Technics

sx-KN3000



NGLISH

QQTG0373A

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY. (for UNITED KINGDOM)

This appliance is supplied with a moulded three-pin mains plug for your safety and conventence.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark ® or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic/Technics Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFE-LY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT-OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT: -The wires in this mains lead are coloured in accordance with the following code:-

> Blue: Neutrai

Brown: Live

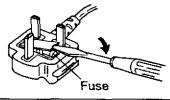
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three-pin plug, marked with the letter E or the Earth Symbol ±.

How to replace the fuse. Open the fuse compartment with a screwdriver and replace the fuse and fuse cover.



Technics

OWNER'S MANUAL

Caution

Voltage (except North America, Mexico, New Zealand and Europe)

Be sure the voltage adjuster located on the rear panel is in accordance with local voltage in your area before using this unit. Use a screwdriver to set the voltage adjuster to the local voltage.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

BEFORE YOU PLAY, PLEASE READ THE CAUTIONARY COPY APPEARING ON PAGE 2.



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

Before you play

For long and pleasurable use of this instrument, and to gain a thorough understanding of your KN3000 Keyboard, it is strongly recommended that you read through this Owner's Manual once.

The Owner's Manual is comprised of the following parts.

BASIC FUNCTIONS

This part includes an explanation of basic procedures and points you should be aware of for proper operation of your instrument.

PRACTICAL APPLICATIONS

This part comprises a detailed explanation of sound, effect, rhythm, SE-QUENCER, COMPOSER, Disk Drive and MIDI.

REFERENCE GUIDE (separate booklet)

Reference guide for the contents of the SOUND GROUP, RHYTHM GROUP, MIDI data, etc.

Cautions for safest use of this unit

installation location

- A well-ventilated place.
 Take care not to use this unit in a place where it will not receive sufficient ventilation, and not to permit the ventilation holes to be covered by curtains, or any similar materials.
- 2. Place away from direct sunlight and excessive heat from heating equipment.
- 3. A place where humidity, vibration and dust are minimized.

Power source

- Be sure the line voltage selector is in accordance with local voltage in your area before connecting the plug to the socket.
- 2. DC power cannot be used.

Handling the power cord

- 1. Never touch the power cord, or its plug, with wet hands.
- 2. Don't pull the power cord.

Metal items inside the unit may result in electric shock or damage.

Do not permit metal articles to get inside the unit.

Be especially careful with regard to this point if children are near this unit. They should be warned never to try to put anything inside.

If, nevertheless, some such article does get inside, disconnect the power cord plug from the electrical outlet, and contact the store where the unit was purchased.

If water gets into the unit

Disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased.

As a precaution, it is suggested that flower vases and other containers which hold liquids not be placed on the top of this unit.

if operation seems abnormal

Immediately turn off the power, disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased.

Discontinue using the unit at once. Failure to do so may result in additional damage or some other unexpected damage or accident.

 Because the power source is located inside the unit, it is normal for the cabinet to become warm.

A word about the power cord

If the power cord is scarred, is partially cut or broken, or has a bad contact, it may cause a fire or serious electrical shock if used. NEVER use a damaged power cord for any appliance. Moreover, the power cord should never be forcibly bent.

Don't touch the inside parts of this unit.

Some places inside this unit have high voltage potential. Never try to remove the top or back panels of this unit, or to touch inside parts by hand or with tools.

Contact someone who is qualified in order to inspect the inside, or to replace a fuse, if such becomes necessary. Never attempt to do these things yourself.

Maintenance

The following suggestions will assist you in keeping the unit in top condition.

- Be sure to switch the instrument off after use, and do not switch the unit on and off in quick succession, as this places an undue load on the electronic components.
- To keep the luster of the surface and buttons, simply use a clean, damp cloth; polish with a soft, dry cloth. Polish may be used but do not use thinners or petro-chemicalbased polishes.
- A wax-based polish may be used on the cabinet, although you will find that rubbing with a soft cloth will suffice.

SERVICE MUST BE CARRIED OUT BY DEALER OR OTHER QUALIFIED PERSON

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Controls and functions

AUTO PLAY CHORD

Add an automatic accompaniment to your selected rhythm. (Refer to page 40.)

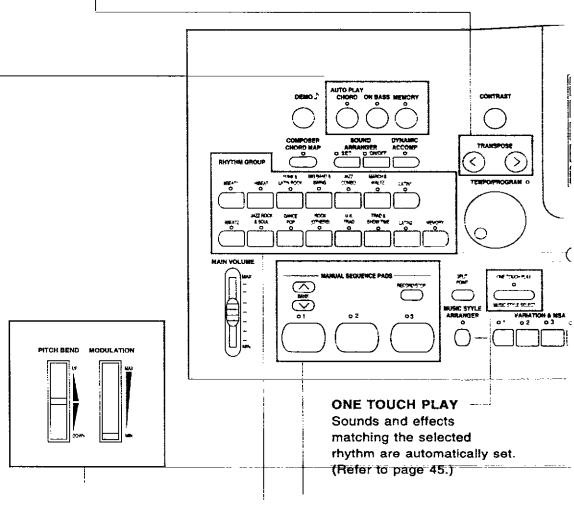
TRANSPOSE

Raise or lower the key of the entire keyboard. (Refer to page 33.)

DISPLAY

Displays performance information, function settings and other messages. (Refer to page 21.)

 Use the CONTRAST button to adjust the display so that it is easy to read. (Refer to page 24.)



PITCH BEND/MODULATION

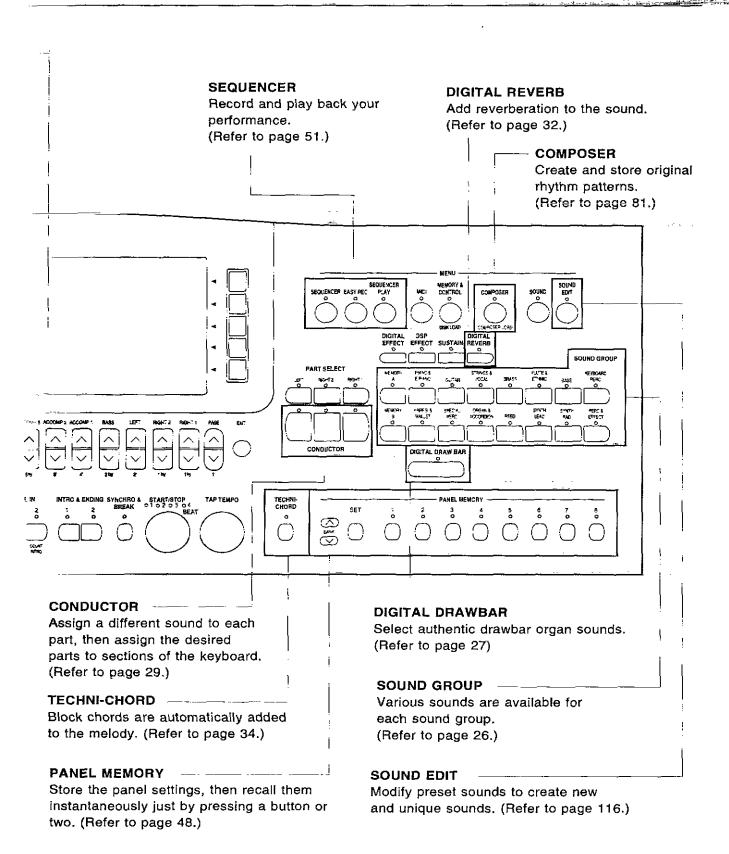
The PITCH BEND wheel allows a "sliding" change in the pitch. The MODULATION wheel is used to add vibrato to the sound. (Refer to page 32.)

MANUAL SEQUENCE PADS

Add various phrases to your performance with the pad buttons. (Refer to page 35.)

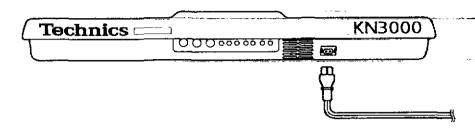
RHYTHM GROUP

Various rhythm patterns are available for each rhythm group. (Refer to page 37.)



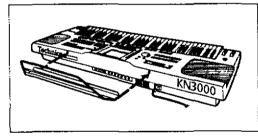
Getting started

Before you play



Plug the power cord into an outlet.

Affix the music stand as shown.



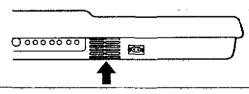
■ About the backup memory

The panel settings, PANEL MEMORY and MIDI settings etc. are maintained in the backup memory for about one week after the power to this instrument is turned off. Other stored memories, such as the SEQUENCER, COMPOSER and SOUND MEMORY, are maintained for about 80 minutes. If you wish to keep the memory contents, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later time.

- The backup memory does not function until the power has been on for about 10 minutes.
- When you quit the operating mode, a warning display may appear to remind you to save the data.
- Headphones (sold separately) may be plugged into the headphones terminal. This will automatically switch off the speaker system, and sound is heard only through the headphones.

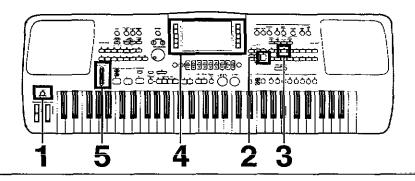


- The pitch of this instrument can be adjusted for when playing with other instruments.
 (Refer to page 112.)
- Make sure that the ventilation holes, on the rear of the instrument, are unobstructed.

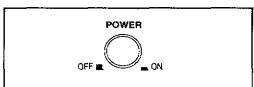


 The cooling fan begins operating only when the internal temperature rises above a given level.

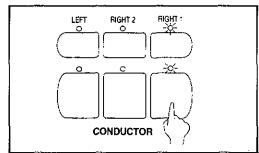
Playing



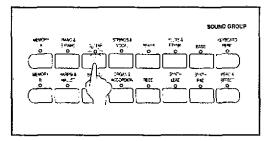
Press the POWER button to turn it on.



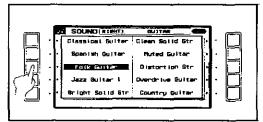
- Under certain conditions, the functions and memories of this instrument may be initialized when the power is turned on. (Refer to page 144.)
- In the CONDUCTOR section on the panel, press the RIGHT 1 button to turn it on.



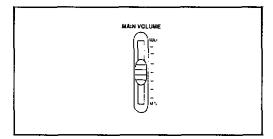
In the SOUND GROUP section, press the GUITAR button.



Select "Folk Guitar" from the list of sounds shown on the display.



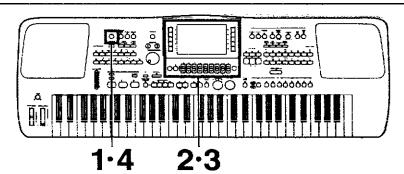
- Touch any note on the keyboard.
 You will hear the "Folk Guitar" sound.
- Set the MAIN VOLUME to an appropriate level with the sliding control.



 Your Keyboard features Touch Response. You control the volume by playing the keys harder or softer.

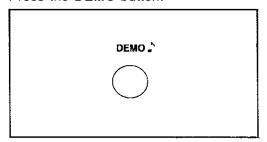
Listen to the demonstration

Listen to a particular sound or rhythm demonstration.



1

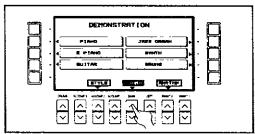
Press the **DEMO** button.



 The display changes to the DEMONSTRATION display.

2

Use the buttons below the display to select SOUND or RHYTHM from the display.

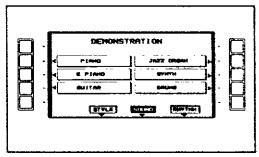


• The display changes.

3

Press the button to the right or left of the display for the sound or rhythm demonstration performance you wish to hear.

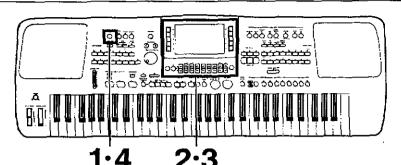
<Example: SOUND>



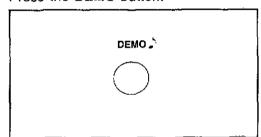
- The demonstration performance corresponding to your selection will begin.
- Repeat this procedure to listen to other sounds and rhythms.
- To end the demonstration before it has finished, again press the button for the selected sound or rhythm.

4

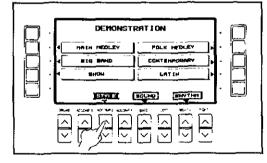
When you are finished listening to the demonstration tunes, press the **DEMO** button again.



Press the **DEMO** button.

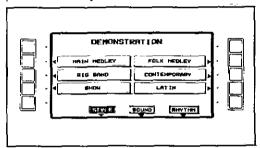


Select STYLE from the display.



· The display changes.

Press the button to the right or left of the display for the style demonstration performance you wish to hear.

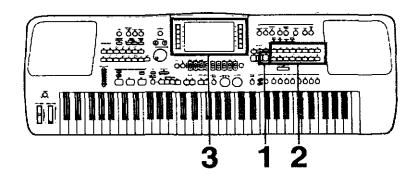


- The demonstration performance corresponding to your selection will begin
- Repeat this procedure to listen to other styles.

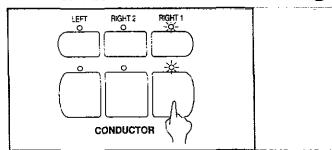
When you are finished listening to the demonstration tunes, press the **DEMO** button again.

- If you press and hold the DEMO button for a few seconds, or if you press first the DEMO button and then the START/ STOP button, the rhythms, sounds and styles are demonstrated in order in a medley performance. The medley performance continues until the START/STOP button or the DEMO button is pressed again.
- Some of the buttons do not function while the demonstration performances are being played.
- The demonstration performance shown on the display may become altered.

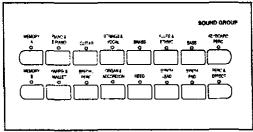
Selecting other sounds



In the CONDUCTOR section, press the RIGHT 1 button.

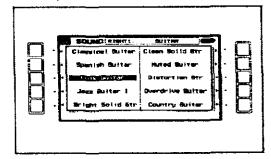


In the SOUND GROUP section, select a sound group.



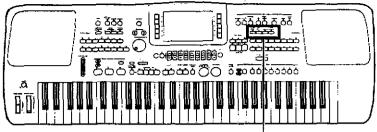
• The display changes.

Select a sound from the display. <Example: GUITAR>



- To see a different part of the list, press either PAGE button.
- The display returns to the previous display after a few seconds.

 Other things you can do are mixing sounds and playing different sounds on the left and right areas of the keyboard. (Refer to page 29.)

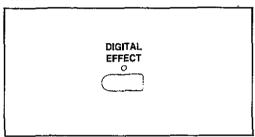


A·B·C·D

Add a feeling of spaciousness to the sound.



Press the **DIGITAL EFFECT** button to turn it on.

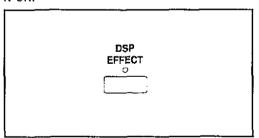


• The sound is broader and deeper.

Change the quality of the sound.

B

Press the **DSP EFFECT** button to turn it on.

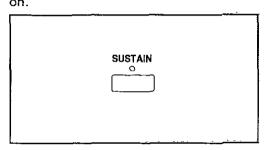


 Various effects are added to the sounds.

Add sustain.

C

Press the SUSTAIN button to turn it



 Play and release a key. The tones fade out gradually after the key is released.

Add reverberation.

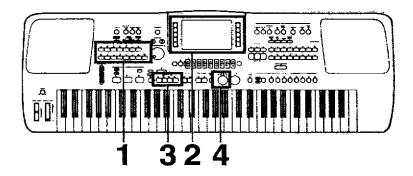
D

Press the **DIGITAL REVERB** button to turn it on.

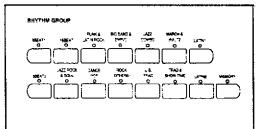
	 :
DIGITAL REVERB	

 The reverberation effect is applied to all sounds.

Playing automatic rhythms

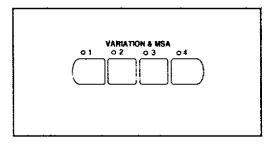


In the RHYTHM GROUP section, select a rhythm group.



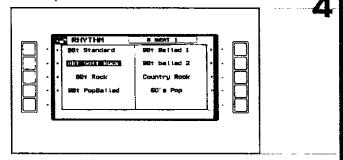
• The display changes.

Use the **VARIATION** buttons to select the variation number.



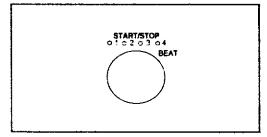
 The nuance of the pattern differs with each variation number.

Select a rhythm from the display. <Example: 8 BEAT 1>

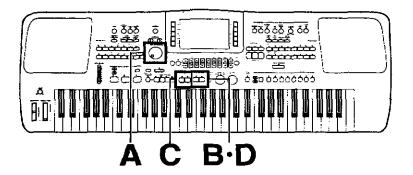


The display returns to the previous display after a few seconds.

Start the rhythm by pressing the **START/STOP** button.



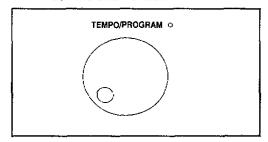
 Stop the rhythm by pressing the START/STOP button again.



Adjust the tempo.



Adjust the tempo with the TEMPO/PROGRAM dial.

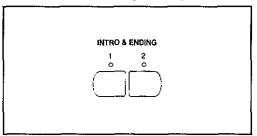


 The tempo is shown in the display as ", = ".

Insert an intro pattern.

B

To start your performance with an introduction, press the INTRO & ENDING 1 or INTRO & ENDING 2 button before starting the rhythm.

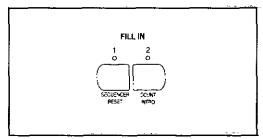


 An intro is played, after which the regular rhythm starts.

Insert a fill-in pattern.

C

While the preset rhythm pattern is playing, press either the FILL IN 1 or FILL IN 2 button.

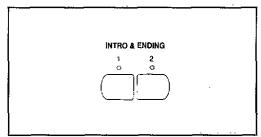


 A fill-in pattern immediately starts to play.

Insert an ending pattern.

D

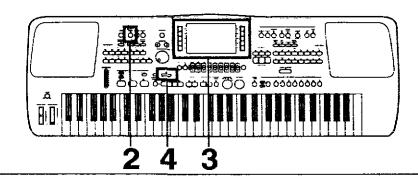
While the rhythm is playing, press the INTRO & ENDING 1 or INTRO & ENDING 2 button.



 You will hear an ending pattern, and then the rhythm stops.

Automatic accompaniment

Use the AUTO PLAY CHORD

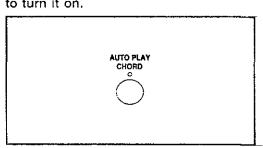


Use the AUTO PLAY CHORD with the following tune.

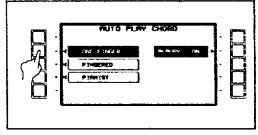


Select a rhythm.

Press the AUTO PLAY CHORD button to turn it on.



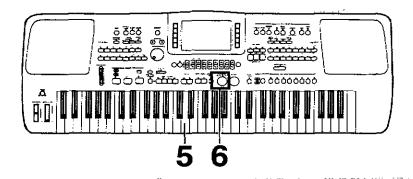
Select ONE FINGER on the display.



 After a few seconds, the display returns to the previous display.

Press and hold the **ONE TOUCH PLAY** button until the indicator goes out.

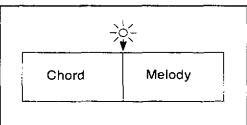






5

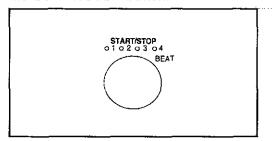
Use your left hand to play the chords and your right hand to play the melody.



- Pressing a key on the left area of the keyboard will cause the automatic rhythm pattern to start playing (synchro start).
- When the C key is pressed on the left area of the keyboard, an accompaniment begins to play in the C major key.
- Playing the chord key (root note) and the white key to its left will produce a 7th chord.

6

At the end of your performance, press the START/STOP button.



• The automatic accompaniment stops.

C chord



G7 chord



F chord

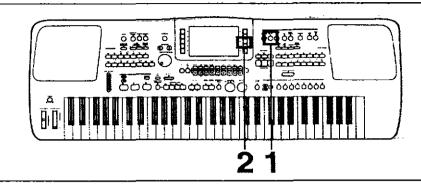


 In this example you played chords by pressing the keys for the "root notes" (ONE FINGER chords). But you can also specify the chord by playing all the notes in the chord. (Refer to page 40.)

You can automatically change the panel settings to those which are ideal for the music style you selected. (Refer to page 46.)

Record your performance

Use the SEQUENCER to record your performance.



Sonatina

Sound: Piano 1 (RIGHT 1 part)

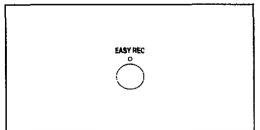
Right hand

Left hand



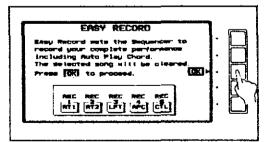




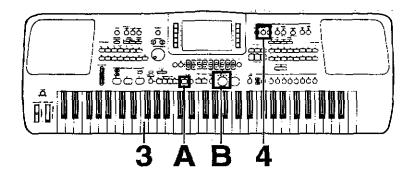


The display changes to the EASY RECORD display.

Press the OK button.

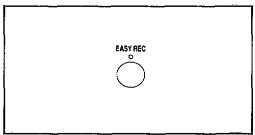


 The display changes to the REALTIME RECORD display.



Play the song on the keyboard.

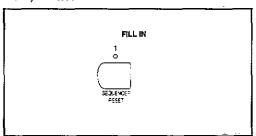
When you have finished playing, press the EASY REC button again to turn it off.



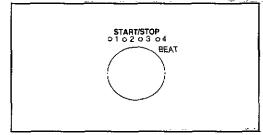
 The display changes to the SEQUENCER PLAY display.

Playing back your recorded performance

Press the SEQUENCER RESET (FILL IN 1) button.



Press the START/STOP button.

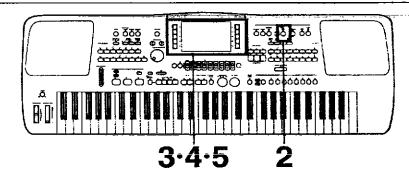


- Your performance is played back just as you recorded it.
- When you are finished playing back your performance, press the SEQUENCER PLAY button to turn it off.

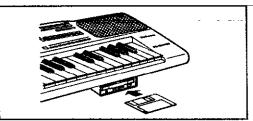
 You can also record several parts individually and then have them played back together for an ensemble performance. (Refer to page 57.)

Playing commercial disks

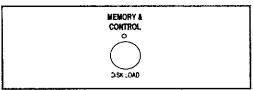
Enjoy playing commercially sold Standard MIDI File (SMF) format song disks (FORMAT 0 only).



Insert the song disk into the Disk Drive slot.

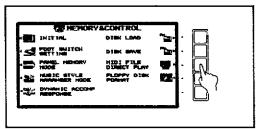


Press the MEMORY & CONTROL button to turn it on.

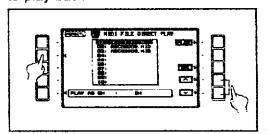


 The display changes to the MEMORY & CONTROL display.

Press the button next to the display to select MIDI FILE DIRECT PLAY.

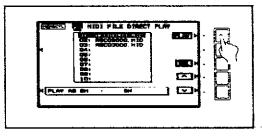


 The display changes to the MIDI FILE DIRECT PLAY display. Select the song list column, and use the ∧ and ∨ buttons to select the song to play back.



 You can select the PLAY AS GM column, and use the ∧ and ∨ buttons to specify whether or not (ON/OFF) the song is played back as GM (General MIDI).

Press the PLAY button.



- · The selected song is played back.
- To adjust the volume balance, press the BAL button.
- The PLAY button becomes the STOP button. Press this button if you wish to stop playback before it has finished.

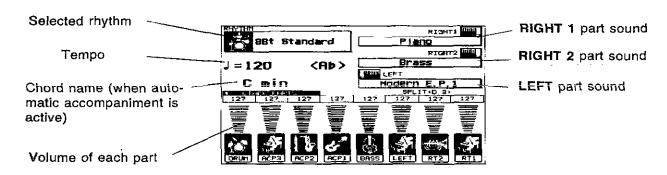
- You can use the same procedure to play back other songs on the disk.
- Direct play from FORMAT 1 disks is not possible. To play FORMAT 1 disks, follow the LOAD procedure (page 98).

About the display

The display shows various information and is used for most of the Keyboard's operations.

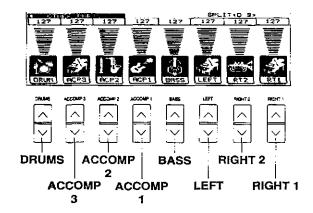
Normal display

This illustration shows the kind of information you see on the display during a normal performance.



Volume balance

At the bottom half of the normal display, the volume balance of each part is shown as a bar graph and a number (0 to 127).



Use the \wedge and \vee buttons directly below the display to adjust the volume of each part.

These buttons respond to two ranges of pressure. You can press and hold a button firmly to change the volume quickly.

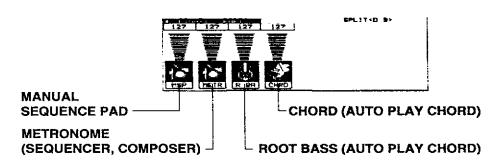
■ MUTE

To mute a part, press both the corresponding \land and \lor buttons at the same time.

- The volume display for a muted part is shown as "MUTE".
- Pressing either balance button for a muted part will cancel the mute function.

■ OTHER PARTS

If you press the button for OTHER PARTS, the display changes to show the volumes of other parts.



- Press the EXIT button to return to the normal volume display.
- This button is also used to access the RIGHT1-PART8 volume display and the PART9-16 volume display. These parts are used in conjunction with SEQUENCER and MIDI functions.

PAGE buttons

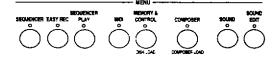
When there are additional parts to the current display, a page number indication appears in the upper right corner of the screen. For example, if "PAGE1/2" or "P1/2" is shown, it means that there are two pages of the display, and the current page is page 1. In this case, you can use the PAGE \(\) and \(\) buttons to the right of the balance buttons to view different "pages" of the display.



 Press the ∧ button to view the next page of the display, and the ∨ button to view the previous page of the display.

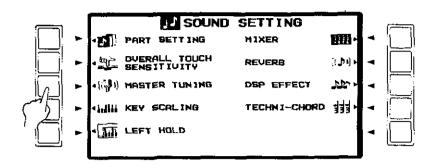
Menu display

The buttons shown in the illustration below control multiple functions. Pressing one of the buttons will access the corresponding menu display.



■ Example of menu display: SOUND

Select a function from the menu display by pressing the corresponding button to the left or right of the display indicated by the ◀ and ▶ arrows.

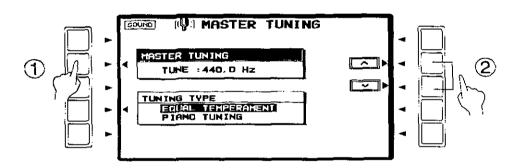


 In this manual, the steps describing how to select a function from a menu display are generally abbreviated as follows, for example: "On the SOUND menu display, select MASTER TUNING." (See illustration above.)

Setting display

When setting various functions, the available options are shown on the display. The buttons to the right, left and/or directly below the display are used to select and adjust the settings.

■ Example of setting display: MASTER TUNING



- <Example of procedure to set a function>
- ① In the illustration above, two functions are shown on the setting display: MASTER TUNING and TUNING TYPE. First, select one of the functions by pressing the corresponding button indicated by the

 arrow. (The currently selected function is highlighted.)
- In this manual, the procedure to indicate that you should press a button to select an item from the display is generally written simply as follows: "Select MASTER TUNING."
- ② The ∧ and ∨ buttons on the display are operated by pressing the corresponding buttons indicated by the ▶ arrows. These buttons are used, when appropriate, to change the setting for the selected function.
- In this manual, this procedure is written as follows: "Use the ∧ and ∨ buttons to adjust the pitch."

EXIT button

While the setting display is shown, press this button to go back to the previous display.



DISPLAY HOLD button

Press this button to turn it on when you wish to maintain the current display. For example, even during a performance, you can monitor information which is not shown on the normal display.



 If any of the MENU buttons, for example, is pressed, the DISPLAY HOLD mode is canceled.

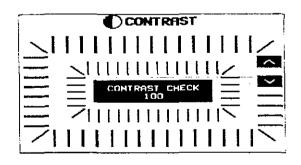
CONTRAST

Adjust the contrast of the display.

1. Press the CONTRAST button.



The LCD CONTRAST display appears.



- Use the ∧ and ∨ buttons to adjust the setting (1 to 100).
- The higher the number the lighter the display characters.
- Each time the CONTRAST button is pressed, the number is incremented by 10, allowing you to speedily set the desired contrast.
- 3. When you have finished making the settings, press the EXIT button.

TEMPO/PROGRAM dial

If the **TEMPO/PROGRAM** indicator is lit while you are using the display to adjust a setting, it indicates that the dial may be used to change the displayed value or setting.



HELP display

You can find an explanation of each button's function on the display.

 While the normal performance display is shown, press the HELP button (at the lower left of the display).



The following display appears.

HELP FUNCTION

Press any button on the KN3000 and the screen will give you information about the button's function

<Language SELECT>
You can select the language in which to display the HELP information.
Press the LANGUAGE button under the screen.

(Exit HELP)
Press HELP or EXIT to turn off the HELP
function.

ENGLISH GERMAN FRENCH SPANISH ITALIAN

- 2. Press a button on the panel to show an explanation of the button's function on the display.
- 3. When you have finished reading the message, press the HELP button again.

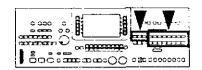
■ LANGUAGE SELECT

Use the buttons below the display to select the language in which the messages are displayed.

- The HELP display messages and error messages are shown in the selected language.
- The appearance of the display on your instrument and the illustrated display in this manual may differ depending on the region in which your instrument was purchased and the selected display language.

Part I Sounds and effects

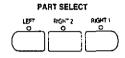
Selecting sounds



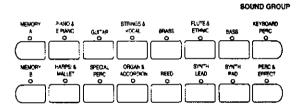
Select the sounds for the three parts you can play on the keyboard—RIGHT 1, RIGHT 2 and LEFT. After first selecting a part and a SOUND GROUP, choose the desired sound from the display.

Select a sound

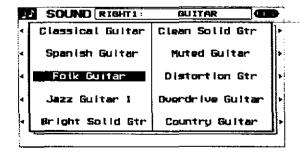
1. In the PART SELECT section, choose RIGHT
1. RIGHT 2 or LEFT.



- The CONDUCTOR buttons are used to specify which part is heard. (Refer to page 29.)
- 2. In the **SOUND GROUP** section, select a sound group.



- A list of sounds available for each sound group can be found in the separate "REFERENCE GUIDE" provided.
- MEMORY A and MEMORY B are reserved for storing sounds you modify. (Refer to page 116.)
- Most of the sounds in the KEYBOARD PERC and PERC & EFFECT sound groups do not have scaled pitches.
- 3. Select the desired sound from the list on the display.



- You can use the PAGE buttons to view a different part of the list.
- The display returns to the previous display after a few seconds.
- The selected sound is memorized independently for each sound group, so that whenever a SOUND GROUP button is pressed, the sound you chose is automatically available.
- 4. Repeat steps 1 to 3 for each of the other parts.

■ Percussion sounds

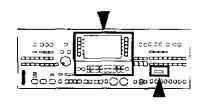
You can create a percussion performance on your keyboard.

- In the SOUND GROUP section, press the KEYBOARD PERC button.
- 2. Select the KIT of percussion instrument from the list on the display.
- 3. Play the keyboard.
- Percussion instrument sounds are produced by the keyboard keys as indicated by the picture code above each key. (For further explanation, refer to the separate "REFERENCE GUIDE" provided.)
- In the Orchestral KIT and Sound Effect KIT, the arrangement of percussion instruments is different.
- You can store your original drum kit in the USER KIT. (Refer to page 133.)

