kit will not sound correctly. If the drum sound is assigned to C, C+D, or D, and the Program mode setting Effect Pans 3 and 4 of the Program are turned off, you will not hear this sound from 1/L, 2/R, or the headphones.

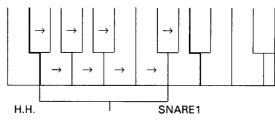


- ▼Index selects the drum index to edit. You can think of the Index as being a container in which a single drum is placed.
 - When the Index value is being changed and the cursor UP (DOWN) key is pressed while in the top (bottom) line, the screen will be scrolled.
- An index for which no drum sound is assigned will be indicated by "No Assign" in the upper right corner of the display.
- ☆ While pressing the cursor key A, press a key, and the Index assigned to that key will be selected.
- ▼Inst is where you select the drum sound used by that index. (The end of this manual contains a list of the drum sounds.)
- If an optional PCM card containing drum sounds has been inserted, card sounds can also be selected using the VALUE slider. When using the numeric keys, use the 10's HOLD/
 –key. (When playing Programs which use PCM card drum sounds, be sure that the appropriate card is inserted.)
- Select "No Assign" for each Index which you don't need to assign, and set Key (C) to an unused key.
- ▼Key determines the key (C0 G8) assigned to that index. (The note name for an octave setting of 8' will be displayed.)
- You will not be able to select keys which have already been assigned to another drum sound.
- You can assign a single drum sound to be played by more than one key.
- Keys which have not been assigned a drum sound will automatically be given the sound assigned to the next higher key. (However the pitch will change according to the scale.)
- You can also make key settings from the keyboard. While pressing cursor key C, press a key, and the selection will be input when you release the cursor key.

Page 2 Drum Kit 2

* Details are the same as for Page 1 Drum Kit 1.

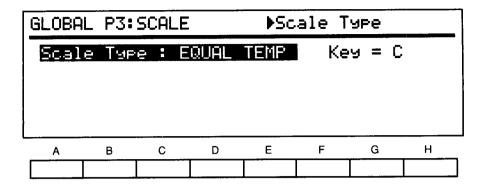
ex.



All keys will play the SNARE1 sound (the pitch will change)

- ▼Tune adjusts the pitch of an assigned key over a range of -120 +120 (in steps of 10 cents, ±1 octave).
- ▼Level is an adjustment relative to the oscillator level setting in program mode, over a range of -99 +99.
- ▼Decay is an adjustment relative to the VDA EG decay setting in Program mode, over a range of -99 +99.
- ∇ Pan specifies the output; A, A:B (9:1 1:9), B, C, C+D, D, ALL.
- ▼Exclusive Assign is used to assign sounds to one of 9 groups (EX1-9). If a sound in a group is played, other sounds with the same group number will cut off the sound of the current note being played (monophonic). This is useful for creating realistic hi-hat sounds; when you play the closed hi-hat sound, the open hi-hat sound stops playing (like on a real hi-hat). When this setting is ---, no group is assigned and no sounds will be cut off (polyphonic).

Page-3 Scale Type / User Scale



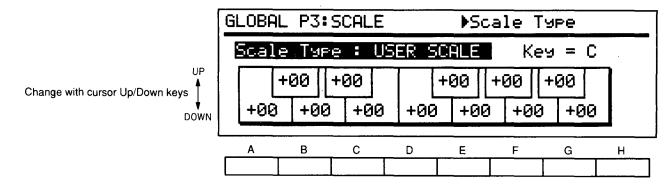
P3-1 Scale Type / Pure Key

	Scale Type	EQUAL TEMP	Equal temperament
		EQUAL TEMP 2	Each time a key is pressed, the pitch will be given a slight
			random deviation from equal temperament
A		PURE MAJOR	Pure major scale
		PURE MINOR	Pure minor scale
		USER SCALE	A scale with user-specified pitch for each note
G Key	Pure Key	C, C#, A#, B	The tonic used for pure temperament

- * This specifies the basic temperament used by the 01/W proX, 01/W pro.
- ▼EQUAL TEMP: This is the temperament most widely used by keyboard instruments. Pitch intervals are not affected by transposition.
- ▼EQUAL TEMP 2 (equal temperament with random pitch): This adds a slight amount of random pitch variation to equal temperament. It is useful when simulating instruments that have natural irregularity in pitch.
- ▼PURE MAJOR: Pure temperament is designed so that chords in a specific tonic are as harmonious as possible. You can specify a tonic of C B.

- **▼**PURE MINOR: Specify a tonic of C B.
- ▼USER SCALE: This allows you to adjust each of the 12 pitches in the equal tempered scale over a range of \pm 50 cents, to create your own original temperament. Specify the pitch of each key in P3-2 User Scale.
- * Pure Key settings are valid only when the Scale Type is "PURE MAJOR" or "PURE MINOR".

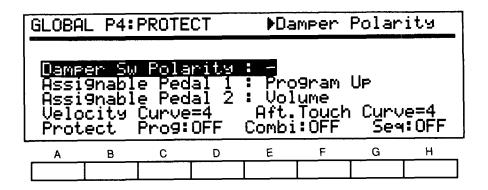
P3-2 User Scale



	DOWN	UP		
A	С	$C^{\sharp}(D^{\flat})$	-50 — +50	Pitch offset (in cents) for each note of the equal tempered scale
В	D		-50 — +50	Scarc
C	Е	$D^{\sharp}(E^{\flat})$	-50 — +50	
D	F		-50 — +50	
E	G	$F^{\sharp}(G^{\downarrow})$	-50 — +50	
F	A	$G^{\sharp}(A^{\flat})$	-50 — +50	
G	В	$A^{\sharp}(B^{\downarrow})$	-50 — +50	

- These settings determine the pitch of each scale degree when the Scale Type is set to "User Scale".
- Use the cursor UP/DOWN keys and the cursor keys (A H) to select the key to set.
- These settings for the 12 notes will be extended over the entire range (in each octave) of the 01/WproX•01/Wpro.

Page-4 GLOBAL-2



P4-1 Damper Switch Polarity

Damper Switch Polarity +, - Select the polarity of the footswitch connected to damper jack
--

- * The damper switch is used as a damper switch or hold pedal.
 While it is depressed, released notes will continue sustaining as though they had not been released.
- ▼Damper Polarity selects the polarity of the damper foot switch. When using types of footswitch such as the Korg PS-1, set this to "-". When using other types of footswitch , set this to "+".
- If a damper switch is not connected, set this to "-".

P4-2 Pedal 1 Assign

Pedal 1 Assign		The function assigned to Pedal 1
	OFF	Not used
	Program Up	A footswitch will increment the Program (Combination)
	Program Down	A footswitch will decrement the Program (Combination)
	SEQ Start/Stop	A footswitch will start/stop the sequencer
	SEQ Punch In/Out	A footswitch will punch in/out when recording
	Effect On/Off	A footswitch will turn Effect on/off
	Volume	A foot controller will regulate Volume
	VDF Cutoff	A foot controller will regulate VDF Cutoff
	Effect Control	A foot controller will regulate the dynamic modulation
		source of Effect
	Data Entry	A foot controller will function as a data entry control

- ▼These select the functions assigned to Pedal 1.
- Depending on the type of function that is selected, connect either a Footswitch (on/off type) or a Foot Controller (continuous type) to the Pedal 1/2 jack.
- The actual control range of the foot controller will be determined by various parameter settings for the function being controlled.
- * Program (Combination) Up: A footswitch will select the next Program (Combination). A program change message will be transmitted from MIDI OUT.
- * Program (Combination) Down: A footswitch will select the previous Program (Combination). A program change message will be transmitted from MIDI OUT.
- * SEQ Start/Stop: A footswitch will alternately start and stop the sequencer. Start/stop messages will be transmitted from MIDI out.
- * SEQ Punch In/Out: A footswitch will alternately enter Punch In record and Punch Out record during manual punch in recording.

- * Effect 1 On/Off: A footswitch will turn effect 1 on/off. The Effect 1 on/off setting is output via MIDI OUT.
- * Effect 2 On/Off: A footswitch will turn effect 2 on/off. The Effect 2 on/off setting is output via MIDI OUT.
- * Volume: A foot controller will control the volume of the 01/ WproX•01/Wpro. Volume change messages will be transmitted from MIDI OUT.
- * VDF Cutoff: A foot controller will regulate VDF cutoff frequency (tone). As you advance the pedal, the cutoff frequency will rise (the sound will become brighter).
- * Effect Control: Select this when you wish to use a foot controller to dynamically control an effect. Set the Dynamic Modulation Source of the effect to be controlled to "PEDAL 1". Effect Control I will be sent from MIDI OUT when you operate the Pedal 1. Using the same sort of settings and operations for Pedal 2, effect control 2 will be sent via MIDI OUT.

P4-3 Pedal 2 Assign

• Contents are the same as for P4-2 Pedal 1 Assign. This is used to select functions to be assigned to Pedal 2.

* Data Entry:

A foot controller will perform the same function as the front panel VALUE slider. During a performance, you can use the cursor keys to select the parameter you wish to modify, and then use the foot controller to control the value of the selected parameter.

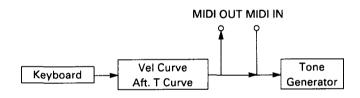
- ☆ Be sure to connect either a footswitch or a foot controller, as appropriate for the function you have assigned. If no pedal or footswitch is connected to the pedal jacks, assign them to either OFF, Program Up, Program Down, or Effect ON/OFF.
- ♦ Footswitches must be of the type, such as the Korg PS-
- ♦ Please use a Korg EXP-2 foot controller for continuous pedal functions.

P4-4 Vel / Aft.T Curve

A	Velocity Curve	1 — 8	Select the velocity curve; i.e., the way in which key velocity (how hard you play a note) will affect volume or tone.
E	After Touch Curve	1 — 8	Select the aftertouch curve; i.e., the way in which aftertouch (how hard you press down after playing a note) will affect volume or tone.

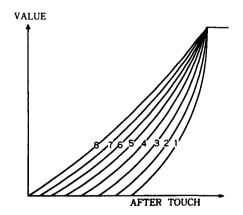
- ▼Velocity Curve allows you to select one of 8 curves to determine how key velocity will affect volume or tone.
 - VALUE 8 5 5 1

- The velocity / aftertouch curves specified here will apply to the data transmitted from MIDI OUT, but will have no effect on the data received from MIDI IN.



▼After Touch Curve allows you to select one of 8 curves to determine how aftertouch will affect volume or tone.

VELOCITY



P4-5 Program Memory Protect / Combination Memory Protect / Sequencer Memory Protect

C	Program Memory Protect	OFF/ON	Memory protect for Program parameters in internal memory
E	Combination Memory Protect	OFF/ON	Memory protect for Combination parameters in internal memory
G	Sequencer Memory Protect	OFF/ON	Memory protect for internal Sequence data

- ▼When Program Memory Protect is set "ON", it will not be possible to write Program parameters into Banks A and B in the internal memory.
- ▼When Combination Memory Protect is set "ON", it will not be possible to write Combination parameters into Banks A and B in the internal memory.
- ▼When Sequencer Memory Protect is set "ON", it will not be possible to write data into sequencer memory.
- * There is a protect switch on each RAM card, allowing you to prevent data from being accidentally overwritten.

Program Card loading and saving

When you use a new card, first save the data for each bank onto the card in one of P6-1-2. This operation will format the card for each bank, and will allow you to load data (in P5-1-7), and read and write Programs and Combinations in the Program mode and Combination mode.

These functions load and save data on a PROG/SEQ (ROM/RAM) card.

• The following groups of parameters can be Loaded (into internal memory).

100 Combinations / 100 Programs / 2 Drum Kits / Global parameters (P5-1)

All sequence data (P5-2)

1 Combination (P5-3)

1 Program (P5-4)

1 Drum Kit (P5-5)

1 Song (P5-6)

1 Pattern (P5-7)

• The following groups of parameters can be Saved (written into a card).

100 Combinations / 100 Programs / 2 Drum Kits / Global parameters (P6-1)

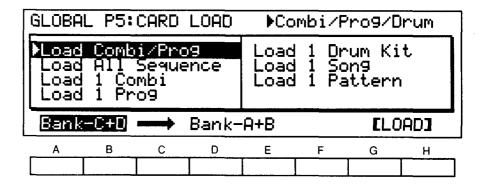
All sequence data (P6-2)

- On the 01/WproX•01/Wpro, it is not possible to save Sequence data on a RAM card unless the sequence data memory is 86% or more free. If sequence data memory is less than 86% free, save the data to disk.
- ☆ Use a Korg "SRC-512" Memory Card RAM (512K Bits).

 Korg cannot be responsible for the reliability or quality of any other brand of SRAM or ROM cards.
- Loading data into internal memory will overwrite the data previously in internal memory.
- Saving data into a card will overwrite the data previously in the specified bank of that card.
- It is not possible to load if Memory Protect is turned On.
 (Turn off memory protect in Global mode.) Turn on memory protect with the card protect switch.
- For details, refer to "How memory is organized" at the end of this manual.
- * On a PROG/SEQ card, one bank can accommodate 256 Kbits of data. Therefore, a card with a capacity of 512 Kbits (such as a RAM card) contains Bank C and Bank D.
- ☆ The PROG/SEQ cards for the 01/W series is compatible with other models to enable the exchange of all types of data. However, there is some difference in the operation of certain Global parameters.

Page-5 Card Load

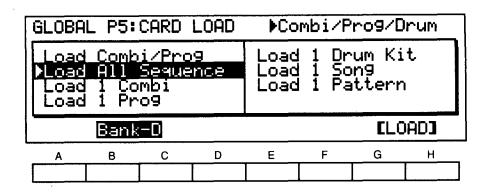
P5-1 Card Load All Combi / Prog / Drums / Global



A	Source Card Bank	C+D, C, D	Specify the bank to load
D	Destination Bank	A+B, A, B	Specify the bank to which data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads 100 Combinations, 100 Programs, 2 Drum kits, and Global parameters from the specified bank of a ROM/RAM card into internal memory.
- (1) Specify the Bank (A) of the card from which you will load the data.
- (2) Specify the load destination (D).
 Data for two banks is loaded at one time when you select C + D as the loading bank and A + B as the load destination bank. (Both banks C and D must contain Program/Combination data.) In this situation, data from bank C is loaded to A, and data from bank D is loaded to B.
- (3) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES] (E). To quit without loading press [NO] (G).
- ☆ Because Global settings are maintained in Bank A on the 01/Wpro, when data is loaded to Bank A, the Global settings will be changed to the values which have been saved from the card. The LCD contrast and memory protect status will remain unchanged. Also, when data is loaded from the 01R/W or other 01/W series models, there will be some difference in the following operations: Key Transpose, Velocity Curve, Aftertouch Curve.
- After loading, the Program banks within a Combination will be changed from C and D (card) to A and B (internal memory). When loading from Bank C to A or from Bank D to B, the Program bank within the Combination will also change from C to A or from D to B. When loading is done from C to B or from D to A, the Program bank will likewise change from C to B or from D to A.

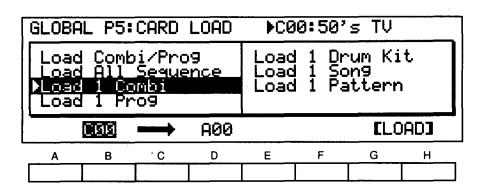
P5-2 Card Load All Sequence



A	Card Bank	C, D	Specify the bank to load
G		[LOAD]	Execute loading

- ▼This operation loads all sequence data from the specified bank of a ROM/RAM card into internal sequence memory.
- (1) Specify the Bank (A) of the card from which you will load the data.
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES] (E). To quit without loading press [NO] (G).
- * After loading, the Program bank for each Track will be changed, from C to A, and from D to B. Use P5-5 to load a Drum Kit at the same time.

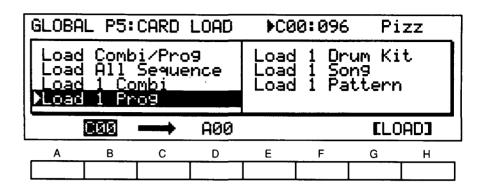
P5-3 Card Load 1 Combination



A	Card Combination	C00 — D99	Specify the Combination to be loaded from the card
D	Internal Combination	A00 — B99	Specify the internal memory into which the Combination will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Combination from a card.
- You will need to use the P5-4 Card Load 1 Program operation to load each Program used by the card Combination.
- (1) Specify, the Combination on the card (A) and the loading destination of the Combination (D). The combination name will be displayed in the upper right position.
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES] (E). To quit without loading press [NO] (G).
- * After loading, the Program bank for each Timbre will be changed, from C to A, and from D to B.

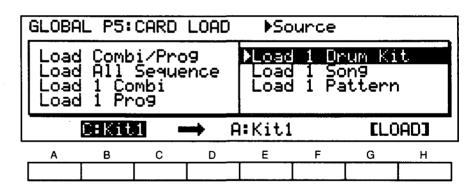
P5-4 Card Load 1 Program



A	Card Program	C00 — D99	Specify the Program to be loaded from card
D	Internal Program	A00 — B99	Specify the internal memory into which the Program will be loaded
G		[LOAD]	Execute loading

- ▼This function loads a Program from a card.
- (1) Specify the Drum Kit ($\boxed{\mathbf{A}}$) on the card and the loading destination of the Program ($\boxed{\mathbf{D}}$).
- (2) Press [LOAD] (), and the display will ask whether you are sure you want to load. To load the data press [YES] (E). To quit without loading press [NO] ().
- * After loading a Drum program, the Drum Kit used will be changed to one from the bank at the load destination.

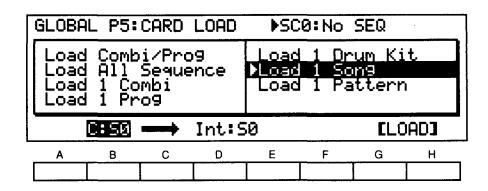
P5-5 Card Load 1 Drum Kit



A	Card Drum Kit	C:Kit1 — D:Kit2	Specify the Drum Kit to be loaded from card
D	Int Drum Kit	A:Kit1 — B:Kit2	Specify the internal memory into which the Drum Kit will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Drum Kit from a card.
- (1) Specify the Drum Kit (A) ON the card and the loading destination Drum Kit (D).
- (2) Press [LOAD] (), and the display will ask whether you are sure you want to load. To load the data press [YES] (E). To quit without loading press [NO] ().

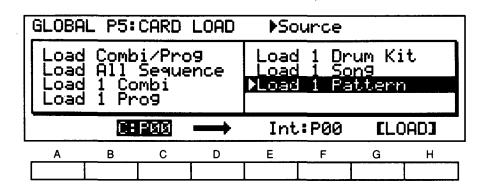
P5-6 Card Load 1 Song



A	Card Song	C:S0 — D:S9	Specify the Song to be loaded from the card
D	Internal Song	Int:S0 — Int:S9	Specify the internal memory into which the Song will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Song from a card.
- (1) Specify the Song (A) on the card and the loading destination of the Song (D).
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).
- * After loading, the Program bank for each Track will be changed, from C to A, and from D to B.

P5-7 Card Load 1 Pattern

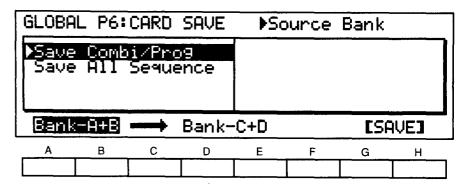


A	Card Pattern	C:P00 — D:P99	Specify the Pattern to be loaded from the card
E	Internal Pattern	Int:P00 — Int:P99	Specify the internal memory into which the Pattern will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Pattern from a card.
- (1) Specify the Pattern (\boxed{A}) on the card and the loading destination of the Pattern (\boxed{E}).
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).