This instrument features INITIAL TOUCH (the volume, for example, changes depending on how hard the keyboard is played) and AFTER TOUCH (effects are added by pressing the keys harder).

- The keyboard touch response can be adjusted. (Refer to page 111.)
- The AFTER TOUCH can be adjusted. (Refer to pages 110 and 130.)

Digital Drawbar

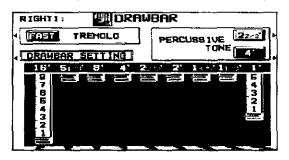


With the DIGITAL DRAWBAR, you can play organ sounds.

- 1. In the PART SELECT section, select a part.
- 2. Press the **DIGITAL DRAWBAR** button to turn it on.



· The display looks similar to the following.



- 3. Use the balance buttons below the display to adjust the volume of each drawbar.
- Foot marks below each button indicate the pitch of the drawbar. The volume of each drawbar is illustrated on the display and changes when you press the corresponding balance buttons to adjust the volume. The 1' setting is adjusted with the PAGE buttons.

 The DIGITAL DRAWBAR can be selected only for the RIGHT 1, RIGHT 2 and LEFT parts. It can not be selected for other parts, such as the MANUAL SEQUENCE PADS, the ACCOMP 1, 2, 3 and BASS parts of the COM-POSER, or PART 4 to 16 of the SEQUENCER.

■ PERCUSSIVE TONE

PERCUSSIVE TONE adds a tone with a fast initial attack to the drawbar sounds. You can select two pitch levels of attack tones (2 2/3' and 4').

Use the PERCUSSIVE TONE 2 2/3' and 4' buttons to turn the respective tone on or off.

 The tone is on when the respective indication is highlighted.

■ TREMOLO

Tremolo is a rapid oscillation in volume, like the effect of a rotating speaker. The tremolo speed can be changed while you are playing.

 The ROTARY SPEAKER of the DSP EFFECT is used for the tremolo effect. (Refer to page 115.)

Use the TREMOLO button to switch between the SLOW and FAST rotating speeds.

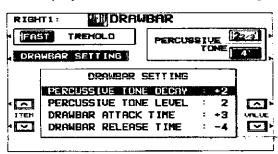
- This effect does not work if the DSP EFFECT button is turned off.
- The TREMOLO setting is effective for the RIGHT 1, RIGHT 2 and LEFT parts in common.

■ DRAWBAR SETTING

The drawbar sounds can be adjusted more precisely.

BENEFA TERRET

- 1. Press the DRAWBAR SETTING button to highlight it.
- · The display looks similar to the following.



- When you have finished changing the settings, press the DRAWBAR SETTING button again.
- The DRAWBAR SETTING is effective for the RIGHT 1, RIGHT 2 and LEFT parts in common.

- 2. Select the drawbar setting you wish to change.
- Use the ITEM ∧ and ∨ buttons to select the item. Use the VALUE ∧ and ∨ buttons buttons to change the setting.

PERCUSSIVE TONE DECAY: Adjust the time it takes for the percussive tone to die out.

PERCUSSIVE TONE LEVEL: Adjust the volume of the percussive tone.

DRAWBAR ATTACK TIME: Adjust the time it takes for the drawbar sound to sound after a key is played.

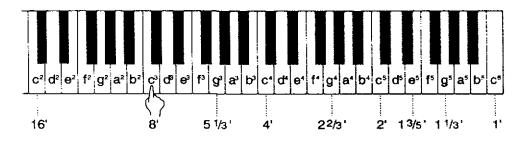
DRAWBAR RELEASE TIME: Adjust the time it takes for the drawbar sound to die out after the keys are released.

The drawbar settings can be stored in the **MEMORY A** or **MEMORY B** button. (Refer to page 134.)

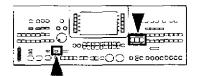
About foot marks

The foot indication on each balance button (for example 8') refers to the pitch of a rank of pipes in a pipe organ. If 8' is used as the standard (the pitch as played on the keyboard), a 16' rank pitch will be one octave below the 8' rank pitch, and a 4' rank pitch one octave above.

When the C3 key is pressed, the sounds of the different pitch ranks are as follows.

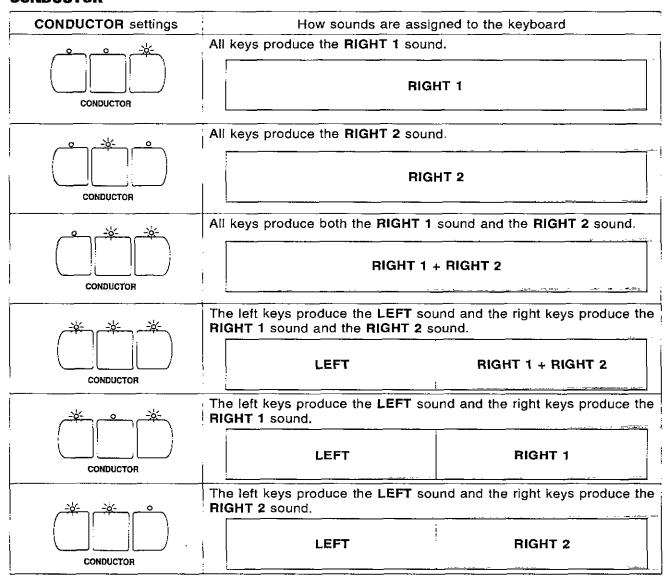


Assigning parts to the keyboard



The **CONDUCTOR** buttons are used to assign sounds to the keyboard in many different ways. For example, you can assign two sounds to the entire keyboard so that playing one key will produce two sounds. You can even split the keyboard into right and left sections (**SPLIT**), and assign a different sound to each section.

CONDUCTOR



- The volume for each part can be adjusted independently. (Refer to page 21.)
- The following conditions are in effect when the AUTO PLAY CHORD is used.
 ONE FINGER, FINGERED mode: You cannot assign sounds to all the keys.
 PIANIST mode: The keyboard cannot be split.

SPLIT POINT

When the keyboard is divided into left and right sections, the split point is indicated by the lit indicator. You can change the location of the split point.



Each time the **SPLIT POINT** button is pressed, the indication moves to the next split point in the following order. $G2 \rightarrow G3 \rightarrow G3 \rightarrow \text{customized}$ split point (all indicators off) (see below).

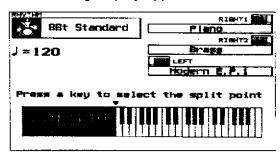
■ Customized split point

Use the following procedure if you wish to store a split point at a location other than G2, C3 or G3.

1. Press and hold the **SPLIT POINT** button for a few seconds.

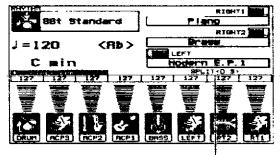


The following display appears.



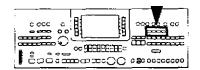
- 2. Press a key on the keyboard to specify the desired split point.
- A split point is set at the location of the pressed key, and is indicated by an arrow on the keyboard illustration on the display.
- The key at the split point is the lowest note of the right keyboard section.
- After a few seconds, the display exits the setting mode.

 Whenever the keyboard is split, you can select your customized split point by pressing the SPLIT POINT button until none of the split point indicators is lit. In this case, the customized split point is indicated on the display.



Customized split point

Effects



You can achieve even fuller and stirring sounds by adding various effects.

DIGITAL EFFECT

DIGITAL EFFECT gives the sound richness and enhances your performance.

- In the PART SELECT section, turn on the part to which this effect will be applied.
- Press the DIGITAL EFFECT button to turn it on.



- The on or off status of the DIGITAL EFFECT is set automatically for each sound.
- This effect differs depending on the selected sound.
- This effect does not work for the DIGITAL DRAWBAR and the sounds in the KEY-BOARD PERC sound group.
- The display can also be used to set this effect to on or off for each part. (Refer to page 108.)

DSP EFFECT

You can change the quality of the sound.

- 1. In the **PART SELECT** section, turn on the part to which this effect will be applied.
- 2. Press the DSP EFFECT button to turn it on.



- The DSP EFFECT can be set to on or off for each part.
- When the DIGITAL DRAWBAR is on, this button turns on the tremolo (ROTARY SPEAKER) effect
- If you press and hold this button, the display can be used to select the type of DSP EFFECT and to make fine adjustments. (Refer to page 115.)

SUSTAIN

SUSTAIN is the gradual fading out of musical tones after the key is released.

- 1. In the PART SELECT section, turn on the part to which this effect will be applied.
- 2. Press the SUSTAIN button to turn it on.



- The SUSTAIN can be set to on or off for each part.
- This effect does not work for the sounds in the KEYBOARD PERC sound group and for some other sounds.
- The display can also be used to set this effect to on or off for each part and to adjust the length of sustain. (Refer to page 108.)
- The sustain can also be turned on and off with the optional Foot Switch (sold separately). (Refer to pages 50 and 110.)

DIGITAL REVERB

DIGITAL REVERB applies a reverberation effect to the sound.

1 30 sa..

Press the DIGITAL REVERB button to turn it on.

DIGITAL

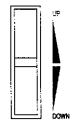
- This effect is applied to all the sounds of the keyboard.
- If you press and hold this button, the display can also be used to select the type of DIGITAL REVERB and to make related fine adjustments. (Refer to page 115.)
- The display can also be used to set the depth of this effect for each part. (Refer to page 108.)

PITCH BEND

The pitch of the instrument can be continuously changed with the PITCH BEND wheel at the left end of the keyboard. Using this control, you can produce the effect of bending the strings on a guitar.

While pressing a key on the keyboard, move the wheel up and down to control the pitch.





- When you release your hand from the wheel, it returns automatically to the center position and the pitch bend effect is turned off.
- The pitch bend effect does not function for the AUTO PLAY CHORD accompaniment pattern and for the sounds of the LEFT part.
- The amount of pitch bend can be set. (Refer to page 109.)

MODULATION

The **MODULATION** wheel is used to apply a vibrato effect, for example, to the sound.

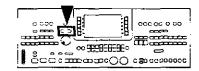
While pressing a key on the keyboard, move the wheel up to add the effect.

MODULATION



- When this effect is not needed, set the MODULATION wheel to the MIN position.
- This effect differs depending on the selected sound.
- The vibrato effect does not function for the AUTO PLAY CHORD accompaniment pattern and for the sounds of the LEFT part.

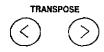
Transpose



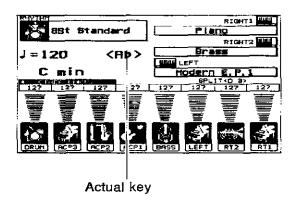
The **TRANSPOSE** buttons are used to change the key of the entire instrument in semi-tone steps across an entire octave.

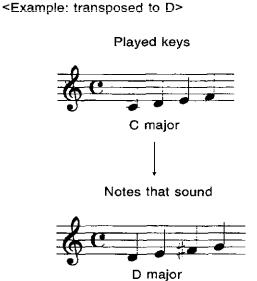
Suppose you learn to play a song—in the key of C, for example—and decide you want to sing it, only to find that it's either too high or too low for your voice. Your choice is to either learn the song all over again in a different key, or to use the TRANSPOSE feature.

Adjust the key with the < and > buttons.

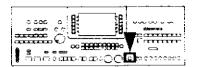


- Each press of the > button changes the key as follows: D¹ → D → E¹ → E → F → F². Each press of the < button changes the key as follows: B → B¹ → A → A² → G.
- If the two buttons are pressed at the same time, the key returns to C.
- When the TRANSPOSE function is active, the transposed key is shown on the display.





Techni-chord



TECHNI-CHORD turns your single note melodies into full chords and offers you a choice of 13 different types from a simple duet which adds one harmony note to your melody note, to big band reeds which adds four harmony notes to your melody note. If TECHNI-CHORD is part of a ONE TOUCH PLAY or MUSIC STYLE SELECT registration, a suitable TECHNI-CHORD type will be selected automatically.

- 1. Split the keyboard into left and right sections. (Refer to page 29.)
- 2. Press the TECHNI-CHORD button to turn it on.



- Play the keyboard.
- The melody you play with your right hand is automatically played in chords which are based on the chords you play with your left hand.

Example:

Left hand (chord)

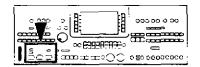
Right hand (melody)



- This feature is very effective when used with the AUTO PLAY CHORD.
- If you press and hold this button, the display can be used to select the desired harmony style. (Refer to page 113.)

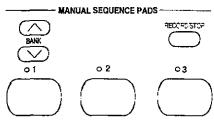
Part II Manual Sequence Pads

Playing phrases

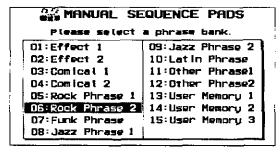


During your performance, you can insert a short recorded phrase or effect sounds by pressing a pad button. Several types of phrases have been prerecorded, but you can also create your own phrases and store them.

 Use the BANK buttons to select the desired phrase bank.



- Banks 13 to 15 are for storing your original phrases. (Refer to page 36.)
- During bank selection, the display changes to the following bank-select display. After a few seconds, the display returns to the previous display.

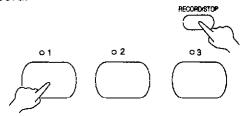


- 2. Press pad button 1, 2 or 3.
- The selected phrase is played in the current tempo.
- To stop the phrase before it has ended, press the RECORD/STOP button.
- Some phrases continue to play until the RECORD/STOP button is pressed.
- A different phrase is played by each pad button 1, 2 and 3.
- When the automatic accompaniment is on, the phrase is played in the specified chord.
- The volume of the MANUAL SEQUENCE PADS can be adjusted. (Refer to page 22.)

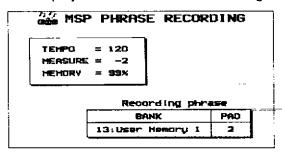
Record a phrase

Banks 13 to 15 are reserved for storing your original phrases.

- Use the TEMPO/PROGRAM dial to adjust the recording tempo.
- 2. Use the **BANK** buttons to select a user bank number (13, 14 or 15).
- Do not select a bank other than these.
- While pressing the RECORD/STOP button, press the pad button in which you wish to record.



- During recording, the indicator for the selected pad button flashes.
- · The display looks similar to the following.



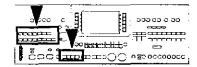
- Select the sounds and effects for the phrase you are going to record.
- 5. Press the START/STOP button.
- After a two-measure count (MEASURE= -2, -1), recording begins.
- 6. Record the phrase.
- 7. When you have finished recording the phrase, press the **START/STOP** button.
- You can also stop recording by pressing the RECORD/STOP button.

- 8. Repeat steps 1 to 7 to record phrases in the other pad buttons as desired.
- Follow the same procedure to record phrases in the other user banks.
- · The following information is stored.
 - -Your keyboard performance
 - -- Sound settings and changes
 - -SUSTAIN setting
 - --- PITCH BEND, MODULATION wheel operation, etc.
- The memory capacity of all the MANUAL SE-QUENCE PADS user banks is approximately 1200 notes. The remaining memory available for recording is shown on the display as a percentage (MEMORY= %). When "Memory full!" appears on the display, no more data can be stored.

Part III Playing the rhythm

The rhythm section enhances the capabilities of your Keyboard with features such as automatic performance of the preset rhythm patterns and accompaniment patterns.

Selecting rhythms

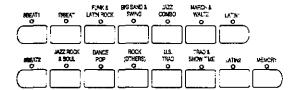


After first selecting a RHYTHM GROUP, choose the desired rhythm from the display.

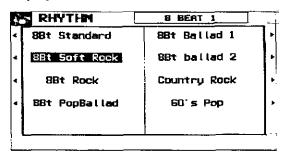
Select a rhythm

1. In the RHYTHM GROUP section, select a rhythm group.

RHYTHM GROUP



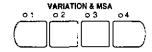
- A list of rhythms available for each rhythm group can be found in the separate "REFER-ENCE GUIDE" provided.
- MEMORY is reserved for storing rhythms you create yourself. (Refer to page 81.)
- A COMPOSER CHORD MAP can also be selected as a rhythm. (Refer to page 92.)
- 2. Select the desired rhythm from the list on the display.



- The rhythm you selected is shown in the RHYTHM box on the normal performance display.
- The selected rhythm is memorized independently for each rhythm group, so that whenever a RHYTHM GROUP button is pressed, the rhythm you chose is automatically available.
- A few seconds after the setting is changed, the display returns to the previous display.

■ VARIATION

There are four variations available for each rhythm. Use the **VARIATION & MSA** buttons to select the desired variation.



- The nuance of the pattern differs with each variation number.
- You can change to a different variation while the rhythm is playing.

Start the rhythm

There are two ways to start the rhythm.

■ Immediate rhythm start

- 1. Select a rhythm.
- 2. Press the START/STOP button to turn it on.



- The selected rhythm pattern immediately begins to play.
- You can stop the rhythm by pressing the START/STOP button again to turn it off.
- The BEAT indicators above the START/STOP button light to indicate the beat. On the first beat of the measure, the red indicator lights. On the second and succeeding beats of the measure, the green indicators light in order.

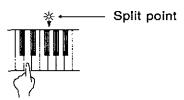
■ Synchronized start

With the synchronized start feature, the rhythm pattern starts when you play a key on the keyboard.

- 1. Select a rhythm.
- Press the SYNCHRO & BREAK button to turn it on.



Play a key to the left of the keyboard split point.



- · The rhythm pattern begins to play.
- You can use the synchronized start feature even when the keyboard is not divided into left and right sections. To start the rhythm, press a key to the left of the specified split point.

■ Adjust the tempo

The tempo of the rhythm pattern is adjusted with the TEMPO/PROGRAM dial.





- The tempo is shown on the display as a numerical value (= 40 to 300).
- When the TEMPO/PROGRAM indicator is lit, the TEMPO/PROGRAM dial cannot be used to adjust the tempo.

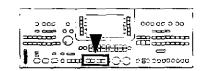
TAP TEMPO

You can set the tempo of the rhythm by tapping this button few times with your finger.



 The tempo at which the button is tapped is detected, and the tempo automatically changes correspondingly.

Playing the rhythm



Intro, fill-in and ending patterns fitting each different rhythm pattern are permanently recorded in your Keyboard, thus allowing a versatile rhythm performance.

INTRO

Begin the rhythm performance with an intro pattern.

1. Press the INTRO & ENDING 1 or INTRO & ENDING 2 button to turn it on.



Press the START/STOP button to start the rhythm.



 An intro pattern is played, after which the normal rhythm pattern begins.

COUNT INTRO

You can begin the rhythm performance with a one-measure count.

 Press the COUNT INTRO (FILL IN 2) button to turn it on.



- 2. Press the **START/STOP** button to start the rhythm.
- A one-measure count is played, after which the normal rhythm pattern begins.

FILL IN

You can insert a fill-in pattern any time during the rhythm performance. Choose from two different fill-in patterns.

- Select a rhythm and press the START/STOP button.
- 2. Press the FILL IN 1 or FILL IN 2 button.



- A fill-in pattern is heard immediately for the remainder of the measure.
- When a FILL IN button is pressed on the last beat of the measure, the fill-in pattern continues to the end of the following measure.

ENDING

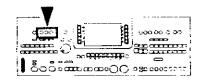
Finish the rhythm performance with an ending pattern.

- Select a rhythm and press the START/STOP button.
- Press the INTRO & ENDING 1 or INTRO & ENDING 2 button to turn it on.



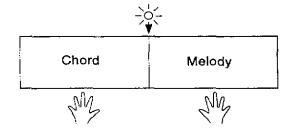
- An ending pattern is produced, and then the rhythm performance stops.
- If you accidentally press the INTRO & END-ING button in the middle of the tune, you can press the FILL IN 1 or FILL IN 2 button. The ending pattern stops, and a fill-in pattern is produced, after which the normal rhythm performance continues.

Auto Play Chord



Simply by playing a chord on the keyboard, the AUTO PLAY CHORD function automatically plays an accompaniment pattern which matches perfectly the selected rhythm. With a real accompaniment as a background, you can concentrate on playing the melody.

How the AUTO PLAY CHORD works



When an AUTO PLAY CHORD mode is selected, an automatic accompaniment which matches the rhythm you have chosen is played in the chord which you specify with your left hand. The melody is played with your right hand.

- The accompaniment pattern of the AUTO PLAY CHORD is composed of five parts: DRUMS, BASS, ACCOMP 1, ACCOMP 2 and ACCOMP 3.
- The volume of each part can be adjusted with the buttons below the display. (Refer to page

Playing chords

Choose from three ways of playing chords.



■ ONE FINGER mode

In the ONE FINGER mode, a major chord can be played just by pressing the key for its root note.

Example: C chord



Minor, seventh and minor seventh chords are also easily produced.

minor chord	seventh chord	minor seventh chord Play the root note plus a black key and a white key to the left of it.		
Play the root note plus a black key to the left of it.	Play the root note plus a white key to the left of it.			
Example: Cm	Example: C7	Example: Cm7		

■ FINGERED mode

In the FINGERED mode, you specify the chord by playing all the notes in the chord.



The Keyboard can distinguish the following played chords for each key (C is given as an example): C, C7, CM7, Caug, Caug7, Cm, Cm7, Cdim, Cm7⁵⁵, CmM7, Csus4, C7sus4, C⁵⁵, C7⁵, Cm⁵⁵, C6, Cm6, CM7⁵⁵, CM7⁵⁵, CmM7⁵, etc.

■ PIANIST mode

In the PIANIST mode, the entire keyboard can be used to specify chords (FINGERED mode) for the automatic accompaniment; a RIGHT part is assigned to all the keys, and the keyboard does not split. In addition to the chords in the FINGERED mode, the Keyboard also recognizes 9th and 13th chords.

When specifying chords, if you press a key a
perfect 5th or more below the lowest note of
the chord, the BASS part becomes a pattern
based on that note.

ON BASS



If the **ON BASS** button is on while the FINGERED or PIANIST mode is selected, the **BASS** part is produced in the key of the lowest note of the played chord, thus making it possible to play chords such as C on G.

 For example, with the ON BASS button on, if you play a C chord by pressing the keys G, C and E, the BASS part is produced in the key of G.

■ MEMORY



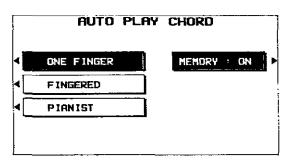
When the **MEMORY** button is on, even when the keys are released, the chord is memorized and the accompaniment continues to play until you specify another chord.

How to use the AUTO PLAY CHORD

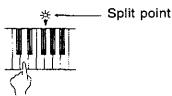
- 1. Select the desired rhythm and sound(s), and set the tempo.
- 2. Press the AUTO PLAY CHORD button to turn it on.



· The display looks similar to the following.



- 3. Select an AUTO PLAY CHORD mode (ONE FINGER, FINGERED or PIANIST).
- After a few seconds, the display returns to the previous display.
- If the ONE FINGER or FINGERED mode was selected, the keyboard automatically splits into right and left sections.
- The on/off status of the MEMORY button can also be changed with the MEMORY button on this display.
- 4. Press the **START/STOP** button to begin the rhythm.
- You can start the rhythm by playing a key on the keyboard. (Refer to page 38.)
- 5. Specify a chord.
- If the ONE FINGER or FINGERED mode was selected, specify the chord on the keyboard section to the left of the split point.



 An accompaniment pattern in the specified chord is automatically played. Play the melody with your right hand.

Example of how to play a ONE FINGER accompaniment

Play the melody with your right hand.



- When you use FILL IN, INTRO and ENDING, the automatic accompaniment is also used in these patterns.
- In the ONE FINGER mode, the sound assigned to the left section of the keyboard (LEFT part) does not sound in the initialized condition.
- You can set the mode which determines how the LEFT part sounds during an AUTO PLAY CHORD performance. (Refer to page 114.)
- To stop the automatic accompaniment, press the START/STOP button.
- In the initialized condition, when the rhythm is off, if an AUTO PLAY CHORD mode is on and a chord is specified, the specified root note (R. BASS part) and chord notes (CHORD part) are produced. The volumes of these notes can be adjusted. (Refer to page 22.)
- The volume for each part can be adjusted. (Refer to page 21.)

DYNAMIC ACCOMP

DYNAMIC ACCOMP is a function which changes each accompaniment pattern of the **AUTO PLAY CHORD**.

1. Press the **DYNAMIC ACCOMP** button to turn if on.

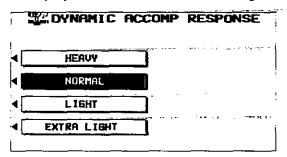


- Play the keyboard in one of the AUTO PLAY CHORD modes.
- Depending on the condition of the performance, each ACCOMP part changes.

■ Response adjustment

You can adjust how the keyboard touch affects the **DYNAMIC ACCOMP** function.

- Press and hold the DYNAMIC ACCOMP button for a few seconds.
- · The display looks similar to the following.



- 2. Select the desired mode.
- After a few seconds, the display returns to the previous display.
- You can also access this setting display from the MEMORY & CONTROL menu display. (Refer to page 95.)

BREAK function

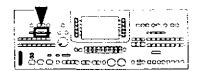
With the break function, the rhythm starts when the left keyboard is played and stops when the fingers are removed from the keys.

- 1. Select an AUTO PLAY CHORD mode.
- At this time, the MEMORY button should be off.
- Press the SYNCHRO & BREAK button to turn it on.



- 3. Specify a chord.
- The automatic accompaniment begins to play (synchronized start).
- For the PIANIST mode, play the keys to the left of the currently set split point.
- 4. Release the chord keys.
- The automatic accompaniment stops. When the keys are pressed again, the rhythm starts from the first beat.

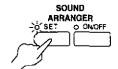
Sound Arranger



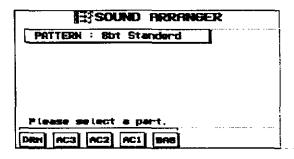
The SOUND ARRANGER feature lets you select other sounds for the AUTO PLAY CHORD parts of each rhythm.

Setting the sounds

- 1. Select the rhythm whose sound you wish to change.
- · Do not select a MEMORY rhythm.
- 2. In the **SOUND ARRANGER**, press the **SET** button to turn it on.



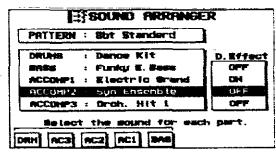
· The display changes to the following.



Use the balance buttons below the display to select the part whose sound you wish to change.

BAS: BASS

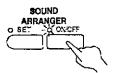
AC1: ACCOMP 1 AC2: ACCOMP 2 AC3: ACCOMP 3 DRM: DRUMS The display changes to the following.



- 4. Select the desired sound.
- The DIGITAL EFFECT on/off status can also be specified (except for DRUMS part).
- For the DRUMS part, select sounds from the KEYBOARD PERC sounds. (These sounds cannot be selected for other parts.)
- The sound and on/off status of the DIGITAL EFFECT are shown on the display.
- Repeat steps 3 and 4 for the other parts as desired.
- 6. When you have finished selecting the sounds, press the SET button to turn it off.

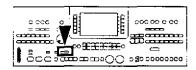
Playing back the sounds

 In the SOUND ARRANGER, press the ON/OFF button to turn it on.



- 2. Start the rhythm (automatic accompaniment).
- When the ON/OFF button is off, the factorypreset sounds are produced.

One Touch Play



ONE TOUCH PLAY sets up the your instrument with a suitable registration for your chosen rhythm style so that you can make a great sound straight away, even if you are playing this instrument for the first time. Using ONE TOUCH PLAY sets a suggested combination of sounds and balances and an appropriate tempo for rhythm style at the push of a button.

- 1. Select a rhythm pattern.
- Do not select a rhythm from the MEMORY group.
- Press the ONE TOUCH PLAY button until its indicator goes out.



· The display looks similar to the following.

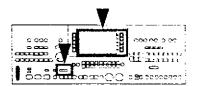


 The AUTO PLAY CHORD, the MEMORY button and the SYNCHRO & BREAK button are automatically turned on. When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately.

Suggestions for using ONE TOUCH PLAY

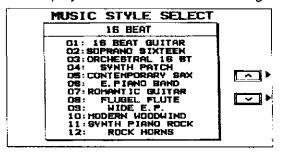
Press the INTRO & ENDING button before you play for a professional sounding introduction. Use the ONE TOUCH PLAY registration as a starting point for your own registration. Alter the sounds, balance and tempo to your own taste and store your new registration in the PANEL MEMORY for future use.

Music Style Select



MUSIC STYLE SELECT sets up your instrument with a suitable registration for a specific style of music. Select from this instrument's list of style names and MUSIC STYLE SELECT does the rest for you, setting suitable sounds and volume balances, along with the appropriate rhythm, accompaniment and tempo for your chosen style.

- Press the ONE TOUCH PLAY button momentarily.
- The display looks similar to the following.



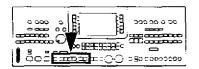
- The name of the style shown on the display may become altered.
- 2. In the RHYTHM GROUP section, select a rhythm group.
- Use the ∧ and ∨ buttons to select a music style.
- The AUTO PLAY CHORD, the MEMORY button and the SYNCHRO & BREAK button turn on, and the sounds, effects, rhythm and tempo which are best suited for the selected music style are automatically selected. When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately.

Suggestions for using MUSIC STYLE SELECT

Press the **INTRO & ENDING** button before you play for a professional sounding introduction.

Use the MUSIC STYLE SELECT registration as a starting point for your own registration. Alter the sounds, volume balance and tempo to your own taste and store your new registration in the PANEL MEMORY for future use.

Music Style Arranger



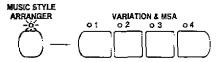
The MUSIC STYLE ARRANGER helps you to make professional registration changes during your performance. Select between four contrasting registrations at the push of a button, or let your instrument change the registration automatically for you when you use FILL IN 1 or 2. The MUSIC STYLE ARRANGER will also alter the accompaniment in character with the registration change creating a polished sounding arrangement.

How to use the MUSIC STYLE ARRANGER

- 1. Select a rhythm pattern.
- Press the MUSIC STYLE ARRANGER button to turn it on.



3. Use the VARIATION & MSA buttons to select a style (1 to 4).



- The nuance of the pattern differs with each number.
- The panel settings (including the tempo) change according to the selected rhythm and music style. The AUTO PLAY CHORD, the MEMORY button and the SYNCHRO & BREAK button are automatically turned on. When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately.
- During your performance, the style can be changed, but the tempo does not change.

How to change the music style during your performance

While you are playing the keyboard with the MUSIC STYLE ARRANGER on, press the FILL IN 1 or FILL IN 2 button.



Each time the FILL IN 1 button is pressed, the FILL IN 1 pattern plays, and then the music style changes in the 4 → 3 → 2 → 1 order. And each time the FILL IN 2 button is pressed, the FILL IN 2 pattern plays, and then the style changes in the 1 → 2 → 3 → 4 order.

■ MUSIC STYLE ARRANGER mode

You can define which panel settings change by pressing a FILL IN button when the MUSIC STYLE ARRANGER is used.

- 1. Press and hold the MUSIC STYLE AR-RANGER button for a few seconds.
- The display changes to the following.



2. Select the mode.

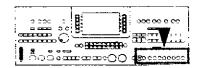
RHYTHM: Only the rhythm changes.

SOUND & RHYTHM: Both the sound and rhythm change.

PANEL MEMORY: The PANEL MEMORY number (BANK1: 1 to 4) changes.

- After a few seconds, the display exits the setting mode.
- You can also access this setting display from the MEMORY & CONTROL menu display. (Refer to page 95.)

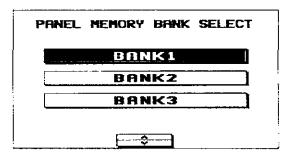
Panel Memory



PANEL MEMORY stores the panel set up of this instrument allowing you to make complex changes at the push of a single button.

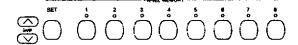
How to store the panel settings

- 1. Set up the desired panel settings (sounds, volumes, etc.)
- Press the BANK buttons to select a bank (1 to 3).
- · The bank number is shown on the display.



- The ∧ and ∨ buttons below the display can also be used to select the bank.
- A few seconds after the setting is changed, the display returns to the previous display.

3. With the SET button held down, press one of the numbered buttons of the PANEL MEMORY (1 to 8).

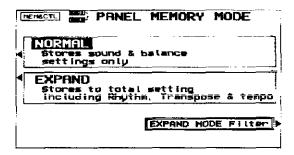


- The panel settings are now stored in the specified bank and number.
- To recall the stored settings, just select the BANK and press the desired PANEL MEMORY number button. (You can then change the sound settings, etc. manually; however, the memory contents of the PANEL MEMORY remain unchanged until you store them again.)
- The PANEL MEMORY settings can be saved on a disk for recall at a later time. (Refer to page 101.)

■ PANEL MEMORY mode

You can define which panel settings are stored when the **PANEL MEMORY** is used.

- Press and hold the SET button for a few seconds.
- · The display changes to the following.



2. Select the mode.

NORMAL: The sounds and volume balance, effects and CONDUCTOR status are stored.

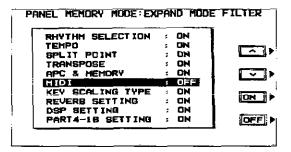
EXPAND: All the instrument's settings are stored, including the rhythm (except for SOUND ARRANGER on/off status), TRANSPOSE, tempo, etc.

- After a few seconds, the display exits the setting mode.
- You can also access this setting display from the MEMORY & CONTROL menu display. (Refer to page 95.)

■ EXPAND MODE FILTER

You can specify which data is stored in the EX-PAND mode.

- 1. On the PANEL MEMORY MODE display, press the EXPAND MODE FILTER button.
- · The display looks similar to the following.



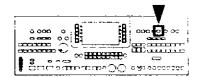
- 2. Use the \wedge and \vee buttons to select the item.
- 3. Use the ON and OFF buttons to store the on or off status for the selected item.
- 4. Repeat steps 2 and 3 for each item, as desired.

Suggestions for using PANEL MEMORY

The initial factory setting of PANEL MEMORY contains professional settings which you may choose to use or to alter to your own taste. These can be restored at any time by initializing the PANEL MEMORY. You can change from one PANEL MEMORY to another by using a Foot Switch. Press MEMORY & CONTROL and select FOOT SWITCH SETTING on the display to assign this function.

Foot switch setting

..... SE | MILION -



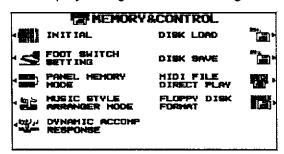
If an optional Foot Switch (sold separately) is connected, you can assign it one of several functions. The assigned function can then be controlled with the Foot Switch.

Assigning functions

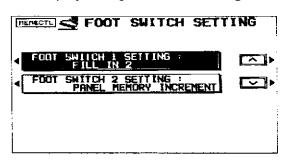
 Press the MEMORY & CONTROL button to turn it on.



The display changes to the following.



- 2. Select FOOT SWITCH SETTING.
- The display changes to the following.



3. Select FOOT SWITCH 1 SETTING or FOOT SWITCH 2 SETTING.

 Use the ∧ and ∨ buttons to select a desired function.

PANEL MEMORY 1-1 to 3-8: The specified **PANEL MEMORY** bank and number are turned on.

PANEL MEMORY INCREMENT: increment the PANEL MEMORY selection by 1.

START/STOP: START/STOP button on/off RHYTHM VARIATION 1-4: VARIATION button on

FILL IN 1: FILL IN 1 button on FILL IN 2: FILL IN 2 button on

INTRO & ENDING 1: INTRO & ENDING 1
button on

INTRO & ENDING 2: INTRO & ENDING 2 button on

SUSTAIN: SUSTAIN button on/off

PAD 1-3: MANUAL SEQUENCE PADS on DIGITAL EFFECT: DIGITAL EFFECT button on/off

DSP EFFECT: **DSP EFFECT** button on/off GLIDE: Glide on/off (The glide effect "bends" the pitch down by about one semi-tone.)

TECHNI-CHORD: TECHNI-CHORD button on/off

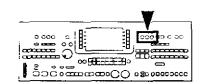
PUNCH RECORD: Punch in/punch out (Refer to page 78.)

TREMOLO SLOW/FAST: TREMOLO SLOW/FAST of the **DIGITAL DRAWBAR** (Refer to page 27.)

- Repeat steps 3 and 4 to assign functions to the Foot Switches as desired.
- When you have completed making the settings, press the MEMORY & CONTROL button to turn it off.
- For details about connecting the Foot Switches, please refer to page 145.

Part IV Sequencer

Outline of the Sequencer



A sequencer records your performance in a similar way to a tape recorder. This istrument's **SEQUENCER** allows you to record up to 10 performances in a variety of ways. You may want to record your entire performance in one go (especially if you are using **AUTO PLAY CHORD** to provide the accompaniment), or to build up a complex arrangement with several different parts playing together, like an orchestral score. This istrument's **SEQUENCER** has 16 tracks. This means that you can record 16 different parts. However, you don't have to use all 16 tracks. For some uses you may only need to use one or two tracks. This istrument's **SEQUENCER** enables you to edit your recorded performance. Unlike a tape recorder you can change the sound or the tempo during playback, or correct wrong notes or timing errors

SEQUENCER features

You can change the tempo without changing the pitch

When you record your performance at a slow tempo and play it back at a faster tempo, the pitch stays the same.

■ Consistent sound

Your performance is reproduced by a sound module as it reads digital data. So, unlike a recorded tape, the sound never deteriorates no matter how many times you play back your performance.

■ Edit your recorded performance

Comprehensive editing functions allow you to modify your recorded performance. Data can easily be erased, corrected or copied, providing an especially convenient tool for creating your original tunes.

■ Instant search

A recorded tape has to be rewound, but digital action means you can return to the beginning of your performance, or find any measure, instantly.

Save your performances on disks

All the data of your recorded performances can be stored on disks. The built-in Disk Drive also allows you to play commercially sold disks on your own Keyboard.

 Features and operation of the built-in Disk Drive are explained in Part VI: Disk Drive (page 94).

Popular features

■ Simplified recording method

EASY RECORD is a feature that allows you to bypass the more complex recording procedures so you can record and play back your performance quickly and easily.

 You can also record an accompaniment from the AUTO PLAY CHORD.

■ Create a one-man ensemble

Use the REALTIME RECORD function to record your performance in up to 16 tracks and create your own orchestra or band.

■ Store individual data to create your song For repeating patterns or those especially complicated phrases, the STEP RECORD feature is convenient for recording the notes one-by-one.

 This method can be used to store both the chord progression for the automatic accompaniment and the rhythm changes.

Memory capacity

Up to 10 songs can be stored in the **SEQUEN-CER**. Expressed in terms of notes, the total number of notes which can be stored in all the **SEQUENCER** songs and tracks is about 40,000. The remaining memory available for recording is shown on the display as a percentage (MEMORY= %).

- When "Memory fuli!" appears on the display, no more data can be stored in the SEQUEN-CER
- The recorded contents can be saved on a disk for recall at a later time. (Refer to page 102.)

About the measure count -

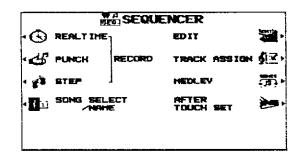
The measure count on the display corresponds to the time signature of the selected rhythm. However, if rhythm data is stored in the RHYTHM part and that part is played back, the measure count on the display corresponds to the stored rhythm data. (Refer to page 58.)

 If you wish to use a time signature not available in the preset rhythms, use the COMPOSER to create a new time signature. (Refer to page 85.)

SEQUENCER menu

When you press the **SEQUENCER** button to turn it on, the display changes to the following.





Summary of the SEQUENCER menu items

SONG SELECT/NAME (page 53)

Specify the song number and name of the song to record or play back.

REALTIME RECORD (page 56)

Record your performance just as you play it on the keyboard.

STEP RECORD (page 60)

Store the sounds note-by-note on the display.

TRACK ASSIGN (page 66)

Assign parts to up to 16 different tracks.

EDIT (page 67)

Full-scale editing features are available.

NOTE EDIT: Store and correct performance (NOTE) data on a piano roll display.

DRUM EDIT: Store and correct DRUMS_part data on a special display.

QUANTIZE: Correct the timing of the recorded performance.

TRANSPOSE: Change the key of specified performance data.

VELOCITY CHANGE: Modify the recorded velocity (how hard the keyboard was played).

SONG CLEAR: Erase the recorded contents of all tracks.

TRACK CLEAR: Erase the contents of a specific track.

NOTE CHANGE: Change the pitch of specific notes.

ADVANCE/DELAY: Speed up or delay the sound production of performance data.

SONG COPY: Copy specific songs.

TRACK MERGE: Merge the recorded contents of two tracks and store in a third track.

PANEL WRITE: Modify the panel status at the beginning of the song.

MEASURE COPY: Copy the contents of specific measures.

MEASURE ERASE: Erase the contents of specific measures.

MEASURE DELETE: Delete specific measures from the performance.

MEASURE INSERT: Insert additional measures in the performance.

PUNCH RECORD (page 78)

Correct a selected portion of your recorded performance.

MEDLEY (page 79)

Specify medley playback of songs recorded on a disk.

AFTER TOUCH SET (page 80)

Specify whether or not keyboard after touch is recorded as data.

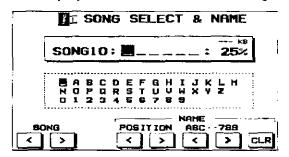
Song Select & Name

Up to 10 songs can be recorded in the **SEQUENCER**. The song number and song name are specified before recording begins.

1. Press the SEQUENCER button to turn it on.



- On the menu display, select SONG SELECT/NAME,
- · The display looks similar to the following.



- 3. Use the SONG < and > buttons to select a song number (1 to 10).
- Assign a name to the song (up to 6 characters).
- Use the POSITION < and > buttons to high-light the character position. Use the ABC 789 < and > buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- · To erase the name, press the CLR button.
- The total amount of memory used for the current song is shown as a percentage (%) to the right of the song name.
- 5. Press the EXIT button.

- 6. Follow the procedures to record the song.
- Until this procedure is repeated, all subsequent recording procedures are associated with the specified song number.
- To optimize memory, songs you do not wish to preserve should be deleted. (Refer to page 72.)
- If you wish to record the tempo for each song, record the desired tempo at the beginning of the CONTROL part. When you play back the song, be sure to also select the CONTROL part for playback.

Easy Record

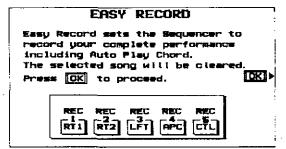
Suppose you are playing the Keyboard and you wish to record and play back your performance to hear how it sounds. You can bypass the set-up procedures of the full-scale sequencer and begin recording quickly and easily.

Recording procedure

- 1. Set the desired sounds, effects, rhythms, etc.
- 2. Select the song number. (Refer to page 53.)
- 3. Press the EASY REC button to turn it on.



The display changes to the following.



Here is what happens when you select the EASY RECORD mode.

- The recorded data for the currently selected SONG number is erased (SONG CLEAR).
- Tracks available for recording are selected as follows.
 - 1: RIGHT 1 part
 - 2: RIGHT 2 part
 - 3: LEFT part
 - 4: APC part
 - 5: CONTROL part
- 4. Press the OK button.
- The display changes to the REALTIME RECORD display.
- 5. Play the keyboard.
- Recording begins as soon as you start the rhythm or play the keyboard.
- When you have finished recording, press the EASY REC button to turn it off.
- The display changes to the SEQUENCER PLAY display.

Playback

1. Press the SEQUENCER RESET (FILL IN 1) button.



- 2. Press the START/STOP button.
- Your recorded performance is played back automatically.
- When you are finished playing back your performance, press the SEQUENCER PLAY button to turn it off.

Sequencer parts

The following summary explains what is stored in each SEQUENCER part.

Part name [name on display]	Used for	• Sound and volume settings • DIGITAL EFFECT, DSP EFFECT, SUSTAIN on/off • PITCH BEND wheel operation • MODULATION wheel operation • AFTER TOUCH (REALTIME only) (Refer to page 80.)				
RIGHT1 [RT1] RIGHT2 [RT2] LEFT [LFT] PART4 [P 4] PART15 [P15]	Recording the perform- ance of each part (REALTIME/STEP)					
DRUMS [DRM] (PART16)	Recording the drums performance with the KEYBOARD PERC group sounds (REALTIME/STEP)	Sound (drum KIT) and volume settings				
CONTROL [CTL]	Recording changes in the panel button status (REALTIME/STEP)	 Rhythm setting and selection changes DIGITAL REVERB on/off AUTO PLAY CHORD status ON BASS on/off DYNAMIC ACCOMP on/off MUSIC STYLE ARRANGER status FILL IN 1, 2, INTRO & ENDING 1, 2 on SPLIT status PANEL MEMORY selection changes TRANSPOSE status START/STOP on/off TEMPO setting CONDUCTOR status MANUAL SEQUENCE PADS operation Expression pedal operation (separately sold option) 				
AUTO PLAY CHORD [APC]	Recording chords for the AUTO PLAY CHORD (REALTIME)	• AUTO PLAY CHORD status • ON BASS on/off				
CHORD [CHD]	Recording chord progression for the AUTO PLAY CHORD (STEP)	Chord progression FILL IN 1, 2, INTRO & ENDING 1, 2 on				
RHYTHM [RHY]	Settings related to rhythm (STEP)	 Rhythm settings and selection changes FILL IN 1, 2, INTRO & ENDING 1, 2 on START/STOP on/off TEMPO setting 				

You can use the TRACK ASSIGN function to assign parts to tracks as you wish. (Refer to page 66.)

■ Default part settings

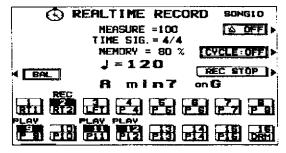
1:	RIGHT1	5:	CONTROL	9:	PART5	13:	PART9
2:	RIGHT2	6:	RHYTHM	10:	PART6	14:	PART10
3:	LEFT	7:	DRUMS	11:	PART7	15:	PART11
4:	APC/CHORD	8:	PART4	12:	PART8	16:	PART12

Realtime Record

With REALTIME RECORD, your performance is recorded with the timing exactly as you played it on the keyboard. This mode lets you store a tune with all the subtle nuances just as you play them.

Recording procedure

- 1. Select the song number. (Refer to page 53.)
- On the SEQUENCER menu display, select REALTIME RECORD.
- The display looks similar to the following.



- 3. Set the sounds, effects, volumes, etc. for the parts you are going to record.
- Use the balance buttons below the display to specify the tracks for the part you are going to record.
- Press the buttons to display "REC" above the track numbers you are going to record.
- Use the upper buttons to select tracks 1 to 8, and the lower buttons to select tracks 9 to 16.
- While you are recording, you can play back tracks which are already recorded. Press the corresponding balance buttons to display "PLAY" above the track number you wish to have played back.
- You can select two or more tracks to record at one time. To record a performance part, the corresponding button in the CONDUCTOR (RIGHT 1, RIGHT 2, LEFT) must also be on.
- The track for the RHYTHM (RHY) part can be selected for recording only when STEP RECORD is active.
- When you select a track, the panel settings you selected in step 3 are stored.
- Use the TEMPO/PROGRAM dial to adjust the recording tempo.
- The tempo is shown on the display as a numerical value (, =).
- If you wish to record the tempo setting and tempo changes, store them in the CONTROL part, or use the STEP RECORD: RHYTHM. (Refer to page 64.)

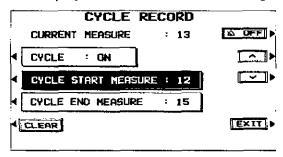
- Turn the metronome on or off as desired with the ON or OFF button.
- The metronome selection alternates between ON and OFF each time the button is pressed.
- The metronome sound is not recorded.
- The volume of the metronome can be adjusted. (Refer to page 22.)
- 7. Play the keyboard.
- · Recording begins.
- The current measure number is shown as "MEASURE=" on the display.
- You can also press the START/STOP button to start the rhythm and begin recording.
- If the metronome is on, when you press the START/STOP button, a two-measure count
 plays, after which recording automatically begins. In this case, the rhythm does not start.
- Recording does not start until the two-measure count is completed.
- The recording status is continuously updated on the display: "TIME SIG.=" indicates the current time signature; and "MEMORY=" indicates the remaining memory (%) available for recording.
- If you wish to adjust the volume of each track or part during recording, press the BAL button to recall the TRACK BALANCE display. You can then adjust the volumes.
- If you make a mistake in recording, you can correct a specific portion of your performance without having to redo the whole part. (Refer to page 78.)
- If you wish to redo the recording or change the recording track, press the REC STOP button.
- 8. When you have finished recording, press the **SEQUENCER** button to turn it off.
- When the SEQUENCER button is turned off, the ending command (END) is recorded. Note that, as long as the ending command is not recorded, blank recording continues even if you stop playing.
- The display changes to the SEQUENCER PLAY display.

- 9. If you wish to record other tracks, repeat steps 2 to 8 and continue recording other tracks of the song (multi-track recording).
- For multi-track recording, be sure to press the START/STOP button to begin playback of the tracks already recorded.

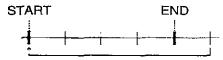
CYCLE RECORD

This mode allows you to have specified recording measures continuously repeated. Thus you can record measures by adding notes during any cycle.

- 1. On the REALTIME RECORD display, specify "REC" for track numbers you are going to record, and "PLAY" for track numbers you wish to have played back.
- 2. Press the CYCLE: OFF button.
- · The display looks similar to the following.



- 3. Select CYCLE START MEASURE, and use the ∧ and ∨ buttons to specify the beginning measure number.
- 4. Select CYCLE END MEASURE, and use the ∧ and ∨ buttons to specify the ending measure number.
- The measure in which the END command has been stored can also be specified.



- 5. Press the START/STOP button.
- If the metronome is on, cycle recording of the specified measures begins after a twomeasure count.

- 6. Play the keyboard.
- The specified measures are repeated, during which time you can record by adding notes little by little at the correct timing (over-dubbing).
- If you wish to erase all the performance data from the specified measures, press the CLEAR button.
- If CYCLE is selected and the V button used to select OFF, cycle recording is not activated. This button does not work during recording.
- To return to the REALTIME RECORD display, press the EXIT button.
- Cycle record can also be started from the REALTIME RECORD display whenever the CYCLE: ON indication is shown.
- The maximum number of notes which can sound simultaneously for a track is 16.
- When you have finished recording, turn off the SEQUENCER button.

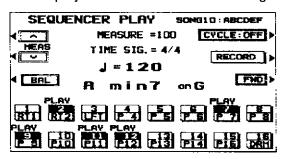
Sequencer Play

Play back your recorded performance.

- Select the song number you wish to have played back. (Refer to page 53.)
- If you are playing back a song immediately after recording it, the same song number is already selected, and this step is not necessary.
- 2. Press the SEQUENCER PLAY button to turn it on



The display looks similar to the following.



- Use the balance buttons below the display to show "PLAY" above the track numbers you wish to have played back.
- Use the upper buttons to select tracks 1 to 8, and the lower buttons to select tracks 9 to 16.
- You can select two or more tracks to play back at one time.
- 4. Use the **TEMPO/PROGRAM** dial to adjust the playback tempo.
- The tempo is shown on the display as "! =".
- Press the SEQUENCER RESET (FILL IN 1) button.
- The SEQUENCER returns to the beginning of the song and the beginning panel settings are recalled.

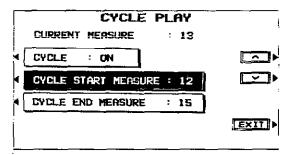
- 6. To begin playback from a measure other than measure 1, use the MEAS ∧ and ∨ buttons to specify the beginning measure.
- "MEASURE=" indicates the current measure number.
- You can quick-search for the desired measure while listening to the recorded performance by holding down the FWD button. (This button does not work during normal playback.)
- 7. Press the START/STOP button.
- The recorded performance is played back from the specified measure.
- When playback is begun from a measure in which an INTRO, COUNT INTRO, FILL IN or ENDING is recorded, the corresponding function does not work.
- To adjust the volume of each track or part, press the BAL button and change the setting on the PART BALANCE display.
- 8. To stop playback, press the START/STOP button
- If the START/STOP button is pressed again, playback will continue from the point it was interrupted.
- If the RECORD button is pressed during playback stop, the display changes to the REALTIME RECORD display.
- When you are finished playing back your performance, press the SEQUENCER PLAY button to turn it off.

If "PLAY" is specified for the track to which the RHYTHM (RHY) part is assigned, the MEASURE display used in the STEP RECORD and EDIT displays is shown conforming to the time signature data stored in the RHYTHM part.

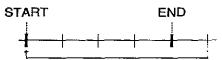
CYCLE PLAY

You can have specified measures played back repeatedly.

- On the SEQUENCER PLAY display, specify "PLAY" for track numbers you wish to have played back.
- 2. Press the CYCLE: OFF button.
- · The display looks similar to the following.



- Select CYCLE START MEASURE, and use the ∧ and ∨ buttons to specify the beginning measure number.
- 4. Select CYCLE END MEASURE, and use the ∧ and ∨ buttons to specify the ending measure number.
- The measure in which the END command has been stored can also be specified.



- 5. Press the START/STOP button.
- Cycle playback of the specified measures begins.
- The rhythm pattern is not played back.
- If the END command is entered midway through the performance, playback stops at that point. The NOTE EDIT can be used to change the position of the END command. (Refer to page 68.)

- To stop cycle playback, press the START/STOP button again.
- During playback stop, if the SEQUENCER RESET (FILL IN 1) button is pressed, the SEQUENCER returns to the measure number specified in step 3. If the SEQUENCER RESET button is pressed again, the SEQUEN-CER returns to measure 1.
- If CYCLE is selected and the v button is pressed to select OFF, cycle playback is not activated.
- To return to the SEQUENCER PLAY display, press the EXIT button.
- Cycle playback can also be specified on the SEQUENCER PLAY display whenever the CYCLE: ON indication is shown.

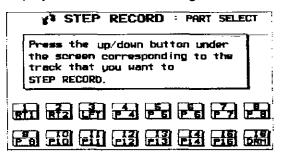
Step Record

STEP RECORD is simply a method of making a tune by storing the sounds note-by-note on the display. Instead of playing the keyboard directly as in the REALTIME RECORD mode, you can take your time to input each single note. This is an especially effective method for storing complicated passages that are difficult to play or when the exact timing of a part is critical.

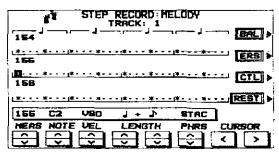
Recording procedure

Record the keyboard performance and panel changes.

- 1. Select the song number. (Refer to page 53.)
- 2. On the **SEQUENCER** menu display, select STEP RECORD.
- The display changes to the PART SELECT display similar to the following.



- 3. Use the balance buttons below the display to specify the track for the part you are going to record (only one track can be selected at a time).
- Use the upper buttons to select tracks 1 to 8, and the lower buttons to select tracks 9 to 16.
- The display changes to the STEP RECORD input display similar to the following.



- If you selected the track to which the CHORD part has been assigned, the display changes to the STEP RECORD: CHORD display. (Refer to page 63.)
- If you selected the track to which the RHYTHM part has been assigned, the display changes to the STEP RECORD: RHYTHM display. (Refer to page 64.)

- 4. Use the MEAS ∧ and ∨ buttons to select the measure.
- This step is not necessary if you are recording from measure 1 of a blank track.
- 5. Use the CURSOR < and > buttons to move the cursor to the note position (dot) you are going to store.
- Each dot represents one-eighth of a quarternote (a thirty-second note).
- When storing triplets, it may not be possible to match the timing exactly with the 1/32-note steps. However, if you select triplet-type notes for the note length (LENGTH) in step 6 below, the timing is automatically corrected.
- 5. Use the left LENGTH \wedge and \vee buttons to specify the note value. Select from $\frac{1}{3}$, $\frac{1}{$
- For note values other than these, use the right LENGTH buttons to specify the note value to be added to that which you specified with the left buttons.

Example: To record a dotted quarter-note ().

7. Use the PHRS \(\times\) and \(\times\) buttons to specify the actual length of the produced sound for the desired legato or staccato effect.

TENU (tenuto): Sound is produced for 95% of the note length.
NORM (normal): 80%
STAC (staccato): 50%
CUTT (cutting): 25%

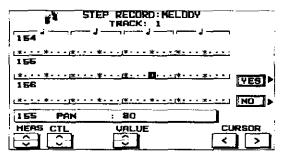
- 8. Specify the pitch and velocity of the note by playing the keyboard.
- The dot on the display where the note is stored changes to a * mark.
- When recording chords, you can store multiple notes at one position.
- Any panel setting changes—for example changes in the sound selection, button operation, wheel operation, etc.—are recorded at the cursor position.
- When a wheel or dial is operated, the input value is indicated on the display. Confirm that this is the correct value and press the YES button to record the value or the NO button to cancel it.

- REST: To store a rest, after specifying the note LENGTH, press the REST button.
- Positions at which nothing is stored are read as rests.
- ERS: If you make a mistake, move the cursor to the error, and after displaying the data you wish to erase, press the ERS button.
- BAL: To specify the volume at the cursor position, after pressing the BAL button, use the VALUE buttons to set the volume (0 to 127).
- Repeat steps 5 through 8 to continue storing notes.
- To input data on another track, press the button for the desired track and repeat the procedure from step 2.
- 10. When you have finished recording, press the **SEQUENCER** button to turn it off.

■ Storing control data

Various control data can be stored at the cursor position.

- 1. On the STEP RECORD: MELODY display, press the CTL button.
- · The display looks similar to the following.



- 2. Use the CTL \wedge and \vee buttons to select the control data you wish to insert.
- Select from PAN, KEY SHIFT (COARSE TUNE), TUNING (FINE TUNE), BEND SENS.
- Use the VALUE ∧ and ∨ buttons to adjust the numerical value of the setting.
- 4. Press YES button.

■ Correcting the data

- In the STEP RECORD mode, specify the track you wish to correct.
- Use the MEAS buttons to go to the measure you wish to modify. Use the CURSOR buttons to move the cursor to the point (*) you wish to edit.
- The data stored at that point is shown on the display.
- When multiple data is stored at one point, different data is displayed in order each time a CURSOR button is pressed. When a chord is recorded, a different note in the chord is displayed each time a CURSOR button is pressed.
- 3. Correct the data.

There are three types of data:

Performance data

NOTE data (note pitch) and VEL data (how hard the key was played), etc. are displayed. Use the relevant buttons to correct the data as desired.

Sound data

The name of the sound is displayed. Change the sound as desired (the sound setting display is interposed on the current display).

Control data

The name of the function is displayed. Change the data as desired.

- Press the ERS button to erase the data which is displayed.
- You can also correct data which was stored in the REALTIME RECORD mode.
- Performance (NOTE) data can be recorded or edited on a piano roll display, and there is also a specialized display for recording and editing the DRUMS part data. (Refer to page 69.)

Store a chord progression

Store the chord progression for the AUTO PLAY CHORD in the track for the CHORD part. Then, when the AUTO PLAY CHORD is used during playback, even if you do not specify the chords with your left hand, the chords change automatically.

The chord length is specified with the CHORD STEP RECORD Reys on the keyboard.

DELETE 14-

Note value keys

- . Whole note
- Dotted half-note
- J Half-note
- Dotted quarter-note
- . Quarter-note
- Eighth-note

Reset key

Fig- Press to begin storing from the beginning.

Correction keys

- Move back one step.
- Move forward one step.

Repeat key

Press to end the chord-storing procedure and to specify automatic repeat playback of the stored progression.

End kev

Press after the whole chord progression has been stored.

DELETE key

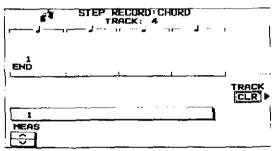
DELETE Press to erase data.

 To erase all the data from the current track, while pressing the DELETE key, press the End key (— t).

■ Example of storing a chord progression

Measure 1	2	; ;	3		4	
С	С	F	G7	С	Am	
•	۰	ل ا	ا		Ġ	

- 1. Select the song number. (Refer to page 53.)
- On the SEQUENCER menu display, select STEP RECORD.
- The display changes to the PART SELECT display.
- 3. Using the balance buttons below the display, select the track to which the CHORD (CHD) part has been assigned.
- The display changes to the STEP RECORD: CHORD input display similar to the following.



4. Store the chords.

<Measure 1, measure 2>

While playing a C chord with your left hand, press the • key one time with your right hand.



- A "beep" tone indicates that the chord has been successfully stored.
- The dot on the display where the chord is stored changes to a * mark and the cursor automatically moves forward, in accordance with the specified note value, to the next unrecorded position. The chord name is shown on the display.

<Measure 3>

While playing an F chord, press the J key one time.



(2) While playing a G7 chord, press the key one time.

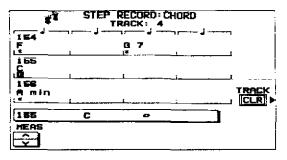


<Measure 4>

- While playing a C chord, press the , key one time.
- (2) While playing an Am chord, press the , key one time.
- You can press the INTRO & ENDING button or a FILL IN button on the panel to store the desired pattern at the cursor position. (An INTRO or COUNT INTRO can be stored only at the beginning.)
- Store a rest by pressing a note value key without specifying a chord.
- 5. At the end of the chord progression, press the End key ().
- · The Keyboard exits the recording mode.
- During playback, playback of the recorded chord progression stops at this point. For automatic repeat playback of the chord progression, press the Repeat key (⇒) instead of the End key (¬¬).
- When you play back the track for the CHORD part, the chords of the automatic accompaniment change in accordance with the stored chord progression.
- Chords can also be specified in the ONE FINGER mode.
- If the ON BASS button is on, chords such as "C on G" can also be specified (except in the ONE FINGER mode).

■ Correct the recorded chord progression

- 1. Follow the procedure to select the STEP RECORD; CHORD display.
- 2. Use the MEAS buttons to go to the measure you wish to modify. Use the ◀ and ▶ Correction keys to move the cursor to the point (*) you wish to edit.



• The lengths of rests are indicated by the respective rest value x its multiplier.

Example:

 To go to the end of the chord progression, while pressing the Reset key (├♣─), press the
 key. 3. Correct the chord data.

Chord data

When the chord name is displayed at the cursor position, you can press the DELETE key to erase the data and then store a new chord.

- If you do not erase the displayed data before entering new chord data, the new data is inserted at this point, and the displayed data is merely shifted by the note value of the new chord.
- Rests can also be erased. Each time the DELETE key is pressed, the rest is erased in units of ! x 1. The 7 rest is erased last.

Control data

The name of the stored function (INTRO, FILL, etc.) is displayed. You can press the **DELETE** key to erase the data which is displayed.

**** TRACK CLEAR**

To erase all data from the current track, press the CLR button, and then press the YES button on the confirmation display.

 If you wish to cancel the clear procedure, press the NO button.

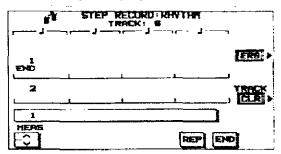
and the second second second second second

Store a rhythm progression

Changes in the rhythm selection and tempo, as well as the intro, fill-ins and the ending, can be stored by measures with the step recording method.

- 1. Select the song number. (Refer to page 53.)
- 2. On the **SEQUENCER** menu display, select STEP RECORD.
- The display changes to the PART SELECT display.
- Using the balance buttons below the display, select the track to which the RHYTHM (RHY) part has been assigned.

 The display changes to the STEP RECORD: RHYTHM input display similar to the following.



- 4. Use the MEAS ∧ and ∨ buttons to go to the measure you wish to record.
- 5. Store the rhythm data.
- Data which can be stored:

START/STOP

Changes in the rhythm selection COUNT INTRO, INTRO, FILL IN, ENDING

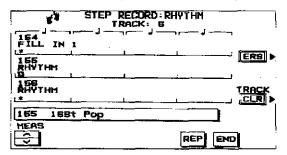
Tempo changes

- Be sure to store the START/STOP data in the measure in which the rhythm starts or stops.
- If you are storing a COUNT INTRO or INTRO, store this data before the START/STOP data.
- If the tempo is changed, the display changes to the confirmation display. After specifying the desired tempo, Press the YES button to store the specified tempo, or press the NO button to cancel the new tempo value.