Page-6 Card Save

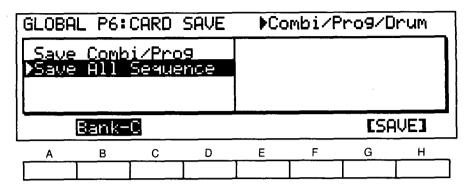
P6-1 Card Save All Combi / Prog / Drums / Glob



A	Source Bank	A + B, A, B	Specify the bank from which the data will be saved
D	Dest Card Bank	C + D, C, D	Specify the bank into which the data will be saved
G		[SAVE]	Execute saving

- ▼This operation saves (writes) internal memory data (100 Combinations, 100 Programs, 2 Drum Kits, Global parameters) to a RAM card.
- The protect switch located on the upper part of the card must be set to "OFF".
- (1) Specify the Bank (A) from which the data will be saved.
- (2) Specify the Bank (\boxed{D}) into which the data will be saved.
- (3) Press [SAVE] (), and the display will ask whether you are sure you want to save. To save the data press [YES] (). To quit without saving press [NO] (). Data for two banks is saved at one time when you select A + B as the loading bank and C + D as the bank to which the data will be saved. Data from bank A will be saved in bank C, and data from bank B will be saved in bank D.
- When you execute saving to a card, the card will automatically be formatted. Set the protect switch "ON" for cards containing important data that you do not want to erase accidentally.
- ☆ After saving, the Program banks within a Combination will be changed from A and B (internal memory) to C and D (card). When saving from Bank A to C or from Bank B to D, the Program bank within the Combination will also change from A to C or from B to D. When saving is done from B to C or from A to D, the Program bank will likewise change from B to C or from A to D.

P6-2 Card Save All Sequence Data

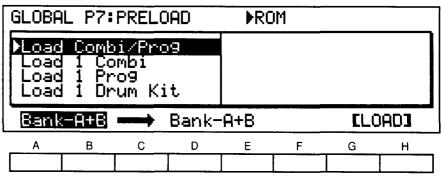


A	Card Bank	C,D	Specify the bank into which the data will be saved
G		[SAVE]	Execute saving

- ▼This operation saves (writes) internal sequence data (10 Songs, 100 patterns) to a RAM card.
- The protect switch located on the upper part of the card must be set to "OFF".
- (1) Specify the Bank (A) into which the data will be saved.
- (2) Press [SAVE] (), and the display will ask whether you are sure you want to save. To save the data press [YES] (). To quit without saving press [NO] ().
- * It is not possible to save All Data or Sequence data on a RAM card unless the sequence data memory is 86% or more free. If sequence data memory is less than 86% free, save the data to disk. (This is because a RAM card has a capacity of 7,000 steps of sequence data, but the 01/WproX, 01/Wpro sequence memory has a capacity of 48,000 steps.)
- ☆ Sequence data which has been saved to a card can be played but it cannot be edited or recorded. Load sequence data from the card (P5-2) before carrying out these operations.
- * After saving, the Program bank for each Track will be changed, from A to C, and from B to D.

Page-7 Preload

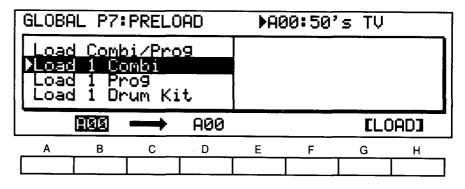
P7-1 Load All Combi/Prog/Drums/Global



A	Source Bank	A+B, A, B	Specify the bank to be loaded
D	Destination Bank	A+B, A, B	Specify the bank to which data will be loaded
G		[LOAD]	Execute loading

- ▼The 01/Wpro contains all of the factory pre-load data including Combinations, Programs, Drum Kits and Global settings in its built-in system ROM. This operation loads the factory pre-load banks of 100 Combinations, 100 Programs, 2 Drum Kits, and the Global parameters from the system ROM into internal memory.
- (1) Specify the Bank (A) from which the data will be loaded.
- (2) Specify the Bank (D) to which the data will be loaded.
- When "A+B" has been selected as the Bank to be loaded or as the load destination, data from banks will be loaded in one operation.
- ☆ When data is loaded to Bank A, the Global preload settings will be changed according to the values in the new data. The LCD contrast and memory protect status will remain unchanged.
- (3) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).

P7-2 Load 1 Combination



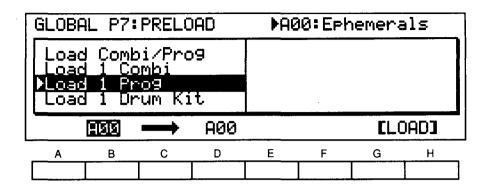
A	ROM Combination	A00 — B99	Specify the ROM combination to be loaded
D	Internal Combination	A00 — B99	Specify the internal memory combination to which data will be loaded
G		[LOAD]	Execute loading

This operation loads a Combination from a card to a number specified in the internal memory.

You will need to use the 7-3 Load 1 Program operation to load each Program used by the ROM Combination.

- (1) Specify the ROM Combination (A) and the loading destination Combination (D).
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).

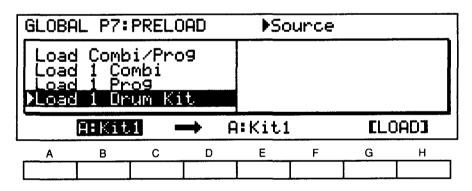
P7-3 Load 1 Program



A	ROM Program	A00 — B99	Specify the ROM program to be loaded
D	Internal Program	A00 B99	Specify the internal memory program to which data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Program to a number specified in the internal memory.
- (1) Specify the ROM Program (\boxed{A}) and the loading destination Program (\boxed{D}).
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).

P7-4 Load 1 Drum Kit



A	ROM Drum Kit	A:Kit1 — B:Kit2	Specify the ROM Drum Kit to be loaded
D	Int Drum Kit	A:Kit1 — B:Kit 2	Specify the internal memory Drum Kit to which data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads a Drum Kit to a number specified in the internal memory.
- (1) Specify the ROM Drum Kit (\boxed{A}) and the loading destination Drum Kit (\boxed{D}).
- (2) Press [LOAD] (G), and the display will ask whether you are sure you want to load. To load the data press [YES](E). To quit without loading press [NO] (G).

MIDI Data Dump

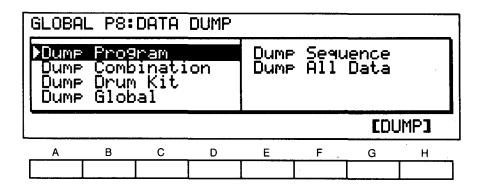
The 01/W_{pro}X•01/W_{pro} can transmit parameter and sequence data from its internal memory to another 01/W series unit connected via MIDI.

- When this page is selected, MIDI data dumps can be transmitted and received regardless of the MIDI Filtering Exclusive setting in Global mode P0-5.
- To receive data, be sure that memory protect is turned "OFF", and that the global MIDI channels of the transmitting and receiving devices match. No other operations are necessary.
- ☆ MIDI Exclusive data for the 01/W series is compatible with other models to enable the exchange of all types of data. However, there is some difference in the operation of certain Global parameters.
- By using a MIDI device that is able to save exclusive data, you can store voice data and sequence data in an external device.
- For details of the exclusive message data format, refer to the end of this manual.

Data type	Length of message	Time required for transmission
Programs (200)	approx. 39 Kbytes	approx. 13 seconds
Combinations (200)	approx. 29 Kbytes	approx. 10 seconds
Drum Kit data (4)	approx. 2 Kbytes	approx. 1 second
Global data	31 bytes	less than 1 second
Sequence data	4 K — 223 Kbytes	1 — 72 seconds
Combination / Program / Drum Kit / Global / Sequence	74 Kbytes — 294 Kbytes	24 — 94 seconds

Page-8 Data Dump

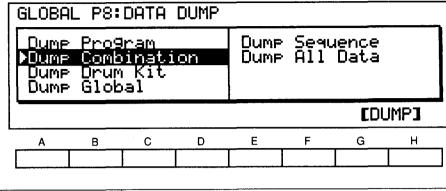
P8-1 Dump Program



[DUMP] Execute the Dump operation

▼This operation transmits (dumps) the data for 200 internal Programs (from Banks A and B) to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.

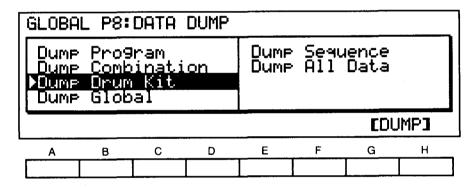
P8-2 Dump Combination



[DUMP] Execute the Dump operation

▼This operation transmits (dumps) the data for 200 internal Combinations (from Banks A and B) to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.

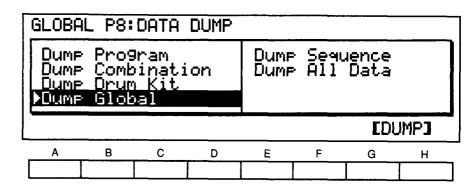
P8-3 Dump Drum Kit



	 	The state of the s
G	[DUMP]	Execute the Dump operation

▼This operation transmits (dumps) the data for the 4 Drum Kits in Banks A and B in internal memory (created in Global mode P1, P2) to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.

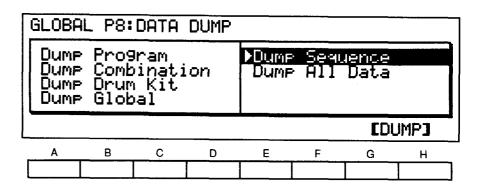
P8-4 Dump Global



G	[DUMP]	Execute the Dump operation
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- ▼This operation transmits (dumps) all Global parameters except for MIDI settings to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.
- * When data is received to an 01R/W from other 01/W series unit, there will be some difference in the following operations: Key Transpose, Velocity Curve, Aftertouch Curve.

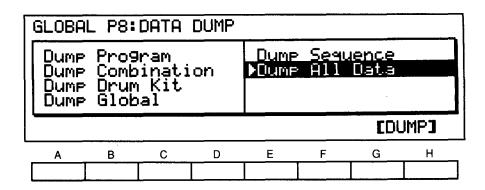
P8-5 Dump Sequence



	G	[DUMP]	Execute the Dump operation
ı			

- ▼This operation transmits (dumps) all sequence data to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.
- ☆ When dumping sequence data from a 01/W_{pro} to an 01/W or 01R/W, check to be sure that 86% or more of the 01/W_{pro}X•01/W_{pro}'s sequence data memory is free. (48,000 steps are available on the 01/W_{pro}X•01/W_{pro}, and 7,000 steps for the 01/W and 01R/W.)

P8-6 Dump All Data



G		[DUMP]	Execute the Dump operation
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- ▼This operation transmits (dumps) all Program parameters, Combination parameters, Drum Kit data, Global parameters, and Sequence data from internal memory to another 01/W series unit connected via MIDI. Press [DUMP] to execute the data dump.
- ☆ When dumping all data from a 01/W pro to an 01/W or 01R/W, check to be sure that 86% or more of the 01/W proX's sequence data memory is free. (48,000 steps are available on the 01/W proX, 01/W pro, and 7,000 steps for the 01/W and 01R/W.)
- * When data is received to an 01R/W from other 01/W series unit, there will be some difference in the following operations: Key Transpose, Velocity Curve, Aftertouch Curve.

8. DISK MODE

In this mode, data can be loaded from a disk (copied into internal memory), or saved to a disk (copied from internal memory).

- * On the 01/WproX, 01/Wpro, the contents of sequencer memory will be lost when the power is turned off. Be sure to save important data to disk before turning the power off.
- Only 3.5 inch disks marked "Double sided double density, double track" can be used. These disks are usually labeled "MF2DD", "MFD-2DD", etc.
- * Two types of floppy disk formats may be used with the 01/ WproX•01/Wpro. One type of format is used for other units in the 01/W series and the other type is used for standard MIDI files.

FUNCTIONS IN DISK MODE

- Use the numeric keys (0 9) and the PAGE+ and PAGEkeys to select the page.
- * The disk format used for P4 differs from that used for P0-P3.

Page	Format	Function	
P0	01/W series format	DISK LOAD 1	Load disk data into internal memory (copy all data)
P1	01/W series format	DISK LOAD 2	Load disk data into internal memory (copy individual Combinations, etc.)
P2	01/W series format	DISK SAVE	Save internal memory data to disk
P3	01/W series format	MIDI DATA FILE	Transmit & Receive MIDI bulk data (load, save)
P4	Standard MIDI file format	STANDARD MIDI FILE	Load/save/format standard MIDI file data

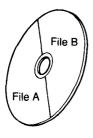
ABOUT FILES

Two types of floppy disk formats may be used with the 01/W_{pro}X and 01/W_{pro}. One type of format is used for the 01/W series and the other type is used for standard MIDI files.

• 01/W series format

The 01/W_{pro} uses two files on each disk; file A and file B. Each file contains all internal data and all data received by the MIDI data filer function.

* Combination or Program data from two banks can be rewritten when saving (P2) or loading (P0) data.

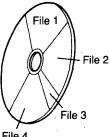


One file

200 Combinations
200 Programs
4 Drum Kits
1 set of Global data
Sequence data (10 songs, 100 patterns)
MIDI data (64 Kbytes)

· Standard MIDI Format

Multiple files may be stored for use on the disk. For files that contain sequence data, each file corresponds to a single song.



One file

Sequence data for 1 song (Playback data only)

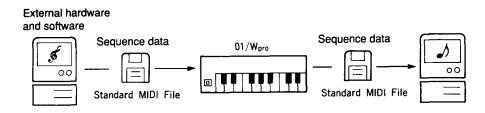
Standard MIDI File

This standard makes it possible to use sequence data from a floppy disk regardless of the source equipment or manufacturer. Files of sequence data made on equipment that conforms to this standard can be loaded and played back on the 01/Wpro. In addition, sequence data created on the 01/Wprox•01/Wpro can be saved to disk as a standard MIDI file, making it possible to load and play back this data on other equipment as well.

There are two types of format used by the $01/W_{pro}X \cdot 01/W_{pro}$ for saving sequence data to disk. The 01/W series format makes it possible to save most of the sequence settings and playback data created on the $01/W_{pro}X \cdot 01/W_{pro}$. This data (up to 48,000 steps) can then be loaded to and played back on the 01/WFD.

Only playback data can be saved as a standard MIDI file. Such data cannot be loaded to the 01/WFD, but it can be loaded to and played back on equipment made by other manufacturers that conforms to this MIDI standard.

Select the format that is appropriate for saving your data when you format each floppy disk.



DISK

Loading from disk

This operation loads data from disk into internal memory.

• When you load data, the data previously in internal memory will be overwritten and lost.

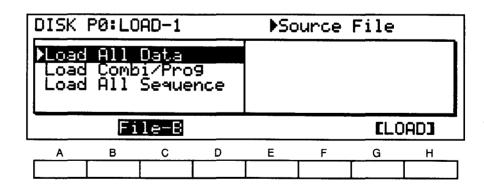
The following types of data can be loaded.

All data (P0-1)	all Combinations, Programs, and Global parameters (P0-2)	1 Combination (P1-1) 1 Program (P1-2) 1 Drum Kit (P1-5)	
All data (P0-1)	All sequence data (P0-3)	1 Song (P1-3) 1 Pattern (P1-4)	
MIDI Data File (P3-1)			

- Never remove the disk while the data is being loaded (the display shows "Now Loading").
- When the data has been correctly loaded, the display will show "Completed". If an error message appears, re-insert the disk in the disk drive, and try the load operation once
- again. (Refer to page 206"Error messages" for an explanation of each error message.)
- Loading is not possible if Global mode P4-5 Memory Protect is turned On.

Page-0 Disk Load

P0-1 Disk Load All Data

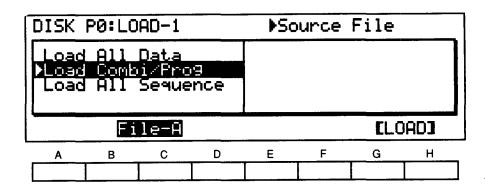


A	File	A, B	Specify the disk file to be loaded
G		[LOAD]	Execute loading

- ▼This operation loads all data (except MIDI data) from the specified disk file into internal memory (Banks A and B, sequence memory). The LCD contrast and memory protect status will remain unchanged.
- (1) Insert the disk into the disk drive.

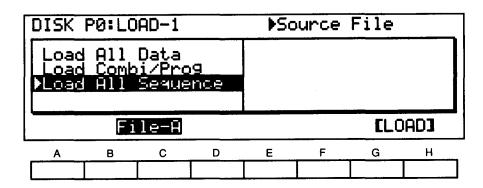
- (2) Specify the disk file to be loaded (\overline{A} , file A or B).
- (3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

P0-2 Disk Load All Combi/Prog



- ▼This operation loads all Combinations, Programs, Drum Kits, and Global parameters from the specified disk file into internal memory (Banks A and B). The LCD contrast and memory protect status will remain unchanged.
- The procedure is the same as for P0-1 Load All Data.

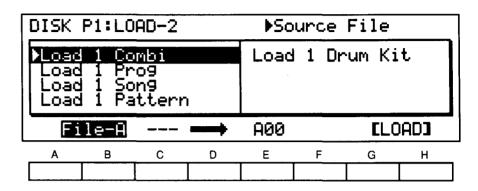
P0-3 Disk Load All Sequence



- ▼This operation loads all sequence data from the specified disk file into internal sequence memory.
- The procedure is the same as for P0-1 Load All Data.

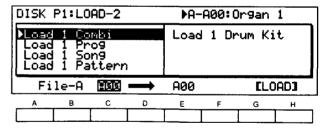
Page-1 Disk Load-2

P1-1 Disk Load 1 Combination



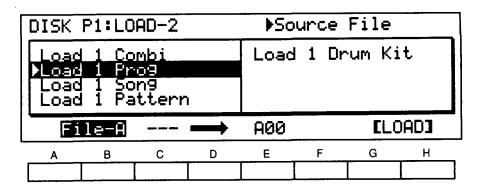
A	File	A, B	Specify the disk file from which to load a Combination
C	Disk Combination	A00—A99, B00—B99	Specify the Combination from the file being loaded
E	Internal Combination	A00—A99, B00—B99	Specify the internal memory Combination into which the data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads one Combination from a disk file.
- Use the P1-2 Load 1 Program operation to load the Programs used by that Combination into the same Program numbers.
- (1) Insert the disk into the disk drive.
- (2) Specify the disk file containing the Combination to be loaded (A), the Combination number (C), and the internal memory Combination number (E) into which the Combination is to be loaded.
- When you press \boxed{C} , no other operations will be possible for approximately 0.4 1.6 seconds while the Combination name area of the disk is being searched.
- When searching ends, the Combination names will be displayed in the upper right of the screen.



(3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

P1-2 Disk Load 1 Program

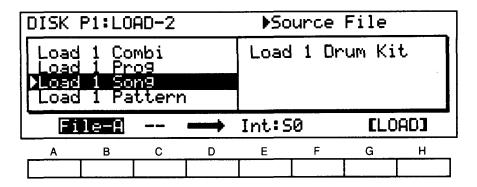


A	File	A, B	Specify the disk file from which to load a Program
C	Disk Program	A00 — A99, B00 — B99	Specify the Program from the file being loaded
E	Internal Program	A00 — A99, B00 — B99	Specify the internal memory Program into which the data will be loaded
G		[LOAD]	Execute loading

This operation loads one Program from a disk file.

- (1) Insert the disk into the disk drive.
- (2) Specify the disk file containing the Program to be loaded (A), the Program number (C), and the internal memory Program number (E) into which the Program is to be loaded.
- When you press $\boxed{\mathbb{C}}$, no other operations will be possible for approximately 0.4 1.6 seconds while the Program name area of the disk is being searched.
- When searching ends, the Program names will be displayed in the upper right of the screen.
- (3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

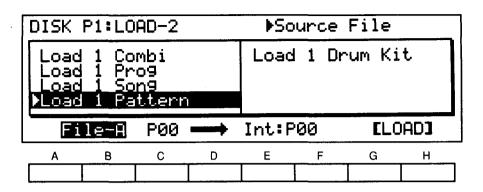
P1-3 Disk Load 1 Song



A	File	A, B	Specify the disk file from which to load a Song
C	Disk Song	S0 — S9	Specify the Song from the file being loaded
E	Internal Song	S0 — S9	Specify the internal memory Song into which the data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads one Song from a disk file.
- When loading a Song that uses patterns, load the necessary patterns first.
- (1) Insert the disk into the disk drive.
- (2) Specify the disk file containing the Song to be loaded (A), the Song number (C), and the internal memory Song number (E) into which the Song is to be loaded.
- When you press C , no other operations will be possible for approximately 0.4 — 1.6 seconds while the Song name area of the disk is being searched.
- When searching ends, the song names will be displayed in the upper right of the screen.
- (3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

P1-4 Disk Load 1 Pattern

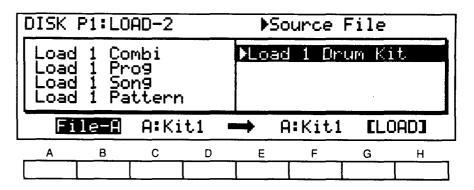


A	File	A, B	Specify the disk file from which to load a Pattern
C	Disk Pattern	P00 — P99	Specify the Pattern from the file being loaded
E	Internal Pattern	P00 P99	Specify the internal memory Pattern into which the data will be loaded
G		[LOAD]	Execute loading

This operation loads one Pattern from a disk file into internal memory.

- (1) Insert the disk into the disk drive.
- (2) Specify the disk file containing the Pattern to be loaded (A), the Pattern number (C), and the internal memory Pattern number (E) into which the Pattern is to be loaded.
- (3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

P1-5 Disk Load 1 Drum Kit



A	File	A, B	Specify the disk file from which to load a Drum Kit
C	Disk Drum Kit	A:Kit1 — B:Kit2	Specify the Drum Kit from the file being loaded
E	Internal Drum Kit	A:Kit1 — B:Kit2	Specify the internal memory Drum Kit into which the data will be loaded
G		[LOAD]	Execute loading

- ▼This operation loads one Drum Kit from a disk file.
- (1) Insert the disk into the disk drive.
- (2) Specify the disk file containing the Drum Kit to be loaded (A), the Drum Kit number (C), and the internal memory Drum Kit number (E) into which the Drum Kit is to be loaded.
- (3) Press [LOAD] (G). Then, if you are sure you want to execute loading, press [YES] (E). To quit without loading, press [NO] (G).

Saving to disk

Use these operations to save data from internal memory to disk. When data is saved to a disk file which already exists, the old data of that disk file will be lost. You can use the disk protect slider to keep important disk data from being accidentally overwritten.

• The following types of data can be saved to disk.

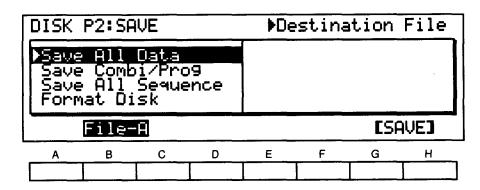
All data (P2-1)	All Combinations / Programs / Drum Kits / Global parameters (P2-2)	
	All Sequence data (P2-3)	
MIDI data file	(P3-2)	

 It is not possible to rewrite an individual Combination, Program, Song, Pattern, or Drum Kit inside a file. Load the file you want to edit (but remember to first save the current contents of internal memory as a different file), and edit it in internal memory.

- A newly purchased disk must be "formatted" before it can be used to store 01/WproX, 01/Wpro data. 2DD disks used by another device or for standard MIDI files must also be formatted before they can be used to store 01/Wpro data. For details, see P2-4 Format Disk.
- While data is being saved to disk and the display shows "Now Saving", do not remove the disk.
- When the data has been correctly saved, the display will show "Completed". If an error message appears, re-insert the disk in the disk drive, and try the save operation once again. (Refer to page 211 "Error messages" for an explanation of each error message.)
- Be sure to release the disk protect slider before trying to save data or format a disk.

Page-2 Disk Save All

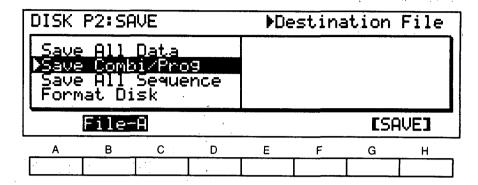
P2-1 Disk Save All Data



A	File	A, B	Specify the disk file into which the data will be saved
G		[SAVE]	Execute saving

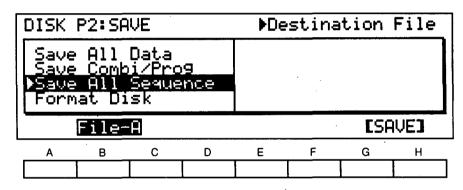
- ▼This operation saves all internal memory (Bank A + B, sequence memory) data (except MIDI data) to disk.
- (1) Insert the disk into the disk drive.
- Make sure that the write protect slider is in the Write Permit position.
- (2) Specify the disk file into which the data will be saved (A, file A or B).
- (3) Press [SAVE] (G). Then, if you are sure you want to execute saving, press [YES] (E). To quit without saving, press [NO] (G).

P2-2 Disk Save All Combi / Prog / Drums / Global



- ▼This operation saves all Combinations, Programs, Drum Kits, and Global parameters from internal memory (Banks A and B) to disk.
- The procedure is the same as explained in P2-1 Save All Data.

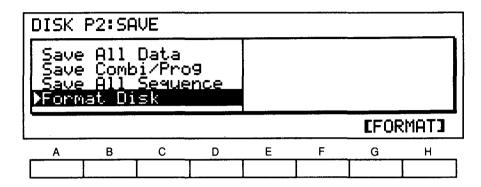
P2-3 Disk Save All Sequence



- ▼This operation saves all Sequence data from internal sequence memory to disk.
- The procedure is the same as explained in P2-1 Save All Data.

Formatting a disk

P2-4 Format Disk



G		[FORMAT]	Execute formatting (initialization)

- ▼This operation formats a floppy disk (3.5"2DD type) for use by the 01/W Series.
- A newly purchased floppy disk must be formatted before it can be used to store data. 2DD floppy disks used by other devices or for standard MIDI files must also be formatted before they can be used to store 01/W series data. When a disk is formatted, all its data is erased. Be careful not to format a disk containing important data, and use the disk write protect slider to prevent accidents.
- (1) Insert the disk into the disk drive.
- (2) Press [FORMAT] (G). Then, if you are sure you want to format the disk, press [YES] (E). To quit without formatting, press [NO] (G).

- Make sure that the disk write protect tab is in the write permit position.
- Formatting takes approximately 2 minutes.
- Never attempt to remove the disk while formatting is taking place (while the display shows "Now Formatting").
- When formatting is completed, the display will show "Completed". If an error message appears, re-insert the disk into the disk drive and try the operation once again. If an error appears again, try formatting a different disk. (For an explanation of each error message, see "Error messages" page 210.)
- * The formatting of disks previously used for standard MIDI files is described under P4-4.

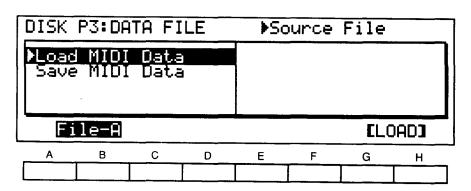
MIDI Data file

The 01/WproX, 01/Wpro can receive MIDI Exclusive data (sound data etc. specific to each device) from external devices and save this data to disk.

- Each file can store up to 64 Kbytes of MIDI data.
- Since each device handles MIDI exclusive messages in different ways, it may not be possible for the 01/WproX, 01/ Wpro to save data from a certain device even if that device is able to use exclusive messages.
- * In order to save or load MIDI data files, the sequence data memory must be at least 35% free.
- * When this page has been selected, MIDI data can be transferred regardless of the MIDI Filtering Exclusive setting selected in the Global mode.
- * If MIDI Exclusive data is saved as is when it is received, it will remain unchanged when it is transmitted via MIDI Out during a later loading operation. Because of this, the Global channel setting on the main unit is of no consequence during such save and load operations.

Page-3 Data file

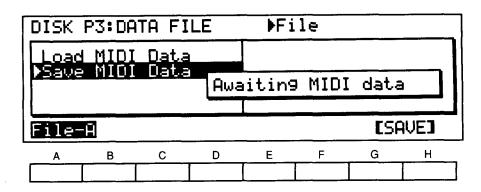
P3-1 Disk Load MIDI Data



A	File	A, B	Specify the disk file to be loaded
G		[LOAD]	Execute loading

- ▼This operation loads exclusive data (unique data for each device) that was received from an external MIDI device using the P3-2 Save MIDI Data function, and transmits this data from MIDI Out.
- (1) Insert the disk into the disk drive.
- (2) Specify the file (A , file A or B) to be loaded.
- (3) Press [LOAD] (G). Then, if you are sure you want to load the data, press [YES] (E). To quit without loading, press [NO] (G).
- Never attempt to remove the disk while the "Now Loading" message appears in the display.

P3-2 Disk Save MIDI Data



A	File	A, B	Specify the disk file into which the data will be saved
G		[SAVE]	Execute saving

- ▼This operation receives a MIDI system exclusive message from an external MIDI device, and saves the data to disk. All data received from when you selected this function until you press [SAVE] (G) will be saved.
- * To save a MIDI Data File, the sequence data memory must be at least 35% free.
- (1) Insert the disk to which you will save the data into the disk drive.
- (2) Specify the file (A or B) into which the data will be saved.
- (3) Operate the MIDI device connected to the 01/WproX, 01/Wpro MIDI IN to make it transmit the system exclusive data you want to store. Different devices will call this function by various names, such as "Data Dump", "Transmit Exclusive Data", etc. Consult the manual for your device.

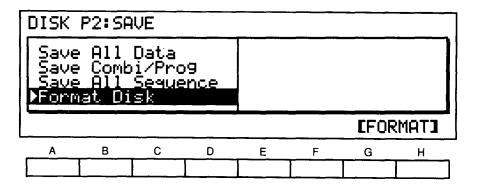
- The display will indicate the number of bytes in the received message.
- Exclusive messages from more than one device can be received, up to a total of 64 Kbytes of data (approximately 21 seconds total). (If you will be saving data from two or more devices of the same type, you will need to distinguish the data in some way, for instance by transmitting the data on different MIDI channels. Korg devices allow you to specify the transmission channel of exclusive data.)
- If the received data exceeds 64 Kbytes, an error message will appear, and the previously received data will be lost.
- (4) When you are finished receiving, press [SAVE] (G). Then, if you are sure you want to save the data to disk, press [YES] (E). To quit without saving, press [NO] (G). The data will not be saved to disk until you perform this step.
- Never attempt to remove the disk while the "Now Saving" message appears in the display.

Standard MIDI file

Page-4 Standard MIDI file

The standard MIDI file on this page makes it possible to load sequence data from a floppy disk regardless of the source equipment or manufacturer (insomuch as that equipment conforms to this MIDI standard).

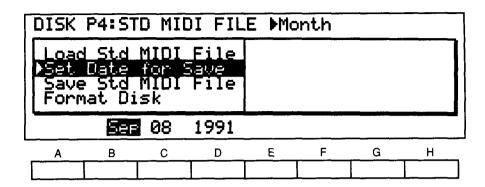
P4-1 Disk Load File Data



A	·		Select file to be loaded from disk
D Song		0~9	Select load destination of song
G		[LOAD]	Execute loading

- ▼This operation loads the sequence data saved on a double density (DD), 720K DOS-formatted disk in the standard MIDI format.
- (1) Insert the disk into the disk drive.
- (2) Press A to select the file to be loaded.
- (3) Press \boxed{D} to select the load destination of the Song.
- (4) Press [LOAD] (G). If you are sure you want to load the data, press YES (E). To quit without loading, press NO (G).
- Do not remove the disk while the "Now Loading" message is displayed.
- * When saving sequence data created on the 01/WproX or 01/Wpro as a standard MIDI file, the Memory Full message may appear when loading. This is because all of the Patterns are opened at the time the data is saved.
- ☆ You need to set tracks indivisually after the song name and performance data are loaded from the disk.

P4-2 Date For Save

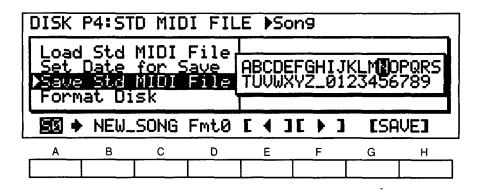


B	Month	Jan ~ Dec	Set the month
C	Day	01 ~ 31	Set the date
D	Year	1980 ~ 2079	Set the year

▼This operation is used to add the date to files that are being saved.

When the file is loaded using P4-1, the date added in this operation will be displayed at B. This date will be displayed when viewing a disk directory on a personal computer.

P4-3 Save Song Data



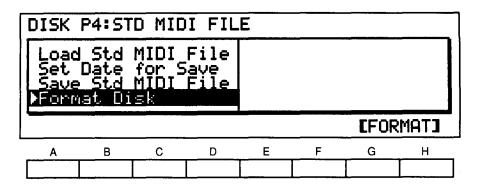
AS	Song	0~9	Select song to be saved
E		[◄]	Move the file rename cursor to the left
F		[▶]	Move the file rename cursor to the right
D Fmt	File Format	0, 1	Select the file format used when saving a file
G		[SAVE]	Execute saving

- ▼This operation saves a Song in memory to disk in a standard MIDI file format.
- The Song name and playback data are saved.
- (1) Set the write protect slider on the floppy disk so data can be saved to the disk.
- (2) Press A to select the Song to be saved. Press B to display the song names. The first 8 characters of names (up to 10 characters long) will be displayed. The underline character "_" is displayed at the position where an unavailable character has been entered. If the first 8'characters in a Song name match the name used for another file, the "_" symbol will replace the Song
 - Check to be sure the file name you want to assign to the data does not already exist on the disk.
- (3) If necessary, use the ◀ E and ▶ F keys with the Value slider and the △and ▽ keys to change a file name being displayed. Use capital letters, numerals and symbols (some of which can be used for song names but not for file names) in combination to form the name, which can be up to 8 characters long.
- * At this point, be sure to use the new song name after pressing A to select a song.
- (4) Press D to select the format used when saving the file. Because this format conforms to the standard MIDI format, select either 0 or 1 for the format of each file. Format 0: All of the data from tracks 1-16 will be saved on a single track.

Format 1: The data for each track is saved separately. Data is saved separately to each of the tracks, in the same manner as when the data is created.

- Format 1 will be selected under most circumstances. However, if there is a problem when loading the data to another device (e.g. the device will not respond to Format 1 or the number of tracks is inappropriate), use Format 0 to save the data.
- (5) Press [SAVE] (G). If you want to save the data, press [YES](E). To quit without saving, press [NO] (G). If the file name already exists on the disk, the File Already Exists, Overwrite? message will appear. Select [YES] or [NO] to proceed.
- Do not remove the disk while the "Now Saving" message is displayed.
- * The file name extension .MID is used. An example of this would be KORG.MID.
- * In sections which contain Patterns, the Patterns are opened before they are saved. Because of this, a large portion of the disk's memory is used when saving a Song that uses several Patterns. This may make it difficult to re-load this data to the 01/WproX or 01/Wpro.

P4-4 Format Disk



G	[FORMAT]	Execute formatting (initialization)
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- ▼This operation formats a floppy disk (3.5" 2DD) for the use of standard MIDI format files.
- A newly purchased floppy disk must be formatted before it
 can be used to store data. 2DD floppy disks used by other
 devices for the use of 01/W files must also be formatted
 before they can be used to store standard MIDI file data.
 When a disk is formatted, all its data is erased. Be careful not
 to format a disk containing important data, and use the disk
 write protect slider to prevent accidents.
- (1) Insert the disk into the disk drive.
- (2) Press [FORMAT] (G). Then, if you are sure you want to format the disk, press [YES] (E). To quit without formatting, press [NO] (G).

- Make sure that the disk write protect tab is in the write permit position.
- Formatting takes approximately 2 minutes.
- Never attempt to remove the disk while formatting is taking place (while the display shows "Now Formatting").
- When formatting is completed, the display will show "Completed". If an error message appears, re-insert the disk into the disk drive and try the operation once again. If an error appears again, try formatting a different disk. (For an explanation of each error message, see "Error messages" on page 211.)
- * Format the disk in 720K MS-DOS format.
- * Follow P2-4 to carry out the 01/W series exclusive formatting procedure.

1. TRANSMITTED DATA

-1 CHANNEL M	ESSAGES			- v .
Status	Second	Third	Description	ENA
1000 nnnn	Okkk kkkk	0100 0000	Note Off	٨
			kkk kkkk=09~120 (01/W PRO X: 88Keys+Trans)	ŀ
		İ	=16~115 (01/W PRO : 76Keys+Trans)	. 1
1001 nnnn	Okkk kkkk	0000 0000	Note On	٨
			kkk kkkk=09 \sim 120 (01/W PRO X: 88Keys+Trans)	
			=16~115 (01/W PRO : 76Keys+Trans)	
		ŀ	vvv vvvv=1~127	
1010 nnnn	Okkk kkkk	0000 0000	Poly Key Pressure (Seq Recorded Data)	TandQ
1011 nnnn	0000 0000	0000 0000	Bank Select(MSB) (BANK Key)	P
1011 nnnn	0000 0001	0000 0000	Pitch Modulation (Joy Stick(+Y))	C
1011 nnnn	0000 0010	0000 0000	VDF Cutoff Modulation (Joy Stick(-Y))	C
1011 nnnn	0000 1010	0000 0000	Panpot .	C
1011 gggg	0000 1100	0000 0000	Effectl Control (Assignable Pedall)	С
1011 gggg	0000 1101	0000 0000	Effect2 Control (Assignable Pedal2)	С
1011 gggg	0010 0000	0000 00ьь	Bank Select(LSB) (BANK Key)	P
1011	****		bh=0~3:Bank A~D	
1011 gggg	0000 0110	0000 0000	Data Entry (MSB) (V. Slider, A. Pedal)*1	E
1011 nnnn	0000 0111	Ovvv vvvv	Volume (Assignable Pedal)	С
1011 gggg	0010 0110	Ovvv vvvv	Data Entry (LSB) (V. Slider, A. Pedal)*1	E
1011 gggg	0100 0000	0000 0000	Damper Off (Damper Pedal)	C
1011 mmn	0100 0000		Damper On (Damper Pedal)	С
1011 mmn	0101 1011	0000 0000	Effectl Off (Assignable Pedal)	С
1011 gggg	0101 1011	0111 1111	Effectl On (Assignable Pedal)	С
1011 gggg	0101 1100	0000 0000	Effect2 Off (Assignable Pedal)	C
1011 gggg	1	0111 1111	Effect2 On (Assignable Pedal)	l c
			Data Increment (Value △ Key) *1	E
1011 gggg 1011 gggg		1	Data Decrement (Value ∇ Key) *1	E
1011 gggg	1		Control Data (Seq Recorded Data)	CandQ
1 1011 11000	1 3000 0000	3,,,,,,,,,	ccc cccc=00~101	
1100 nnnn	Oppp pppp		Program Change (Prog or Combi Change)	P
1 TION DUNE	don dobb		ppp pppp=0~99	
1101	0000 0000		Channel Pressure (After Touch)	T
1101 nnnn		1		С
1110 nnnn	Obbb bbbb	1 0000 0000	The Clobal Channel Then using Sequencer, each	A

nnnn : MIDI Channel No. (0~15) Usually Global Channel. Then using Sequencer, each track's channel, and when in Combination Mode, each timbre's channel.

gggg : Always Global Channel No. (0~15)