- 6. Repeat steps 4 and 5 to continue storing the rhythm progression.
- 7. At the end of the rhythm progression, press the END button.
- If the REP button is pressed instead of the END button, during playback the recorded rhythm progression is repeated.
- · The Keyboard exits the recording mode.

Correct the recorded rhythm progression

- Follow the procedure to select the STEP RECORD: RHYTHM display.
- 2. Use the MEAS buttons to go to the measure you wish to modify. (The * is highlighted.)



- 3. Correct the rhythm data.
- Press the ERS button to erase data at the cursor position.
- If you select a rhythm with a different time signature, the time signature of all subsequent measures will also change.
- If data has already been recorded in other tracks, you cannot select a rhythm with a different time signature.

■ TRACK CLEAR

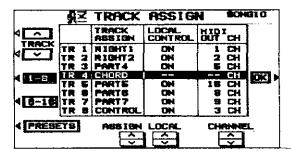
To erase all data from the current track, press the CLR button, and then press the YES button on the confirmation display.

 If you wish to cancel the clear procedure, press the NO button.

Track Assign

Each **SEQUENCER** part is already assigned to a track number. However, you can use the TRACK ASSIGN function to assign parts to tracks as you wish. This function is also used to designate the tracks used for the rhythm data and chord progression data.

- 1. Select the song number. (Refer to page 53.)
- On the SEQUENCER menu display, select TRACK ASSIGN.
- The display looks similar to the following.



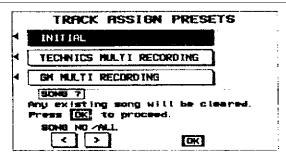
- Use the TRACK ∧ and ∨ buttons to select the track.
- You can switch between the setting display for tracks 1 to 8 and the display for tracks 9 to 16 with the 1-8 and 9-16 buttons.
- 4. Use the ASSIGN ∧ and ∨ buttons to select the part for the specified track.
- Select one of the following parts: RIGHT1, RIGHT2, LEFT, PART4 to PART15, DRUMS, CONTROL, APC, CHORD, RHYTHM. (For an explanation of each SEQUENCER part, refer to page 55.)
- When a part other than the CONTROL, APC/CHORD or RHYTHM part is assigned, the track assign procedure is completed at this point.
- Either the CHORD part or APC part can be assigned to a track, but not both.
- The RHYTHM, CONTROL and APC/CHORD parts cannot be assigned to more than one track.
- You can use the LOCAL A and buttons to turn the LOCAL CONTROL on or off, and the CHANNEL A and buttons to assign the MIDI-OUT CHANNEL. For a detailed explanation of these MIDI functions, refer to pages 138 and 139.

- 5. When assigning the CONTROL, APC/CHORD or RHYTHM part, press the OK button.
- The confirmation display appears to warn you that currently stored data in the tracks concerned will be erased. Press the YES button to confirm that you wish to execute the specified track assignment. Or press NO to stop the track assignment.

TRACK ASSIGN PRESETS

A preset track assignment can be selected.

- On the TRACK ASSIGN display, press the PRESET button.
- · The display looks similar to the following.



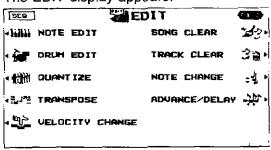
- Use the SONG NO/ALL < and > buttons to select the song number for which the preset track assignment will be effective.
- If ALL is selected, the track assignment is effective for all the songs.
- 3. Select the track assign mode.
- Select from the following modes.
 INITIAL: Factory-preset settings.
 - TECHNICS MULTI RECORDING: The optimum track assignment for multiplex recording.
 - GM MULTI RECORDING: The optimum track assignment for creating General MIDI data.
- 4. Press the OK button.
- "COMPLETED!" is shown on the display and the selected track assign mode is enabled.
- You can confirm the track assignment settings on the TRACK ASSIGN display.

Editing the recorded performance

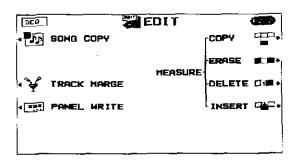
The edit feature allows you to erase or change portions of your performance after it has been recorded.

Select the edit function

- 1. Select the number of the song you wish to edit. (Refer to page 53.)
- 2.On the **SEQUENCER** menu display, select EDIT.
- · The EDIT display appears.



 Use the PAGE ∧ and ∨ buttons to view different sections of the menu.

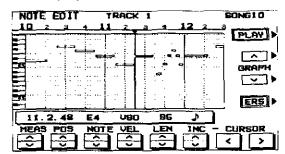


- 3. Select the edit function.
- The display changes in accordance with your selection.
- 4. Perform the editing procedures.
- During the editing procedure, you can press the EXIT button to go back to the EDIT display.
- During the editing procedure, if the indicator for the TEMPO/PROGRAM dial is lit, you can use the dial for the editing function.

NOTE EDIT

You can edit performance (NOTE) data on a piano roll display. This differs from the normal STEP RECORD edit procedure, and is a convenient way to check the data for each note.

- Data other than NOTE data cannot be corrected or recorded. To correct or record other types of data, use the STEP RECORD display. (Refer to page 60.)
- 1. On the PART SELECT display, select a track.
- The CHORD, RHYTHM and CONTROL tracks cannot be selected.
- · The display looks similar to the following.



- 2. Use the MEAS ∧ and ∨ buttons to select the measure you wish to edit.
- 3. Use the CURSOR < and > buttons to move the cursor (▼) to the point you wish to edit.
- Recorded performance (NOTE) data is shown as horizontal bars. Data selected for editing is highlighted.
- You can use the INC A and V buttons to change the increment of cursor movement.
 The resolution can be set at \$\frac{1}{2}\$/96. However, if NOTE data is present between increments, the cursor will stop.

- You can press a CURSOR button hard to move the cursor one beat at a time.
- Use the POS ∧ and ∨ buttons to change the value.
 - Example: 10.2.48 indicates a point in measure 10, beat 2, point 48 (one point is 1/96 of a quarter note []).
- H is shown at the point where the END command is stored.
- 4. Select the data to edit (it changes to a highlighted horizontal bar). Edit the data.
- Use the POS ∧ and ∨ buttons to move the cursor, the NOTE ∧ and ∨ buttons to change the note number, the VEL ∧ and ∨ buttons to change the velocity (how hard the keys are played), and the LEN ∧ and ∨ buttons to change the note length (1 = 1/96 of a quarter note [↓]).
- Use the GRAPH ∧ and ∨ buttons to view a higher or lower section of the keyboard (in one-octave steps).
- If the ERS button is pressed, the selected NOTE data is erased.
- 5. Repeat steps 2 to 4 to continue editing.

■ Inserting note data

You can also store note data on this display.

- 1. Specify the point where the new note data will be stored.
- Use the LEN ∧ and ∨ buttons to specify the note length.
- Examples of note lengths (, = 96)

91: tenuto (95%)

76: normal (80%)

48: staccato (50%)

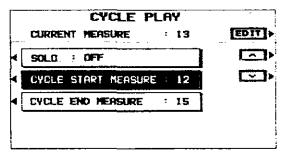
24: cutting (25%)

- Play a key on the keyboard to specify the note pitch (NOTE NUMBER) and velocity (how hard the key is played).
- 4. Repeat steps 1 to 3 to input more note data.

CYCLE PLAY

You can aurally check the data you are editing by accessing the CYCLE PLAY display from the NOTE EDIT display.

- If you wish other tracks to be played back, they should be selected beforehand on the SEQUENCER PLAY display. (Refer to page 58.)
- On the NOTE EDIT display, press the PLAY button.
- . The display looks similar to the following.

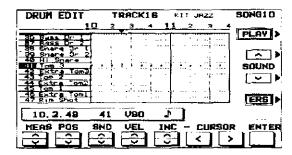


- 2. Select CYCLE START MEASURE, and use the ∧ and ∨ buttons to select the beginning playback measure.
- Select CYCLE END MEASURE, and use the A and V buttons to select the last playback measure.
- 4. Press the START/STOP button.
- Cycle playback of the specified measures begins.
- If the SOLO button is turned ON, playback changes to that of the recording track only. If it is turned OFF, all the tracks specified on the SEQUENCER PLAY display are played back.
- 5. To stop cycle playback, press the START/STOP button again.
- During playback stop, if the SEQUENCER RESET (FILL IN 1) button is pressed, the SEQUENCER returns to the measure number specified in step 2. If the SEQUENCER RESET button is pressed again, the SEQUEN-CER returns to measure 1.
- During playback stop, if the EDIT button is pressed, the SEQUENCER returns to the NOTE EDIT display.

DRUM EDIT

The DRUMS part can be edited on a specialized display. This differs from the normal STEP RECORD edit procedure, and is a convenient way to check the data for each note.

- On the PART SELECT display, select the track for the DRUMS part.
- The CHORD, RHYTHM and CONTROL tracks cannot be selected.
- · The display looks similar to the following.



- Use the SOUND ∧ and ∨ buttons to select the percussion instrument you wish to edit.
- The number to the left of the instrument name is its corresponding key note number.
- If sounds other than percussion instrument sounds are assigned, they are not displayed.
- 3. Use the MEAS ∧ and ∨ buttons to select the measure you wish to edit.
- 4. Use the CURSOR < and > buttons to move the cursor (▼) to the point you wish to edit.
- Recorded performance data is shown as vertical bars. Data selected for editing is shown as a longer vertical bar.
- You can use the INC A and V buttons to change the increment of cursor movement. The resolution can be set at ./96. However, if NOTE data is present between increments, the cursor will stop.
- You can press a CURSOR button hard to move the cursor one beat at a time.
- Use the POS ∧ and ∨ buttons to change the value.
 - Example: 10.2.48 indicates a point in measure 10, beat 2, point 48 (one point is 1/96 of a quarter note [,]).
- H is shown at the point where the END command is stored.
- Select the data to edit (it changes to a long bar). Edit the data.

- Use the POS \(\times\) and \(\times\) buttons to move the cursor, the SND \(\times\) and \(\times\) buttons to change the percussion instrument sound, and the VEL \(\times\) and \(\times\) buttons to change the velocity (how hard the keys are played).
- If the ERS button is pressed, the selected NOTE data is erased.
- 6. Repeat steps 2 to 5 to continue editing.

■ Inserting DRUMS data

You can also store DRUMS data on this display.

- 1. Specify the point where the new note data will be stored.
- 2. Use the VEL ∧ and ∨ buttons to specify the velocity (how hard the key is played).
- Press the ENTER button to store the data.
- Instead of the ENTER button, you can store data (including velocity data) by playing the keyboard. In this case, the instrument is that specified on the display, regardless of which key is played.
- The note length is fixed. If you wish to change the note length, use the STEP RECORD function to specify a different note length. The NOTE EDIT display can also be used to change the length (LEN). (Refer to page 68.)
- Repeat steps 1 to 3 to input more DRUMS data.

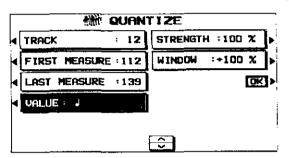
■ CYCLE PLAY

You can aurally check the data you are editing by accessing the CYCLE PLAY display from the DRUM EDIT display.

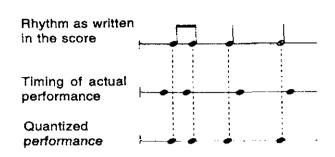
- The procedure is the same as for NOTE EDIT.
- If you wish other tracks to be played back, they should be selected beforehand on the SEQUENCER PLAY display. (Refer to page 58.)

QUANTIZE

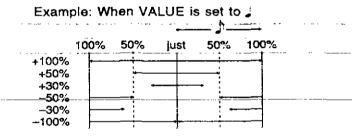
The QUANTIZE function can correct the timing of your performance after it has been recorded. If the rhythm is slightly out of sync or inexact, it will automatically be corrected to the specified quantize level.



- 1. Select TRACK. Use the ∧ and ∨ buttons to specify the track number.
- You cannot select the track for the CONTROL, RHYTHM or CHORD part.
- If ALL is selected, all the tracks are quantized.
- Select FIRST MEASURE. Use the And v buttons to specify the start point (measure number).
- 3. Select LAST MEASURE, Use the <u>A and v</u> buttons to specify the end point (measure number).
- 4. Select VALUE. Use the ∧ and ∨ buttons to specify the quantize level.
- Select from ... 1, 3, 1, 13, 1, 13. (A 3 denotes a triplet-type note.)
- 5. Select STRENGTH. Use the <u>A and v buttons</u> to select the amount of quantize (%).
- 100% is a convenient setting. When set to 100%, the performance data is quantized exactly to the level specified for the VALUE ("just"). For example, at 50%, the data is quantized to a point that is half that of the just level. By this setting, you can attain an effect that is very slightly off-beat from the rhythm.



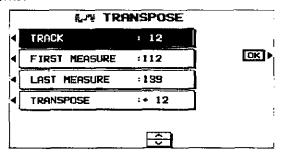
- Select WINDOW. Use the ∧ and ∨ buttons to specify the range (%) affected by the quantize setting.
- With the increment set to 100 for the VALUE, at a + setting, data close to the just point is corrected, and at a setting, data far from the just point is corrected. For example, if set to -30% the quantize function affects data far from the just point, and if set to +30% the quantize function affects data close to the just point. +100% is usually a convenient setting.
- The +100% setting and the -100% setting are the same.



- 7. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

TRANSPOSE

Change of key of specific measures of specific tracks.

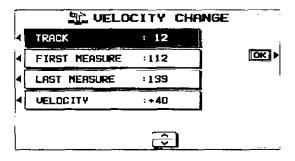


- 1. Select TRACK. Use the ∧ and ∨ buttons to select the track you wish to edit.
- You cannot select the track for the CONTROL, RHYTHM or CHORD part.
- · If ALL is selected, all tracks will be edited.
- Select FIRST MEASURE. Use the ∧ and ∨ buttons to specify the start point (measure number) of the transpose.
- Select LAST MEASURE. Use the A and V buttons to specify the end point (measure number) of the transpose.

- 4. Select TRANSPOSE. Use the ∧ and ∨ buttons to specify the change in pitch.
- Increments are in semitones. A value of 12 is one octave. A – value lowers the pitch, and a + value raises it.
- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

VELOCITY CHANGE

Modify the recorded velocity in specific measures of specific tracks.



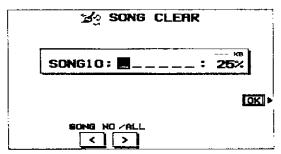
- Select TRACK. Use the ∧ and ∨ buttons to select the track you wish to edit.
- You cannot select the track for the CONTROL, RHYTHM or CHORD part.
- · If ALL is selected, all tracks will be edited.
- 2. Select FIRST MEASURE. Use the \wedge and \vee buttons to specify the start point (measure number) of the velocity change.
- 3. Select LAST MEASURE. Use the \wedge and \vee buttons to specify the end point (measure number) of the velocity change.

- Select VELOCITY. Use the ∧ and ∨ buttons to specify the change in velocity.
- The value you select will be added to or deleted from the current velocity.
- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

SONG CLEAR

Erase the recorded contents of all tracks.

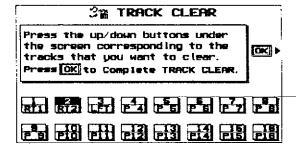
一



- Use the SONG NO/ALL < and > buttons to specify the number of the song to erase.
- The total amount of SEQUENCER memory or current song memory used is shown as a percentage (%) to the right of the song name.
- If ALL is selected, all the songs recorded in the SEQUENCER will be erased.
- 2. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- If the YES button is pressed, "COMPLETED!" appears on the display, the specified songs are erased, and the instrument returns to the normal performance mode.

TRACK CLEAR

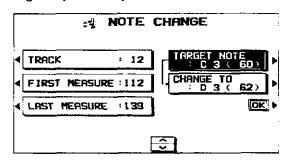
Erase the contents of a specific track.



- Use the balance buttons to select the track or tracks you wish to clear.
- On the display, the selected tracks are highlighted.
- 2. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- If the YES button is pressed, "COMPLETED!" appears on the display, and the specified tracks are erased.

NOTE CHANGE

Change of pitch of specified notes.

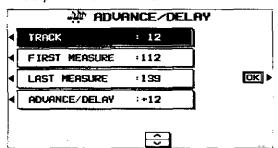


- Select TRACK. Use the ∧ and ∨ buttons to select the track you wish to edit.
- You cannot select the track for the CONTROL, RHYTHM or CHORD part.
- · If ALL is selected, all tracks will be edited.
- Select FIRST MEASURE. Use the A and V buttons to specify the start point (measure number) of the note change.
- Select LAST MEASURE. Use the A and V buttons to specify the end point (measure number) of the note change.

- Select TARGET NOTE. Use the ∧ and ∨ buttons to specify the pitch of the note you wish to change.
- The number next to the note name is its note number.
- 5. Select CHANGE TO. Use the ∧ and ∨ buttons to specify the pitch you wish to change to.
- 6. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

ADVANCE/DELAY

Speed up or delay the sound production of specified performance data.

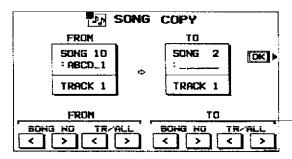


- Select TRACK. Use the ∧ and ∨ buttons to select the track you wish to edit.
- You cannot select the track for the CONTROL, RHYTHM or CHORD part.
- If ALL is selected, all tracks will be edited.
- Select FIRST MEASURE. Use the A and V buttons to specify the start point (measure number) of the change.
- 3. Select LAST MEASURE. Use the ∧ and ∨ buttons to specify the end point (measure number) of the change.

- Select ADVANCE/DELAY. Use the ∧ and ∨ buttons to accelerate or delay the timing of the sound production (–96 to +96).
- A + value causes the notes to sound later, and
 a value causes the notes to sound earlier.
- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

SONG COPY

Copy the recorded data from specific tracks of a song.



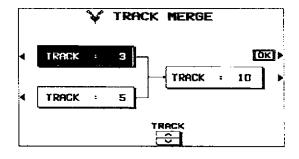
- On the FROM side, use the SONG NO < and > buttons to specify the song number to copy from.
- On the FROM side, use the TR/ALL < and > buttons to specify the number of the track to copy from.
- If ALL is selected, all the tracks of the specified song number will be copied.

- On the TO side, use the SONG NO < and > buttons to specify the song number to copy to.
- 4. On the TO side, use the TR/ALL < and > buttons to specify the number of the track to copy to.
- If ALL is selected, the data will be copied to all the tracks of the specified song number.
- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- The track assignment settings are also copied.
 Note that in some cases, the CONTROL,
 RHYTHM and CHORD part data in the destination tracks may be lost.

TRACK MERGE

Merge the recorded contents of two tracks (source tracks) and store the merged contents in a third track (destination track).

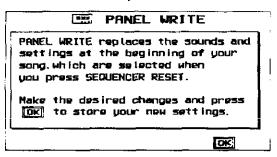
 When the TRACK MERGE function is executed, the data is erased from the two source tracks.



- Select the two source tracks (left half of the display).
- Use the buttons on the left side of the display to select one of the source tracks, and use the TRACK ∧ and ∨ buttons to specify the track number. Repeat for the other source track.
- You cannot select the track to which the CON-TROL, RHYTHM or CHORD part has been assigned.
- If the part assigned to the upper source track ("upper" meaning its position on the TRACK MERGE display) is different from the part assigned to the lower source track, when the parts are merged in the destination track, the new track is assigned the same part as the upper track.
- 2. Select the destination track (right half of the display).
- Press the button on the right side of the display to select the destination track, and use the TRACK ∧ and ∨ buttons to specify the track number.
- 3. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

PANEL WRITE

You can change the panel status which is in effect at the beginning of the song. These are the settings which are recalled when the SEQUENCER RESET button is pressed.

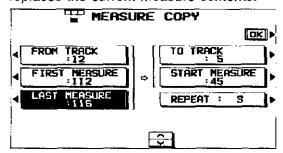


- 1. Use the panel buttons to change to the desired panel settings.
- 2. Press the OK button.
- "COMPLETED!" is shown on the display.
- PANEL WRITE is automatically activated at the beginning of the REALTIME RECORD, or when a panel setting is changed during recording stop.

MEASURE COPY

Copy recorded data of specified measures to a specified point.

• On the destination track, the new data replaces the current measure contents.



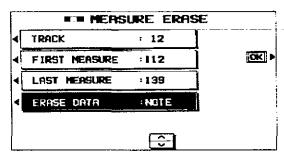
- 1. Select FROM TRACK. Use the ∧ and ∨ buttons to specify the source track.
- You cannot select the track for the RHYTHM part or CHORD part in which a repeat command has been stored.
- If ALL is selected, the specified measures are copied to all tracks at the same time.
- 2. Select FIRST MEASURE. Use the ∧ and ∨ buttons to specify the start point (measure number) on the source track.
- 3. Select LAST MEASURE. Use the A and V buttons to specify the end point (measure number) on the source track.
- Select TO TRACK. Use the ∧ and ∨ buttons to specify the destination track.
- Measures in a track for the CONTROL, RHYTHM or CHORD part can be copied only to the same track.

- 5. Select START MEASURE. Use the \wedge and \vee buttons to specify the start point (measure number) on the destination track.
- Select REPEAT. Use the ∧ and ∨ buttons to specify the number of times the specified measures are to be repeated.
- The measures will be repeated the specified number of times.
- 7. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- Note that if the END command is included in the source data, it is also copied. Any data following the END command is not copied.

MEASURE ERASE

Erase the recorded contents of specific measures. You can also specify which type of data is to be erased.

 Note that only the contents of the measures are erased, not the measures themselves; the length of the performance remains the same.



- Select TRACK. Use the
 And
 ∨ buttons to specify the track number.
- This function does not work for the RHYTHM part or CHORD part in which a repeat command has been stored.
- If ALL is selected, data is erased from the specified measures of all the tracks at one time.
- Select FIRST MEASURE. Use the A and V buttons to specify the start point (measure number).
- Select LAST MEASURE. Use the A and V buttons to specify the end point (measure number).

4. Select ERASE DATA. Use the ∧ and ∨ buttons to specify the type of data to be erased.

ALL: All data is erased.

NOTE: Only note data.

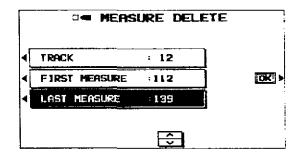
CONTROL: Only control data (volume, effect and other panel settings as well as selection changes) is erased.

- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

MEASURE DELETE

Delete specified measures from a track.

 The length of the performance accordingly decreases by the number of deleted measures.

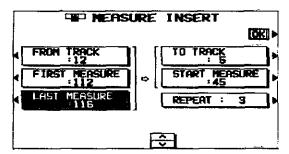


- Select TRACK. Use the A and V buttons to select the track from which measures are to be deleted.
- This function does not work for the CHORD or RHYTHM track in which the repeat function has been stored.
- If ALL is selected, the specified measures are deleted from all the tracks at one time.
- 2. Select FIRST MEASURE. Use the ∧ and ∨ buttons, to specify the first measure to delete.
- Select LAST MEASURE. Use the ∧ and ∨ buttons to specify the last measure to delete.
- 4. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

MEASURE INSERT

Insert specified measures at a specified point.

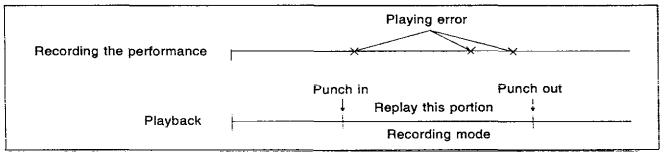
The length of the performance accordingly increases by the number of inserted measures.



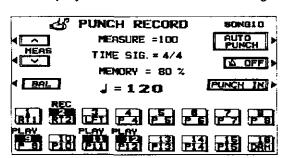
- Select FROM TRACK. Use the ∧ and ∨ buttons to select the source track.
- This function does not work for the CHORD or RHYTHM track in which the repeat function has been stored.
- If ALL is selected, the measures are inserted in all tracks at the same time.
- 2. Select FIRST MEASURE. Use the ∧ and ∨ buttons to specify the first measure on the source track from which to copy.
- 3. Select LAST MEASURE. Use the ∧ and ∨ buttons to specify the last measure on the source track from which to copy.
- Select TO TRACK. Use the ∧ and ∨ buttons to specify the destination track.
- Measures from the CHORD, RHYTHM or CONTROL track can only be inserted in the same track.
- Select START MEASURE. Use the ∧ and ∨ buttons to specify the insert point on the destination track.
- Select REPEAT. Use the ∧ and ∨ buttons to specify the number of times the specified measures are to be inserted.
- The measures will be inserted the specified number of times.
- 7. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- Note that if the END command is included in the source data, it is also inserted. Any data following the END command is not inserted.

Punch Record

If you make a playing error during REALTIME RECORD or would like to change the recording for some other reason, you can use the punch recording feature to correct a selected portion of the performance without having to redo the whole part.



- 1. Select the song number. (Refer to page 53.)
- 2. On the **SEQUENCER** menu display, select PUNCH RECORD.
- · The display looks similar to the following.



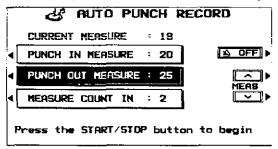
- 3. Select the track which contains the portion you want to correct.
- On the display "REC" indicates tracks which are being recorded, and "PLAY" indicates tracks which are being played back.
- 4. Use the MEAS ∧ and ∨ buttons to specify the beginning measure of playback.
- "MEASURE=" indicates the current measure number.
- 5. Press the **START/STOP** button to begin playback of the specified track.
- During playback, press the PUNCH IN button at the point you want to begin recording.
- Recording begins as soon as the PUNCH IN button is pressed. Begin playing at this point.
- The PUNCH IN button switches to the PUNCH OUT button.

- 7. Press the PUNCH OUT button at the point you want to stop recording.
- · Recording stops immediately.
- 8. When you have finished correcting the performance, press the **SEQUENCER** button to turn it off.
- You can also begin punch-in recording by playing the keyboard.
- You can specify the punch-in/punch-out points with the optional Foot Switch (sold separately). (Refer to page 50.)

■ AUTO PUNCH RECORD

You can also set the punch-in and punch-out points beforehand, so that recording automatically begins and ends at the specified points.

- On the SEQUENCER menu display, select PUNCH RECORD. Specify the track you wish to correct.
- 2. Press the AUTO PUNCH button.
- · The display looks similar to the following.



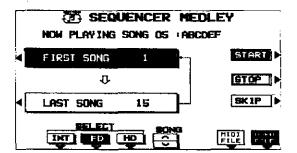
- 4. Select PUNCH OUT MEASURE. Use the MEAS ∧ and ∨ buttons to specify the number of the punch-out measure.
- The number of the punch-out measure must be higher than the number of the punch-in measure.
- The specified punch-out measure is not recorded.

- 5. Select MEASURE COUNT IN. Use the A and buttons to specify the number of lead-in measures you wish to have played back before the punch-in measure.
- Set the metronome to on or off with the ON or OFF button.
- 6. Press the START/STOP button.
- Playback begins from the measure indicated by CURRENT MEASURE on the display.
- 7. Correct the performance.
- The mode changes automatically to the recording mode at the specified punch-in measure. Begin playing at this point. The mode automatically changes back to the playback mode at the specified punch-out measure.
- Punch-in recording also begins if the keyboard is played before the specified PUNCH IN MEASURE.
- 8. When you have finished correcting the performance, press the **SEQUENCER** button to turn it off.

Sequencer Medley

You can have the songs played back continuously in order. Songs saved on a disk can also be played back in a medley.

- 1. On the SEQUENCER menu, select MEDLEY.
- · The display looks similar to the following.



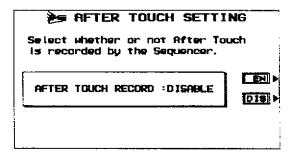
- Use the SELECT buttons to specify the song you wish to have played.
- Press the INT button to specify medley play of songs in this instrument's SEQUENCER, or press the FD button to specify songs on the floppy disk.
- When specifying medley play of songs on a hard disk (separately sold option), press the HD button.
- Note that if FD or HD is selected and medley play is executed, all song data (SONG 1-10) currently stored in the SEQUENCER memory is erased. However, if only Standard MIDI File data is selected for medley play, the SEQUEN-CER memory will not be erased.

- If FD is selected, use the MIDI FILE/NORM FILE button to select the kinds of files for medley play.
- Select MIDI FILE to play Standard MIDI Files (FORMAT 0 only), or select NORM FILE to play Technics files.
- 4. Select FIRST SONG. Use the SONG ∧ and ∨ buttons to specify the first song you wish to have played.
- Select LAST SONG. Use the SONG ∧ and ∨ buttons to specify the last song.
- 6. Press the START button.
- The songs are played back in the specified order.
- You can use the SKIP button to skip to the next song.
- 7. To stop medley play, press the STOP button.
- Features and operation of the Disk Drive are explained in "Part VI Disk Drive" (page 94).

After Touch

Specify whether or not AFTER TOUCH data is recorded. The AFTER TOUCH applies a special effect to the sound depending on how hard the keys are being pressed.

- 1. Select the song number. (Refer to page 53.)
- On the SEQUENCER menu, select AFTER TOUCH SET.
- The display looks similar to the following.



3. Press the EN or DIS button to specify if the aftertouch data is recorded.

ENABLE: Aftertouch data is recorded with the performance.

DISABLE: The data is not recorded (factory-preset setting).

Outline of the Composer

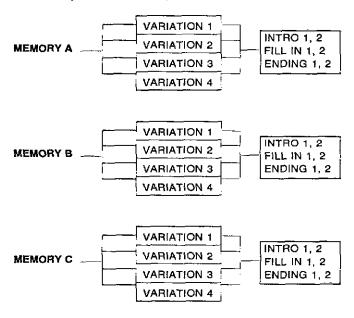


TO THE PARTY OF TH

The COMPOSER enables you to create your own accompaniment patterns or to edit preset accompaniment patterns. A pattern is comprised of five parts: DRUMS, BASS and 3 ACCOMP parts. These parts would form the backing of a song, for example: Drums, Acoustic Bass, Piano, Jazz Guitar and Vibes. You may find it useful at first to copy and edit a preset pattern.

Rhythm components which can be stored

You can store up to 12 different rhythms (4 in each memory bank A, B, C).



You can also create INTRO, FILL IN and ENDING patterns for each MEMORY (A, B, C).
 These patterns are played back when the COMPOSER MODE is set to EXPAND. (Refer to page 91.)

Memory capacity

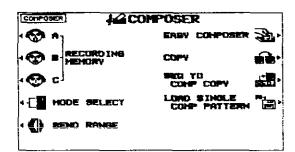
Expressed in terms of notes, the total number of notes which can be stored in all the **COMPOSER** memories is about 10,000. The remaining memory available for recording is shown on the RECORD display as a percentage (MEMORY=%).

- When "Memory full!" appears on the display no more data can be stored in the COM-POSER.
- The recorded COMPOSER data can be saved to a disk and later quickly recalled (COM-POSER LOAD). (Refer to page 98.)

COMPOSER menu

When you press the **COMPOSER** button to turn it on, the display changes to the following.





Summary of the COMPOSER menu items

RECORDING MEMORY-A

Create a memory in the MEMORY A bank.

RECORDING MEMORY-B

Create a memory in the MEMORY B bank.

RECORDING MEMORY-C

Create a memory in the MEMORY C bank.

EASY COMPOSER (page 83)

Create a rhythm pattern with a simplified procedure.

MODE SELECT (page 91)

Specify whether or not you are playing back your own INTRO, FILL IN and ENDING patterns.

COPY (page 84)

Copy a preset rhythm pattern into a memory.

SEQ TO COMP COPY (page 87)

Copy recorded data in the **SEQUENCER** to the **COMPOSER**.

BEND RANGE (page 92)

Set the PITCH BEND range effective during recording for the ACCOMP and BASS parts.

LOAD SINGLE COMP PATTERN

Recall the desired **COMPOSER** data from data saved on a disk. The items on this menu are also on the DISK LOAD menu, and the procedures are the same (page 97).

Three ways to record in the COMPOSER

There are three ways to create and record a rhythm.

- Simple recording method (page 83)
 Use EASY COMPOSER to quickly create a unique rhythm just by selecting a style and variation for each part.
- Edit a preset rhythm (pages 84 and 88)
 Use the COPY function to copy a preset rhythm to a MEMORY, change parts of it, and then store it as a new rhythm.
- You can use either or both of two recording methods. Realtime recording allows you to store your rhythm exactly as you play it on the keyboard. But for difficult phrases, you may want to use the STEP RECORD mode to store the notes one by one, just as you might write a music score.

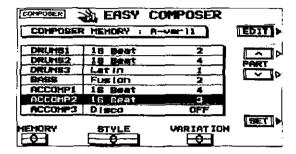
Create a completely new rhythm (pages 85 and 88)

Clear the memories and compose a completely new rhythm from scratch.

Simple recording method

With EASY COMPOSER you can easily create a unique rhythm pattern by selecting a different style for each part of the rhythm.

- 1. On the **COMPOSER** menu display, select EASY COMPOSER.
- · The display looks similar to the following.



- 2. Use the MEMORY ∧ and ∨ buttons to select the memory in which to record your rhythm.
- Select from A-vari 1 to 4, B-vari 1 to 4 and C-vari 1 to 4.
- Use the PART ∧ and ∨ buttons to select the part.
- In the EASY COMPOSER, the new rhythm pattern is divided into 7 parts, to each of which a style and variation is assigned.
- Use the STYLE ∧ and ∨ buttons to select a style.
- 5. Use the VARIATION ∧ and ∨ buttons to select the variation number.
- The number of variations differs depending on the selected style.
- A part which is set to OFF does not sound.
 Note that the DRUMS1 part cannot be set to OFF.
- 6. Repeat steps 3 to 5 to select styles for the other parts.
- 7. Press the SET button.
- The rhythm pattern is played back.
- The RHYTHM name changes to "Easy".
- If you are not satisfied with the rhythm pattern, repeat steps 3 to 7.
- If you wish to correct the sounds or phrases in your rhythm pattern, press the EDIT button.
 The display changes to the recording display. (Refer to page 88.)
- · For playback, refer to page 89.

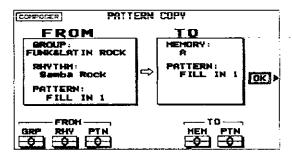
Edit a preset rhythm pattern: preparation

These are step-by-step instructions for preparing to create a new rhythm pattern by modifying a part of a preset rhythm pattern. First you copy one of the preset RHYTHM GROUP rhythm patterns to a location in the specified MEMORY bank.

- Data can also be copied from the SEQUENCER. (Refer to page 87.)
- On the COMPOSER menu display, select COPY.

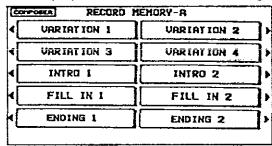
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The display looks similar to the following.

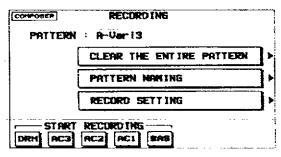


- 2. Select a rhythm group, name and pattern to copy (FROM).
- Use the GRP ∧ and ∨ buttons to specify the RHYTHM GROUP.
- Use the RHY ∧ and ∨ buttons to specify the rhythm name.
- Use the PTN ∧ and ∨ buttons to specify the rhythm pattern.
- You can also select the RHYTHM GROUP and rhythm with the panel buttons.
- Select a memory bank and pattern to copy to (TO).
- Use the MEM ∧ and ∨ buttons to specify the memory bank (A, B or C).
- Use the PTN ∧ and ∨ buttons to specify the pattern.
- 4. Press the OK button.
- When copying has been successfully completed, "COPY COMPLETED!" appears on the display.
- 5. Press the EXIT button.
- On the COMPOSER menu display, select the bank to which you copied the rhythm pattern (the memory bank you selected in step 3: RECORDING MEMORY-A, RECORDING MEMORY-B or RECORDING MEMORY-C).

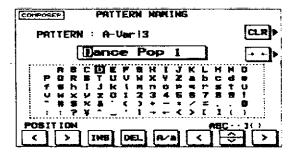
The display looks similar to the following.



- 7. Select the pattern name to which you copied the pattern (the pattern name you selected in step 3).
- The display looks similar to the following.



- If you wish to name your new rhythm pattern (except for FILL IN, INTRO and ENDING), select PATTERN NAMING.
- If you do not input a name for your rhythm pattern, the name becomes the same as the original rhythm from which you copied.
- The display looks similar to the following.



- Type a new name for your rhythm pattern (up to 13 characters).
- Use the POSITION < and > buttons to high-light the character position in the name box.
 Use the ABC·]{} buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- Use the INS button to type a space.
- Use the DEL button to erase a character.
- Use the A/a button to switch between upper case and lower case characters.
- To erase all the characters, press the CLR button.
- You can press the → ← button if you wish to have the name centered.

- 10. Press the EXIT button.
- · The display returns to the previous display.
- 11. In the START RECORDING area on the display, select the rhythm part you want to record first.

BAS: BASS

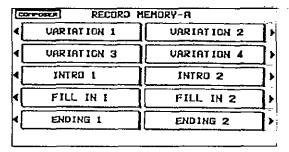
AC1: ACCOMP 1
AC2: ACCOMP 2
AC3: ACCOMP 3
DRM: DRUMS

 The pattern you copied and the metronome sound start, and recording begins. (Refer to page 88.)

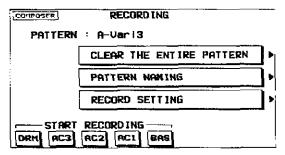
Create a completely new rhythm: preparation

Here are the preparatory steps to compose a completely new rhythm from scratch.

- On the COMPOSER menu display, select a bank in which to record the rhythm (RECORD-ING MEMORY-A, RECORDING MEMORY-B or RECORDING MEMORY-C).
- The display looks similar to the following.



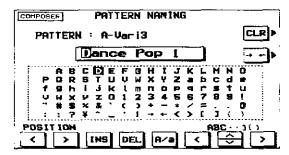
- 2. Specify the pattern you are going to create.
- The display looks similar to the following.



- 3. Press the CLEAR THE ENTIRE PATTERN button.
- The following confirmation display appears.
 Press the YES button to execute the function, or press the NO button to cancel the function.



- 4. Select PATTERN NAMING (except for FILL IN, INTRO and ENDING).
- The display looks similar to the following.

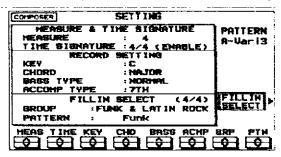


5. Type a name for your rhythm pattern (up to 13 characters).

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- Use the POSITION < and > buttons to high-light the character position in the name box.
 Use the ABC ··] { } buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- Use the INS button to type a space.
- Use the DEL button to erase a character.
- Use the A/a button to switch between upper case and lower case characters.
- To erase all the characters, press the CLR button.
- You can press the → ← button if you wish to have the name centered.
- 6. Press the EXIT button.
- The display returns to the previous display.
- 7. Select RECORD SETTING.

The display looks similar to the following.



- 8. Adjust the various recording settings.
- See the "Recording settings" below.
- When all the settings have been completed, press the EXIT button.
- The display returns to the previous display.
- 10.In the START RECORDING area on the display, select the rhythm part you want to record first.

BAS: BASS
AC1: ACCOMP 1
AC2: ACCOMP 2
AC3: ACCOMP 3
DRM: DRUMS

 The metronome sound starts and recording begins. (Refer to page 88.)

■ Recording settings

MEASURE & TIME SIGNATURE

These settings can be adjusted only when the pattern has been cleared by the CLEAR THE ENTIRE PATTERN function.

MEASURE: Use the MEAS ∧ and ∨ buttons to specify the number of measures in your repeating rhythm pattern.

TIME SIGNATURE: Use the TIME A and y buttons to specify the time signature.

RECORD SETTING

- KEY: Use the KEY ∧ and ∨ buttons to specify the root note of the chords you wish to record.
- CHORD: Use the CHD ∧ and ∨ buttons to specify the type of chord you wish to record (MINOR or MAJOR).
- BASS TYPE: Use the BASS ∧ and ∨ buttons to specify the type of phrase progression for the BASS part (NORMAL or 7TH).
- ACCOMP TYPE: Use the ACMP A and V buttons to specify the type of phrase progression for the ACCOMP parts (NORMAL or 7TH).

FILL IN SELECT

You can select fill-in, intro and ending patterns from a preset rhythm pattern. These preset patterns are produced when a FILL IN button or the INTRO & ENDING button is pressed during playback of your new rhythm pattern.

 This setting is effective only when the COM-POSER MODE is set to NORMAL MODE.

GROUP: Use the GRP ∧ and ∨ buttons to specify the RHYTHM GROUP.

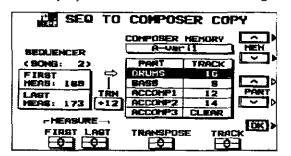
PATTERN: Use the PTN ∧ and ∨ buttons to specify the rhythm name.

- If you changed the settings in the FILL IN SELECT area on the display, press the FILL IN SELECT button. When the settings have been successfully stored, "COPY COM-PLETED!" appears on the display.
- You cannot select a rhythm with a time signature different from that of the time signature you specified.

Sequencer to Composer Copy

Data from the **SEQUENCER** can be copied to a **COMPOSER** memory. For example, you can use a rhythm pattern on a song disk as the automatic accompaniment for your own performance.

- Play back the song you wish to copy from SEQUENCER to confirm the tracks, the measures and the time signature you wish to copy.
- Follow the procedure in "Create a complete new rhythm: preparation" to prepare the COM-POSER memory you will be copying to. (Refer to pages 85 and 86).
- Be sure that time signature setting in the SE-QUENCER data you are copying from and the time signature in the COMPOSER memory you are copying to are the same, or the data will not be copied successfully.
- 3. On the **COMPOSER** menu display, select SEQ TO COMP COPY.
- · The display looks similar to the following.



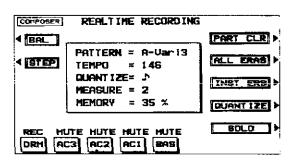
- Use the MEASURE FIRST ∧ and ∨ buttons to specify the number of the first measure to copy.
- Use the MEASURE LAST ∧ and ∨ buttons to specify the number of the last measure to copy.
- Up to 8 measures can be copied.
- 6. Use the TRANSPOSE ∧ and ∨ buttons to change the key of the copied measures (-12 to +12).
- Units are in semitones.
- Use the MEM ∧ and ∨ buttons to specify the COMPOSER memory to copy to.

- 8. For each COMPOSER part, specify the SE-QUENCER track from which to copy data.
- Use the PART ∧ and ∨ buttons to specify the part name, and the TRACK ∧ and ∨ buttons to specify the track number.
- Parts which are set to CLEAR are blank.
- 9. Press the OK button.
- "COPY COMPLETED!" is shown on the display.
- If you wish to edit the pattern you copied, follow steps 1, 2 and 10 of "Create a completely new rhythm: preparation," and then follow the recording procedure.

Record your rhythm pattern

Store each part of the rhythm pattern as you perform it on the keyboard.

Recording procedure



- 1. Adjust the tempo.
- The tempo can be freely adjusted when you play back the rhythm pattern, so record at the tempo which is easiest for you to play.
- 2. Select the sound.
- For the DRM part, select sounds from the KEYBOARD PERC sound group.
- For the AC1, AC2, AC3 and BAS parts, select sounds from groups other than the KEY-BOARD PERC sound group.
- Record the part.



- The specified number of measures are repeatedly played back, during which time any newly played notes are added to those already recorded. The current measure number is shown on the display as "MEASURE=".
- Record the performance in C major for correct chord progressions during playback. To record the performance in a different scale, follow the RECORD SETTING procedure to specify a KEY and CHORD.
- PITCH BEND and MODULATION effects and the DIGITAL EFFECT and SUSTAIN on/off are also recorded (except for the DRM part).
- AFTER TOUCH does not function during recording.
- You can also specify the range of the pitch bend when the PITCH BEND wheel is operated during recording. (Refer to page 92.)
- 4. When you have finished recording one part, use the buttons below the display to select the next part to record.
- 5. Repeat steps 1 through 4 to record all the parts of the rhythm.
- When you have finished recording the rhythm, press the COMPOSER button to turn it off.
- If you wish to continue creating other patterns, press the EXIT button to go back to the pattern selection display.

■ The display during recording

BAL

If you wish to adjust the volume of each part during recording, press the BAL button. The PART BALANCE display appears. Adjust the volume of each part.

- If you press the EXIT button, the display returns to the previous display.
- These settings are not stored.

STEP

When you press this button, the display changes to the STEP RECORD display, on which you can store the notes one by one. (Refer to page 89.)

PART CLR

Press this button if you wish to erase all recorded contents of the currently selected part.

ALL ERAS

The performance recorded in the selected part is erased for as long as this button is pressed.

INST ERS

When the DRM part is selected, the DRM part can be cleared instrument by instrument. Hold down this button and specify the instrument sound to be deleted by pressing the corresponding instrument key on the keyboard, after which only the specified instrument will be erased for as long as this button is kept pressed.

QUANTIZE

Set the desired quantize level to smooth out any unevenness in the timing of your performance. Each time this button is pressed, the indicated level changes. The quantize level is shown in the center of the display as "QUANTIZE=". Select from \$3, \$\frac{1}{2}, \$\frac{1}{2}3, OFF, \$\frac{1}{2}3, \$\frac{1}{2}3, \$\frac{1}{2}\$, ... (A 3 denotes a triplet-type note.)

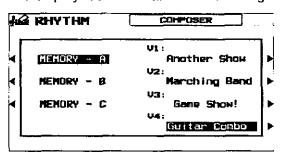
SOLO

When you press this button while you are recording, only the part which is currently being recorded is played back. When SOLO is on, a MUTE mark is shown above the other part names on the display.

To turn off the SOLO function, press this button again.

Playback

- 1. In the RHYTHM GROUP section, press the MEMORY button to turn it on.
- The display looks similar to the following.



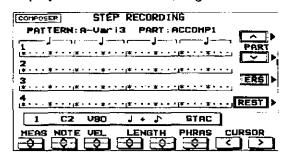
- 2. Use the buttons to the left of the display to select the memory (A, B or C) and the buttons to the right of the display to select the variation.
- The VARIATION & MSA buttons can also be used to select the variation.
- 3. Press the START/STOP button.
- . The **DRUMS** part begins to play back.
- The BASS and ACCOMP parts are played back when you use the AUTO PLAY CHORD.

Step Record

Use STEP RECORD to store the notes one-by-one on the display. This is a convenient way to store complicated patterns that are difficult to play.

Recording procedure

- While you are recording, press the STEP button.
- The display changes to the STEP RECORD display similar to the following.



- Use the MEAS buttons to select the measure you wish to record.
- This step is not necessary if you are recording from measure 1 of a blank part.
- 3. Use the CURSOR < and > buttons to move the cursor to the note position (dot) you are going to store.
- Each dot represents one-eighth of a quarternote (a thirty-second note).
- When storing triplets, it may not be possible to match the timing exactly with the 1/32-note steps. However, if you select triplet-type notes for the note length (LENGTH) in step 4 below, the timing is automatically corrected.

- 4. Use the left LENGTH buttons to specify the note value. Select from 3, 1, 13, 1, , J. o, o × 2 to 4. (A 3 denotes a triplet-type note.)
- For note values other than these, use the right LENGTH buttons to specify the note value to be added to that which you specified with the left buttons.

Example: To record a dotted quarter-note (...)

5. Use the PHRAS ∧ and ∨ buttons to specify the actual length of the produced sound for the desired legato or staccato effect.

TENU (tenuto):

Sound is produced for

95% of the note length.

NORM (normal):

80%

STAC (staccato): 50%

CUTT (cutting):

25%

- 6. Specify the pitch and velocity of the note by playing the keyboard.
- The dot on the display where the note is stored changes to a * mark.
- When recording chords, you can store multiple notes at one position.

REST: To store a rest, after specifying the note LENGTH, press the REST button.

Positions at which nothing is stored are read as rests.

ERS: If you make a mistake, move the cursor to the error, and after displaying the data you wish to erase, press the ERS button.

- 7. Repeat steps 3 through 6 to continue storing
- To record a different part, use the PART A and v buttons to select another part.
- You can easily switch between the REALTIME mode and the STEP mode any time during recording. To return to the realtime recording display during the STEP RECORD mode, press the EXIT button.

Correcting the data

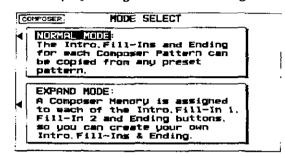
- 1. In the STEP RECORD mode, specify the part you wish to correct.
- 2. Use to MEAS buttons to go to the measure you wish to modify. Use the CURSOR buttons to move the cursor to the point (*) you wish to edit.
- The data stored at that point is shown on the display.
- When a chord is stored at one point, a different note of the chord is displayed in order each time a CURSOR button is pressed.

- 3. Correct the data.
- NOTE data (note pitch) and VEL data (how hard the key was played), etc. are displayed. Use the relevant buttons to correct the data as desired.
- Press the ERS button to erase the data which is displayed.
- You can also correct data which was stored in the REALTIME RECORD mode.

Composer mode

Two playback modes are available for you to choose from. If you wish to use the intro, fill-in and ending patterns from a preset rhythm when you play back your new rhythm pattern, select NORMAL MODE. For creating and playing back your original intro, fill-in and ending patterns, select EXPAND MODE.

- On the COMPOSER menu display, select MODE SELECT.
- The display changes to the following.



2. Select the mode.

■ NORMAL MODE

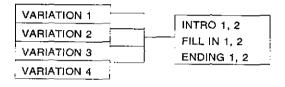
When a FILL IN button or the INTRO & ENDING button is pressed during playback, the corresponding pattern for a preset rhythm is played back. The rhythm which is played back is the one you specified for FILL IN SELECT on the RECORD SETTING display. (Refer to page 86.)

EXPAND MODE

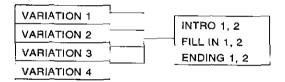
When a FILL IN button or the INTRO & ENDING button is pressed during playback, the corresponding pattern you created is played back.

- Only one each FILL IN 1, FILL IN 2, INTRO
 1, INTRO 2, ENDING 1 and ENDING 2 pattern
 can be created for each of the three banks
 (MEMORY A, MEMORY B or MEMORY C).
 The fill-in patterns, etc. for each bank are used
 for all the basic rhythms in the same bank.
- Each pattern of a memory should have the same time signature.

<MEMORY A>



<MEMORY B>



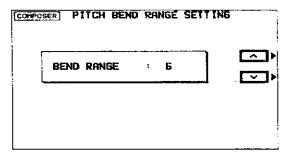
<MEMORY C>



Bend Range

Adjust the amount of pitch change applied to the ACCOMP parts and the BASS part when the PITCH BEND wheel is operated during COMPOSER recording.

- On the COMPOSER menu display, select BEND RANGE.
- The display changes to the following.



- Use the ∧ and ∨ buttons to specify the range (0 to 12).
- · increments are in semitones.

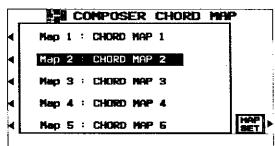
Composer Chord Map

A different accompaniment pattern can be selected for each of the four types of chords (major, minor, seventh and diminished). Then the accompaniment combination can be stored in one of five different maps.

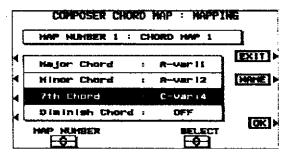
- Store beforehand in a COMPOSER memory each accompaniment pattern you are going to perform
 when a type of chord is selected. When recording a pattern, for the minor type for example, record it
 in a minor key.
- 1. Press the COMPOSER CHORD MAP button to turn it on.



The display looks similar to the following.



- 2. Press the MAP SET button.
- The display looks similar to the following.



- Use the MAP NUMBER ∧ and ∨ buttons to select a map number (1 to 5).
- 4. Use the buttons to the left of the display to select a chord type.

- 5. Use the SELECT \wedge and \vee buttons to select a pattern for the chord type.
- Only patterns with the same number of measures and same time signature can be selected.
- The accompaniment pattern for the INTRO, FILL IN and ENDING is the one selected for Major.
- The accompaniment pattern for chords which are set to OFF is the same as the pattern for Major chords.
- 6. Press the NAME button.
- The display looks similar to the following.



- 7. Assign a name to the map.
- Use the POSITION < and > buttons to high-light the character position in the name box.
 Use the ABC ··] {} buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- Use the INS button to type a space.
- Use the DEL button to erase a character.
- Use the A/a button to switch between upper case and lower case characters.
- To erase all the characters, press the CLR button.
- You can press the → ← button if you wish to have the name centered.
- 8. Press the EXIT button.
- The display returns to the previous display.
- Repeat steps 3 to 8 to create other maps, as desired.
- 10. Press the OK button.
- 11. When you have finished making the MAP SET settings, press the EXIT button.

Recall chord map

Follow the procedure below to recall a stored chord map and use with your performance.

- 1. Press the **COMPOSER CHORD MAP** button to turn it on.
- 2. Use the buttons to the left of the display to select the number of the desired map.
- After a few seconds, the display returns to the previous display.
- Play the keyboard using the automatic accompaniment.
- The pattern changes according to the type of chord you play.
- If you wish to end a performance which uses a COMPOSER CHORD MAP, select a different rhythm from the RHYTHM GROUP.

Part VI Disk Drive

Outline of the Disk Drive function

The Disk Drive enables you to store COMPOSER memories, SEQUENCER data etc. for future use.

Internal memory and Floppy Disk Drive

The storable internal memory is fixed at a limited capacity, but this external memory device expands the storable memory infinitely.

- You can use 3.5 inch 2DD(720 KB) or 2HD (1.44 MB) floppy disks; however, 2HD disks formatted as 2DD cannot be used.
- · Specific file formats are handled as follows.

		SAVE	LOAD
TECHNICS	File	0	0
Standard	FORMAT 0	0	0
MIDI File	FORMAT 1	× 0	0

FORMAT 0:

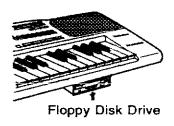
There is one track on the disk, and it contains the 16 MIDI chan-

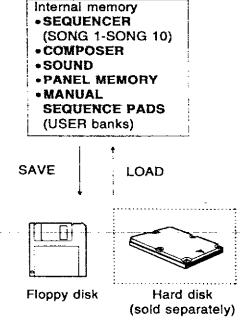
FORMAT 1:

There is an unlimited number of tracks on the disk, each of which can contain the 16 MIDI channels.

■ Playback of commercial software

Disks recorded using the Disk Drive of this instrument can, of course, be played back on your Keyboard (TECHNICS file). But this instrument also reads song data from floppy disks recorded in the Standard MIDI File format, enabling you to play commercial song disks on this instrument. In addition, by saving this instrument's **SEQUENCER** data in the Standard MIDI File format, you can play it back on an external sequencer.





 SEQUENCER data is saved and loaded one song at a time.

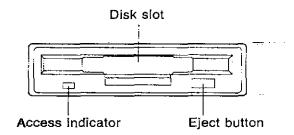
About Standard MIDI Files

"Standard MIDI File" is a standardized data format which makes it possible for music data to be exchanged among different sequencers. Data stored in this format on sequencers of different models can be played back on this Keyboard, and vice versa,

- Only files with the ".MID" extension can be loaded.
- No more than 310 KB of data can be loaded into the Keyboard.

Warning: Standard MIDI Files ensure the compatibility of data such as key on, key off, velocity, program number. It does not guarantee 100% faithful reproduction of recorded music which is replete with such data. For exact playback of music, it may be necessary to perform extensive adjustments of all the sound generator settings. As you the listener are the ultimate judge of what sounds best, you should perform such adjustments to your satisfaction.

Main parts of the Floppy Disk Drive



Eject button

Press to remove the disk from the Disk Drive.

Access Indicator

Lights when data is being loaded from or saved to disk.

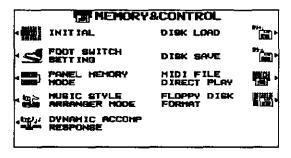
 To prevent data loss, do not remove the disk from the Disk Drive or turn off the power when the access indicator is lit.

Outline of procedure

 Press the MEMORY & CONTROL button to turn it on.



· The display changes to the following.



DISK LOAD (page 97)

Load data in either the Technics File format or Standard MIDI File format from a disk into the Keyboard memory.

DISK SAVE (page 102)

Save data from the Keyboard memory to a disk, in either the Technics File format or the Standard MIDI File format.

MIDI FILE DIRECT PLAY (page 100)

Immediate playback of disk data which is in the Standard MIDI File format.

FLOPPY DISK FORMAT (page 101)

Format new floppy disks or erase the contents of recorded disks so they can be used by this Keyboard.

- INITIAL is explained on page 144.
- FOOT SWITCH SETTING is explained on page 50.
- PANEL MEMORY MODE is explained on page 49.
- MUSIC STYLE ARRANGER MODE is explained on page 48.
- DYNAMIC ACCOMP RESPONSE is explained on page 43.
- 2. Select the desired menu and follow the procedures on the corresponding setting display.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- 3. When you have finished setting the functions, press the **MEMORY & CONTROL** button to turn it off.

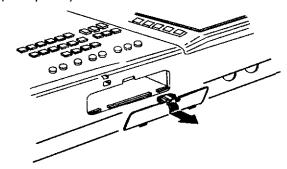
Hard Disk (option)

When a hard disk drive (SY-HD1) (separately sold option) is connected, the memory capacity for storing your performance data is much larger than that of a floppy disk.

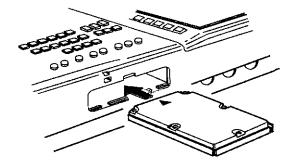
For specifications of your hard disk drive, please read the SY-HD1 Owner's Manual.

installing the hard disk drive (HDD)

- 1. Before beginning installation, be sure that the power to the instrument is turned off.
- 2. Remove the cover from the HARD DISK slot (rear panel).



3. Fully insert the hard disk drive until it is all the way in to ensure a completed connection.



- 4. Affix the cover.
- When the hard disk drive is installed, menus and buttons pertaining to hard disk operation are shown on the display during Disk Drive operation.

Usage precautions

- Install only the specified hard disk drive in your instrument.
- Avoid using and storing the hard disk drive in the following types of locations:
 - Locations where static electricity occurs readily
 - Locations with very high or very low temperatures
 - Locations with large changes in temperature
 - in direct sunlight
 - In very humid or dusty locations
 - -Locations subject to shock or vibration
- · Do not disassemble the hard disk drive.
- · Do not heat it or place it in fire.
- Do not place heavy objects on top of the hard disk drive.
- To prevent static electricity from being generated, avoid touching the hard disc drive's connector or the instrument's connector.
- When transporting the hard disk drive, do not drop or bump it against the corner of a desk or any other hard object.
- To ensure that the data you save to your hard disk drive is not accidentally lost, it is recommended that you also save your data on floppy disks
- Be very careful when moving the instrument in which the hard disk drive is installed. Be sure not to subject it to shock or vibration by dropping or when transporting it.

■ FORMAT

The hard disk is specially formatted for TECH-NICS instrument use at the time of shipment from the factory. It cannot be formatted by the user.

- If you experience difficulty in saving to or loading from the hard disk, please contact your nearest Technics dealer.
- The user should be aware that in the event that repair is necessary, it may not be possible to prevent data loss.

WARNING:

- Failure to turn off the power to your instrument before removing or installing the hard disk drive may result in damage to the instrument and/or the HDD.
- While data is being loaded or saved, never turn off the power to this instrument or jolt it, as to do so will risk losing or destroying data.

Loading data

Recall (load) the data from the disk to the Keyboard's memories.

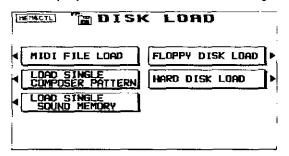
WARNING: The load procedure causes any data which is currently stored in the relevant memories to be erased.

DISK LOAD

1. Insert the disk with the stored data into the Disk Drive.



- On the MEMORY & CONTROL menu display, select DISK LOAD.
- · The display looks similar to the following.



3. Select the type of data load you want.

FLOPPY DISK LOAD

Load data which was saved in the Technics File format.

MIDI FILE LOAD

Load data which was saved in the Standard MIDI File format.

HARD DISK LOAD

(when separately sold hard disk is installed) Load data which was saved to the hard disk in the Technics File format.

 For an explanation of the hard disk, refer to page 96.

LOAD SINGLE COMPOSER PATTERN

Load COMPOSER data from a disk into a specified memory number.

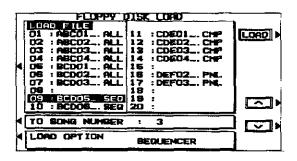
LOAD SINGLE SOUND MEMORY

Load **SOUND** data from a disk into a specified memory number.

4. Perform the selected disk load procedure. (Refer to the following sections.)

■ FLOPPY DISK LOAD

Load data which was saved in the Technics File format.



- Select the LOAD FILE box. Use the A and V buttons to select the file on the floppy disk you wish to load (copy) to the Keyboard's memories.
- The file name is shown next to each file number.
- 2. Select the TO SONG NUMBER box. Use the ∧ and ∨ buttons to select the song number in the Keyboard's memories to which you wish to have the file loaded (copied).
- SEQUENCER data is loaded one song at a time. However, if you load a file for which the SAVE OPTION was set to ALL, SEQUENCER songs 1 to 10 are loaded at once.

 Select the LOAD OPTION box. Use the ∧ and ∨ buttons to specify the kind of data you wish to load from the disk to your instrument.

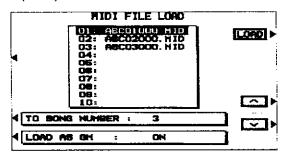
ALL: All the following data is loaded.
SEQUENCER: Only SEQUENCER data
COMPOSER: Only COMPOSER data
SOUND MEMORY: Only SOUND data
PANEL MEMORY: Only PANEL MEMORY
data
MSP: Only MANUAL SEQUENCE PADS data

 The option which was specified during the SAVE procedure is automatically selected. Skip this step if you do not wish to change the selection.

- 4. Press the LOAD button.
- · The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If song data was loaded, you can press the START/STOP button to begin playback when the SEQUENCER PLAY display is active.
- You can quickly load just the COMPOSER data by pressing and holding the COM-POSER LOAD (COMPOSER) button for a few seconds.
- You can also access the DISK LOAD display by pressing the DISK DRIVE (DISK LOAD) button for a few seconds.

■ MIDI FILE LOAD

Load data which was saved in the Standard MIDI File (SMF) format.

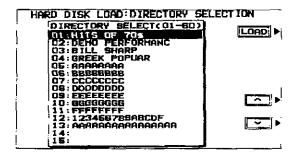


- Select the file list box. Use the ∧ and ∨ buttons to select the file.
- Select the TO SONG NUMBER box. Use the ∧ and ∨ buttons to select the song.
- Data is loaded one song at a time.
- Select the LOAD AS GM box, and use the ∧ and ∨ buttons to specify whether or not to load the song as General MIDI (GM) (ON/OFF).
- If the file contains General MIDI on/off data, that data has priority.
- Information about General MIDI can be found on page 136.
- If playback is executed with the setting set to ON, the functions of this instrument are limited in various ways. For detailed information, please refer to the separate "REFERENCE GUIDE" provided.

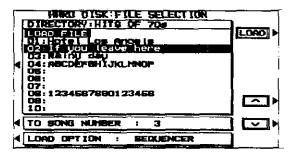
- 4. Press the LOAD button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- Press the START/STOP button to begin playback.

■ HARD DISK LOAD

(when the separately sold hard disk is installed) Load data from the hard disk.