ENA = A : Always Enabled

C : Enabled when Control Filter is ENA

P: Enabled when Program Filter is ENA

T : Enabled when After Touch Filter is ENA

E : Enabled when Exclusive Filter is ENA

Q: Enabled when Sequencer is Playing(T), Recording(R)

*1 : Prog. E. Prog. Combi. E. Combi Node Only

. A CUCTON COMMON MESSACES

1	-2 2121FM CO	REUN BESSAGE	<u> </u>			
Ì			Third	Description		
	1111 0010		Ohhh hhhh	Song Position Pointer 111 1111: Least significant hhh hhhh: Nost significant		
	1111 0011	000s ssss		Song Select s ssss : Song No. = $0\sim29$ ($10\sim29$:Card)		

Transmits when in Sequencer Mode (Internal Clock)

1-3 SYSTEM REALTIME MESSAGES

Status	Description	
1111 1000	Timing Clock	*2
1111 1010	Start	* 2
1111 1011	Continue	*2
1111 1100	Stop	* 2
1111 1110	Active Sensing	

*2 : Transmits when in Sequencer Mode (Internal Clock)

-4 UNIVERSAL	SYSTEM	EXCLUSIVE	MESSAGES	(DEVICE	INQUIRY
1111 0000 (F0)	Exclusive	Status		

1111 0000 (FO)	Exclusive Status
0111 1110 (7E)	Non Realtime Message
0000 gggg (0g)	MIDI GLOBAL CHANNEL (DEVICE ID)
0000 0110 (06)	INQUIRY MESSAGE
0000 0010 (02)	IDENTITY REPLY
0100 0010 (42)	KORG ID (MANUFACTURERS ID)
-0010-1011 (2B)	01/W Series ID (FAMILY CODE (LSB))
0000 0000 (00)	((MSB))
0000 Omma (Om)	(MEMBER CODE (LSB))
0000 0000 (00)	((MSB))
O*** **** (**)	ROM No. 1∼ (Minor Ver. (LSB))
0000 0000 (00)	((MSB))
(*** **** (**)	SOFT VER. 1~ (Major VER. (LSB))
0000 0000 (00)	((MSB))
1111 0111 (F7)	END OF EXCLUSIVE

Transmits when INQUIRY MESSAGE REQUEST Received

1-5 SYSTEM EXCLUSIVE MESSAGES

```
1st Byte = 1111 0000 (FO) : Exclusive Status
2nd Byte = 0100 0010 (42) : KORG ID
3rd Byte = 0011 gggg (3g) : Format ID g:Global ch-
                                                   EX. Header
4th Byte = 0010 1011 (2B) : 01/W Series ID
5th Byte = Offf ffff (ff) : Function Code
6th Byte = Oddd dddd (dd) : Data
                       : :
```

LastByte = 1111 0111 (F7): End of Exclusive EOX

m = 3 : 01/W PRO X 4 : 01/W PRO

Function Code List

Func	Description	R	С	D	Ε
42	MODE DATA	0			
47	ALL DRUM SOUND (PCM CARD) NAME DUMP	O			
45	ALL MULTISOUND (PCM CARD) NAME DUMP	0			
4E	MODE CHANGE	1	0		
41	PARAMETER CHANGE		0		1
53	DRUMKIT PARAMETER CHANGE		0		
40	PROGRAM PARAMETER DUMP	0	0		
4C	ALL PROGRAM PARAMETER DUMP	00		0	
49	COMBINATION PARAMETER DUMP	0	0		
4D	ALL COMBINATION PARAMETER DUMP	00		0	
48	ALL SEQUENCE DATA DUMP	O.		0000	
51	GLOBAL DATA DUMP	0		Q	1
52	DRUMS DATA DUMP	0		0	
50	ALL DATA(GLB, DRM, CMB, PRG, SEQ) DUMP	0		0	i
26	RECEIVED MESSAGE FORMAT ERROR	0		[0
23	DATA LOAD COMPLETED				00
24	DATA LOAD ERROR			ľ	l O
21	TRITE COMPLETED		1	1	ΙŌ
22	VRITE ERROR	L .			10

Transmitted when

R: Request Message is received

C: Mode or No. is changed by SW

D: Data dump by SW

(Don't respond to Exclusive ENA.DIS)

E: EX: Message received

2. RECOGNIZED RECEIVE DATA

2-1	CHANNEL.	MESCACES

Status	Second	Third	Description	E N 1
		Oxxx xxxx	Note Off	E N A
1000 nnnn 1001 nnnn		0000 0000	Note Off	A .
	l I	0000 0000	Note On	A
1001 nnnn	Okkk kkkk	0000 0000	vvv vvvv=1-127	A
1010				
1010 nnnn	Okkk kkkk	0000 0000	Poly Key Pressure (For Seq. Recording)	TandQ
1011 nnnn	0000 0000	0000 0000	Bank Select(MSB)	P
1011 nnnn	0000 0001	0000 0000	For Pitch Modulation	С
1011 nnnn	0000 0010	0000 0000	For VDF Cutoff Modulation	C
1011 nnnn	0000 0110	0000 0000	Data Entry (MSB) #1.3	E
1011 nnnn	0000 0111	0000 0000	Volume	C
1011 nnnn	0000 1010	0000 0000		C
1011 nnnn	0000 1011	0000 0000	· ·	С
1011 gggg	0000 1100	0000 0000		С
1011 gggg		Ovvv vvvv		С
1011 nnnn	0010 0000	0000 00ьь	Bank Select(LSB)	P
			bb=0~3:Bank A~D	
1011 nnnn	0010 0110	0000 0000	Data Entry (LSB) *1.3	E
1011 nnnn	0100 0000	OOxx xxxx	Damper Off	С
1011 nnnn	0100 0000	Olxx xxxx	Damper On	С
1011 gggg		00xx xxxx		С
1011 gggg		Olxx xxxx	- 1	С
1011 gggg		00xx xxxx		С
1011 gggg		Olxx xxxx		С
1011 nnnn		0000 0000		E
1011 nnnn	0110 0001	0000 0000	***	E
1011 nnnn	0110 0100	0000 00rr		E
1011 nnnn		0000 0000	RPC Parameter No. (MSB) #3,4	E
1011 nnnn	0111 1001	0000 0000		С
1011 nnnn	Occc cccc	0000 0000	Control Data (For Seq. Recording)	CandQ
1			ccc cccc≈00~101	
1011 gggg	0111 1010	0000 0000	Local Control Off	A
1011 gggg	0111 1010	0111 1111	Local Control On	A
1011 nnnn	0111 1011	0000 0000	All Notes Off	A
1011 nnnn	0111 110x	0000 0000		A
1011 nnnn	0111 1110	000m mmm	(All Notes Off)	A
1			n nmmn=0~16	
1011 nnnn	0111 1111	0000 0000	(All Notes Off)	A
1100 nnnn	Оррр рррр		Program. Combination Change #2.3	P
1101 nnnn	0000 0000		Channel Pressure (After Touch)	Т
1110 nnnn	0 555 5555	Obbb bbbb	Bender Change	С

x : Random

ENA Same as TRANSMITTED DATA

*1 : Prog. E. Prog. Combi. E. Combi Mode Only

*2 : Data beyond value of 99 are assigned a new value by subtracting 100 and change the Bank-

ex. When in Bank A. and Received Prog No. is 110.

Change the Bank to B. and change the Prog No. to 10.

*3: After Processing (Thile Exclusive ENA).

Transmits Exclusive Message[DATA LOAD COMPLETED]or[DATA LOAD ERROR].

*4 : rr = 0 : Pitch Bend Sensitivity

= 1 : Fine Tune (When Received Ch = Global Ch. Master Tune)

* 2 : Coarse Tune (Transpose)

2-2 SYSTEM COMMON MESSAGES

Status	Second	Third	Description
1111 0010	Osss ssss	Ottt tttt	Song Position Pointer sss ssss : Least significant ttt tttt : Nost significant
1111 0011	000s ssss		Song. Select s ssss : Song No. = 0~29(10~29:Card)

Receive when in Sequencer Mode (External Clock)

2-3 SYSTEM REALTIME MESSAGES

Status	Description	
1111 1000	Timing Clock	* 5
1111 1010	Start	*5
1111 1011	Continue	* 5
1111 1100	Stop	*5
1111 1110	Active Sensing	

*5 : Receive when in Sequencer Mode (External Clock)

2-4 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE (DEVICE INQUIRY)

Byte	Description	
1111 0000 (FO)	EXCLUSIVE STATUS	
0111 1110 (7E)	NON REALTIME MESSAGE	
Oggg gggg (gg)	MIDI CHANNEL	*6
0000 0110 (06)	INQUIRY MESSAGE	
0000 0001 (01)	INQUIRY REQUEST	
1111 0111 (F7)	END OF EXCLUSIVE	

*6 gg = 0~F : Receive if Global Channel = 7F : Receive any Channel

2-5 SYSTEM EXCLUSIVE MESSAGES

* Don't receive when Sequencer is Playing. Recording

Function Code List

	Function code List					
Func	Description	G	С	Р	Α	No.
12	NODE REQUEST	Ö	0	0	0	42
1F	ALL DRUM SOUND (PCM CARD)NAME DUMP REQUEST	0	0	0	0	47
16	ALL MULTISOUND (PCM CARD)NAME DUMP REQUEST	0	0	0	0	45
10	PROGRAM PARAMETER DUMP REQUEST			0		40
1C	ALL PROGRAM PARAMETER DUMP REQUEST	0	0	0	0	4C
19	COMBINATION PARAMETER DUMP REQUEST		0			49
1D	ALL COMBINATION PARAMETER DUMP REQUEST	0	0	00	0	4 D
18	ALL SEQUENCE DATA DUMP REQUEST	0	0	0	0	48
OE	GLOBAL DATA DUMP REQUEST	0	0	0	0	51
OD	DRUMS DATA DUMP REQUEST	0	0	0	0	52
OF	ALL DATA(GLOBAL, DRUMS, COMBI, PROG. SEQ)DUMP REQ	0	0	0	0	50
11	PROGRAM WRITE REQUEST			00		21
1A	COMBINATION WRITE REQUEST		0			21
40	PROGRAM PARAMETER DUMP			0		23
4C	ALL PROGRAM PARAMETER DUMP	0	0	0	0	23
49	COMBINATION PARAMETER DUMP		0			23
4D	ALL COMBINATION PARAMETER DUMP	0	0	0	0	23
48	ALL SEQUENCE DATA DUMP	0	О	lol	0	23
51	GLOBAL DATA DUMP	0	Ō	O	Ō	23
52	DRUNS DATA DUMP	0	Ō	0	O	23
50	ALL DATA(GLOBAL. DRUNS, CONBI. PROG. SEQ) DUMP	0	Õ	O	Ŏ	23
4E	MODE CHANGE	0	0	0		23
41	PARAMETER CHANGE		ŏ	ŏ		23
53	DRUMKIT PARAMETER CHANGE	0	<u> </u>			23
	IDI Out Function No. (transmitted after the mess	يب	-			

No.: MIDI Out Function No. (transmitted after the message has been received).

Receive when in

- G : GLOBAL Node
- (◎…Does not respond
- to Exclusive ENA. DIS
- in DATA DUMP Page)
- C : COMBI. E. COMBI Mode
- P : PROG. E. PROG Mode
- A : ANY OTHER Mode

3. MID! EXCLUSIVE FORMAT (R: Receive, T: Transmit)

(1) NODE REQUES	т	R
Byte	Description	
FO. 42. 3g. 2B	EXCLUSIVE HEADER	
0001 0010	MODE REQUEST	12H
1111 0111	EOX	

Receives this message, and transmits Func=42 message.

(2) PROGRAM PAR	AMETER DUMP REQUEST	R
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0001 0000	PROGRAM PARAMETER DUMP REQUEST	1 OH
	1111 0111	EOX	

Receives this message, and transmits Func=40 or Func=24 message.

(3) ALL DRUM SO	UND (PCM CARD) NAME DUMP REQUEST	R
-	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0001 1111	ALL DRUM SOUND NAME DUMP REQUEST	1FH
	0000 0000		
	1111 0111	FOX	

Receives this message, and transmits Func=47 or Func=24 message.

(4) ALL MULTISO	UND (PCM CARD) NAME DUMP REQUEST	<u>R</u>
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0001 0110	ALL MULTISOUND NAME DUMP REQUEST	16H
	0000 0000		
	1 1111 0111	POV	- 1

Receives this message, and transmits Func=45 or Func=24 message.

(5) ALL PROGRAM	PARAMETER DUMP REQUEST	R
Byte	Description	
F0. 42. 3g. 2B 0001 1100 0000 0000	EXCLUSIVE HEADER ALL PROGRAM PARAMETER DUMP REQUES	1CH
1111 0111	EOX	

Receives this message, and transmits Func=4C or Func=24 message.

(6) COMBINATION	PARAMETER DUMP REQUEST R
-	Byte	Description
	FO. 42. 3g. 2B	EXCLUSIVE HEADER
	0001 1001	COMBINATION PARAMETER DUMP REQUEST 19H
	1111 0111	EOX

Receives this message, and transmits Func=49 or Func=24 message.

(7) ALL COMBINA	TION PARAMETER DUMP REQUEST	R
ĺ	Byte	Description	
	FO. 42. 3g. 2B 0001 1101	EXCLUSIVE HEADER ALL COMBI. PARAMETER DUMP REQUEST	1 DH
	0000 0000		l
	1111 0111	EOX	

Receives this message, and transmits Func=4D or Func=24 message.

8) ALL SEQUENC	E DATA DUMP REQUEST	R
Byte	Description	
F0. 42. 3g. 2B 0001 1000 0000 0000	EXCLUSIVE HEADER ALL SEQUENCE DATA DUMP REQUEST	18H
1111 0111	EOX	

Receives this message, and transmits Func=48 or Func=24 message.

(9) GLOBAL DATA	DUMP REQUEST	R_
Byte	Description	
F0. 42. 3g. 2B 0000 1110 0000 0000	EXCLUSIVE HEADER GLOBAL DATA DUMP REQUEST	ОЕН
1111 0111	EOX	

Receives this message, and transmits Func=51 or Func=24 message.

(1	O) DRUMS DATA	DUMP REQUEST	R_
Г	Byte	Description	
	FO. 42. 3g. 2B 0000 1101 0000 0000	EXCLUSIVE HEADER DRUMS DATA DÚMP REQUEST	ОДН
	1111 0111	EOX	

Receives this message and transmits Func=52 or Func=24 message.

(11)	ALL !	DATA(GLOE	I. DRUMS.	COMBI	PROG. SE	Q) D(JMP_	REQUEST	ĸ
	D			D ₄	ecrinti	Δħ			

Byte	Description
FO. 42. 3g. 2B	EXCLUSIVE HEADER
0000 1111	ALL DATA(GLB.CMB.PRG.SEQ) DUMP REQ OFH
0000 0000	Į į
1111 0111	EOX

Receives this message, and transmits Func=50 or Func=24 message.

(12) PROGRAM WR	(12) PROGRAM WRITE REQUEST		
Byte	Description		
F0. 42. 3g. 2B 0001 0001 0000 00bb 0ppp pppp	EXCLUSIVE HEADER PROGRAM WRITE REQUEST Write Program Bank Write Program No. (0-99) EOX	11H (NOTE 1)	

Receives this message. writes the data and transmits Func=21 or Func=22 message.

(13) COMBINATIO	R	
Byte	Description	
F0. 42. 3g. 2B 0001 1010 0000 00bb 0ppp pppp 1111 0111	EXCLUSIVE HEADER COMBINATION WRITE REQUEST Write Combination Bank Write Combination No. (0-99) EOX	1AH (NOTE 1)

Receives this message, writes the data and transmits Func=21 or Func=22 message.

(14) PROGRAM PA	RAMETER DUMP	R, T
Byte	Description	
F0. 42. 3g. 2B	EXCLUSIVE HEADER	
0100 0000	PROGRAM PARAMETER DUMP	40H
Oddd dddd	Data	(NOTE 2.3)
1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 message.

Receives Func:10 message, and transmits this message & data.

Then the Program No. is changed by SW. transmits this message & data.

R. T

I LARVEDIEN DON!	K, t
Description	
EXCLUSIVE HEADER	
PROGRAM PARAMETER DUMP	4CH
Data	(NOTE 2.4)
:	
EOX	
	Description EXCLUSIVE HEADER PROGRAM PARAMETER DUMP Data

Receives this message & data. and transmits Func=23 or Func=24 message. Receives Func=1C message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(18) COMBINATION PARAMETER DUMP

• Т

Byte	Description		
F0. 42. 3g. 2B 0100 1001	EXCLUSIVE HEADER COMBINATION PARAMETER DUMP	49H	
Oddd dddd	Data	(NOTE2.5)	
1111 0111	EOX		

Receives this message & data, and transmits Func:23 or Func:24 message. Receives Func:19 message, and transmits this message & data.

Then the Combi No is changed by SV. transmits this message & data.

(17) ALL COMBINATION PARAMETER DUMP

R

(IL) WET COMBIS	VALLON PARAMETER DUMP	Ν, ι
Byte	Description	
FO. 42. 3g. 2B	EXCLUSIVE HEADER	
0100 1101	ALL COMBINATION PARAMETER DUMP	4 DH
0000 0000	1	
Oddd dddd	Data (NOTE	E 2.6)
1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 message.

Receives Func=1D message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(18) ALL SPOURNCE DATA DUMP

R. T

ι	18) ALL SEQUE	NCE DATA DUMP	
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0100 1000	ALL SEQUENCE DATA DUMP	48H
	0000 0000		
	Osss ssss	Seq. Data Size	(NOTE 7-1)
		1	
	Oddd dddd	Control Data	(NOTE 2.7-2)
	Oddd dddd	Sequence Data	(NOTE 2.7-3)
	1		
	1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 message. Receives Func=18 message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(19) GLOBAL DATA DUMP

R. T

Byte	Description	
F0. 42. 3g. 2B	EXCLUSIVE HEADER	
0101 0001	GLOBAL DATA DUMP	51H
0000 0000		
Oddd dddd	Data	(NOTE 2,8)
:	1	
1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 message. Receives Func=0E message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(20) DRUMS DATA DUMP

R. 1

Byte	Description	
FO. 42. 3g. 2B	EXCLUSIVE HEADER	
0101 0010	DRUMS DATA DUMP	52H
0000 0000		
Oddd dddd	Data	(NOTE 2.9)
1		
1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 messsage. Receives Func=0D message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(21) ALL DATA(GLOBAL, DRIINS, COMBI, PROG. SEQ.) DUMP R. T

Byt	e		Descript	ion
F0. 42. 3 0101 0 0000 0	000	EXCLUSIVE ALL DATA		PROG. SEQ.) DUMP 50H
Osss s		Seq. Data	Size	(NOTE 7-1)
Oddd d	ddd	Data		(NOTE 2.10)
1111 0	111	EOX		

Receives this message & data. and transmits Func=23 or Func=24 message. Receives Func=0F message, and transmits this message & data.

Transmits this message & data when DATA DUMP is executed.

(22) NODE CHANGE

R. '

(22) MUDE CHANG	E	K, I
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0100 1110	MODE CHANGE	4 E H
	0000 mmmm	Mode Data	(NOTE 11)
	0000 0000		
	1111 0111	EOX	

Receives this message & data, changes the Mode, and transmits Func=23 or Func=24. When the Mode is changed by SW. transmits this message & data.

(23) PARAMETER		CHANGE	
	Puto		Docc

_ By te	Description	
F0. 42. 3g. 2B	EXCLUSIVE HEADER	
0100 0001	PARAMETER CHANGE	41H
0000 Оррр	Parameter Page	(TABLE 6.7)
0000 Osss	Parameter Stage	(TABLE 6.7)
0000 Oppp	Parameter Position	(TABLE 6.7)
0000 0000	Value (LSB bit6-0)	(NOTE 12)
0000 0000	Value (MSB bitl3-7)	(NOTE 12)
1111 0111	EOX	

Receives this message & data, and transmits Func=23 or Func=24 message. Then the Parameter No. is changed by ST, transmits this message & data.