- Select the file list box. Use the ∧ and ∨ buttons to select the directory.
- 2. Press the LOAD button.
- · The display looks similar to the following.

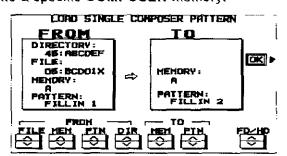


Select the LOAD FILE box. Use the A and V
buttons to select the file on the hard disk you
wish to load (copy) to the Keyboard's
memories.

- 4. Select the TO SONG NUMBER box. Use the ∧ and ∨ buttons to select the song number in the Keyboard's memories to which you wish to have the file loaded (copied).
- SEQUENCER data is loaded one song at a time. However, if you load a file for which the SAVE OPTION was set to ALL, SEQUENCER songs 1 to 10 are loaded at once.
- Select the LOAD OPTION box. Use the ∧ and ∨ buttons to specify the kind of data you wish to load from the disk to your instrument.
- 6. Press the LOAD button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If song data was loaded, you can press the START/STOP button to begin playback when the SEQUENCER PLAY display is active.
- General MIDI is automatically set to ON if data is loaded from a disk for which the GM mode was set to on. (Refer to page 142.) The status of this instrument changes to the GENERAL MIDI status, and the sounds and operations which can be selected are limited.

■ LOAD SINGLE COMPOSER PATTERN

Load the desired COMPOSER data from a disk into a specific COMPOSER memory.



1. Select the data to load (FROM).

FILE: Specify the file number to load.

MEM: Select the memory bank (A, B or C).

PTN: Select the pattern name.

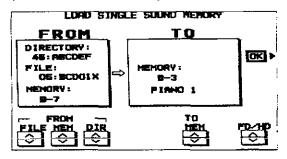
2. Select the memory bank and pattern to load to (TO).

MEM: Select the memory bank (A, B or C). PTN: Specify the pattern name.

- 3. Press the OK button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- When loading data from the hard disk (separately sold option), use the FD/HD button to select HD before following the above procedure. In this case, for the FROM box, first use the DIR button to select the directory number.
- This procedure can also be accessed from the COMPOSER menu display. (Refer to page 81.)

■ LOAD SINGLE SOUND MEMORY

Load the desired SOUND data from a disk into a specific SOUND memory.



1. Select the data to load (FROM).

FILE: Specify the file number to load. MEM: Select the memory name.

2. Select the memory to load to (TO).

TO MEM: Select the memory (A or B).

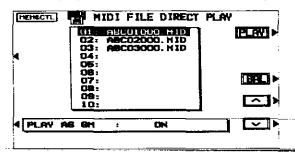
- 3. Press the OK button.
- · The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- When loading data from the hard disk (separately sold option), use the FD/HD button to select HD before following the above procedure. In this case, for the FROM box, first use the DIR button to select the directory number.

Playing commercial disks

Standard MIDI File format song data (FORMAT 0 only) can be played back directly from a disk. The usual LOAD operation is not necessary, so playback is quicker.

MIDI FILE DIRECT PLAY

- On the MEMORY & CONTROL menu display, select MIDI FILE DIRECT PLAY.
- The display looks similar to the following.



2. Select the song list box, and use the ∧ and ∨ buttons to select the filename to play back.

- 3. Select the PLAY AS GM box, and use the A and V buttons to specify whether or not to play the song as General MIDI (GM) (ON/OFF).
- If the file contains General MIDI on/off data, that data has priority.
- Information about General MIDI can be found on page 136.
- If playback is executed with the setting set to ON, the functions of this instrument are limited in various ways. For detailed information, please refer to the separate "REFERENCE GUIDE" provided.
- 4. Press the PLAY button.
- · The selected song begins to play.
- To adjust the volume balance, press the BAL button on the display.
- The PLAY button becomes the STOP button.
 Press this button if you wish to stop playback before it has finished.
- You can use the same procedure to play back other songs on the disk.
- The song stops if you exit this display during playback.

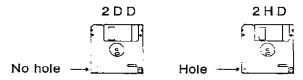
Formatting a disk

New floppy disks can be used only after they have been formatted. Follow the procedure below to format a new disk or erase the contents of a recorded disk.

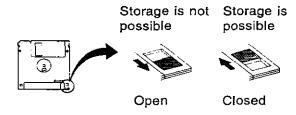
• The hard disk (sold separately) cannot be formatted.

FLOPPY DISK FORMAT

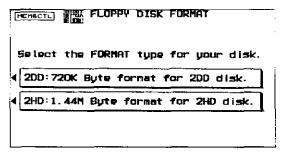
- This procedure clears the entire contents of the disk.
- Reformat a disk if it cannot be saved to or loaded from properly because of exposure to a magnetic field.
- You can use 3.5 inch 2DD (720KB) or 2HD (1.44MB) floppy disks.
- Be sure to specify the type of format which is suitable for the disk.
- How to distinguish to two disk types:



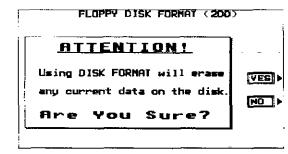
- Although 2HD floppy disks can hold more data and are convenient for quick loading and saving, 2DD disks are generally used for musical instruments. Therefore, you may not be able to use your 2HD disk data with other musical instrument models.
- To format the floppy disk, the write-protect window must be closed, as illustrated.



- 1. Insert the floppy disk into the Disk Drive slot. Push it all the way in until you hear a click.
- On the MEMORY & CONTROL menu display, select FLOPPY DISK FORMAT.
- The display changes to the following.



- 3. Select the type of format (2DD or 2HD).
- Be sure to select the type which is the same as your disk type.
- · The display changes to the following.



- Press the YES button to format the disk, or press the NO button to cancel the format.
- After about 1-2 minutes, formatting is completed and "FORMAT COMPLETED!" is shown on the display.

Saving data

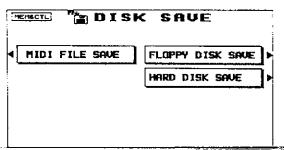
The recorded data and panel settings of this instrument can be saved on a disk.

 It is a good idea to save Technics File format data and Standard MIDI File format data in separate disks.

DISK SAVE

This procedure is used to save the performance data and settings of this instrument to a disk.

- Insert a formatted disk into the Disk Drive slot. Push it all the way in until you hear a click.
- On the MEMORY & CONTROL menu display, select DISK SAVE.
- The display looks similar to the following.



3. Select the type of data save you want.

FLOPPY DISK SAVE:

Save data in the Technics File format.

HARD DISK SAVE:

Save data to the hard disk in the Technics File format (when separately sold hard disk is installed).

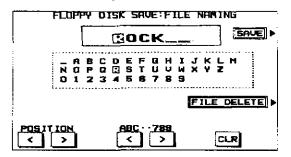
MIDI FILE SAVE:

Save data in the Standard MIDI File format.

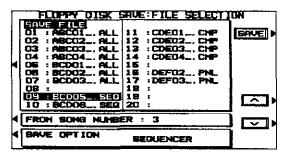
4. Perform the selected disk save procedure. (Refer to the following sections.)

■ FLOPPY DISK SAVE

Save data from this instrument in the Technics File format to a floppy disk.



- 1. Type a name for the new data file (up to 6 characters).
- Use the POSIT(ON < and > buttons to highlight the character position. Use the ABC • • 789 < and > buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press the CLR button.
- Press the SAVE button.
- The display looks similar to the following.



- Select the SAVE FILE box. Use the ∧ and ∨ buttons to select a file number (01 to 20).
- Files in which data is currently stored are indicated by the file name following the file num-
- The maximum number of files which can be saved may be less than 20 if you are saving many songs which use a lot of memory.
- · For effective use of disk memory, if it is not necessary to save the COMPOSER data, clear the COMPOSER memories before saving to disk.
- More data can be saved using 2HD floppy disk.

- 4. Select the FROM SONG NUMBER box. Use the \wedge and \vee buttons to select the song number in the Keyboard's memories you wish to have saved to the floppy disk.
- · SEQUENCER data is saved one song at a time. However, if ALL is selected for the SAVE OPTION, SEQUENCER songs 1 to 10 are saved at once. In this case, you can conserve memory by deleting songs you do not wish to save.
- 5. Select the SAVE OPTION box. Use the A and ∨ buttons to specify the kind of data you wish to save to the disk.

ALL: All the following data is saved. SEQUENCER: Only SEQUENCER data COMPOSER: Only COMPOSER data SOUND MEMORY: Only SOUND memory PANEL MEMORY: Only PANEL MEMORY

MSP: Only MANUAL SEQUENCE PADS data

- The MASTER TUNING setting is not saved.
- 6. Press the SAVE button.
- The SAVE operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If you attempt to save data to a file number in which data is currently saved, the display changes to the confirmation display. Press the NO button if you wish to cancel the procedure. When the YES button is pressed, the DISK SAVE operation begins.

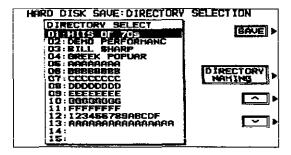
FILE delete

To erase a song from a disk, on the FILE NAMING display, press the FILE DELETE button. Then on the FLOPPY DISK SAVE display, select the number of the song you wish to erase, and press the DEL button. The display changes to the confirmation display. Press the YES button to erase the song, or press the NO button to cancel the procedure.

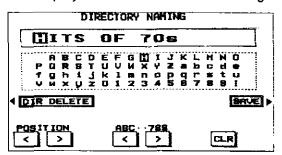
■ HARD DISK SAVE (when separately sold hard disk is installed)

Save data from this instrument to the hard disk in the Technics File format.

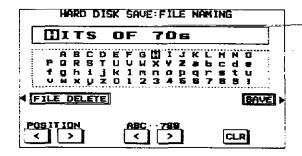
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- Use the ∧ and ∨ buttons to select the number of the directory to save to.
- 2. Press the DIRECTORY NAMING button.
- For an existing directory which does not need to be renamed, press the SAVE button and skip to step 7.
- The display looks similar to the following.

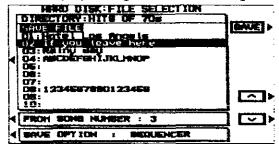


- 3. Type a name for the directory (up to 16 characters).
- Use the POSITION < and > buttons to high-light the character position. Use the ABC...789
 and > buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press the CLR button.
- 4. Press the SAVE button.
- · The display looks similar to the following.



5. Type a name for the file (up to 16 characters).

- 6. Press the SAVE button.
- The display changes to the following.



- 7. Select the SAVE FILE box. Use the A and buttons to select the file to save to.
- Files in which data is currently stored are indicated by the file name following the file number.
- For effective use of disk memory, if it is not necessary to save the COMPOSER data, clear the COMPOSER memories before saving to disk.
- 8. Select the FROM SONG NUMBER box. Use the ∧ and ∨ buttons to select the song number in the Keyboard's memories you wish to have saved to the hard disk.
- SEQUENCER data is saved one song at a time. However, if ALL is selected for the SAVE OPTION, SEQUENCER songs 1 to 10 are saved at once. In this case, you can conserve memory by deleting songs you do not wish to save.
- Select the SAVE OPTION box. Use the and v buttons to specify the kind of data you wish to save.
- 10.Press the SAVE button.
- · The SAVE operation begins.
- Do not turn off the power to the instrument during the SAVE operation.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If you attempt to save data to a file number in which data is currently saved, the display changes to the confirmation display. Press the NO button if you wish to cancel the procedure. When the YES button is pressed, the DISK SAVE operation begins.

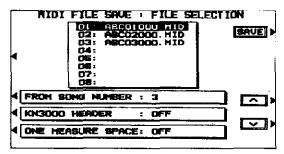
DIRECTORY delete

To erase data from a directory, on the DIRECTORY NAMING display, press the DIR DELETE button. Then on the DIRECTORY SELECTION display, select the number of the directory you wish to erase, and press the DEL button. The display changes to the confirmation display. Press the YES button to erase the directory, or press the NO button to cancel the procedure.

■ MIDI FILE SAVE

The data from this instrument's **SEQUENCER** can be saved to a floppy disk in the Standard MIDI File (SMF) format. (Standard MIDI Files are most commonly saved on 2DD floppy disks.) Data saved on this instrument can then be used on another instrument.

- What you can save in the Standard MIDI File format is ordinary performance data, such as note data. Data such as SEQUENCER data for the chord and rhythm parts, COMPOSER data, PANEL MEMORY data, etc. is not saved. If you wish to also save the special Technics data, first use the DISK SAVE procedure to save the data to a disk, and then follow the MIDI FILE SAVE below.
- Standard MIDI Files are generally saved in the GM mode, but can be saved in the Technics mode.
- 1. Type a name for the new data file (up to 8 characters).
- Use the POSITION < and > buttons to high-light the character position. Use the ABC • 789 < and > buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press the CLR button.
- Avoid using the numbers from 01 to 20 as the first two letters of the name.
- 2. Press the SAVE button.
- The display looks similar to the following.



- 3. Select the file list box. Use the ∧ and ∨ buttons to select the name of the file in which to save the data.
- · To save in a new file, select a blank line.

FILE delete

To erase a song from a disk, on the FILE NAMING display, press the FILE DELETE button. Then on the FILE SELECTION display, select the number of the song you wish to erase, and press the DEL button. The display changes to the confirmation display. Press the YES button to erase the song, or press the NO button to cancel the procedure.

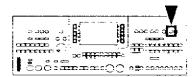
- 4. Select the FROM SONG NUMBER box. Use the ∧ and ∨ buttons to select the song number in the Keyboard's memories you wish to have saved to the floppy disk.
- · Data is saved one song at a time.
- 5. Select the KN3000 HEADER box, and use the \(\text{and} \vee \text{ buttons to select ON or OFF.} \)
- Select ON to save the sound, volume and other settings for each part as data at the beginning of the file.
- Select the ONE MEASURE SPACE box, and use the ∧ and ∨ buttons to select ON or OFF.
- When there is various data other than performance data stored at the beginning of a file, the start of playback may be delayed. This can be avoided by inserting a one-measure space before the beginning of the performance. Select ON to insert a one-measure space. Select OFF if you do not wish to insert the space.
- When set to ON, a space is added each time a file is saved. Therefore, if you have already saved a file once with the ONE MEASURE SPACE set to ON, please set it to OFF each time the file is subsequently saved.
- 7. Press the SAVE button.
- The SAVE operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If you attempt to save data to a file number in which data is currently saved, the display changes to the confirmation display. Press the NO button if you wish to cancel the procedure.

FILE delete

To erase a song from a disk, on the MIDI FILE NAMING display, press the FILE DELETE button. Then on the MIDI FILE SAVE display, select the number of the song you wish to erase, and press the DEL button. The display changes to the confirmation display. Press the YES button to erase the song, or press the NO button to cancel the procedure.

Part VII Adjusting the sounds

Sound mode



The SOUND mode is used for making fine adjustments to the functions related to sound, such as tone, volume and effects.

SOUND menu

1. Press the SOUND button to turn it on.



· The display changes to the following.

SOUND SETTING				
· 🚮	PART SETTING	HIXER	III .	
192	OVERALL YOUCH SENSITIVITY	REVERB	[(,)1]	
4 ((₩))	MASTER TUNING	DSP EFFECY		
< ! TIT! !	KEY SCALING	TECHNI-CHORD	iii >	
• []]]	LEFT HOLD		!	

- 2. Select the desired menu and follow the procedures on the corresponding setting display.
- When the current display is a setting display, you can press the EXIT button to go back to the previous display. To show other menus, use the EXIT button to return to the SOUND menu display and make another selection.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- When you have finished setting the functions, press the SOUND button to turn it off.

■ A word about parts

The organization of the sound parts is as follows. Normal parts:

RIGHT 1, RIGHT 2, LEFT, PART 4 to 16 (PART 16 is reserved for the DRUMS part)
AUTO PLAY CHORD parts:

ACCOMP 1, 2, 3, BASS, DRUMS, CHORD, R.BASS.

MANUAL SEQUENCE PADS part: MSP

- Summary of the SOUND menu Items -

PART SETTING (page 107)

Set the various sound attributes for each part. VOLUME: Adjust the volume for each part. PAN: Adjust the stereo balance of each part. EFFECT: Adjust the effects for each part. SUSTAIN: Turn the sustain on or off for each part.

KEY SHIFT: Adjust the key of each part in half-tone increments.

TUNING: Fine-tune the pitch of each part.

PITCH BEND RANGE: Set the amount of pitch change when the PITCH BEND wheel is used.

OTHER SETTING: Additional settings for each part.

MIXER (page 110)

Use the MIXER display to visually adjust the major settings of each part.

OVERALL TOUCH SENSITIVITY (page 111) Adjust the amount of keyboard touch response.

MASTER TUNING (page 112)

Select the type of tuning for the instrument.

KEY SCALING (page 112) Select the type of scaling (tuning).

TECHNI-CHORD TYPE (page 113)
Select the TECHNI-CHORD harmony style.

LEFT HOLD (page 114)

Set the mode which determines how the LEFT part sounds during an AUTO PLAY CHORD performance.

REVERB (page 115)

Select the type and depth of the DIGITAL REVERB.

DSP EFFECT (page 115)

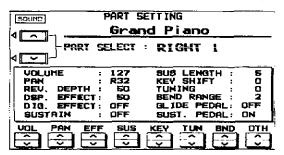
Select the type and degree of the DSP EFFECT.

Part Setting

Set the various sound attributes for each part.

Selecting an attribute

- On the SOUND menu display, select PART SETTING.
- The display looks similar to the following.



- 2. Use the \wedge and \vee buttons to select the part.
- PART 4 to 16 are used in SEQUENCER and MIDI functions. PART 16 is reserved for the DRUMS part.
- For information concerning CHORD and R.BASS, refer to the section on the AUTO PLAY CHORD (page 42).
- If necessary, assign a sound to the selected part at this time. (Only sounds from the KEYBOARD PERC group can be selected for PART 16.)
- The upper portion of the display shows the name of the selected part and the sound assigned to that part. The box in the lower portion of the display shows the status of each attribute for the selected part.

Use the buttons along the bottom of the display to select the attribute you wish to adjust.

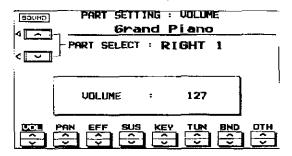
VOL: VOLUME
PAN: PAN
EFF: EFFECT
SUS: SUSTAIN
KEY: KEY SHIFT
TUN: TUNING

BND: PITCH BEND RANGE OTH: OTHER SETTING

- The display changes to the setting display for the selected attribute.
- The settings which can be adjusted may differ depending on the selected part.
- 4. Adjust each attribute (explained in detail following).
- When you have completed adjustment of an attribute, use the buttons along the bottom of the display to select the next attribute you wish to adjust.
- When you have completed adjusting all of the settings for one part, select another part and repeat the adjustment procedure as desired.
- The settings and effects of the PAN, EFFECT etc. may differ depending on the sound.

VOLUME

Adjust the volume of each part.



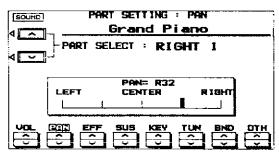
Use the VOL \wedge and \vee buttons to adjust the volume (0 to 127).

 If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.

PAN

Adjust the stereo balance of each part.

E131: 4E | 250....

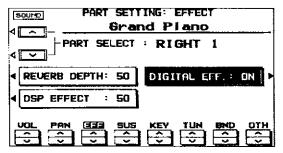


Use the PAN ∧ and ∨ buttons to adjust the stereo balance (L64–CTR-R63).

- At L64, the sound is completely to the left, at R63 completely to the right. At CTR, the sound is at the center. A thick vertical line on the display indicates the selected position.
- If you wish to adjust this effect for other parts.
 use the PART SELECT ∧ and ∨ buttons to select another part.
- Even at the same numerical value, the stereo balance may differ slightly depending on the sound

EFFECT

The **DIGITAL REVERB** depth, the **DSP EFFECT** depth, and the **DIGITAL EFFECT** on/off status can be set for each part.

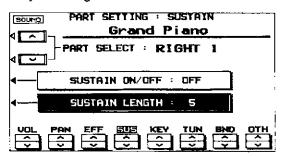


- 1. Select an effect (REVERB DEPTH, DSP EFFECT or DIGITAL EFF).
- 2. Use the EFF ∧ and ∨ buttons to change the setting.

- For the REVERB DEPTH and DSP EFFECT, specify the depth (0 to 127). For the DIGITAL EFF, set to ON or OFF.
- If the DSP EFFECT button is pressed after the settings have been changed, the DSP EF-FECT setting will revert to the preset value. For this reason, it is recommended that you use the PANEL MEMORY to store your customized DSP EFFECT setting.
- Repeat steps 1 and 2 for the other effects, as necessary.
- If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.
- Even at the same numerical value, the effect may differ depending on the sound.

SUSTAIN

Turn the sustain on or off for each part, and specify the length of the sustain.



Sustain on/off

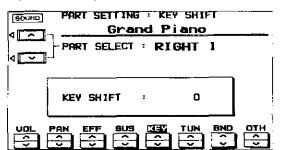
- 1. Select SUSTAIN ON/OFF.
- 2. Use the SUS ∧ and ∨ buttons to set the sustain to on or off.

■ Sustain length

- 1. Select SUSTAIN LENGTH.
- 2. Use the SUS \wedge and \vee buttons to adjust the length of the sustain (1 to 8).
- For some sounds, the length of the sustain does not change even if the number is changed.
- If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.

KEY SHIFT

The pitch of the part can be shifted up or down.

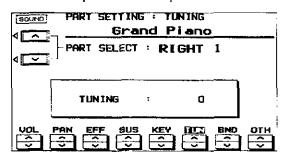


Use the KEY \wedge and \vee buttons to specify the amount of key shift (-12 to +12).

- A value of 1 means a shift of one semi-tone.
 To raise (or lower) the pitch one octave, set the value to +12 (or -12).
- The ∨ button is used to lower the pitch, and the ∧ button to raise the pitch.
- If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.

TUNING

Fine-tune the pitch of each part.

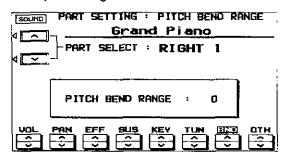


Use the TUN \wedge and \vee buttons to adjust the tuning (-128 to +127).

- The ∨ button is used to lower the pitch, and the ∧ button to raise the pitch.
- If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.

PITCH BEND RANGE

Set the pitch range of the PITCH BEND wheel.



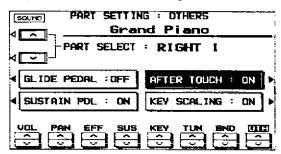
Use the BND \wedge and \vee buttons to specify the range (0 to 12), Increments are In semI-tones.

- The higher the number, the greater the change in pitch when the PITCH BEND wheel is operated.
- If you wish to adjust this effect for other parts, use the PART SELECT ∧ and ∨ buttons to select another part.

OTHER SETTING

Modify the Foot Switch setting and other settings.

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1. Select the function to adjust.

GLIDE PEDAL:

Enable or disable the glide effect, if it has been assigned to the Foot Switch (sold separately).

SUSTAIN PEDAL:

Enable or disable the sustain effect, if it has been assigned to the Foot Switch (sold separately).

AFTER TOUCH:

Enable or disable the aftertouch effect for the keyboard.

KEY SCALING:

Enable or disable key scaling (page 112).

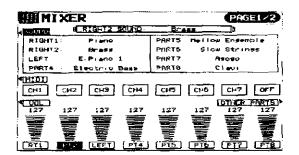
- Use the OTH ∧ and ∨ buttons to select ON or OFF for each function.
- For Foot Switch settings, refer to page 50.
- To change the settings for other parts, use the PART SELECT ∧ and ∨ buttons to select a different part.

Mixer

Use the MIXER display to visually adjust the major settings of each part. Use this display to make broad, general changes to the settings.

- 1. On the **SOUND** menu display, select MIXER.
- The MIXER display consists of 2 pages. Use the PAGE buttons to switch between the pages.
- On each page you can press the OTHER PARTS button to switch to parts 9 to 16 (PT9– P16).

2. Adjust each parameter.



SOUND: Press the SOUND button. Use the balance buttons below the display to set the sound for the corresponding part.

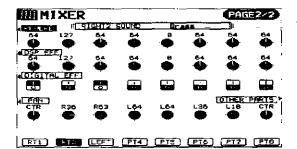
• The buttons in the SOUND GROUP can also be used to select the sound.

MIDI: Press the MIDI button. Use the balance buttons below the display to set the MIDI basic channel for each part.

 Information about MIDI basic channels can be found on page 138.

VOLUME: Press the VOL button. Use the balance buttons below the display to adjust the volume of the corresponding part.

 To mute a part, press both the corresponding balance buttons as the same time. To cancel the mute, press either balance button for the part.



REVERB: Press the REVERB button. Use the balance buttons below the display to set the level of the **DIGITAL REVERB** for the corresponding part.

DSP EFFECT: Press the DSP EFF button. Use the balance buttons below the display to adjust the level of the **DSP EFFECT** for the corresponding part.

DIGITAL EFFECT: Press the DIGITAL. EFF button. Use the balance buttons below the display to set the **DIGITAL EFFECT** to on (1) or off (0) for the corresponding part.

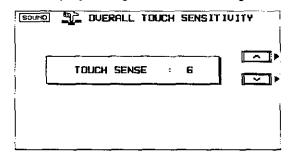
PAN: Press the PAN button. Use the balance buttons below the display to adjust the stereo balance of the corresponding part.

 Even at the same numerical value, the PAN and effects may differ depending on the sound.

Overall Touch Sensitivity

Adjust the amount of keyboard touch response.

- On the SOUND menu display, select OVER-ALL TOUCH SENSITIVITY.
- · The display changes to the following.

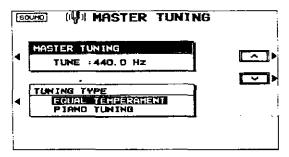


- Use the ∧ and ∨ buttons to adjust the degree of touch sensitivity (0 to 9).
- The larger the number, the greater the degree of touch sensitivity.
- When set to 0, touch sencitivity is turned off.

Master Tuning

This setting is used to fine-tune the pitch of the entire instrument. This is convenient when the Keyboard is played with other instruments or with a recorded performance. You can also select from two types of tuning.

- 1. On the **SOUND** menu display, select MASTER TUNING.
- The display changes to the following.



- 5. Use the ∧ and ∨ buttons to select the type of tuning.
 - EQUAL TEMPERAMENT: One octave is divided into pitches of 12 equally spaced intervals.
 - PIANO TUNING: Standard acoustic piano tuning, in which the lower pitches are tuned slightly lower and the higher pitches are tuned slightly higher.

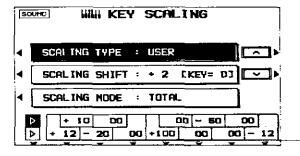
- 2. Select MASTER TUNING.
- Use the ∧ and ∨ buttons to adjust the pitch within a range of 427.3 to 453.0 Hz.
- The decimal can be set to 0, 3 or 6.
- 4. Select TUNING TYPE.

Key Scaling

2. Select SCALING TYPE.

The temperament (tuning) of this instrument can be adjusted. Various types other than standard temperament are available to choose from.

- 1. On the SOUND menu, select KEY SCALING.
- · The display looks similar to the following.



- 3. Use the \wedge and \vee buttons to select the type.
- Select from OFF, PURE Maj, PURE min, PYTHAGOREAN, WERCKMEISTER, KIRN-BERGER, ARABIC 1 to 5, SLENDRO, PELOG, USER.
- Select OFF if you wish to use the type selected for TUNING TYPE. (Refer to the section above on "Master Tuning".)
- Select USER if you wish to use a customized scaling (explained in the following section).
- 4. Select SCALING SHIFT.
- Use the ∧ and ∨ buttons to select the key in which you are going to perform.
 - 6. Select SCALING MODE.

 Use the ∧ and ∨ buttons to select the tuning mode.

TOTAL:

The selected KEY SCALING is active for all parts.

SOUND:

The KEY SCALING specified for individual sounds has priority.

- To assign a specific KEY SCALING to a sound, refer to Part VIII: Sound Edit, page 120.
- The ON/OFF status of KEY SCALING for each part is set on the PART SETTING display. (Refer to page 110.)

User type scaling

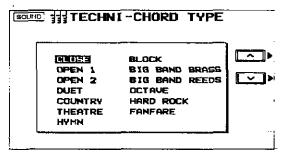
You can adjust the instrument to a customized scaling.

- In KEY SCALING, the pitch of each note of the octave is slightly shifted up or down from the standard (equal temperament) tuning.
- 1. Select USER for the SCALING TYPE.
- 2. Adjust the key scaling.
- Use the balance buttons below the display to adjust the pitch of the corresponding key shown on the display.
- Use the leftmost balance buttons below the display to switch between white keys and black keys.
- Increments are in cents (one hundredth of an equal-tempered semitone). A + value raises the pitch and a - value lowers the pitch in relation to standard tuning (equal temperament).

Techni-chord Type

Select the desired harmony style for the TECHNI-CHORD.

- On the SOUND menu display, select TECH-NI-CHORD.
- The display changes to the following.



- Use the ∧ and ∨ buttons to select the harmony style.
- When the OCTAVE, HARD ROCK or FAN-FARE style is selected, the TECHNI-CHORD functions even when the keyboard is not split.
- For a detailed explanation of the different harmony styles, refer to the separate "REFER-ENCE GUIDE" provided.

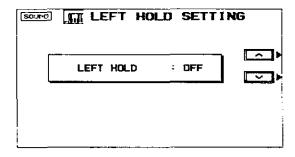
You can also access this display by pressing and holding the **TECHNI-CHORD** button.

 In this case, the display exits the setting mode a few seconds after you make the setting.

Left Hold

Select the mode to specify how the left section of the keyboard sounds during an AUTO PLAY CHORD performance.

- On the SOUND menu display, select LEFT HOLD.
- · The display changes to the following.



Use the ON and OFF buttons to set the mode to on or off.

■ OFF

	ONE FINGER	FINGERED	PIANIST
When rhythm is off	The chord note specified by the pressed key is heard (CHORD part).	The LEFT part sound and chord note specified by the pressed keys are heard.	The LEFT part notes and the chord note are not heard (the RIGHT part sound is heard for the entire keyboard).
When rhythm is on	The LEFT part notes and the chord note are not heard.	The LEFT part sound of the pressed keys is heard.	

- The LEFT part can be heard only when the LEFT button in the CONDUCTOR section is on.
- When you select the ONE FINGER mode, the LEFT button in the CONDUCTOR section turns off automatically.

■ ON

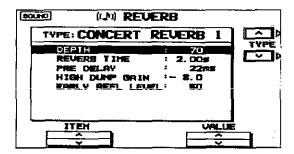
	ONE FINGER	FINGERED	PIANIST
When rhythm is on/off	The specified chord note is produced in the LEFT part sound.	The LEFT part sound of the pressed keys is heard.	The LEFT part notes and the chord note are not heard (the RIGHT part sound is heard for the entire keyboard).

- The LEFT part can be heard only when the LEFT button in the CONDUCTOR section is on.
- When the MEMORY button is on, even when the keys are released, the LEFT part sound continues to play.

Reverb

Select the type and depth of the DIGITAL REVERB.

- 1. On the SOUND menu display, select REVERB.
- · The display changes to the following.



- Use the TYPE ∧ and ∨ buttons to select the type.
- Details about each type and its parameters can be found in the separate "REFERENCE GUIDE" provided.

- 3. Use the ITEM ∧ and ∨ buttons to select the parameter to adjust.
- 4. Use the VALUE ∧ and ∨ buttons to change the setting.
- 5. Repeat steps 3 and 4 for the other parameters, as desired.

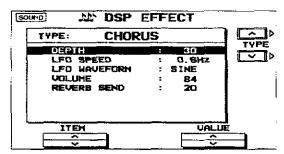
You can also access this display by pressing and holding the **DIGITAL REVERB** button.

 In this case, the display exits the setting mode a few seconds after you make the setting.

DSP Effect

Select the type of DSP EFFECT and make fine adjustments.