R. T

(A) DRUMMIE BARANDER ONLYGO

(24) DRUMKIT PA	RAMETER CHANGE			K,_T
Byte	De	escrip	tion	
F0. 42. 3g. 2B	EXCLUSIVE HEAD	DER	-	
0101 0011	DRUMKIT PARAME	ETER CI	HANGE	53H
0000 0000				
0000 000n	Drum Kit No.		(NOTE 13-1)
00ss ssss	Index No-		(NOTE 13-2)
0000 Oppp	Parameter No.			(TABLE 8)
0000 0000	Value	(LSB	bit6~0)	(NOTE 12)
0000 0000	Value	(MSB	bit13~7)	(NOTE 12)
1111 0111	EOX			

Receives this message & data, and transmits Func=23 or Func=24 message. When the Drumkit's Parameter No. is changed by SW. transmits this message & data.

25) ALL DRUE S	SOUND (PCM CARD)NAME	<u>l</u>
Byte	Description	
F0, 42, 3g, 2B	EXCLUSIVE HEADER	
0100 0111	ALL DRUM SOUND NAME	47H
0000 0000		
Onnn nnnn	Number of Drum Sound	(NOTE 14-1)
Oddd dddd	Data	(NOTE 14-2)
1111 0111	EOX	

Receives Func=1F message, and transmits this message & data or transmits Func=24 message.

(2	6)	ALL	YULT	ISOUND (PCM	CARD)NAME

(<u>26) ALL MULTIS</u>	OUND (PCM CARD)NAME	T_
Byte	Description	
F0, 42, 3g, 2B	EXCLUSIVE HEADER	
0100 0101	ALL MULTISOUND NAME	45H
0000 0000		
Onnn nnnn	Number of Multisound	(NOTE 15-1)
Oddd dddd	Data	(NOTE 15-2)
	1	
1111 0111	EOX	

Receivs Func=16 message, and transmits this message & data or transmits Punc=24 message.

27) MODE DATA		Ţ
Byte	Description	
FO. 42. 3g. 2B	EXCLUSIVE HEADER	
0100 0010	MODE DATA	42H
0000 mmmm	Mode Data	(NOTE 11)
0000 0000	İ	
00cc 00vv	Card Variation	(NOTE 16)
0000 01cc	PCM Memory Status	(NOTE 17)
1111 0111	EOX	

Receives Func=12 message, and transmits this message & data-

(28) MIDI IN DA	TA FORMAT ERROR	<u> </u>
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0010 0110	MIDI IN DATA FORMAT ERROR	26H
	1111 0111	EOX	

Transmits this message when there is an error in the MIDI IN message (ex. data length).

(29) DATA LOAD	COMPLETED	<u> </u>
	Byte	Description	
	F0. 42. 3g. 2B	EXCLUSIVE HEADER	
	0010 0011	DATA LOAD COMPLETED	23H
	1111 0111	EOX	

Transmits this message when DATA LOAD. PROCESSING have been completed.

(30) DATA LOAD	ERROR	T
- [Byte	Description	
- 1	F0. 42. 3g. 2	EXCLUSIVE HEADER	
- 1	0010 0100	DATA LOAD ERROR	24H
- 1	1111 0111	EOX	

Transmits this message when DATA LOAD, PROCESSING have not been completed (ex. protected).

(31) WRITE COMP	31) WRITE COMPLETED		
Byte	Description		
F0. 42. 3g. 2B	EXCLUSIVE HEADER		
0010 0001	WRITE COMPLETED	21H	
1111 0111	EOX		

Transmits this message when DATA WRITE MIDI has been completed.

(32) WRITE ERR	OR .	Т
Byte	Description	
F0. 42. 3g. 2B	EXCLUSIVE HEADER	
0010 0010	WRITE ERROR	22H
1111 0111	EOX	

Transmits this message when DATA WRITE MID! has not been completed.

```
NOTE 8 : GLOBAL DATA (IN INTERNAL MEMORY) DUMP FORMAT
 NOTE 1 : PROGRAM, COMBINATION BANK
                                                                                                                                                                                ( See TABLE 3 . NOTE 2 )
            bb=0 : Bank A
                                                                                                                  [Global Data (218vte)]
               1 : Bank B
                                                                                                                                          21=7x3+0 - 8x3 =24Byte
               2 : Bank C
                                                                                                        NOTE 9 : DRUMS DATA (IN INTERNAL MEMORY) DUMP FORMAT
                                                                                                                                                                                ( See TABLE 4 . NOTE 2 )
               3 : Bank D
                                                                                                                  [Drum Kit Data (7x60x2x2Byte)]
                                                                                                                                          1680Byte =7x240+0 → 8x240 =1920Byte
                                                                                                                                                                                                 ( 0, 6Sec )
NOTE 2 :
   DUMP DATA CONVERT n=0~
                                for NOTE 3. 4. 5. 6. 7-2. 7-3. 8. 9. 10. 14-2. 15-2
                                                                                                        NOTE 10: ALL DATA (GLOBAL DRUMS, COMBI, PROG. SEQ) DUMP FORMAT
                                                                                                                                                                                           ( See NOTE 2 )
                                                                                                                                                                                          ( See NOTE 8 )
                                                                                                                  [Global Data].
                                                                                                                  [Drums Data].
                                                                                                                                                                                          ( See NOTE 9 )
   DATA ( iset = 8bit x 7Byte )
                                                                                                                  [All Combination Parameter Data].
                                                                                                                                                                                          ( See NOTE 6 )
                                                                                                                  [All Program Parameter Data].
                                                                                                                                                                                          ( See NOTE 4 )
                                                                                                                                                                                    ( See NOTE 7-2,7-3 )
                                                                                                                  [All Sequence Data]
                                                                                                                      21+1680+25600+34400+3462+4x[Seq. Data Size]Byte = 7xC+D
          7n+0
                             7n+1
                                              7n+2
                                                     ··· 7n+5
                                                                              7n+6
                                                                                                                                                           → 8xC+(1+D)Byte
                                                                                                                                                                                       ( 23.9~94.1Sec )
   MIDI DATA ( 1set = 7bit x 8Byte )
                                                                                                        NOTE 11 : mmmm = 0 : COMBINATION
                                                                                                                                               3 : EDIT PROG.
                                                                                                                                                                    8:DISK
        b7b7b7b7b7b7b7
                                                                                                                         1 : EDIT COMBI
                                                                                                                                               4 : GLOBAL
                                                                                                                         2 : PROGRAM
                                                                                                                                               6 : SEQUENCER
                                                                                                        NOTE 12 : VALUE DATA FORMAT (Use at PARAMETER CHANGE, DRUM KIT PARAMETER CHANGE)
                      7n+0
    7n+6. 5. 4. 3. 2. 1. 0
                                     7n+1
                                                                     7n+6
                                                                                                                Bit15-13 of Value Data is the Sign Flag, and each bit has the same value
 NOTE 3 : PROGRAM PARAMETER (IN CURRENT BUFFER) DUMP FORMAT
                                                                        ( See TABLE 1 . NOTE 2 )
                  [Parameter No. 00], ...... [Parameter No. 171]
                                                                                                          Value Data
                             172Byte = 7x24+4 \rightarrow 8x24+(1+4) = 197Byte
 NOTE 4 : ALL PROGRAM PARAMETER (IN INTERNAL MEMORY) DUMP FORMAT
                                                                                  ( See NOTE 2 )
                  [Prog A 00 (172Byte)]. ....., [Prog. B 99 (172Byte)]
                             172x200Byte = 7x4914+2 \rightarrow 8x4914+(1+2) = 39315Byte
                                                                                  ( 12.6Sec )
                                                                                                          MIDI Data
 NOTE 5 : COMBINATION PARAMETER (IN CURRENT BUFFER) DUMP FORMAT
                                                                        ( See TABLE 2 . NOTE 2 )
                                                                                                        NOTE 13-1: n=0: Drums Kit1
                   [Parameter No. 00], ....., [Parameter No. 127]
                                                                                                                      1 : Drums Kit2
                              128Byte = 7x18+2 \rightarrow 8x18+(1+2) = 147Byte
                                                                                                        NOTE 13-2 : ss ssss : Index (=0~59)
 NOTE 6 : ALL COMBINATION PARAMETER (IN INTERNAL MEMORY) DUMP FORMAT
                                                                                   (See NOTE 2 )
                                                                                                        NOTE 14-1: NUMBER OF DRUMSOUND
                   [Combi. A 00 (128Byte)], ....., [Combi. B 99 (128Byte)]
                              128x200Byte = 7x3657+1 \rightarrow 8x3657+(1+1) = 29258Byte
                                                                                     ( 9. 4Sec )
                                                                                                                    nnn nnnn = 1 \sim 100
 NOTE 7: ALL SEQUENCE DATA (IN INTERNAL MEMORY) DUMP FORMAT
                                                                                                        NOTE 14-2: ALL DRUM SOUND (PCM CARD) NAME DATA FORMAT
                                                                                                                    [Drum Sound 1 Name (10Byte)], ....., [Drum Sound n Name (10Byte)]
      7-1: Sequence Data Size (2Byte)
                                              4Step/1Size
                                                                                                                    n : Drum Sound Number
           [Data Size (bit6~0)].
                                                                                                        NOTE 15-1: NUMBER OF MULTISOUND
           [Data Size (bit13~7)]
                                                                                                                    nnn nnnn = 1 ~ 100
      7-2: Control Data Dump Format (3462Byte)
                                                                     ( See TABLE 5-1 , NOTE 2 )
                                                                                                        NOTE 15-2: ALL MULTISOUND (PCM CARD) NAME DATA FORMAT
                                  (Song Size(272) x 10 = 2720Byte)].
           [Control Data
                                                                                                                    [Multisound 1 Name (10Byte)], ...... [Multisound n Name (10Byte)]
           [Pattern Data
                                                         (200Byte)].
                                                                                                                    n : Multisound Number
           [SongO-Tr. 1 Addr (2Byte)]. .... [SongO-Tr. 16 Addr], [SongO-Tempo Track Addr].
                   [Song1-Tr. 1 Addr], ..., [Song9-Tr. 16 Addr], [Song9-Tempo Track Addr] (340Byte),
                                                                                                        NOTE 16 :cc. vv = 0.0 : Card Off
           [PatternO Addr (2Byte)], ...... [Pattern99 Addr] (200Byte),
                                                                                                                       = 0.1 : NG Card (ROM)
           [Pattern End Addr
                                                                                                                       = 0.2 : - - (RAM)
                                                                                                                   cc = 1 : ROM Card
                                                                                                                                                        vv : bit0...Bank C. bit1...Bank D
      7-3 : Sequence Data Dump Format
                                                                      ( See TABLE 5-2 . NOTE 2 )
                                                                                                                       = 2 : RAM Card (Protect Off)
                                                                                                                                                             = 0 : Prog/Combi Data
           [Sequence 1st Data(4Byte)], ....., [Seq. nth Data]
                                                                                                                       = 3 : - - ( - On )
                                                                                                                                                             = 1 : Seo Data
            n : Seq. Data Size = 0 ~ 48000
                                                                                                        NOTE 17 : cc = 0 : Card Off
            3462Byte+4x[Seq. Data Size]Byte = 7xA+B → 8xA+(1+B)Byte
                                                                                                                       = 1 : NG Card
                             \therefore 7-1.7-2.7-3 = 2+8xA+(1+B)Byte (1.1~71.5Sec)
                                                                                                                       = 2 : PCM Card In
```

FREQ MOD BY AT+JS

00~09: 0~9

143~171

BLE 1)		
	DF-1	······································
50	CUTOFF VALUE	00~63: 00~99
51	KBD TRACK KEY	00∼7F : C-1∼G9
52	CUTOFF KBD TRACK	9D~83 : -99~99
53		
_	EG INTENSITY	
54	EG TIME KBD TRACK	00~63: 00~99
55	EG TIME VEL. SENSE	00~63: 00~99
56	EG INT. VEL. SENSE	9D∼63 : -99∼99
_	DF-1 EG	
57	ATTACK TIME	00~63: 00~99
58	ATTACK LEVEL	9D∼63 : -99∼99
59	DECAY TIME	00~63: 00~99
60	BREAK POINT	9D∼63 : -99∼99
61	SLOPE TIME	00~63: 00~99
62	SUSTAIN LEVEL	9D~63 : -99~99
63	RELEASE TIME	00~63: 00~99
64	RELEASE LEVEL	9D~63 : -99~99
V	DA-1	
65	OSCILLATOR LEVEL	00~63: 00~99
66	KBD TRACK KEY	00~7F : C-1~G9
67	AMP. KBD TRACK INT.	9D~63 : -99~99
68	AMP. VELOCITY SENSE	9D~63 : -99~99
69	EG TIME KBD TRACK	00~63: 00~99
70	EG TIME VEL SENSE	00~63: 00~99
	DA-1 EG	00,003 . 00,033
71		00~63: 00~99
_	ATTACK TIME	
72	ATTACK LEVEL	00~63: 00~99
73	DECAY TIME	00~63: 00~99
74	BREAK POINT	00~63: 00~99
75	SLOPE TIME	00~63: 00~99
76	SUSTAIN LEVEL	00~63: 00~99
77	RELEASE TIME	00~63: 00~99
	C-1 EG TIME KBD TRACK.	VEL. SW & POLARITY
78	F. EG TIME K. T SWAPOL	bit0~7 *3
79	F. EG TIME VEL. SWAPOL	bit0~7 *3
80	A. EG TIME K. T SWAPOL	bit0~7 *3
81	A. EG TIME VEL. SWAPOL	bit0~7 *3
1	FAVE SHAPING-1	
-	TABLE NO.	bit0~5: 00~59
82	ON/OFF	bit7=0:0N.=1:0FF
83	EG START LEVEL	00~63: 00~99
84	EG DECAY TIME	00~63: 00~99
85	EG SUSTAIN LEVEL	00~63: 00~99
86	VELOCITY SENSE	9D~63 : -99~99
	EMPHASIS-1	
87	INTENSITY	00~63 : 00~99
	VELOCITY SENSE	9D~63 : -99~99
88		
	VDF-1, VDA-1 KBD TRACK	
	F-1. A-1 KBD TRACK NO	DE *4
	OSC-1 PAN	T
90	PAN	00~0E * 5
	OSC-2 PARAMETER	
91~	141 SAME AS OSC-10	
142	(NULL)	00
	EFFECT PARAMETER	
140	171	416

COMBINATION PARAMETER (TABLE2)

No.	PARAMETER	DATA(Hex) : VALUE	No.	PARAMETER	DATA(Hex) : VALUE				
COMBINATION CONTROLLER				GLOBAL PARAMETER					
00	COMBI. NAME (Head)	20~7F : ' '~' ←'	00	MASTER TUNE	CE~32 : -50~50				
			01	KEY TRANSPOSE	F4∼0C : -12∼12				
09	COMBI. NAME (Tail)		02	DAMPER POLARITY	00 : T⊾ . 01 : _f				
10	(NULL)	00	03	ASSIGNABLE PEDAL 1	00∼0B * 8				
E	FFECT PARAMETER		04	ASSIGNABLE PEDAL 2	00∼0B * 8				
11			05	SCALE TYPE	00~04 *9				
		*15	06	PURE TYPE KEY	00~0B : C~B				
39			07	USER SCALE	CE∼32 : -50∼50				
T	IMBRE I PARAMETER								
40	PROGRAM NO.	*6	18						
41	OUTPUT LEVEL	00∼7F : 00∼127	19	VELOCITY CURVE	0~7 : 1~8				
42	TRANSPOSE	E8~18 : -24~24	20	AFTER TOUCH CURVE	0~7 : 1~8				
43	DETUNE	CE~32 : -50~50		DRUMS PARAMI	ETER (TABLE4)				
44	PAN	00∼0F * 5		ORUM KIT A:1-INDEX#O					
45	KEY WINDOW TOP	00∼7F : C-1∼G9	00	INST NO 00:0FF.0	1~77: INT. 78~: CARD				
46	KEY WINDOW BOTTOM	00∼7F : C-1∼G9	01	KEY	0C∼73 : C0∼G8				
47	VEL. WINDOW TOP	01~7F : 01~127	02	PAN	*10				
48	VEL. WINDOW BOTTOM	01~7F : 01~127	03	TUNE	88~78: -120~120				
49	CONTROL FILTER	bit0~3 *7	04	LEVEL	CE~32 : -50~50				
	MIDI CHANNEL	bit0~3 : 1~16	05	DECAY	CE~32 : -50~50				
50	TIMBRE MODE	bit4=0:0N. =1:0FF	06	(NUL)	00				
	HEDRO HODE	bit5=0:INT, =1:EXT		ORUM KIT A:1-INDEX#1 ~					
T	IMBRE 2~8 PARAMETER		07	SAME AS DRUM KIT A:	1-#0(00~06)				
51	SAME AS TIMBRE 10	40∼50) x 7			x(60x2x2-1)				

*1 : 0 : SINGLE *2 : 0 : TRIANGLE 1 : DOUBLE 1 : UP SAW 2 : DRUMS 2 : DOWN SAW 3 : RECTANGLE 4 : RANDOM

*3 : bit0 : ATTACK TIME SW =0:0FF. =1:0N bit1 : DECAY TIME bit2 : SLOPE TIME

bit3 : RELEASE TIME bit4 : ATTACK TIME POLARITY =0:+. =1:bit5 : DECAY TIME

OF PRG

bit8 : SLOPE TIME bit7 : RELEASE TIME

127

*15

A B *****5 : 00 : 10:00 *4 : bit0, 1 ... VDF bit4.5 ··· VDA 0 : OFF OA : 00:10 1 : LOW 0B : C 2 : HIGH OC : C+D OD : D 3 : ALL OE : ALL