- On the SOUND menu display, select DSP EF-FECT.
- · The display changes to the following.



- 2. Use the TYPE \wedge and \vee buttons to select the type of effect.
- Details about the parameters or each type can be found in the separate "REFERENCE GUIDE" provided.
- Use the ITEM ∧ and ∨ buttons to select the parameter.
- Use the VALUE ∧ and ∨ buttons to adjust the setting.

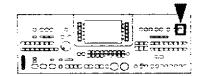
- Repeat steps 3 and 4 for each parameter as necessary.
- When a type of effect is selected, the parameters automatically revert to the factory defaults.

You can also access this display by pressing and holding the **DSP EFFECT** button.

 In this case, the display exits the setting mode a few seconds after you make the setting.

Part VIII Creating sounds

Outline of the Sound Edit

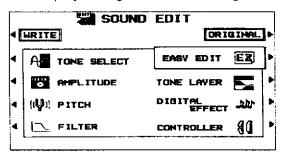


SOUND EDIT enables you to create your own new sound by altering one of the this instrument's preset sounds. Your new sound can be stored in one of the sound memory locations. **SOUND EDIT** has two methods of use. You can edit in detail using functions more commonly associated with a synthesizer, or you can use EASY EDIT which allows you to change some basic parameters on one page.

- Select a preset sound on which to build your new sound.
- To edit sounds in the KEYBOARD PERC sound group, please refer to page 133.
- To edit the DIGITAL DRAWBAR, please refer to page 134.
- 2. Press the SOUND EDIT button to turn it on.



· The display changes to the following.



- Select the desired menu and follow the procedures on the corresponding setting display.
- To check the sound of a single tone, press the SOLO button to highlight the SOLO indication.
 Only the currently selected tone sounds when
 a key is played.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- The sounds created with the SOUND EDIT are also affected by the settings adjusted in the SOUND mode (refer to "Part VII: Adjusting the sounds").
- 4. When the sound is just the way you like it, press the EXIT button to return to the menu display, and press the WRITE button to store your new sound.
- Press the EDITED (or ORIGINAL) button to switch between the modified sound (EDITED) and the original sound (ORIGINAL). This allows you to compare the edited sound to the original sound as you are modifying it.

Summary of the SOUND EDIT menu items

EASY EDIT (page 117)

The most often used edit functions—such as brightness and attack speed—are assembled on one display for easy sound modification.

TONE SELECT (page 118)

Modify the tones which make up the sound.

TONE LAYER (page 119)

Specify how the tones are assigned to the keyboard keys.

PITCH (page 120)

Adjust the settings related to the pitch of the sound.

FILTER (page 123)

Adjust the amount of frequency cut in specific frequency ranges.

AMPLITUDE (page 126)

Volume settings, such as the sound envelope.

DIGITAL EFFECT (page 129)

Select the type and degree of effects applied to the sound.

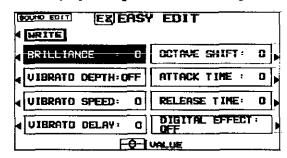
CONTROLLER (page 130)

Specify how wheel operation etc. affects the sound.

Easy Edit

The most commonly used edit functions are consolidated on one display, providing convenient and quick editing operation.

- 1. On the **SOUND EDIT** menu display, select EASY EDIT.
- · The display changes to the following.



- 2. Select a sound attribute to modify.
- 3. Use the VALUE \wedge and \vee buttons to specify the value of the attribute.
- Selecting the type of DIGITAL EFFECT is explained in the section on EFFECT EDIT (page 129).
- An effect may remain unchanged when EASY EDIT is used to set the value, if another EDIT function was first used to set the value to its upper or lower limit.

- 4. Repeat steps 2 and 3 to modify other sound attributes as desired.
- Press the WRITE button to store your new sound.
- Storing your new sound is explained on page 131
- If a sound is stored in the EASY EDIT mode, and is later selected in the EASY EDIT mode, the displayed value of an attribute may be different from the value when it was stored.
 The sound itself, however, is exactly as it was stored.

Easy Edit Items -

BRILLIANCE: Adjust the brightness of the sound.

VIBRATO DEPTH: Set vibrato depth. VIBRATO SPEED: Set vibrato speed.

VIBRATO DELAY: Set time delay between key played and vibrato start.

OCTAVE SHIFT: Shift the octave range.

ATTACK TIME: Adjust attack time.

RELEASE TIME: Adjust time of sound fade-

out after key is released.

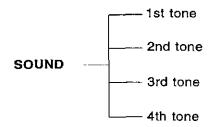
DIGITAL EFFECT: Select type of effect.

Tone Edit

Modify the separate tones which comprise the sound.

About tones

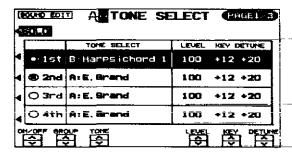
A sound may be made up of at most four tones.



TONE SELECT

- On the SOUND EDIT menu, select TONE SELECT.
- The display looks similar to the following.

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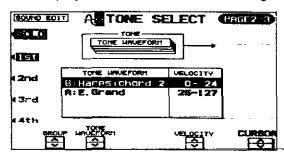
- 2. Use the buttons to the left of the display to select the tone you wish to edit (1st, 2nd, 3rd, 4th).
- 3. Use the ON/OFF ∧ and ∨ buttons to select ON or OFF.
- indicates that the tone is on, and indicates that it is off.
- Tones which are set to OFF are not produced.

- 4. Select a sound for the tone.
- Use the GROUP ∧ and ∨ buttons to select the group, and the TONE ∧ and ∨ buttons to select the sound.
- A list of tone sounds can be found in the __separate "REFERENCE GUIDE" provided.
- 5. Use the LEVEL ∧ and ∨ buttons to adjust the volume.
- Use the KEY ∧ and ∨ buttons to set the output pitch.
- Increments are in semitones.
- 7. Use the DETUNE \wedge and \vee buttons to make fine adjustments to the pitch.
- 8. Repeat steps 2 to 7 for the other tones, as desired.

■ TONE WAVEFORM

One tone may consist of up to four TONE WAVEFORMs. You can adjust the settings so that a different sound (tone waveform) is output for each tone depending on the velocity (how hard the keys are played).

- 1. Use the PAGE buttons to view the 2/3 display.
- · The display looks similar to the following.

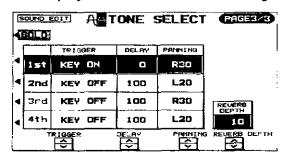


- 2. Use the buttons to the left of the display to select a tone.
- 3. Use the CURSOR ∧ and ∨ buttons to select the column for the function you wish to adjust.
- 4. Select the tone waveform.
- Use the GROUP ∧ and ∨ buttons to select the sound group. Use the TONE WAVEFORM ∧ and ∨ buttons to select the waveform.

- Use the VELOCITY \(\times\) and \(\times\) buttons to specify the velocity range.
- When the upper limit of a waveform is set to 127, no more waveforms can be added.
- Repeat steps 3 to 5 to edit the other waveforms, as desired.
- Up to four waveforms can be set, with a different sound for each velocity range.
- 7. Repeat steps 2 to 6 for the other tones, as desired.

Other settings

- 1. Use the PAGE buttons to view the 3/3 display.
- · The display looks similar to the following.



- 2. Use the buttons to the left of the display to select a tone.
- 3. Use the TRIGGER ∧ and ∨ buttons to select a trigger mode.

KEY ON: The normal mode, in which sound is emitted when the key is played.

KEY OFF: Sound is emitted when the key is released (like plucked strings, for example).

- CHORD: The sound is emphasized when chords are played (like the cutting sound of a guitar, for example).
- Use the DELAY ∧ and ∨ buttons to adjust the delay time of the sound.
- The higher the number, the longer the delay before sound output.
- 5. Use the PANNING ∧ and ∨ buttons to adjust the stereo balance (L64–CTR–R63).
- CTR is the center point. At L64, the sound is all the way to the left, at R63 all the way to the right.
- 6. Use the REVERB DEPTH ∧ and ∨ buttons to adjust the depth of the reverb.
- Repeat steps 2 to 6 for the other tones, as desired.

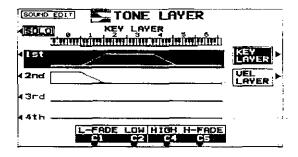
TONE LAYER

On the **SOUND EDIT** menu display, select TONE LAYER.

■ KEY LAYER

Adjust the relation of tone output to keyboard location.

- 1. Press the KEY LAYER button.
- The display looks similar to the following.



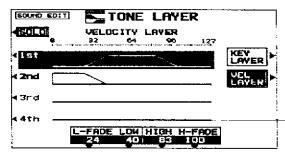
- 2. Use the buttons to the left of the display to select a tone (1st, 2nd, 3rd or 4th).
- 3. Use the L-FADE ∧ and ∨ buttons and the LOW ∧ and ∨ buttons to define the curve for the lower range of tone output.
- By entering different values for the L-FADE and LOW setting, you can define a sloping volume increase to the peak output volume which corresponds to the note pitch.

- 4. Use the HIGH ∧ and ∨ buttons and the H-FADE ∧ and ∨ buttons to define the curve for the higher range of tone output.
- By entering different values for the H-FADE and HIGH settings, you can define a sloping volume decrease from the peak output which corresponds to the note pitch.
- By overlapping the L-FADE and H-FADE curves of each different tone, you can achieve a cross-fade effect, where the sound gradually changes in relation to pitch.
- Repeat steps 2 to 4 for the other tones, as desired.

■ VELOCITY LAYER

Adjust these settings to regulate the tone output relative to the velocity.

- 1. Press the VEL LAYER button.
- · The display looks similar to the following.



2. Use the buttons to the left of the display to select a tone (1st, 2nd, 3rd or 4th).

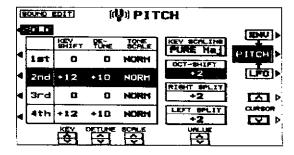
- 3. Use the L-FADE ∧ and ∨ buttons and the LOW ∧ and ∨ buttons to define the velocity curve for the lower range.
- 4. Use the HIGH ∧ and ∨ buttons and the H-FADE ∧ and ∨ buttons to define the velocity curve for the higher range.
- By overlapping the L-FADE and H-FADE curves of each different tone, you can change the way the tone sounds relative to how hard or softly the keyboard is played.
- Repeat steps 2 to 4 for the other tones, as desired.

Pitch Edit

Adjust the settings related to the pitch of the sound.

PITCH

- 1.On the SOUND EDIT menu display, select PITCH
- The display looks similar to the following.



- 2. Use the buttons to the left of the display to select a tone (1st, 2nd, 3rd or 4th).
- Use the KEY ∧ and ∨ buttons to specify the output pitch.
- Units are in semitones.
- Use the DETUNE ∧ and ∨ buttons to fine-adjust the pitch.
- Slight differences in the DETUNE values between the tones add fullness to the sound.

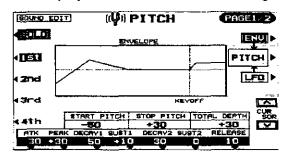
- Use the SCALE ∧ and ∨ buttons to select the type of scale (NORM, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, FIX).
- NORM is the normal scale type. For example, when 1/2 is selected, a difference in pitch between one key and the adjacent key becomes half the normal pitch difference. When FIX is selected, the pitch is the same regardless of which key is played.
- 6. Select the type of scaling (tuning).
- Use the CURSOR ∧ and ∨ buttons to select KEY SCALING. Use the VALUE ∧ and ∨ buttons to change the setting.
- · Key scaling is explained on page 112.
- 7. Set the octave of the sound.
- Use the CURSOR ∧ and ∨ buttons to select OCT-SHIFT. Use the VALUE ∧ and ∨ buttons to change the setting.
- Set the octave of the right part when the keyboard is split.
- Use the CURSOR ∧ and ∨ buttons to select RIGHT SPLIT. Use the VALUE ∧ and ∨ buttons to change the setting.

- Set the octave of the left part when the keyboard is split.
- Use the CURSOR ∧ and ∨ buttons to select LEFT SPLIT. Use the VALUE ∧ and ∨ buttons to change the setting.
- Repeat steps 2 to 9 for the other tones, as desired.

■ ENVELOPE

Specify how the pitch changes over time, from the time the key is played to the time the sound dies out.

- 1. Press the ENV button.
- · The display looks similar to the following.

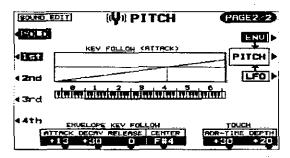


- 2. Use the buttons to the left of the display to select a tone.
- Adjust the settings for the pitch change envelope.
- Use the buttons below the display to set the corresponding values. The envelope is created on the display as you input the settings.
- Use the CURSOR ∧ and ∨ buttons switch between the upper row and lower row items.
- Use the TOTAL DEPTH ∧ and ∨ buttons to specify the maximum level.
- 4. Repeat steps 2 and 3 for the other tones, as desired.

<ENVELOPE KEY FOLLOW>

Specify how the pitch envelope changes in relation to note pitch.

1. Use the PAGE buttons to view the 2/2 display.

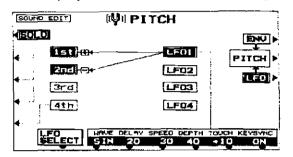


- Use the buttons to the left of the display to select a tone.
- 3. Change the key follow settings for the ATTACK, DECAY and RELEASE.
- Use the ∧ and ∨ buttons corresponding to the ENVELOPE KEY FOLLOW attributes to adjust the settings. Use the CENTER ∧ and ∨ buttons to select the center of the bend direction.
- 4. Change the touch settings.
- Use the ADR-TIME ∧ and ∨ buttons to specify the time change depending on touch. Use the DEPTH ∧ and ∨ buttons to specify the pitch change level depending on touch.
- At a setting, the softer the keys are pressed, the greater the change. At a + setting, the harder the keys are pressed, the greater the change.

■ LFO

Adjust the pitch LFO (cyclic modulation) settings. There are four types of LFO.

- 1. Press the LFO button.
- The display looks similar to the following.



- 2. Use the LFO SELECT ∧ and ∨ buttons to select an LFO (1-4).
- 3. Use the buttons below the display to adjust the settings.

WAVE

Modulate the waveform.

SIN: Sine wave TRI: Triangle wave SQR: Square wave SAW: Saw tooth wave

DELAY

Delay time is the time elapsed from when the keyboard key is pressed until the modulation begins.

SPEED

Modulation speed

DEPTH

Modulation depth

TOUCH

Degree of modulation change in relation to touch.

KEYSYNC

When playing more than one note, specify whether the LFO starts or not each time a key is pressed (ON/OFF).

 When KEYSYNC is set to ON: if, while playing one note, you play a second note, the LFO is applied to the second note as well.

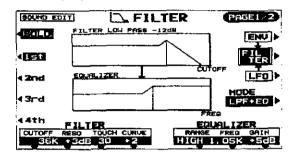
- 4. Use the buttons to the left of the display to specify for each tone whether or not the specified LFO is applied.
- · The LFO can be applied to multiple tones.
- A + indicates that the LFO is on for the tone,
 a indicates that the inverted-phase LFO is applied to the tone.
- Repeat steps 2 to 4 for the other LFO types, as desired.

Filter Edit

Make major changes to the sound by eliminating specific frequency ranges.

FILTER

- 1. On the SOUND EDIT menu, select FILTER.
- · The display looks similar to the following.



- 2. Use the buttons to the left of the display to select a tone.
- 3. Use the MODE button to select the filter mode.

LPF+EQ (low-pass filter + equalizer)
Signals higher than the cut-off frequency are cut. Normal sounds are softened.

HPF+EQ (high-pass filter + equalizer)
Signals lower than the cut-off frequency are cut. Normal sounds are sharpened.

LPF24 (low-pass filter 24)

A stronger low-pass filter than LPF+EQ.

HPF24 (high-pass filter 24)

A stronger high-pass filter than HPF+EQ.

BPF (band-pass filter)

Cuts all signals which are not in the range close to the cut-off frequency. The sound has a distinctive character.

THRU

No filter effect is applied.

4. Use the buttons below the display to adjust the filter attributes.

CUTOFF

Set the frequency range which is cut by the filter.

The cut-off frequency is the standard frequency which is cut by the filter.

RESC

Specify the resonance value (dB).

 Resonance is effect which adds character to the sound by emphasizing the harmonic components of frequencies close to the cut-off frequency.

TOUCH

Specify the degree of change relative to keyboard touch.

CURVE

Specify the type of curve relative to keyboard touch.

<Equalizer>

For LPF+EQ/HPF+EQ filters, the sound quality can be modified by the EQUALIZER.

RANGE

Select the setting range (HIGH or LOW).

FREQ

Set the standard frequency.

GAIN

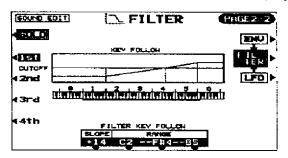
Set the level increase or decrease from the value set for FREQ (dB).

5. Repeat steps 2 to 4 for each tone, as desired.

■ FILTER KEY FOLLOW

Specify how the filter changes in relation to note pitch.

1. Use the PAGE buttons to view the 2/2 display.

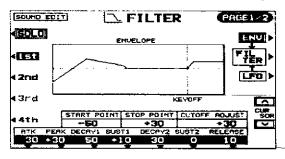


- 2. Use the buttons to the left of the display to select a tone.
- 3. Change the key follow settings.
- Use the SLOPE ∧ and ∨ buttons to adjust the bend slope. Use the RANGE ∧ and ∨ buttons to specify the pitch range by note name. The center setting defines the bend direction.
- Repeat steps 2 and 3 for the other tones, as desired.

■ ENVELOPE

Specify how the filter changes over time, from the time the key is played to the time the sound dies out.

- 1. Press the ENV button.
- · The display looks similar to the following.

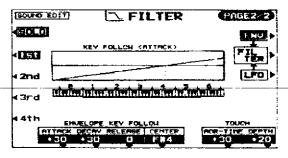


- 2. Use the buttons to the left of the display to select a tone.
- 3. Adjust the settings for the filter envelope.
- Use the buttons below the display to set the corresponding values. The envelope is created on the display as you input the settings.
- Use the CURSOR ∧ and ∨ buttons switch between the upper row and lower row items.
- Use the CUTOFF ADJUST ∧ and ∨ buttons to move the entire graph up or down to change the amount of filter effect.
- Repeat steps 2 and 3 for the other tones, as desired.

<ENVELOPE KEY FOLLOW>

Specify how the filter changes relative to note pitch over time.

 Use the PAGE buttons to view the KEY FOL-LOW display.

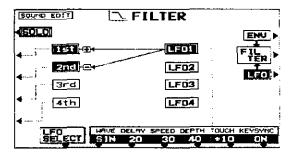


- 2. Use the buttons to the left of the display to select a tone.
- Change the key follow settings for the AT-TACK, DECAY and RELEASE.
- Use the ∧ and ∨ buttons corresponding to the ENVELOPE KEY FOLLOW attributes to adjust the settings. Use the CENTER ∧ and ∨ buttons to select the center of the bend direction.
- 4. Change the touch settings.
- Use the ADR-TIME ∧ and ∨ buttons to specify the time change depending on touch. Use the DEPTH ∧ and ∨ buttons to specify the pitch change level depending on touch.
- At a setting, the softer the keys are pressed, the greater the change. At a + setting, the harder the keys are pressed, the greater the change.

■ LFO

Adjust the LFO (cyclic modulation) settings applied to the filter. There are four types of LFO.

- 1. Press the LFO button.
- · The display looks similar to the following.



- Use the LFO SELECT ∧ and ∨ buttons to select an LFO (1-4).
- 3. Use the buttons below the display to adjust the settings.

WAVE

Modulate the waveform.

SIN: Sine wave TRI: Triangle wave SQR: Square wave SAW: Saw tooth wave

DELAY

Delay time is the time elapsed from when the keyboard key is pressed until the modulation begins.

SPEED

Modulation speed.

DEPTH

Modulation depth.

TOUCH

Degree of modulation change in relation to touch.

KEYSYNC

When playing more than one note, specify whether the LFO starts or not each time a key is pressed (ON/OFF).

 When KEYSYNC is set to ON: if, while playing one note, you play a second note, the LFO is applied to the second note as well.

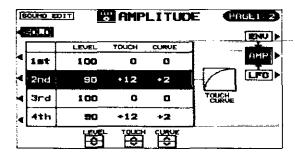
- 4. Use the buttons to the left of the display to specify for each tone whether or not the specified LFO is applied.
- · The LFO can be applied to multiple tones.
- A + indicates that the LFO is on for the tone,
 a indicates that the inverted-phase LFO is applied to the tone.
- Repeat steps 2 to 4 for the other LFO types, as desired.

Amplitude Edit

Adjust the settings related to the volume of the sound.

AMPLITUDE

- 1. On the **SOUND EDIT** menu, select AMPLITUDE.
- The display looks similar to the following.



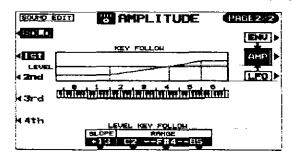
- 2. Use the buttons to the left of the display to select a tone.
- Use the LEVEL ∧ and ∨ buttons to select the volume.
- 4. Use the TOUCH ∧ and ∨ buttons to set the amount of volume change in relation to how hard the keyboard is played.
- At a value, the softer the keyboard is played, the louder the sound. At a + value, the harder the keyboard is played, the louder the sound.

- 5. Use the CURVE ∧ and ∨ buttons to select the type of volume curve depending on touch.
- Repeat steps 2 to 5 for the other tones, as desired.

■ AMPLITUDE KEY FOLLOW

Specify how the volume changes in relation to note pitch.

1. Use the PAGE buttons to view the 2/2 display.

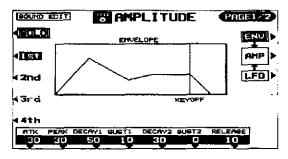


- 2. Use the buttons to the left of the display to select a tone.
- 3. Change the key follow settings.
- Use the SLOPE ∧ and ∨ buttons to adjust the bend slope. Use the RANGE ∧ and ∨ buttons to specify the pitch range by note name. The center setting defines the bend direction.

■ ENVELOPE

Specify how the volume changes over time, from the time the key is played to the time the sound dies out.

- 1. Press the ENV button.
- · The display looks similar to the following.

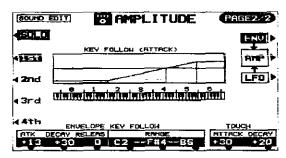


- Use the buttons to the left of the display to select a tone.
- 3. Adjust the settings for the volume envelope.
- Use the buttons below the display to set the corresponding values. The envelope is created on the display as you input the settings.
- Repeat steps 2 and 3 for the other tones, as desired.

<ENVELOPE KEY FOLLOW>

Specify how the volume changes relative to note pitch over time.

1. Use the PAGE buttons to view the 2/2 display.

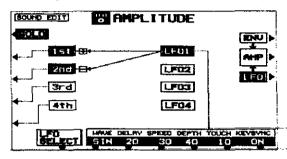


- Use the buttons to the left of the display to select a tone.
- Change the key follow settings for the AT-TACK, DECAY and RELEASE.
- Use the ∧ and ∨ buttons corresponding to the ENVELOPE KEY FOLLOW attributes to adjust the settings. Use the RANGE buttons to specify the keyboard range.
- 4. Change the touch settings.
- Use the ATTACK ∧ and ∨ buttons to specify the ATTACK time change depending on touch.
 Use the DECAY ∧ and ∨ buttons to specify the DECAY time change depending on touch.
- At a setting, the softer the keys are pressed, the greater the change. At a + setting, the harder the keys are pressed, the greater the change.

■ LFO

Adjust the LFO (cyclic modulation) settings applied to the amplitude. There are four types of LFO.

- 1. Press the LFO button.
- The display looks similar to the following.



- Use the buttons to the left of the display to specify for each tone whether or not the specified LFO is applied.
- The LFO can be applied to multiple tones.
- A + indicates that the LFO is on for the tone,
 a indicates that the inverted-phase LFO is applied to the tone.
- Repeat steps 2 to 4 for the other LFO types, as desired.
- 2. Use the LFO SELECT ∧ and ∨ buttons to select an LFO (1-4).
- 3. Use the buttons below the display to adjust the settings.

WAVE

Modulate the waveform.

SIN: Sine wave TRI: Triangle wave SQR: Square wave SAW: Saw tooth wave

DELAY

Delay time is the time elapsed from when the keyboard key is pressed until the modulation begins.

SEEPD

Modulation speed

DEPTH

Modulation depth

TOUCH

Degree of modulation change in relation to touch

KEYSYNC

When playing more than one note, specify whether the LFO starts or not each time a key is pressed (ON/OFF).

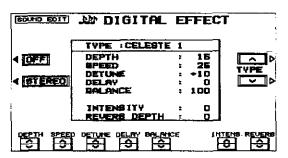
 When KEYSYNC is set to ON: if, while playing one note, you play a second note, the LFO is applied to the second note as well.

Effect Edit

Select the type of effect which is applied to your new sound when the **DIGITAL EFFECT** button is on, and modify the effect.

DIGITAL EFFECT

- 1. On the **SOUND EDIT** menu, select DIGITAL EFFECT.
- · The display looks similar to the following.
- The display for the effect type which is bestsuited for the sound currently being edited is selected.



- 2. Use the TYPE ∧ and ∨ buttons to select the type of effect.
- Select from the following types: CELESTE 1, 2, CHORUS 1, 2, ENSEMBLE 1, 2, TREMOLO, ORGAN TREMOLO, SINGLE DELAY, REPEAT DELAY, SOLO EFFECT 1, 2.

<ON/OFF button>

Specify whether the **DIGITAL EFFECT** button turns on or off when the sound is selected. When set to ON, the **DIGITAL EFFECT** button turns on automatically when the sound is selected. The button alternates between ON and OFF each time it is pressed.

<STEREO/MONO button>

Select stereo (STEREO) or monaural (MONO) output of the effect. The button alternates between STEREO and MONO each time it is pressed.

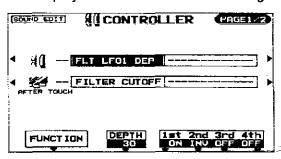
- 3. Use the buttons along the bottom of the display to select the attribute you wish to adjust.
- When the type is changed, the parameters revert to the factory defaults.
- For a detailed explanation of the parameters of each type of effect, refer to the separate "REFERENCE GUIDE" provided.

Controller Edit

Specify how operation of the controllers, such as the wheels, etc., affects the sound.

CONTROLLER

- On the SOUND EDIT menu display, select CONTROLLER.
- The display looks similar to the following.

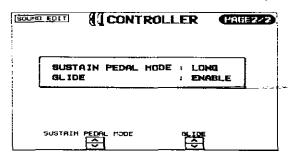


- 4. Use the DEPTH ∧ and ∨ buttons to set the depth of the function applied by the controller.
- Use the 1st, 2nd, 3rd and 4th ∧ and ∨ buttons to set the controller to on or off for each tone.
- When set to INV, the function is inverted for the tone.
- 6. Repeat steps 2 to 5 for the other controllers, as desired.
- Use the buttons to the left and right of the display to select a controller.
- The controllers are in order from the top: MODULATION WHEEL, AFTER TOUCH.
- Two functions can be assigned to each controller.
- Use the FUNCTION button to select a function for the controller.

■ SUSTAIN PEDAL MODE, GLIDE

This setting is for when the sustain function or glide function has been assigned to the foot switch.

1. Use the PAGE buttons to view the 2/2 display.



- 2. Use the SUSTAIN PEDAL MODE A and buttons to select the type of sustain.
 - LONG: The release time of the sound is lengthened.
 - HOLD: The sustain is continuous until the foot switch is released.
- 3. Use the GLIDE ∧ and ∨ buttons to select whether or not the glide effect is active.

ENABLE: The glide effect is enabled.

DISABLE: The glide effect is disabled.

 To assigning a function to the foot switch, refer to page 50.

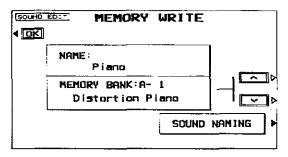
Store the new sound

The **MEMORY A** and **MEMORY B** buttons in the **SOUND GROUP** section are memory banks reserved for the sounds you create with the **SOUND EDIT**. You can store up to 40 original sounds—20 in each bank—then select the sounds just like the other sounds in the **SOUND GROUP**.

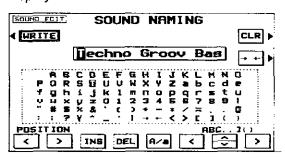
WARNING: Your new sound will be erased if you exit the **SOUND EDIT** mode without first storing it in a memory.

Procedure

- 1. When you have edited the sound to just the way you like it, on the SOUND EDIT menu display, press the WRITE button.
- The display changes to the MEMORY WRITE display.



- To assign a name to your new sound, press the SOUND NAMING button.
- If you do not assign a name to your sound, the name becomes the same as the original sound from which you started. In this case, skip to step 5.
- The display changes to the SOUND NAMING display.



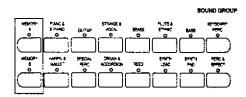
- 3. Type a new name for your sound (up to 16 characters).
- Use the POSITION < and > buttons to high-light the character position in the name box.
 Use the ABC·] { } buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- Use the INS button to type a space.
- Use the DEL button to erase a character.
- Use the A/a button to switch between upper case and lower case characters.
- To erase all the characters, press the CLR button.
- You can press the → ← button if you wish to have the name centered.
- 4. When you have finished typing the name, press the WRITE button.
- The display returns to the MEMORY WRITE display.
- Use the A and V buttons to select the MEMORY number in which to store the new sound
- Select BANK A or BANK B, and number 1 through 20.
- Press the OK button.
- The new sound is stored, and "WRITE COM-PLETED!" is shown on the display.
- . The SOUND EDIT mode is turned off.
- The stored sound memories can be saved on a disk for recall at a later time. (Refer to page 102.)

Select a new sound

You can select your original sound just like the other sounds in the SOUND GROUP.

mailing w.

1. In the SOUND GROUP section, press the MEMORY A or MEMORY B button.



- Select the bank (A/B) in which you stored the sound during the MEMORY WRITE procedure.
- The list of sounds in the selected bank is shown on the display.
- Select the desired sound from the list on the display.

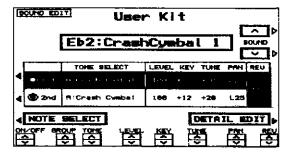
Drum Kit Edit

You can create your original drum kit.

DRUM SOUND EDIT

By editing each percussion instrument sound in the drum kit, you can create your original drum kit.

- From the KEYBOARD PERC sound group, select a drum kit to use as the foundation of your new drum kit.
- Do not select "Orchestral Kit" or "Sound Effect Kit."
- 2. Press the SOUND EDIT button to turn it on.
- The confirmation display appears. Press the YES button.
- · The display looks similar to the following.



- While pressing the key for the percussion instrument sound you wish to edit, press the NOTE SELECT button.
- Use the SOUND ∧ and ∨ buttons to select the percussion instrument sound to assign.
- 5. Use the buttons below the display to select the tone.
- Percussion sounds are composed of two tones (1st and 2nd).
- The name of the currently selected percussion instrument and the note name assigned to it are shown in the upper part of the display.

6. Edit the setting.

ON/OFF: Use the ON/OFF \(\times\) and \(\times\) buttons to specify whether or not the selected tone is output.

TONE SELECT: Use the GROUP ∧ and ∨ buttons and the TONE ∧ and ∨ buttons to change the tone.

LEVEL: Use the LEVEL ∧ and ∨ buttons to adjust the volume.

KEY: Use the KEY ∧ and ∨ buttons to adjust the pitch.

TUNE: Use the TUNE ∧ and ∨ buttons to make fine adjustments to the pitch.

PAN: Use the PAN \wedge and \vee buttons to adjust the stereo balance.

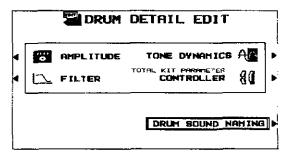
REV: Use the REV ∧ and ∨ buttons to specify the amount of output to the REVERB.