*6 00~63 : Bank A00~A99 or C00~C99 64~C7 : Bank B00~B99 or D00~D99

*7 : bit0 : PROGRAM CHANGE =0:DIS. =1:ENA

GLOBAL PARAMETER (TABLES)

bitl : DAMPER bit2 : AFTER TOUCH bit3 : CONTROL CHANGE

*8 : 0 : OFF

1679

1 : PROGRAM(COMBINATION) UP 2: -DOWN

3 : SEQUENCER START/STOP 4 : SEQUENCER PUNCH IN/OUT

5 : EFFECT 1 ON/OFF 6: - 2 -7 : VOLUME

8 : VDF CUTOFF 9 : EFFECT CONTROL A : DATA ENTRY

*9 : 0 : EQUAL TEMP 1 : EQUAL TEMP 2 2 : PURE MAJOR 3 : PURE MINOR 4 : USER PROGRAM

	WO PHOEK CON	ITROL DATA
No.	PARAMETER	DATA(Hex) : VALUE
S	ONG O CONTROL DATA	
00	WID1 Channel (Tr. 1)	00~0F : 1~16
15	WiDi Channel (Tr. 16)	
16	STATUS (Tr. 1)	*11
31	STATUS (Tr. 16)	
32 33	BEAT TEMPO	*12
33	PROTECT (Tr. 1)	28~F0 : 40~240 bit0=0:0FF, =1:0N
34	1401201 (11.17	:
34	PROTECT (Tr. 8)	bit7
	PROTECT (Tr. 9)	bit0=0:0FF. =1:0N
35	1 101201	1 0110-0.0111.00
00	PROTECT (Tr. 16)	bit7
36	NEXT SONG NO.	*13
37	SONG NAME (Head)	20~7F: '~'~'
	inab (nead)	20 311
: 46	SONG NAME (Tail)	
47	(NUL)	00
48	EFFECT PARAMETER	
		*15
76		***
	RACE 1 CONTROL DATA	
77	PROGRAM NO.	*6
78	OUTPUT LEVEL	00~7F : 00~127
79	REY TRANSPOSE	E8~18 : -24~24
80	DETUNE	CE~32 : -50~50
81	PAN	00~0F * 5
82	KEY WINDOW TOP	00~7F : C-1~69
83	KEY WINDOW BOTTOM	00∼7F : C-1∼69
84	VEL WINDOW TOP	A1 7D . A1 107
	100 X1000 101	01~7F : 01~127
85	VEL VINDOV BOTTON	$01 \sim 7F : 01 \sim 127$ $01 \sim 7F : 01 \sim 127$
86	VEL WINDOW BOTTOM CONTROL FILTER	01~7F : 01~127 *7
	VEL VINDOV BOTTON	01~7F : 01~127
86 87	VEL VINDOV BOTTON CONTROL FILTER MIDI CHANNEL TRACK 2~16 CONTROL DAT	01~7F: 01~127 *7 00~0F: 1~16
86 87	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88	VEL VINDOV BOTTON CONTROL FILTER MIDI CHANNEL TRACK 2~16 CONTROL DAT	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88 : 252	VEL VINDOV BOTTOM CONTROL FILTER HIDI CHANNEL TRACK 2~16 CONTROL DAT SAME AS TRACK 1(77~	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88	VEL VINDOV BOTTON CONTROL FILTER MIDI CHANNEL TRACK 2~16 CONTROL DAT	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88 : 252 253	VEL VINDOV BOTTOM CONTROL FILTER HIDI CHANNEL TRACK 2~16 CONTROL DAT SAME AS TRACK 1(77~	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88 252 253	VEL VINDOV BOTTOM CONTROL FILTER HIDI CHANNEL TRACK 2~16 CONTROL DAT SAME AS TRACK 1(77~	01~7F: 01~127 *7 00~0F: 1~16
86 87 1 88 252 253 258	VEL VINDOV BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~	01~7F: 01~127 *7 00~0F: 1~16 *A *87) x 15
86 87 1 88 252 253 258 258	VEL VINDOV BOTTON CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL	01~7F : 01~127 \$7 00~0F : 1~16 A -87) x 15
88 87 88 252 253 258 259 260	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN	01~7F: 01~127 *7 00~0F: 1~16 7A 87) x 15 00~63: 0~99 00~0D *5
88 87 1 88 252 253 258 259 260 261	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN METRONOME LEAD IN	01~7F : 01~127 *7 00~0F : 1~16 A 87) x 15 00~63 : 0~99 00~0D *5 0~2
86 87 1 88 252 253 258 259 260 261 262	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACE 2~16 CONTROL DAT SAME AS TRACE 1(77~ (NUL) WETRONOME LEVEL WETRONOME PAN WETRONOME LEAD IN TEMPO TRACE ON/OFF	01~7F: 01~127 *7 00~0F: 1~16 7A 87) x 15 00~63: 0~99 00~0D *5
88 87 1 88 252 253 258 259 260 261 262 263	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN METRONOME LEAD IN	01~7F : 01~127 *7 00~0F : 1~16 A 87) x 15 00~63 : 0~99 00~0D *5 0~2
88 87 1 88 252 253 258 259 260 261 262 263	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACE 2~16 CONTROL DAT SAME AS TRACE 1(77~ (NUL) WETRONOME LEVEL WETRONOME PAN WETRONOME LEAD IN TEMPO TRACE ON/OFF	01~7F : 01~127 *7 00~0F : 1~16 A 87) x 15 00~63 : 0~99 00~0D *5 0~2
86 87 1 88 252 253 259 260 261 262 263	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN METRONOME LEAD IN TEMPO TRACK ON/OFF (NUL)	01~7F : 01~127 *7 00~0F : 1~16 7A 87) x 15 00~63 : 0~99 00~0D *5 0~2 0:0FF. 1:0N
86 87 1 88 252 253 258 259 260 261 262 263 271	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN METRONOME LEAD IN TEMPO TRACK ON/OFF (NUL) CONG 1~9 CONTROL DATA	01~7F: 01~127 *7 00~0F: 1~16 A 87) x 15 00~63: 0~99 00~0D *5 0~2 0:0FF. 1:0N
86 87 1 88 252 253 258 259 260 261 262 263	VEL WINDOW BOTTOM CONTROL FILTER MIDI CHANNEL RACK 2~16 CONTROL DAT SAME AS TRACK 1(77~ (NUL) METRONOME LEVEL METRONOME PAN METRONOME LEAD IN TEMPO TRACK ON/OFF (NUL)	01~7F: 01~127 *7 00~0F: 1~16 A 87) x 15 00~63: 0~99 00~0D *5 0~2 0:0FF. 1:0N

TTERN O CONTROL DATA BEAT	*12
	* 12
LEMORE	
LENGTH	01~63 : 1~99
TTERN 1~99 CONTROL D	ATA
SAME AS PATTERN 0(27	20. 2721) x 99
•	
NGO-TRACKI DATA ADDRE	SS
DATA ADDRESS(LSB)	
(MSB)	0000 (Start Addr)
	DATA ADDRESS
SAME AS SONGO-TRACKI	
	x 15
NGO TEMPO TRACK DATA	ADDRESS
	NO BOO
	Prec
SAME AS SOURCE TAKE	
	х 9
TTERN O DATA ADDRESS	
DATA ADDRESS (LSB)	, , , , , , , , , , , , , , , , , , , ,
(MSB)	1
TTERN 1 ~ PATTERN 99	DATA ADDRESS
SAME AS PATTERN 0(32	80, 3261)
End Pattern Addr(L)	
	ATA (TABLE 5-2)
PARAMETER	DATA(Hex) : VALUE
	DRIM(MCZ) · TADOD
	*14
	*14
DATA (2-L)	*14
DATA (2-H) QUENCE DATA 2 ~	*14
	NGO-TRACKI DATA ADDRE DATA ADDRESS(LSB) - (MSB) NGO-TRACK2 ~ TRACKIG SAME AS SONGO-TRACKI NGO TEMPO TRACK DATA DATA ADDRESS (LSB) - (MSB) NGI~9 TRACK DATA ADD SAME AS SONGO TRACK TTERN O DATA ADDRESS DATA ADDRESS (LSB) - (MSB) TTERN I ~ (MSB)

```
*10 : bit0 \sim 3 = 00 : 10:00
               1 1 1
              0A: 00:10
               0B : C
              OC : C+D
              0D : D
               OE : ALL
               OF : PRG
     bit4\sim7 = 0 : EX Off
              1 : EX Groupl
               9 : EX Group9
* 11 : bit0.1= 0 : OFF
             1 : INT
             2 : EXT
             3 : BOTH
      bit2 = 0 : Play. = 1: Mute
* 12 : bit0\sim5 10\sim18 : 1/4 \sim 9/4
              20~2F: 1/8 ~ 16/8
              30~3F : 1/16 ~ 16/16
      bit7 = 0 : High Resolution
             1 : Low Resolution
*13 : bit0 \sim 3 = 0 : Song0
                9 : Song9
```

```
* 14 : SEQUENCE DATA FORMAT
    DATA(1-H) DATA(1-L) DATA(2-H) DATA(2-L)
                          1 1
  *14-1 NOTE ON/OFF
  lyvy yvy t tttt tttt kkkk kkk g gggg gggg
  Velocity Event Time Key No.
     t =30 : J. t =1FE : Tie from Last Bar
      g = 30 : J. g = 1FE : Tie to Next Bar
 *14-2 PITCH BEND
  0001 000 t tttt tttt 0 vvv vvvv 0 vvv vvvv
                          Value(H) Value(L)
            Event Time
  ★14-3 AFTER TOUCH
                        0000 0000 0 vvv vvvv
  0010 000 t | tttt tttt
                                    Value
            Event Time
  *14-4 PROGRAM CHANGE
  0011 000 t tttt tttt 0000 00bb Oppp pppp
            Event Time
                              Bank Program No.
       p=00~C7:00~99
  *14-5 CONTROL CHANGE
  0100 000 t tttt tttt
                       OVVV VVVV OCCC CCCC
                          Value Control No.
            Event Time
   c=00\sim65 : Same as WIDI Control Change
    = 66 : Assignable Pedal
  *14-6 POLY KEY PRESSURE
  0101 000 t tttt tttt 0 vvv vvvv 0 kkk kkkk
                          Value
                                     Key No.
            Event Time
  *14-7 BAR
  0110 00bb | bbbb bbbb | xx ss ssss | Oppp pppp
                           Beat Pattern No.
            Bar No. Type
   xx= 00 : Don't use Pattern
     = 10 : Pattern continual
     = 11 : Pattern Start
    s = 10 \sim 18 : 1/4 \sim 9/4
     = 20 \sim 2F : 1/8 \sim 16/8
     = 30~3F :1/16~16/16
   *14-8 TRACK END
  Last Bar No.
            Event Time
```

#15 EF	FECT PARAMETER				
No.	PARAMETER	DATA(Hex) : VALUE	13:St	ereo Delay. 14:Cross D	elay
(00)		0.1~2F:0FF.1~47	(00)	Delay Time L (L)	00~1F4 : 00~500
(01)	2	0.1~2F:0FF.1~47	(02)	(H)	00-00 - 00-00
(02)	- 1 L-Ch E. Balnc	00~64 : 00~100			9D~63 : -99~99
(03)	- 1 R-Ch -	00~64 : 00~100	(03)	High Damp	00~63: 00~99
(04)	- 2 L-Ch -	00~64: 00~100	(04)	Delay Time R (L)	00~1F4; 00~500
(05)	<u> </u>	00~64: 00~100	(06)	EQ High	F4~0C: -12~12
(06)	Output 3 Pan	00.01~65 *15-1	(07)	EQ Low	F4~0C : -12~12
(07)	- 4 -	00.01~65 *15-1		al Delay	11 00 1 12 12
(80)	Effect I/0	bit5~0 *15-2		Delay Time L (L)	
(09)	Effect 1 Parameter		(01)	(H)	00~1F4: 00~500
		*15-3	(02)	Feed Back L	9D~63 : -99~99
(18)			(03)	High Damp L	00~63: 00~99
(17)	Effect 1 Mod Source	00~0D *15-4	(04)	Delay Time R (L)	00.003 . 00.039
(18)	Effect 1 Mod Amount	F1~0F: -15~15	(05)	(H)	00~1F4: 00~500
(19)	Effect 2 Parameter	* 15-3	(06)	Feed Back R	9D~63 : -99~99
(26)		+13-3	(07)	High Damp R	00~63: 00~99
(27)	Effect 2 Nod Source	00~0D *15-4	16~1	B: Multi Tap Delay 1.2.	3
(28)			(00)	Delay Time 1(L)	
	Effect 2 Mod Amount 00 : Off *15-2 :	F1~0F: -13~15	(01)	(H)	00~1F4: 00~500
-13-1 .		Efctl L-Ch Off, =1:On	(02)	Delay Time 2(L)	00 - 174 - 00 - 500
		- 1 R-Ch Off. =1:0n	(03)	(H)	00~1F4: 00~500
			(04)	Feed back	9D~63 : -99~99
		- 2 L-Ch Off, =1:0n - 2 R-Ch Off, =1:0n	(06)	EQ Low	F4~0C: -12~12
			(07)	EQ High	F4~0C: -12~12
		0:Serial 1:Parallel 2:Parallel2	19. 20	Stereo Chorus 1.2	
ME-9 .			(00)	Mod Depth	00~63 : 00~99
offse	Effect Parameter (8By t PARAMETER		(01)	Mod Speed	00~D8 *15-3-2
	Hall. (4.5:Room. 6:L	DATA(Hex): VALUE			bit0=0:Sin. =1:Tri
(00)		1(2F):0.2~9.9(4.9)	(02)	MG Status *15-3-3	bitl ← l
(01)	(NUL)	00			_bit2 ← 0
(02)	High Damp	00~63: 00~99	(04)	Delay Time	00~C8: 00~200
(03)	Pre Delay	00~C8 : 00~200	(06)	EQ High	F4~0C: -12~12
(04)	E. R Level	00~63 : 00~99	(07)	EQ Low	F4~0C: -12~12
(05)	(NUL)	00	21 : Qu	adrature Chorus, 22:X	Over Chorus
(08)		F4~0C : -12~12	(00)	Delay Time L	00~FA: 00~250
(07)	EQ Low	F4~0C: -12~12	(01)	Delay Time R	00~FA: 00~250
	display NUL from here.		(02)	Mod Speed	01~63: 01~99
	Plate. 8:Dry Plate. 9		(03)	Mod Depth	00~63: 00~99
(00)	Pre Delay(L)		(04)	Nod Vaveform	EB~14 *15-3-4
			(00)		F4~0C : -12~12
		00~C8 : 00~200	(06)	EQ Low	F47-00127-12
(01)	(H)		(07)	EQ Low EQ High	F4~0C: -12~12
(01)	(H) E.R. Level	01~0A: 01~10	(07)	EQ High rmonic Chorus	
(01) (02) (03)	(H) E-R Level Reverb Time	01~0A : 01~10 00~63 : 00~99	(07)	EQ High rmonic Chorus	F4∼0C : -12∼12
(01) (02) (03) (04)	(H) E.R Level Reverb Time High Damp	01~0A: 01~10 00~63: 00~99 00~63: 00~99	(07) 23:Ha	EQ High rmonic Chorus	
(01) (02) (03) (04) (06)	- (H) E.R Level Reverb Time High Damp EQ Low	01~0A: 01~10 00~63: 00~99 00~63: 00~99 F4~0C: -12~12	(07) 23:Ha (00) (01) (02)	EQ High rmonic Chorus Delay Time L (L) - (H) Delay Time R (L)	F4~0C: -12~12 00~1F4: 00~500
(01) (02) (03) (04) (06) (07)	- (H) E.R Level Reverb Time High Damp EQ Low EQ High	01~0A: 01~10 00~63: 00~99 00~63: 00~99 F4~0C: -12~12 F4~0C: -12~12	(07) 23:Ha (00) (01)	EQ High rmonic Chorus Delay Time L (L) (H) Delay Time R (L) (H)	F4∼0C : -12∼12
(01) (02) (03) (04) (06) (07) 10~12	- (H) E.R Level Reverb Time High Damp EQ Low EQ High :Early Reflection 1.2.	01~0A: 01~10 00~63: 00~99 00~63: 00~99 F4~0C: -12~12 F4~0C: -12~12	(07) 23:Ha (00) (01) (02)	EQ High rmonic Chorus Delay Time L (L) - (H) Delay Time R (L)	F4~0C: -12~12 00~1F4: 00~500
(01) (02) (03) (04) (06) (07) 10~12 (00)	- (H) E. R Level Reverb Time High Damp EQ Low EQ High :Early Reflection 1.2. E. R Time	01~0A: 01~10 00~63: 00~99 00~63: 00~99 P4~0C: -12~12 F4~0C: -12~12 3 00~46: 100~800	(07) 23:Ha (00) (01) (02) (03)	EQ High rmonic Chorus Delay Time L (L) (H) Delay Time R (L) (H)	F4~0C: -12~12 00~1F4: 00~500 00~1F4: 00~500
(01) (02) (03) (04) (06) (07) 10~12 (00) (01)	- (H) E. R Level Reverb Time High Damp EQ Low EQ High :Early Reflection 1.2. E. R Time Pre Delay	01~0A: 01~10 00~63: 00~99 00~63: 00~99 F4~0C: -12~12 F4~0C: -12~12 3 00~46: 100~800 00~C8: 00~200	(07) 23:Ha (00) (01) (02) (03) (04)	EQ High rmonic Chorus Delay Time L (L) (H) Delay Time R (L) (H) Mod Speed	F4~0C: -12~12 00~1F4: 00~500 00~1F4: 00~500 01~63: 01~99
(01) (02) (03) (04) (06) (07) 10~12 (00)	- (H) E. R Level Reverb Time High Damp EQ Low EQ High :Early Reflection 1.2. E. R Time	01~0A: 01~10 00~63: 00~99 00~63: 00~99 P4~0C: -12~12 F4~0C: -12~12 3 00~46: 100~800	(07) 23:Ha (00) (01) (02) (03) (04) (05) (08)	EQ High rmonic Chorus Delay Time L (L) (H) Delay Time R (L) (H) Nod Speed Nod Depth	F4~0C: -12~12 00~1F4: 00~500 00~1F4: 00~500 01~63: 01~99 00~63: 00~99

(07) EQ Low

EQ High

F4~0C : -12~12

F4~0C : -12~12

25, 26	:Flanger1.2. 27:X Over	Flanger
(00)	Delay Time	00~C8 : 00~200
(01)	Nod Depth	00~63 : 00~99
(02)	Nod Speed	01~63 : 01~99
(03)	Resonance	9D~63 : -99~99
(06)	EQ Low	F4~0C : -12~12
(07)	EQ High	F4~0C : -12~12
28: Ex	citer	
(00)	Blend	9D~63 : -99~99
(01)	Emphatic Point	00~09: 01~10
(08)	EQ High	F4~0C : -12~12
(07)	EQ Low	F4~0C: -12~12
	hancer	
(00)	Harmonic Density	01~63 : 01~99
(01)	Hot Spot	01~14: 01~20
(02)	Stereo Vidth	00~63 : 00~99
(03)	Delay	
(06)	EQ Low	01~63 : 01~99 F4~0C : -12~12
(07)	EQ High	
	stortion, 31:Over Driv	F4~0C : -12~12
(00)		
(01)	Drive (Edge)	
(02)	Hot Spot	00~63: 00~99
	Resonance	00~63: 00~99
(03)	Out Level	00~63 : 00~99
(08)	EQ Low	F4~0C : -12~12
(07)	EQ High	F4~0C: -12~12
	:Phaser 1, (2)	
(00)		00~63 : 01~99
	Mod Depth	
(01)	Mod Speed	00~D8: *15-3-2
(01)	Mod Speed	00~D8: *15-3-2 bit0=0:Sin, =1:Tri
		00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1,(0)
(01)	Wod Speed WG Status *15-3-3	00~08: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1,(0) bit2 ← 0
(01) (02) (03)	Wod Speed WG Status #15-3-3 Feedback	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1,(0) bit2 ← 0 9D~63: -99~99
(01) (02) (03) (04)	Wod Speed WG Status *15-3-3 Feedback Manual	00~08: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1,(0) bit2 ← 0
(01) (02) (03) (04) 34: Ro	Nod Speed NG Status *15-3-3 Feedback Manual tary Speaker	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1,(0) bit2 ← 0 9D~63: -99~99 00~63: 00~99
(01) (02) (03) (04) 34:Ro (00)	Nod Speed NG Status *15-3-3 Feedback Nanual tary Speaker Vibrato Depth	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1,(0) bit2 ← 0 9D~63: -99~99 00~63: 00~99
(01) (02) (03) (04) 34:Ro (00) (01)	Wod Speed WG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1, (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 00~15 01~0F: 01~15
(01) (02) (03) (04) 34:Ro (00) (01) (02)	Wod Speed WG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1, (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 00~15 01~0F: 01~15 01~63: 01~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1, (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 00~15 01~0F: 01~15
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo)	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ~ 1.(0) bit2 ~ 0 9D~63: -99~99 00~63: 00~99 00~0F: 00~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1, (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 00~15 01~0F: 01~15 01~63: 01~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo)	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 00~99 00~63: 00~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au (00)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 00~99 00~63: 00~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au (00)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 00~99 00~08: *15-3-2 bit0=0:Sin. =1:Tri
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au (00) (01)	Wod Speed WG Status *15-3-3 Feedback Wanual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 00~99 00~63: 00~99
(01) (02) (03) (04) 34:Ro (00) (01) (02) (03) 35:Au (00) (01)	Wod Speed WG Status *15-3-3 Feedback Wanual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 00~99 00~08: *15-3-2 bit0=0:Sin. =1:Tri
(01) (02) (03) (04) 34: Bo (00) (01) (02) (03) 35: Au (00) (01)	Wod Speed WG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed WG Status *15-3-3	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 — 1. (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 — 1. (0) bit2 — 0 9D~63: -99~99
(01) (02) (03) (04) 34: Bo (00) (01) (02) (03) 35: Au (00) (01)	Wod Speed WG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed WG Status *15-3-3 Shape	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 — 1. (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri blt1 — 1. (0) bit2 — 0 9D~63: -99~99
(01) (02) (03) (04) (06) (01) (02) (03) (03) (04) (05) (05) (06) (07)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High	00~08: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1.(0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~63: 01~99 01~63: 01~99 00~63: 01~99 00~08: *15-3-2 bit0=0:Sin, =1:Tri bit1 — 1.(0) bit2 — 0 9D~63: -99~99 F4~0C: -12~12
(01) (02) (03) (04) (06) (01) (02) (03) (03) (04) (05) (05) (06) (07)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High EQ Low rametric EQ	00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin, =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12
(01) (02) (03) (04) 34: Ro (00) (01) (02) (03) (06) (07) 37: Pa (00)	Wod Speed WG Status *15-3-3 Feedback Wanual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed WG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12 F4~0C: -12~12
(01) (02) (03) (04) 34: Ro (00) (01) (02) (03) (01) (02) (03) (08) (07) 37: Pa (00) (01)	Wod Speed WG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed WG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq Low Gain	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~083: 00~99 00~08 : *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12 00~1D: 00~29 F4~0C: -12~12
(01) (02) (03) (04) 34: Ro (00) (01) (02) (03) (06) (07) (08) (07) 37: Pa (00) (01) (02)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq Low Gain Mid Freq	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12 F4~0C: -12~12
(01) (02) (03) (04) 34: Ro (00) (01) (02) (03) (06) (07) 37: Pa (00) (01) (02) (03)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq Low Freq Low Gain Mid Freq Mid Gain	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12 00~1D: 00~29 F4~0C: -12~12
(01) (02) (03) (04) 34: Bo (00) (01) (02) (03) (08) (07) 37: Pa (00) (01) (02) (03) (04)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (38:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq Low Freq Low Gain Mid Freq Mid Gain Mid Vidth	00~08: *15-3-2 bit0=0:Sin. =1:Tri bit1 — 1. (0) bit2 — 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~08: *15-3-2 bit0=0:Sin. =1:Tri bit1 — 1. (0) bit2 — 0 9D~63: -99~99 F4~0C: -12~12 00~1D: 00~29 F4~0C: -12~12 00~63: 00~99 F4~0C: -12~12
(01) (02) (03) (04) 34: Ro (00) (01) (02) (03) (06) (07) 37: Pa (00) (01) (02) (03)	Mod Speed MG Status *15-3-3 Feedback Manual tary Speaker Vibrato Depth Acceleration Slow Speed Fast Speed to Pan. (36:Tremolo) Depth Speed MG Status *15-3-3 Shape EQ High EQ Low rametric EQ Low Freq Low Freq Low Gain Mid Freq Mid Gain	00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 00~63: 00~99 00~0F: 01~15 01~0F: 01~15 01~63: 01~99 01~63: 01~99 00~D8: *15-3-2 bit0=0:Sin. =1:Tri bit1 ← 1, (0) bit2 ← 0 9D~63: -99~99 F4~0C: -12~12 00~1D: 00~29 F4~0C: -12~12

38.04	orus-Dalov 30.Flancor	-Dalay
(00)	orus-Delay, 39:Flanger Delay Time	00~32 : 00~50
(01)	Mod Speed	
(02)	Nod Depth	01~63 : 01~99 00~63 : 00~99
(03)	Feed back	
(04)	Delay Time	
(05)	Feed back	
		9D∼63 : -99∼99
(00)	lay / Hall	
(10)	Delay Time (L) Delay Time (H)	00~1F4 : 00~500
(02)	Feed Back	9D~63 : -99~99
(03)	High Damp	00~63: 00~99
(04)	Reverb Time	00~61 : 0.2~9.9
(06)	High Damp	00~63 : 00~99
(07)	Pre Delay	00~96: 00~150
	lay / Room	00 00 100
(00)	Delay Parameter	*15-3-1
	2010, 141420101	*
(03)		İ
(04)	Reverb Time	00~2F : 0.2~4.9
(08)	High Damp	00~63 : 00~99
(07)	Pre Delay	00~96: 00~150
	lay / Chorus. (43:Del	
(00)	Delay Parameter	*15-3-1
```	boldy latameter	413 0 1
(03)		
(04)	Depth	00~63 : 00~99
(05)		
		00~08 ±15-3-9
(03)	Speed	00~D8 *15-3-2
	b	it0=0:S. =1:T (←0)
(06)		it0=0:S. =1:T (←0)
(06)	MG Status *15-3-3	it0=0:S, =1:T (←0) bit1 ← 0 bit2 ← 0, (←1)
(06)	MG Status *15-3-3	
(06) (07) 44: De	MG Status #15-3-3  Feed Back lay / Distortion, 45:D	it0=0:S.=1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) elay / Over Drive
(06) (07) 44: De (00)	b MG Status #15-3-3  Feed Back lay / Distortion, 45:D  Delay Time (L)	
(06) (07) 44:De (00) (01)	MG Status *15-3-3  Feed Back lay / Distortion, 45:D Delay Time (L) - (H)	it 0=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) elay / Over Drive $00\sim1F4: 00\sim500$
(06) (07) 44:De (00) (01) (02)	Feed Back lay / Distortion, 45:D Delay Time (L) - (H) Feed back	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) lelay / Over Drive 00~1F4: 00~500 9D~63: -99~99
(06) (07) 44:De (00) (01) (02) (03)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive	itd=0:S.=1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0.(9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111
(06) (07) 44: De (00) (01) (02) (03) (04)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot	it 0=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) lelay / Over Drive $00\sim1F4$ : $00\sim500$ $90\sim63$ : $-99\sim99$ $01\sim6F$ : $01\sim111$ $01\sim63$ : $01\sim99$
(06) (07) 44: De (00) (01) (02) (03) (04) (05)	Feed Back lay / Distortion, 45:D Delay Time (L) Feed back Drive Hot Spot Resonance	it 0=0:S.=1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) elay / Over Drive $00\sim1F4: 00\sim500$ $90\sim63: -99\sim99$ $01\sim6F: 01\sim111$ $01\sim63: 01\sim99$ $00\sim63: 00\sim99$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06)	Feed Back lay / Distortion, 45:D Delay Time (L) Feed back Drive Hot Spot Resonance Out Level	it 0=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) lelay / Over Drive $00\sim1F4$ : $00\sim500$ $90\sim63$ : $-99\sim99$ $01\sim6F$ : $01\sim111$ $01\sim63$ : $01\sim99$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De	Feed Back lay / Distortion, 45:D Delay Time (L) Feed back Drive Hot Spot Resonance Out Level lay / Phaser	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (9D~63:-99~99) elay / Over Drive $00\sim1F4: 00\sim500$ $9D\sim63: -99\sim99$ $01\sim6F: 01\sim111$ $01\sim63: 01\sim99$ $01\sim63: 01\sim99$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06)	Feed Back lay / Distortion, 45:D Delay Time (L) Feed back Drive Hot Spot Resonance Out Level	it 0=0:S.=1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (90~63:-99~99) elay / Over Drive $00\sim1F4: 00\sim500$ $90\sim63: -99\sim99$ $01\sim6F: 01\sim111$ $01\sim63: 01\sim99$ $00\sim63: 00\sim99$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00)	Feed Back lay / Distortion, 45:D Delay Time (L) Feed back Drive Hot Spot Resonance Out Level lay / Phaser	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0, (←1) 0, (9D~63:-99~99) elay / Over Drive $00\sim1F4: 00\sim500$ $9D\sim63: -99\sim99$ $01\sim6F: 01\sim111$ $01\sim63: 01\sim99$ $01\sim63: 01\sim99$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00)	Feed Back lay / Distortion, 45:D Delay Time (L) - (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter	it d=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) lelay / Over Drive $00\sim1F4: 00\sim500$ $9D\sim63: -99\sim99$ $01\sim6F: 01\sim111$ $01\sim63: 01\sim99$ $00\sim63: 00\sim99$ $01\sim63: 01\sim99$ $*15-3-1$
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00) (03)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00) (03) (04) (05)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0.(9D~63:-99~99) lelay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~63: 01~99  *15-3-1
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00) (03) (04) (05) (06)	Feed Back lay / Distortion, 45:D Delay Time (L) - (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) 46:De (00) (03) (04) (05) (06)	Feed Back lay / Distortion, 45:D Delay Time (L) - (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99  *15-3-1  00~63: 00~99 00~D8 *15-3-2 9D~63: -99~99
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (03) (04) (05) (05) 47:De (00)	Feed Back lay / Distortion, 45:D Delay Time (L) - (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker Delay Time (L)	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0.(9D~63:-99~99) lelay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~63: 01~99  *15-3-1
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) (06) (07) (03) (04) (05) (06) (07) (07) (08)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker Delay Time (L) - (H)	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~66: 01~99  *15-3-1  00~63: 00~99 00~D8 *15-3-2 9D~63: -99~99
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) (03) (04) (05) (06) 47:De (00) (01) (02)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker Delay Time (L) (H) Feed back	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99  00~1F4: 00~500  9D~63: -99~99  00~1F4: 00~500  9D~63: -99~99
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) (03) (04) (05) (06) 47:De (00) (01) (02) (03)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker Delay Time (L) (H) Feed back Acceleration	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99  00~1F4: 00~500  9D~63: -99~99  00~1F4: 00~500  9D~63: -99~99 01~0F: 01~15
(06) (07) 44:De (00) (01) (02) (03) (04) (05) (06) (03) (04) (05) (06) 47:De (00) (01) (02)	Feed Back lay / Distortion, 45:D Delay Time (L) (H) Feed back Drive Hot Spot Resonance Out Level lay / Phaser Delay Parameter  Depth Speed Feedback lay / Rotary Speaker Delay Time (L) (H) Feed back	itd=0:S. =1:T (←0) bit1 ← 0 bit2 ← 0. (←1) 0. (9D~63:-99~99) elay / Over Drive  00~1F4: 00~500  9D~63: -99~99 01~6F: 01~111 01~63: 01~99 00~63: 00~99 01~663: 01~99  00~1F4: 00~500  9D~63: -99~99  00~1F4: 00~500  9D~63: -99~99

Same as 40-(00)~(03)

*15-3-2 : Data(Hex) Value[Hz]

00~63 0.03~ 3.00 (0.03step) 64~C7 3.1~13.0 (0.1 step) C8~D8 14 ~30.0 (1 step)

*15-3-3 : MG Status

bit0 : Tave Form =0:Sin. =1:Tri bit1 : Phase =0:0° . =1:180° bit2 : Tave Shape =0: Normal =1: for Flanger

*15-3-4 : Waveform

EB : T+10 FF : T-10 00 : S-10 14 : S+10

*15-4 : Dynamic Modulation Source

0: None 7: Value Slider
1: Joy Stick (+Y) 8: V.S + J.S(+Y)
2: Joy Stick (-Y) 9: V.S + J.S(-Y)
3: After Touch
4: Ass Pedal 1 B: V.S + Pedal 1
5: Ass Pedal 2 C: V.S + Pedal 2
6: VDA EG D: V.S + VDA EG

	D.D. WOMEN				POSI	TION			
STAGE	PARAMETER	A	В	С	D	E	F	G	H
IN PR	OGRAM MODE								
PAGE 0		0	1_1_	2	3	4	5	6	7
0	( FOR EFFECT DYNAMIC MOD )	( P	OSITION	= 0	)				
_ 5	( FOR PERFORMANCE EDIT )	OSC	TS	FC	FINT	LEVL	ATK	REL	EF
IN EDIT PROGRAM MODE									
PAGE 0:	OSC	0	1	2	3	4	5	6	7
0	OSC MODE	10							
1	ASSIGN/HOLD	11				11			
2	OSC1 MULTISOUND	12.	13		65	14	40		9
3	OSC2 MULTISOUND	15.	16		116	17	91		14
4	0SC2	18			19		20		
5	PITCH EG	21	22	23	24	25	26	28	2
PAGE 1:	EMPHASIS/WAVE SHAPING	0	1	2	3	4	5	6	7
1	OSCI EMPHASIS	87					88		
2	OSC2 EMPHASIS	138					139		
4	OSC1 TAVE SHAPING	82				86	83	84	8
5	OSC2 WAVE SHAPING	133				137	134	135	13
PAGE 2 :	VDF1	0	1	2	3	4	5	6	7
0	CUT OFF	50							
1	KEYBOARD TRACKING	52				51		89	
2	EG INTENSITY	53				56			
3	EG TIME VELOCITY SENS	55				79	79	79	7
4	EG TIME KEYBOARD TRACKING	54				78	78	78	7.
5	ENVELOPE	57	58	59	60	61	62	63	6
PAGE 3:	VDF 2	0	1	2	3	4	5	6	7
0	CUTOFF	101							
1	KEYBOARD TRACKING	103				102		140	
2	EG INTENSITY	104				107		,	,
3	EG TIME VELOCITY SENS	106				130	130	130	13
4	EG TIME KEYBOARD TRACKING	105				129	129	129	12
5	ENVELOPE	108	109	110	111	112	113	114	11
PAGE 4:	VDA 1	0	1	2	3	4	5	6	7
1	VELOCITY SENSITIVITY	68		_				,	
2	KEYBOARD TRACKING	67				66		89	
3	EG TIME VELOCITY SENS	70				81	81	81	8
4	EG TIME KEYBOARD TRACKING	69		,		80	80	80	8
5	ENVELOPE	71	72	73	74	75	76	77	,
PAGE 5:		0	1 1	2	3	4	5	6	7
1	VELOCITY SENSITIVITY	119							
2	KEYBOARD TRACKING	118				117		140	
3	EG TIME VELOCITY SENS	121				132	132	132	13
4	EG TIME KEYBOARD TRACKING	120	·		,	131	131	131	13
5	ENVELOPE	122	123	124	125	126	127	128	
PAGE 6:	PITCH MODULATION	0	1	2	3	4	5	6	7
0	PITCH BEND	37				33			
1	OSCI PITCH WODULATION	40			42		45	43	4
2	OSCI PITCH MODULATION	46			49		47	48	4
4	OSC2 PITCH MODULATION	91			93		96	94	9
5	OSC2 PITCH MODULATION	97			100		98	99	9

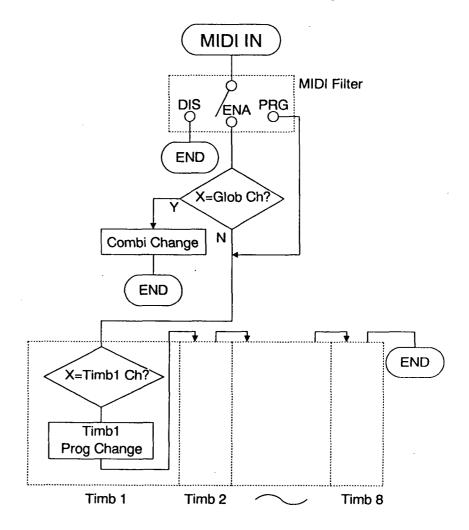
PAGE 7 : VDF MODULATION		0	1	2	3	4	5	6	7
0	VDF SWEEP	38				34			
1	AFTER TOUCH TO VDA LEVEL	36							
3	VDF MODULATION	29			30		32	31	
4	VDF MODULATION	29					35	39	29
PAGE 8 :	EFFECT	0	1	2	3	4	5	6	7
0	EFFECT1 TYPE	143				151	160		161
1	EFFECT1 PARAMETERS	152~159							
3	EFFECT2 TYPE	144				151	170		171
4	EFFECT2 PARAMETERS	162~	169						
5	EFFECT PLACEMENT	151			149		150		

COMBINATION PARAMETERS								(TABLE	7)
STAGE	PARAMETER				POSI	TION			
SINGE	PARABETER	A	В	U	D	E	F	G	Н
IN COMB	INATION MODE								
PAGE 0		0	ı	2	3	4_	5	6	7
0	( FOR EFFECT DYNAMIC MOD )	( P0	SITION	= 0 )					
4	( FOR PERF. EDIT PROG NO. )	TIMI	TIM2	TIM3	TIM4	TIM5	TIM6	TIM7	TIM8
5	( FOR PERF. EDIT LEVEL )	TIMI	TIM2	TIM3	TIM4	TIM5	TIM6	TIM7	TIM8
IN EDIT	COMBINATION MODE								
PAGE 0 : T	IMBRE	0	1	2	3	4	5	6	7
2	TIMBRE MODE	50	61	72	83	94	105	116	127
3	MIDI CHANNEL	50	61	72	83	94	105	116	127
4	PROGRAM	40	51	62	73	84	95	106	117
5	VOLUME	41	52	63	74	85	96	107	118
PAGE 1 : T	IMBRE	0	1	2	3	4	5	6	7
3	KEY TRANSPOSE	42	53	64	75	86	97	108	119
4	DETUNE	43	54	65	76	87	98	109	120
5	PANPOT	44	55	68	77	88	99	110	121
PAGE 2 : W	I NDO₩	0	1	2	3	4	5	6	7
2	VELOCITY WINDOW TOP	47	58	69	80	91	102	113	124
3	VELOCITY WINDOW BOTTOM	48	_59	70	81	92	103	114	125
4	KEY WINDOW TOP	45	56	67	78	89	100	111	122
5	KEY WINDOW BOTTOM	46	57	68	79	90	101	112	123
PAGE 3 : M	IDI FILTER	0	_1_	2	3	4	5	6	7
2	PROGRAM CHANGE FILTER	49	60	71	82	93	104	115	126
3	DAMPER FILTER	49	60	71	82	93	104	115	126
4	AFTER TOUCH FILTER	49	60	71	82	93	104	115	126
5	CONTROL CHANGE FILTER	49	60	71	82	93	104	115	126
PAGE 8 : E	FFECT	0	1	2	3	4	5	6	7
0	EFFECT1 TYPE	11				19	28		29
11	EFFECTI PARAMETERS	20~	27						
3	EFFECT2 TYPE	12				19	38		39
4	EFFECT2 PARAMETERS	30~	37						
5	EFFECT PLACEMENT	19			17		18		

#### DRUMKIT PARAMETERS (TABLE 8)

ppp	PARAMETER
0	INDEX NUMBER
_1	INST NUMBER
2	KEY
3	TUNE
4	LEVEL
5	DECAY
6	PAN
7	EXCLUSIVE ASSIGN

# **Program Change MIDI In (X:Channel)**



# **ERROR MESSAGES**

## Common to all modes

Error message	Meaning
Battery Low (Internal)	The voltage of the internal memory backup battery is low. (Contact your dealer, or a nearby Korg service center.)
Memory Protected	You attempted to write data into memory when the Global mode Protect was set "ON".
Will use New Bank's Drum Kit	You attemped to write data to a bank which differs from the one for the oscillator mode drums program you selected. (Enter a drum kit selected from the same bank used for the write destination.)

## Sequencer mode

Error message	Meaning
Beat or Length Mismatch	You attempted to place data (a track or pattern) into a track of a different time signature, or to Bounce/Copy patterns of different lengths.
	Punch In Measure/ Dest Measure
	Pattern
Blank Measure	Data does not exist in the measure you specified as the source.
Blank Pattern	Data does not exist in the pattern you specified as the source.
Blank Track	Data does not exist in the track you specified as the source.
Card Memory Full	The number of steps in the sequence data you attempted to save exceeds the capacity of the card.
Measure Occupied by Pattern	A pattern overlaps the measure you specified for punch in/out, or the measure you specified as a measure edit destination.
Measure Overflow	The operation you attempted to execute would result in a track length of more than 999 measures.
Memory Full	The total number of steps in all songs and patterns has reached the sequence data memory capacity.
No Events Exist	The track or pattern specified in event edit contains no data.
Pattern Across Source	When copying from a track, the area specified as the source contains part of a pattern Or, during a Get operation, the specified source area contains all or part of a pattern
Pattern Conflicts with Events	The attempted Bounce operation cannot be executed, since one track contains a pattern and the other track contains an event or pattern in the same measure.
Pattern Used in Song	Since the patterns before loading are used in the song, the pattern cannot be loaded.
Source Across Destination	In a Measure Copy (F5-2) operation within the same track, the source and destination data overlap.
Track Protected	The specified track is write-protected.

## Disk mode

Error message	Meaning						
Data Error	The data that was saved to disk or read from disk is incomplete and meaningless. Or, the inserted disk is not for the 01/W series. Data errors are often caused by scratches or dirt on the disk, and can also occur when a disk is unsuitable for the disk drive, or if the disk drive heads are dirty. If a data error occurs, take the following steps.  Re-insert the disk and try the operation again.  If you are formating or saving, insert a different disk and try again.  Clean the disk drive heads, and try the operation again. (For head cleaning, refer to page 17.)						
Disk Type Error	The disk is not for the 01/W series.						
Drive Not Ready	A disk is not inserted into the drive.						
Insufficient Memory	There is not enough free sequence data memory, and MIDI data files cannot be saved or loaded.						
Memory Overflow	While saving a MIDI data file, the received data exceeded 64 Kbytes.						
No File	The specified file does not exist on the disk.						
Protected Disk	The disk's write protect slider is in the write prohibit position, so formatting or saving is not possible.						

## Global mode

Error message	Meaning
Battery Low (Card)	The voltage of the card memory backup battery is low. (Load the data from the card into internal memory, replace the card battery, and save the data back into the card. When the card battery is replaced, all data in the card will be lost.)
Card Format Mismatch	You attempted to read data which the card did not contain.
Invalid (Unformatted) Card	The card contains no data, or is not intended for the 01/W series.
No Card Inserted	You attempted to read or write card data when no card was inserted.
ROM Card or Protected Card	You attempted to write data into a ROM card or a RAM card whose protect switch was ON.
Combi/Prog in the Bank (C/D)	You attempted to load Sequence data from a bank which contained Combination and Program data
SEQ in the Bank (C/D)	You attempted to load Combination, Program or Drum Kit data from a bank which contained Sequence data.
Invalid Bank (C/D)	You attempted to load data from a bank which did not contain any data.

# **SPECIFICATIONS AND OPTIONS**

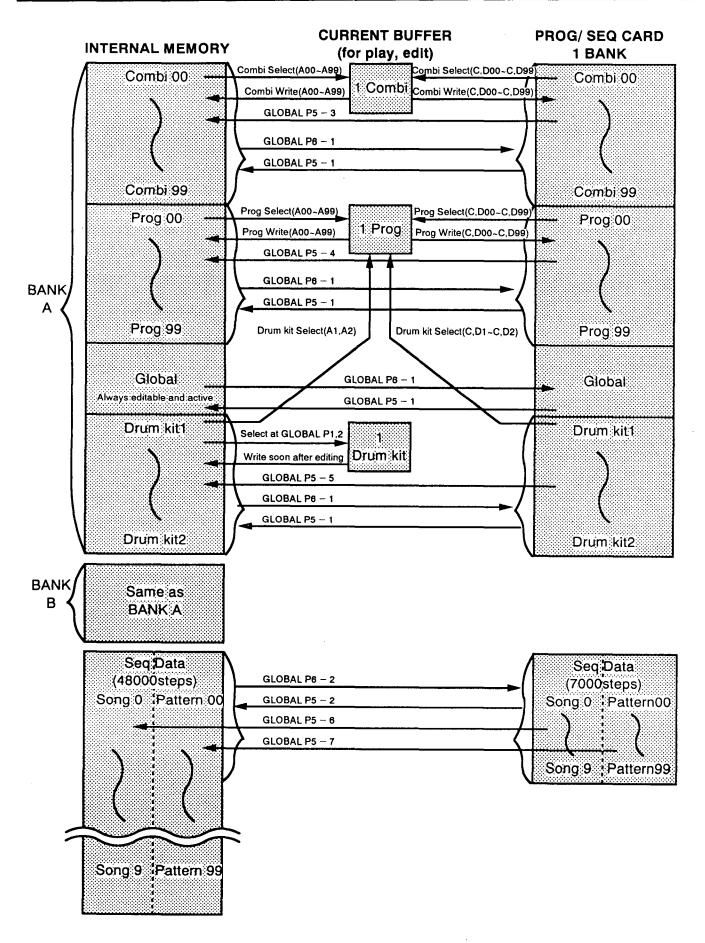
Tone generation method	AI ² synthesis system (full digital processing)
Tone generator	32 voices, 32 oscillators (single mode); 16 voices, 32 oscillators (double mode)
Keyboard	01/WproX: 88 notes, with initial and aftertouch sensitivity, and piano-type response 01/Wpro: 76 notes, with initial and aftertouch sensitivity
Waveform memory	PCM 80 Mbits
Effects	Two digital multi-effect systems
Programs	200 Programs
Combinations	200 Combinations
Sequencer section	10 Songs, 100 Patterns, maximum 48,000 notes, 16 tracks, 16 timbres (dynamic voice allocation)
Control inputs	Damper pedal, Assignable pedal 1, 2
Outputs	1/L, 2/R, 3, 4, headphones
Floppy disk drive	3.5 inch 2DD (for Program/Combination/Drum Kit/Global parameters/Sequence data/MIDI data, and for Standard MIDI files)
PCM card slot	PCM data
PROG/SEQ card slot	For Program/Combination/Drum Kit/Global parameters / Sequence data
MIDI	IN, OUT, THRU
Display	LCD 64 x 240 dots, full dot matrix, with backlight
Options	RAM card (SRC-512), ROM card, PCM card
Power consumption	20 W
Dimensions	01/WproX: 1475 (W) x 514.5 (D) x 136.5 (H) 01/Wpro : 1266.5 (W) x 344 (D) x 115.5 (H)
Weight	01/WproX 35.2 kg 01/Wpro 16.5 kg

^{*} Appearance and specifications are subject to change without notice for product improvement.

# **TROUBLESHOOTING**

The LCD does not light when the POWER switch is turned on	- Is the power cable plugged in? - Is the Global mode Contrast control correctly adjusted?
No sound	<ul> <li>Are the amplifier or headphones connected to the correct jack?</li> <li>Has the master volume been turned up?</li> <li>Are any of the level-related parameters set to 0?</li> <li>Is the Global mode MIDI Global parameter Local OFF?</li> <li>Are you playing an area of the keyboard which will not sound due to split settings or the pitch range?</li> </ul>
Cannot format a disk	- Is the write protect tab of the disk in the write prohibit (open) position? - Is the disk inserted correctly?
Cannot save data to disk	<ul> <li>Is the write protect tab of the disk in the write prohibit (open) position?</li> <li>Is the disk inserted correctly?</li> <li>Is the disk a correctly formatted good-quality 2DD type disk?</li> </ul>
Cannot load data from disk	- Is the disk inserted correctly? - Does the disk contain data?
Cannot save data to card	<ul><li>Is the card protect switch ON?</li><li>Is the card a ROM card?</li><li>Is the card inserted correctly?</li></ul>
Cannot load data from card	- Is the card inserted correctly? - Does the card contain data?
The sound is not correct	<ul> <li>Is the inserted PCM data card the one you used when creating the sound?</li> <li>Is the inserted PROG data card the one you used when creating the Combination?</li> <li>Is the drum kit taken from the same bank you used for the Program when creating the drum program?</li> </ul>
The sequencer will not start	- Is the clock source set to EXT? - Is there data?
Cannot record into the sequencer	- Is memory protect or track protect turned on?
The sound does not stop	- Is the damper polarity correct? - Is the program parameter hold turned "ON"?
Cannot control through MIDI	- Are the MIDI cables connected correctly? - Is the MIDI channel correct? - Is the Filtering in the Global mode set to "DIS"?

# 01/WproX•01/Wpro MEMORY CONFIGURATION



Fu	inction	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 ~16 1 ~16	1 ~16 1 ~16	Memorized
Mode	Default Massages Altered	× ******	3 ×	
Note Number:	True voice	09~120/16~115 ******	0 ~127 0 ~127	Only Sequence Data will be transmitted.
Velocity	Note ON Note OFF	○ 9n. V= 1 ~126 ×	○ 9n. V=1~127 ×	Only Sequence Data will be transmitted.
After Touch	Key's Ch's	00	00	Key's: Sequence *5, 6 Data only *5
Pitch Bender		0	0	Only Sequence Data will be transmitted.
Control	$0.32$ $1.2$ $6.38$ $7$ $10$ $11$ $12.13$ $64$ $91.92$ $96.97$ $100.101$ $121$ $0\sim101$	00000×0000××0	0000000000000	Bank (MSB, LSB) *3 Mod Wheel *1 Data Entry (MSB, LSB) *2 Volume *1 Pan Pot *1 Expression *1 FX 1,2 Cntrl *1 Damper *1 FX 1,2 ON/OFF *1 Data Increment/Decrement *2 RPN (LSB, MSB) *2 Reset All Cntrls (Sequence Data) *6
Prog Change: Tru	ue #	○ 0~99 *****	$ \begin{array}{c} 0 \sim 127 \\ 0 \sim 99 \end{array} $	*3
System Exclusive		0	0	*2
System Common:	Song Pos Song Sel Tune	○ ○ 0~29 ×		*4 *4
System Real Time	e: Clock Commands	00	00	*4 *4
: 4	All Notes OFF Active Sense Reset	× × O ×	○ ○ 123~127 ○ ×	,

Notes *1 Transmitted and recognized when CONTROL=ENA in global mode.

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO

Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

○ : Yes× : No

^{*6} Only Sequence Data will be transmitted and recognized.

^{*2} Transmitted and recognized when EXCLUSIVE=ENA in global mode.

^{*3} Transmitted and recognized when PROG CHANGE=ENA in global mode.

^{*4} Transmitted but not recognized when using Internal Clock. Recognized but not transmitted when using External Clock.

^{*5} Transmitted and recognized when AFTER TOUCH=ENA in global mode.

# WAVE SHAPING LIST

00	Sine	10	Symmetry	20	Take 1	30	Take 2	40	Integers	50	7th Res.
01	2 Cycle	11	Frequency8	21	Vitalsings	31	Take 3	41	Super Sqr	51	Waves
02	Frequency3	12	Resonant 1	22	Forest	32	Take 4	42	LineSine 2	52	Take 6
03	Frequency7	13	Resonant 2	23	Zigzag	33	Take 5	43	Comb	53	Exciter
04	10 Cycle	14	Zinger	24	High Pass	34	Experiment	44	Snake	54	Booster
05	Cacoon	15	GeoGraphic	25	LineSine 1	35	Real Steep	45	Rezzo	55	Claver
06	DoubleSine	16	Reptile	26	WS Bass	36	Pulse 5	46	Super Res.	56	Soft Road
07	Phase	17	SyncSter	27	Soft Curve	37	BowwBass.	47	Acordion	57	Rubber
80	20 Cycle	18	Profile	28	Smoothy	38	Pulse Oct.	48	Triangles	58	Parabola
09	Attack Up	19	Star	29	LogSine 1	39	Inverter 1	49	Inverter 2	59	Wurly
					•						•

# **DRUM SOUND**

000	Fat Kick	019	RollSnare1	038	Tom	057	OpenTriang	076	Rev Thing	095	Spectrum 1	114	Crash 2
001	Rock Kick	020	RollSnare2	039	ProcessTom	058	Tambourine	077	Kalimba	096	Spectrum2a	115	Orch Hit
002	Ambi.Kick	021	Rock Snare	040	Syn Tom 1	059	Cowbell	078	Marimba 1	097	Spectrum2b	116	Wind Bell
003	Crisp Kick	022	GatedSnare	041	Syn Tom 2	060	R - Timbal	079	Marimba 2	098	Noise	117	Metronome1
004	Punch Kick	023	HouseSnare	042	Agogo	061	Hi Timbal	080	Marimba 3	099	Stadium	118	Metronome2
005	Real Kick	024	Syn Snare1	043	Lo Bongo	062	Lo Timbal	081	Log Drum 1	100	Thing	119	NewTom 1
006	Dance Kick	025	Syn Snare2	044	Hi Bongo	063	WoodBlockH	082	Log Drum 2	101	Belltree	120	NewTom 2
007	Gated Kick	026	Fist	045	Siap Bongo	064	WoodBlockM	083	Digi.Bell	102	Tri Roll	121	NewTom 3
800	ProcesKick	027	Side Stick	046	Claves	065	WoodBlockL	084	BrightBell	103	Yo vox	122	NewTom 4
009	Metal Kick	028	Syn Rim	047	Syn Claves	066	Hand Claps	085	MetalBell1	104	Flutter	123	BrsSnr0tap
010	Syn Kick 1	029	CrshCymbal	048	Open Conga	067	Zap 1	086	MetalBell2	105	Timpani	124	BrsSnr Tap
011	Syn Kick 2	030	Tite HH	049	Slap Conga	068	Zap 2	087	Gamelan 1	106	Orch Crash	125	BrsSnrSwsh
012	Snare 1	031	Close HH	050	Palm Conga	069	Stick Hit	880	Gamelan 2	107	Music Box1	126	Guiro S
013	Snare 2	032	Open HH	051	Mute Conga	070	Scratch Hi	089	Pole	108	Music Box2	127	Guiro L
014	PicloSnare	033	Pedal HH	052	Maracas	071	Scratch Lo	090	TubulBel 1	109	Tron Up	128	Quica
015	Soft Snare	034	CloseSynHH	053	L-Shaker	072	ScratchDbl	091	TubulBel 2	110	Clicker 1		
016	TightSnare	035	Open SynHH	054	S-Shaker	073	Castanet	092	Gong	111	Clicker 2		
017	Ambi.Snare	036	Ride Edge	055	Cabasa	074	FingerSnap	093	Wind Gong	112	Clicker 3		
018	Rev Snare	037	Ride Cup	056	MuteTriang	075	Industry	094	Alia Bass	113	Crickets		



# **MULTI SOUND NAME**

000	A.Piano	037	A.Gtr Harm	074	Metal Bell	111	Tuba/FrH	148	Spectrum 2	185	Syn Snare	222	Mini 1a
001	E.Piano 1	038	Hard Pick	075	M.Bell LP	112	Tuba/FrHLP	149	Spectrum 3	186	Rev Snare	223	VS 102
002	E.Piano1LP	039	E.Guitar	076	Tiny Bell	113	Trombone 1	150	Stadium	187	Fist	224	VS 38
003	E.Piano 2	040	MuteGuitar	077	Gamelan	114	Trombone 2	151	Stadium NT	188	CrshCymbal	225	VS 39
004	E.Piano2LP	041	Gtr Harm 1	078	Pole	115	Mute Tromb	152	Thing	189	Orch Crash	226	VS 48
005	Hard EP	042	Gtr Harm 2	079	Pole LP	116	Trumpet	153	Thing NT	190	OrchCrshLP	227	VS 52
006	Hard EP LP	043	DistGuitar	080	Tubular	117	Trumpet LP	154	Belitree	· 191	OrchCrshNT	228	VS 57
007	Soft EP	044	Dist GtrLP	081	Gong 1	118	Mute TP	155	BelltreeNT	192	Orch Perc	229	VS 58
008	Soft EP LP	045	Banjo	082	Gong 1 LP	119	Mute TP LP	156	Wind Bell	193	Hi Hat	230	VS 71
009	PianoPad 1	046	Harp	083	Gong 2	120	BrightHorn	157	WindBellNT	194	Hi Hat NT	231	VS 72
010	P.Pad 1 LP	047	A.Bass 1	084	Gong 2 LP	121	Brass 1	158	Tri Roll	195	Beli Ride	232	VS 88
011	PianoPad 2	048	A.Bass 2	085	Split Bell	122	Brass 2	159	TriRoll NT	196	Ping Ride	233	VS 89
012	P.Pad 2 LP	049	A.Bass2 LP	086	Tuned Bell	123	StringEns.	160	Clicker	197	ProccesTom	234	13 - 35
013	Clav	050	A.Bass 3	087	Harmonica	124	StrEns.LP1	161	Lore	198	Timpani	235	DWGS Clav
014	Clav LP	051	A.Bass3 LP	880	HardFlute1	125	StrEns.LP2	162	Lore NT	199	Timpani LP	236	DWGSOrgan1
015	Harpsicord	052	Fretless	089	HardFlute2	126	StrEns.LP3	163	Crickets 1	200	Cabasa	237	DWGSOrgan2
016	HarpsicdLP	053	FretlessLP	090	Tin Flute	127	AnaStrings	164	Crickts1NT	201	Cabasa NT	238	DWGS E.P.1
017	PercOrgan1	054	E.Bass 1	091	TinFluteLP	128	Analog	165	Crickets 2	202	Agogo	239	DWGS E.P.2
018	PercOrg1LP	055	E.Bass 2	092	Pan Flute	129	PWM	166	Crickts2NT	203	Cowbell	240	Saw
019	PercOrgan2	056	E.Bass 3	093	PanFluteLP	130	Violin	167	MagicBell	204	Low Bongo	241	Ramp
020	PercOrg2LP	057	E.Bass3 LP	094	Bottle	131	Cello	168	Tron Up	205	Claves	242	Square
021	Organ 1	058	Slap Bass1	095	Bassoon	132	Pizzicato	169	TronUP LP	206	Timbales	243	Pulse 25%
022	Organ 1 LP	059	SlpBass1LP	096	Oboe	133	Voice	170	TronUP NT	207	WoodBlock1.	244	Pulse 16%
023	Organ 2	060	Slap Bass2	097	EnglishHrn	134	Choir	171	Tooter	208	WoodBlock2	245	Pulse 8%
024	Organ 2 LP	061	SynthBass1	098	Eng.HornLP	135	Soft Choir	172	Tooter LP	209	Vibe Hit	246	Pulse 4%
025	Organ 3	062	SynthBass2	099	BassonOboe	136	Ahhs	173	Flute FX	210	Syn Claves	247	Syn Sine 1
026	Organ 3 LP	063	Tech Bass	100	BsonOboeLP	137	Air Vox	174	FluteFX LP	211	Syn Tom 1	248	Syn Sine 2
027	Rotary	064	TechBassLP	101	Clarinet	138	Chorello	175	Flutter	212	Syn Tom 2	249	Syn Sine 3
028	PipeOrgan1	065	Kalimba	102	ClarinetLP	139	Yo Vox	176	Flutter LP	213	Zap 1	250	Syn Sine 4
029	PipeOrg1LP	066	Music Box	103	Bari.Sax	140	Syn Vox	177	Tap 1	214	Zap 2	251	Syn Sine 5
030	PipeOrgan2	067	Wood Box	104	Bari.SaxLP	141	Syn Vox LP	178	Tap 2	215	Industry 1	252	Syn Sine 6
031	Accordion	068	Log Drum	105	Tenor Sax	142	Lub Wave	179	Tap 3	216	Industr1NT	253	Syn Sine 7
032	AcordionLP	069	Marimba	106	T.Sax LP	143	Ether Bell	180	Tap 4	217	industry 2	254	Sine
033	G.Guitar	070	Vibe	107	Alto Sax	144	Ghostly	181	Tap 5	218	Industr2NT	255	A.Piano 2
034	G.GuitarLP	071	Digi.Bell	108	A.Sax LP	145	Alia Bass	182	Tap 6	219	Rev Thing		
035	F.Guitar	072	BrightBell	109	SopranoSax	146	Sync.Wave	183	Orch Hit	220	Digital 1		
036	F.GuitarLP	073	B.Bell LP	110	S.Sax LP	147	Spectrum 1	184	Snare Cast	221	Digital 2		



#### NOTICE

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