- This setting is effective for both the 1st and 2nd tones in common.
- Repeat steps 3 to 6 for the other keyboard keys.
- Your original drum kit is stored in the USER KIT of the KEYBOARD PERC sounds in the SOUND GROUP.

DRUM DETAIL EDIT

Follow this procedure when you wish to make more precise adjustments to each tone.

- 1. Press the DETAIL EDIT button.
- · The display looks similar to the following.



- 2. Select the item to edit.
- The editing procedure is basically the same as the SOUND EDIT procedure for other sounds.

AMPLITUDE (page 126) FILTER (page 123) TONE DYNAMICS (page 118) CONTROLLER (page 130)

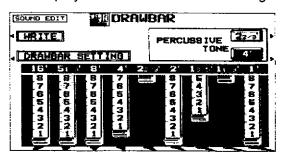
- For drum kits, the number of items that can be edited it limited.
- You can press the DRUM SOUND NAMING button to assign a name to your percussion instrument sound while you are editing it.

Recording Digital Drawbar sounds

You can save your customized drawbar settings.

DIGITAL DRAWBAR EDIT

- 1. Follow the procedure to adjust the **DIGITAL DRAWBAR** sound. (Refer to page 27.)
- 2. Press the SOUND EDIT button to turn it on.
- · The display looks similar to the following.



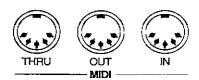
- 3. Press the WRITE button.
- The display changes to the MEMORY WRITE display. Follow the procedure to store the new sound. (Refer to page 131.)

What is MIDI?

MIDI (Musical Instrument Digital Interface) is the international standard for digital communication of electronic musical instrument data. This means that any equipment which has a MIDI terminal—such as electronic musical instruments and personal computers—can easily exchange digital data with other MIDI equipment without resorting to complicated conversions or connections.

MIDI terminals

(On the rear panel)



IN: The terminal by which this instrument receives data from other equipment.

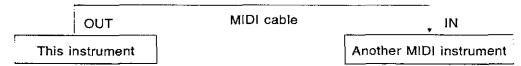
OUT: The terminal that transmits data from this instrument to other equipment.

THRU: The terminal that transfers data from the IN terminal directly.

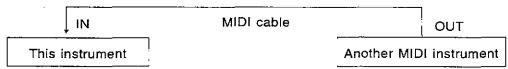
 For these connections, use a commercially available MIDI cable.

Connection examples

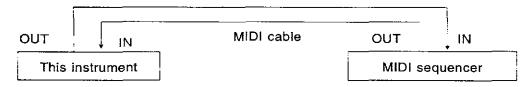
■ To generate sound from a connected instrument by playing this instrument



■ To generate sound from this instrument by operating a connected instrument



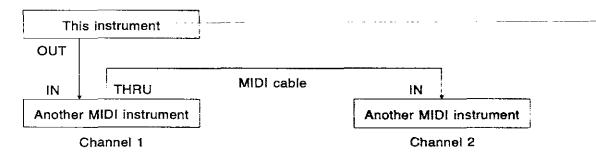
■ To connect with a MIDI sequencer or a personal computer



MIDI channels

Many different kinds of performance data are sent using just one MIDI cable. This is possible because MIDI signals are sent and received through 16 different "basic channels" (numbered 1 to 16). In order for the exchange of data to take

place, the channels on the transmission side must match the channels on the receiving side. This characteristic also makes it possible to link multiple sound generators and to control each by matching specific channels.



The following kinds of data can be transmitted/received.

■ NOTE data

This is the most basic kind of MIDI data which is exchanged, and is used to specify which keys are played and how hard they are played.

NOTE NUMBER: Number specifying which key is played.

NOTE ON: Specifies that a key is played.

NOTE OFF: Specifies that a key is released.

VELOCITY: Specifies how hard a key is struck.

 MIDI notes are assigned numbers from 0 to 127, with middle C (C3) as 60. Note pitches are in semitone increments, with the higher numbers assigned to the higher pitches.

■ PROGRAM CHANGE

This is sound change data. When a different sound is selected on the transmitting instrument, the sound on the receiving instrument also changes.

■ CONTROL CHANGE

These are volume, sustain, effect, etc. data used to enhance performance expression. Each function is distinguished by its control number, and the function which can be changed by the control differs depending on the instrument.

■ EXCLUSIVE data

This is sound data, etc. particular to a specific instrument model. This data can also be transmitted and received by the DUMP function.

 For details, refer to the separate "REFER-ENCE GUIDE" provided.

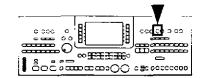
GENERAL MIDI

GENERAL MIDI (GM) is the standard which enables MIDI data exchange between different models or equipment of different manufacture. Program change numbers and their corresponding sounds, percussion instrument sounds, note numbers, etc. are data-compatible between equipment using this standard. Song data created on the equipment of one manufacturer can be played back on the equipment of a different manufacturer, as long as both conform to the GENERAL MIDI standard. This instrument conforms to this standard and can be used as a GENERAL MIDI sound generator.

Equipment which conforms to GENERAL MIDI standards is indicated by the following logo.



Outline of MIDI functions

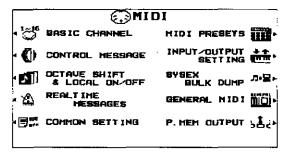


Select the various settings which are used for MIDI operation of this instrument.

1. Press the MIDI button to turn it on.



· The display changes to the following.



- Select the desired menu and follow the procedures on the corresponding setting display.
- During the setting display, you can press the EXIT button to go back to the previous display.
 To show other menus, use the EXIT button to return to the MIDI menu display and make another selection.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- 3. When you have finished setting the functions, press the MIDI button to turn it off.

Summary of the MIDI menu items

BASIC CHANNEL (page 138)
Assign a MIDI channel to each part.

CONTROL MESSAGE (page 138)

Enable or disable the exchange of various control data.

OCTAVE SHIFT & LOCAL ON/OFF (page

Make the OCTAVE and LOCAL CONTROL settings for each part.

REALTIME MESSAGES (page 139)

Make the REALTIME COMMANDS and CLOCK settings.

COMMON SETTING (page 140)

Set the following functions which are common to all parts.

NOTE ONLY PROG. CHANGE TO P. MEM REALTIME SYSEX INTRO, FILL-IN, ENDING APC CONTROL TRANSPOSE
PROGRAM CHANGE MODE
DRUMS TYPE
SONG SELECT
MIDI SETUP LOAD

MIDI PRESETS (page 141)

Optimum MIDI settings according to the connected equipment

INPUT/OUTPUT SETTING (page 141)

Various settings related to transmission and reception of data

SYSEX BULK DUMP (page 142)

Settings related to SYSTEM EXCLUSIVE data exchange

GENERAL MIDI (page 142) General MIDI settings

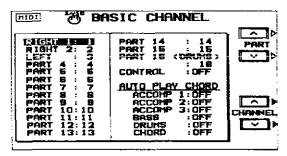
P. MEM OUTPUT (page 143)

Settings related to the transmission data when the PANEL MEMORY buttons are operated.

Setting the functions

BASIC CHANNEL

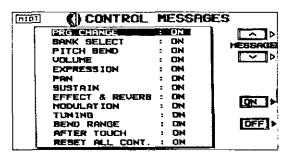
MIDI Basic Channel numbers have already been assigned to parts (default settings) but you can reassign channel number to parts as follows.



- Use the PART ∧ and ∨ buttons to select the part.
- Use the CHANNEL ∧ and ∨ buttons to select a basic channel for the part (OFF, 1 to 16).
- A part which has been set to OFF cannot be used to transmit or receive MIDI data.
- 3. Repeat steps 1 and 2 for each part as desired.
- The illustrated display shows the initialized settings.

CONTROL MESSAGE

Enable or disable the exchange of various control data.

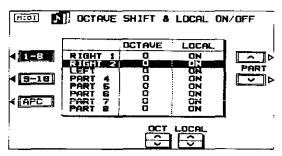


- Use the MESSAGE ∧ and ∨ buttons to select the control message.
- 2. Use the ON and OFF buttons to specify on or off for the control message.
 - ON:Data for the control operation is exchanged.
 - OFF:Data for the control operation is not exchanged.
- The BANK SELECT setting is effective only when PRG. CHANGE is set to ON.
- The EFFECT & REVERB setting controls the DIGITAL EFFECT, DSP EFFECT and DIGI-TAL REVERB on/off.
- The TUNING setting is the on/off setting for the TUNING and KEY SHIFT settings.

3. Repeat steps 1 and 2 for each control as desired.

OCTAVE SHIFT & LOCAL ON/OFF

Set the octave shift value for key notes transmitted from this instrument (OCTAVE), and specify whether this instrument's sound generator is enabled when MIDI data is transmitted (LOCAL CONTROL).



 Use the buttons on the left side of the display to select the corresponding group of the part you wish to set.

1-8: RIGHT 1, RIGHT 2, LEFT, PART 4 to PART 8 group

9-16: PART 9 to PART 16 group

APC: ACCOMP 1 to 3, BASS, DRUMS, CHORD group

2. Use the PART ∧ and ∨ buttons to select the part.

OCTAVE: Use the OCT \wedge and \vee buttons to set the octave shift value (-3 to 3).

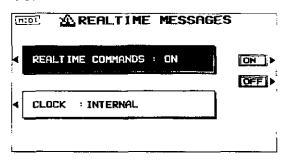
 Octave shift is set for transmitted data only; however the transmitted and received octave shifts are linked. For example, if the transmitted octave shift is set to 1, the received octave shift is automatically set to -1.

LOCAL: Use the LOCAL \wedge and \vee buttons to enable or disable this instrument's sound generator.

- When set to ON, the performance from this instrument is transmitted as MIDI data and also sounds from this instrument. When set to OFF, the performance from this instrument is transmitted as MIDI data but does not sound from this instrument.
- 3. Repeat steps 1 and 2 for each part as desired.

REALTIME MESSAGES

Enable or disable the exchange of **START/STOP** data (REALTIME COMMANDS), and select the CLOCK mode.



- Use the buttons on the left side of the display to select a function.
- 2. Use the ∧ and ∨ buttons, or the ON and OFF buttons, to change the setting.

REALTIME COMMANDS

ON: Rhythm and **SEQUENCER** start/ stop, continue, and song position pointer data can be transmitted/received.

OFF: This data cannot be transmitted/received.

CLOCK

INTERNAL: This instrument's internal clock is used to control the performance. The clock of the connected equipment is disabled.

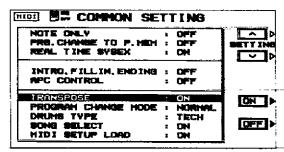
MIDI: The clock of the connected equipment is used to control the performance. This instrument's clock is disabled. (The tempo is displayed as " $_{\bullet} = - - -$.")

- The CLOCK is set to INTERNAL when the power to this instrument is turned on.
- Repeat steps 1 and 2 for the other function if desired.

COMMON SETTING

Set the functions which are common to all parts.

THE PROPERTY OF STREET



 Use SETTING ∧ and ∨ buttons to select the item.

NOTE ONLY: Of the performance data, specify whether or not only note data is exchanged.

PROG. CHANGE TO P. MEM: Enable or disable the exchange of program change numbers for the RIGHT 1 part by operation of the PANEL MEMORY buttons.

 For this setting, the PANEL MEMORY 1 to 8 program change numbers correspond to the bank numbers as follows:

BANK 1 = 0 to 7 **BANK 2** = 8 to 15 **BANK 3** = 16 to 23

REALTIME SYSEX: Specify whether or not MIDI data is exchanged as system exclusive data during the performance.

 For details about REALTIME SYSEX, refer to the pages on MIDI in the separate "REF-ERENCE GUIDE" provided.

INTRO, FILL-IN, ENDING: Enable or disable the exchange of intro, fill-in and ending data.

 Data is exchanged on the channel for the DRUMS part.

APC CONTROL: Enable the exchange of data for the on/off status of the AUTO PLAY CHORD'S ONE FINGER, FINGERED and PIANIST modes.

 Data is exchanged on the channel for the ACCOMP 1 part.

TRANSPOSE

ON: The note number of the transposed note is transmitted/received.

OFF: The note number of the played key is transmitted/received.

PROGRAM CHANGE MODE

NORMAL: The program change numbers are as indicated in the "REFERENCE GUIDE."

TECH: Program change numbers are standardized among all Technics models which are set to this mode. The program change number assigned to a given sound on one model is assigned to the same sound on all models which are set to the same mode.

GM: Program change numbers follow the GM standard.

 The program change numbers for each mode can be found in the separate "REF-ERENCE GUIDE" provided.

DRUM TYPE

NORMAL: Keyboard percussion instrument sounds correspond to this instrument's key note numbers

TECH: Keyboard percussion instrument sounds correspond to the same key note numbers for connect Technics models set to this type.

GM: Keyboard percussion instrument sounds follow the GM standard.

SONG SELECT

ON: Song number data can be exchanged. OFF: Song number data cannot be exchanged.

MIDI SETUP LOAD

ON: When disk data is loaded, the MIDI settings stored on the disk are automatically recalled.

OFF: MIDI settings stored on the disk are not recalled.

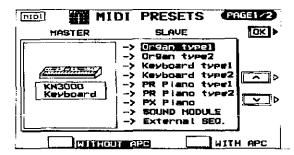
Use A and V buttons or ON and OFF buttons to change the setting.

ON: Data exchange is enabled.OFF: Data exchange is disabled.

Repeat steps 1 and 2 for the other settings as desired.

MIDI PRESETS

Establish the optimum settings depending on how this Keyboard is connected to other equipment, and on whether this Keyboard is used as the master or the slave.

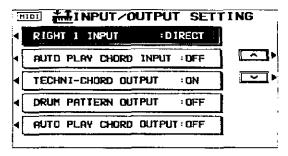


Use the ∧ and ∨ buttons to select the connection setup.

- The PAGE 1/2 display shows connection setups with this instrument as the MASTER.
 And the PAGE 2/2 display shows connection setups with this instrument as the SLAVE.
- The MASTER is the instrument used to transmit data, and the SLAVE is the instrument used to receive the data.
- Use the buttons below the display to select WITHOUT APC (the AUTO PLAY CHORD is not used) or WITH APC (the performance includes AUTO PLAY CHORD).
- 2. Press the OK button.
- When the <u>settings have been successfully</u> stored, "COMPLETED!" appears on the display.
- Detailed information about the MIDI PRESETS can be found in the separate "REFERENCE GUIDE" provided.

INPUT/OUTPUT SETTING

Make the settings which determine how various performance data is treated during data transmission and reception.



 Use the buttons on the left side of the display to select the item.

RIGHT 1 INPUT

CONDUCTOR: When data for the **RIGHT 1** part is received, the **CONDUCTOR** determines which part it is used for.

DIRECT: When data for the RIGHT 1 part is received, it is treated as RIGHT 1 data, and performance data for all parts is received on their respective basic channels.

AUTO PLAY CHORD INPUT

ON: Input data for the ACCOMP 1, 2, 3, BASS, DRUMS and CHORD parts is received

OFF: Data for the above parts is not received.

 Basic channels should be assigned to the above parts before exchanging data.

TECHNI-CHORD OUTPUT

ON: Keyboard notes generated by the TECHNI-CHORD function are also transmitted.

OFF: Only key note data of the pressed keys is transmitted.

DRUM PATTERN OUTPUT

ON: Data from the **DRUMS** part is transmitted.

OFF: Data from the **DRUMS** part is not transmitted.

AUTO PLAY CHORD OUTPUT

ON: The data for the ACCOMP 1, 2, 3, BASS and CHORD parts is transmitted.

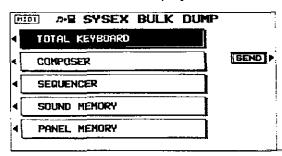
OFF: The data for the above parts is not transmitted.

- Basic channels should be assigned to the above parts before exchanging data.
- Use the ∧ and ∨ buttons, or the ON and OFF buttons, to select the setting.
- 3. Repeat steps 1 and 2 for each item as desired.

SYSEX BULK DUMP

This instrument's internal data such as panel settings, performance data, etc. can be transmitted to and received from another KN3000 or other MIDI equipment with BULK DUMP capability as SYSTEM EXCLUSIVE data.

- Sound is not generated from this instrument during this procedure.
- The operations on this display are executed, even if REALTIME SYSEX is set to off on the COMMON SETTING display.

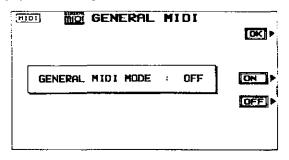


■ Transmitting

- Follow the procedure necessary to prepare the receiving instrument for data reception.
- -2. Use the buttons on the left side of the display to select the type of data to transmit (TOTAL KEYBOARD, COMPOSER, SEQUENCER, SOUND MEMORY or PANEL MEMORY).
- The SEQUENCER data for all 10 songs are transmitted at once. You can decrease the time it takes to transmit by deleting beforehand any songs you do not wish to transmit.
- 3. Press the SEND button.
- During transmission, the transmitting status is shown on the display.
- You can also receive data with this instrument.
 After accessing this display on this keyboard, follow the transmission procedure on the transmission side. During reception, the receiving status is shown on the display.
- If data transmission/reception is unsuccessful, an error message appears on the display. In this case, repeat the procedure from the beginning.

GENERAL MIDI

GENERAL MIDI (GM) is the standard which enables MIDI data exchange between different models or equipment of different manufacture. Program change numbers and their corresponding sounds, percussion instrument sounds, note numbers, etc. are data compatible between equipment using this standard.

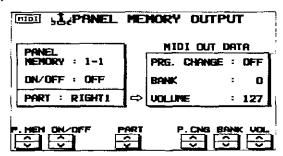


- Use the ON and OFF buttons to specify whether or not this Keyboard should be compatible with GENERAL MIDI standard instruments.
- This setting is automatically set to OFF when the power is turned on.

- If ON is selected, the status of this Keyboard changes to the GENERAL MIDI status, and the sounds and operations which can be selected are limited. In addition, the arrangement of percussion sounds on the keyboard changes. (Refer to the separate "REFER-ENCE GUIDE" provided.)
- If GENERAL MIDI on/off data is received from connected MIDI instrument, the received data has priority.
- This setting is automatically set to ON if disk data other than Technics data is loaded.
- 2. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- If ON was selected, GENERAL MIDI is shown on the normal performance display.
- When this function is executed, the SEQUEN-CER memory is cleared and the panel settings are reset.
- If ON is selected, this setting is automatically set to OFF when the power is turned off, and the SEQUENCER memory is cleared.

PANEL MEMORY OUTPUT

These are settings affect the transmission data when the **PANEL MEMORY** buttons are operated.



- 1. Use the P.MEM ∧ and ∨ buttons to select a **PANEL MEMORY** number.
- Use the ON/OFF A and V buttons to specify whether the data in the selected PANEL MEMORY number is transmitted or not.
- 3. Use the PART ∧ and ∨ buttons to select a part (RIGHT 1, RIGHT 2 or LEFT).
- Use the P.CNG ∧ and ∨ buttons to specify a program change number (0 to 127, or OFF).
- 5. Use the BANK ∧ and ∨ buttons to specify a bank select number (0 to 255).
- Use the VOL ∧ and ∨ buttons to specify the volume (0 to 127, or OFF).
- 7. Repeat steps 3 to 6 for each part, as necessary.
- Repeat steps 1 to 7 for each PANEL MEMORY number, as necessary.

Initialize

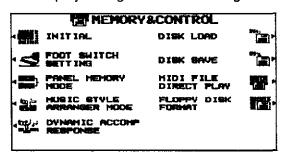
This Keyboard has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

INITIAL

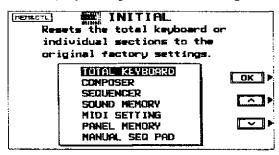
 Press the MEMORY & CONTROL button to turn it on.



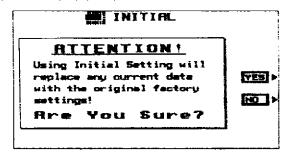
· The display changes to the following.



- 2. Select INITIAL.
- This display changes to the following.



- 3. Use the ∧ and ∨ buttons to select the desired type of initialization (TOTAL KEYBOARD, COMPOSER, SEQUENCER, SOUND MEMORY, MIDI SETTING, PANEL MEMORY or MANUAL SEQ PAD).
- 4. Press the OK button.
- The display changes to the confirmation display. Press the YES button if you wish to execute the initialization. Press the NO button if you wish to cancel the procedure.



- When you press the YES button, initialization begins. When initialization is completed, "COMPLETED!" is shown on the display and the Keyboard returns to the normal performance mode.
- You can also reset all the Keyboard settings with the following procedure: Turn off the POWER button once. Then, while pressing the three lower left buttons in the RHYTHM GROUP section (8 BEAT 2, JAZZ ROCK & SOUL and DANCE POP) at the same time, turn the POWER button on again.
- All the instrument settings may be initialized when the power is turn on, for example, if the effective time of the backup memory has been exceeded.

■ About the backup memory

The panel settings, PANEL MEMORY and MIDI settings etc. are maintained in the backup memory for about one week after the power to this instrument is turned off. Other stored memories, such as the SEQUENCER, COMPOSER and SOUND MEMORY, are maintained for about 80 minutes. If you wish to keep the memory contents, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later time.

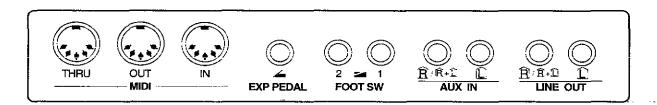
- . The backup memory does not function until the power has been on for about 10 minutes.
- When you quit the operating mode, a warning display may appear to remind you to save the data.

Options and connections

This page shows the optional accessories that are available for your Technics Keyboard. These can make your instrument more versatile and fun to play than it already is. Also indicated are the many possible connections to the rear accessory panel.

Connections

(on the rear panel)



EXP PEDAL

The optional SZ-E2 Expression Pedal (sold separately) can be connected to this terminal to control the volume.

FOOT SW 1, 2

An optional SZ-P1 Foot Switch (sold separately) can be connected to each terminal to control various functions. (Refer to page 50.)

AUX IN (input level 0.5 Vrms, 6 k Ω)

Other instruments such as a sound generator can be connected to this terminal, and the sound will be output from the Keyboard's speakers. To receive monaural sound, connect the other instrument to the R/R+L terminal. (Do not connect the L terminal.)

LINE OUT (output level 1.5 Vrms, 600 Ω) By connecting an external high-power amplifier, the sound can be reproduced at a high volume.

To output monaural sound, connect the external equipment to the R/R+L terminal. (Do not connect the L terminal.)

MIDI

These terminals are for connection to another MIDI instrument. (Refer to page 135.)

Separately sold options



SZ-E2 Expression Pedal



SZ-P1 Foot Switch



SY-HD1 Hard Disk Drive

Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics Keyboard but do not indicate trouble.

	Phenomenon	Remedy						
	The buttons, keys, etc. malfunction.	• Turn off the POWER button once, then turn it on again. If this procedure is not successful, turn off the POWER button once. Then, while pressing the three lower left buttons in the RHYTHM GROUP section (8 BEAT 2, JAZZ ROCK & SOUL and DANCE POP) at the same time, turn the POWER button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.)						
Sounds and effects	No sound is produced when the keys are pressed.	 The MAIN VOLUME is at the minimum setting. Adjust the volume with the MAIN VOLUME control. The volumes for the selected parts are set to the minimum levels. Use the balance buttons to set the volumes of the relevant parts to appropriate levels. (Refer to page 21.) The part is muted. (Refer to page 21.) The local control for a part performed on the keyboard is set to OFF. Set the local control to ON. (Refer to page 139.) 						
os	when the keyboard is played. The volume is very low when the keyboard is	 In the SOUND GROUP section, the KEYBOARD PERC button is on. The volume setting in the SEQUENCER contents is 						
	played.	very low. Follow the INITIAL procedure to reset the settings. (Refer to page 144.)						
	Some sounds cannot be selected.	 When the GENERAL MIDI status is set to on, The sounds which can be selected and operation which can be executed are limited. Turn the GENERAL MIDI status off to return the instrument to its normal operation. (Refer to page 142.) 						
	The sound you hear is different from the sound you selected.	 This sometimes occurs when you play back SEQUENCER or COMPOSER data which was created on a different model, or when MIDI data is received from a connected instrument. Select the desired sounds again. 						
	The rhythm does not start.	 The DRUMS volume is set to the minimum level. Use the balance buttons to set the DRUMS volume to an appropriate level. In the RHYTHM GROUP section, a rhythm in 						
Rhythm		 MEMORY with no stored pattern was selected. Select a different rhythm. A SEQUENCER PLAY button is on. When you are not playing back the SEQUENCER performance, turn off the SEQUENCER PLAY button. 						
		 CLOCK is set to MIDI. Set CLOCK to INTERNAL (Refer to page 139.) The rhythm does not work when the GENERAL MID mode is set to ON. Turn the GENERAL MIDI status off to return the instrument to its normal operation (Refer to page 142.) 						

	Phenomenon	Remedy
СНОВО	No sound is produced for the automatic accompaniment.	• In the RHYTHM GROUP section, a rhythm in MEMORY with no stored pattern was selected. Select a different rhythm.
AUTO PLAY CHORD	No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced.	An ACCOMP part does not sound if its corresponding volume is set to the minimum level. Use the respective balance buttons to set the ACCOMP 1, 2 and 3 volumes to appropriate levels.
	Storage is not possible.	The remaining memory capacity of the SEQUENCER is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory. (Refer to page 72.)
SEQUENCER	Multi-track storage is not possible.	• The playback track has been selected, but the START/STOP button has not been pressed. A flashing track indicator shows the track which is ready for recording, and a lit track indicator shows a track which is ready for playback. To record one track while listening to another (playback) track, press the START/STOP button to begin playback.
SE	The playback measure indication is different from when the performance was recorded.	• The number of measures corresponds to the time signature of the rhythm selected at the start of recording. To change the rhythm in the middle of the song, record the rhythm change in the RHYTHM part. (Refer to page 64.)
	Storage is not possible.	• The remaining memory capacity of the COMPOSER is 0.
COMPOSER	Setting the time signature and number of measures is not possible.	The time signature and number of measures cannot be changed for a pattern which is currently recorded in the COMPOSER. If you wish to change the time signature and/or measure data, first follow the procedure to clear the memory. (Refer to page 85.)
8	The playback timing of the rhythm pattern is different from the timing with which it was recorded.	The QUANTIZE function was on when the pattern was recorded and the timing was automatically corrected. Set the quantize level to a smaller note unit or to OFF when recording. (Refer to page 89.)
_	The Disk Drive produces a noise during recording or playback.	This occurs when the Disk Drive is reading a disk. It does not indicate a problem.
Disk Drive	When the procedure to load from a disk is performed, the contents of the keyboard memory are erased.	When performing the load operation from a disk, the keyboard memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in the keyboard memory, save it on a disk before performing the load procedure. (Refer to page 102.)
Other	Noise from a radio or TV can be heard.	This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument. The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center.
	The cabinet becomes warm during use.	This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.

Error messages

No.	Contents
00	The data on the disk that you are using is for a different product.
01	An error has occurred while the disk was loading. Please try again!
02	There is no disk in the Disk Drive.
03	The file that you tried to load is empty.
05	An error has occurred while the disk was saving. Please try again!
06	The disk that you are using is write protected. Please remove the write protection and try again.
07	The disk that you are using is full. Please use another disk.
08	An error has occurred while the disk was formatting. The disk that you are using may be faulty. Please try formatting another disk.
10	The data is already copy protected.
20	A problem has occurred with your SEQUENCER Data. This might be due to a damaged or faulty disk.
21	Memory full
22	It is necessary to press PUNCH OUT to complete this procedure.
23	It is impossible to change the time signature because it has already been set in the existing tracks.
24	A rhythm track already exists. It is impossible to assign two tracks to rhythm.
25	It is only possible to change the velocity on a melody track.
26	It is only possible to merge melody tracks. Tracks such as rhythm, chord and control cannot be merged.
27	It is only possible to copy melody tracks. Tracks such as rhythm, chord and control cannot be copied.
28	This song is too long to be saved as a MIDI file.
29	The MIDI file that you have tried to load exceeds the memory capacity of the KN3000 and cannot be played. The SEQUENCER memory has been cleared.
30	It is not possible to change the time signature or measure length of a COMPOSER pattern after it has been recorded. If you want to proceed, you must first clear the entire COMPOSER pattern.

No.	Contents
31	The time signature of the pattern from which you are copying is different from the COMPOSER memory that you are using. Either: Change the time signature of the COMPOSER memory or: Copy from a pattern that has the same time signature
32	Memory full
40	The Identification (ID) code of the system exclusive data received by the KN3000 is for a different product.
41	An error has occurred during system exclusive data reception. The data from the transmitting device may be incomplete. Please try again.
42	An error has occurred during system exclusive transmission. The data has not been received correctly. Please try again.
43	The file that you are trying to load was saved on a previous KN keyboard. It is only possible to load using the "ALL" option.
47	Please select a preset pattern.
54	Please select a USER bank (13 to 15).
55	Special tracks such as CHORD (APC), RHY and CTL exist in the song from which you are copying and are incompatible with the destination song because it is in the GM mode.
56	AUTO PUNCH recording has been unsuccessful because SEQUENCER operation was interrupted before the PUNCH OUT measure was reached.
57	The COMPOSER pattern you have chosen has a different time signature or number of measures from the other patterns in this COMPOSER CHORD MAP. All of the COMPOSER patterns used in a COMPOSER CHORD MAP must have the same time signature and number of measures.
58	The song that you have tried to load exceeds the KN3000's available memory and cannot be loaded. The selected song memory has been cleared. Please clear existing songs in the instrument's memory using SONG CLEAR to make more memory available, and try again.

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VARIATION	
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Specifications

	9X-KN3000
KEYBOARD	61 KEYS (WITH INITIAL/AFTER TOUCH)
SOUND GENERATOR	PCM
MAXIMUM NUMBER OF NOTES PRODUCED SIMULTANEOUSLY	64 NOTES
SOUNDS	260 SOUNDS + 16 DRUM KITS (KEYBOARD PERC) GROUP: PIANO & E PIANO, HARPSI & MALLET, GUITAR, SPECIAL PERC, STRINGS & VOCAL, ORGAN & ACCORDION, BRASS, REED, FLUTE & ETHNIC, SYNTH LEAD, BASS, SYNTH PAD, KEYBOARD PERC, PERC & EFFECT DIGITAL DRAWBAR (16', 5-1/3', 8', 4', 2-2/3', 2', 1-3/5', 1-1/3', 1')
EFFECTS	DIGITAL EFFECT, DSP EFFECT, SUSTAIN, DIGITAL REVERB
PART SELECT	RIGHT 1, RIGHT 2, LEFT
TRANSPOSE	G-C-F ²
пнутнм	100 RHYTHMS×4 VARIATIONS. GROUP: 8 BEAT 1, 8 BEAT 2, 16 BEAT, JAZZ ROCK & SOUL, FUNK & LATIN ROCK, DANCE POP, BIG BAND & SWING, ROCK (OTHERS), JAZZ COMBÖ, U.S. TRAD, MARCH & WALTZ, TRAD & SHOW TIME, LATIN 1, LATIN 2
CONTROLS	MAIN VOLUME, BALANCE, MUTE, CONDUCTOR, START/STOP, INTRO & ENDING 1, INTRO & ENDING 2, FILL IN 1, FILL IN 2, COUNT INTRO, SYNCHRO & BREAK, TEMPO/PROGRAM, TAP TEMPO, SPLIT POINT
MANUAL SEQUENCE PADS	15 BANKS × 3 (MEMORY: 3 BANKS × 3, STORAGE CAPACITY: APPROX. 1200 NOTES) RECORD/STOP
AUTO PLAY CHORD	ONE FINGER, FINGERED, PIANIST, MEMORY, ON BASS, DYNAMIC ACCOMP, MUSIC STYLE ARRANGER, SOUND ARRANGER
ONE TOUCH PLAY	O (ONE TOUCH PLAY/MUSIC STYLE SELECT)
TECHNI-CHORD	0
PANEL MEMORY	3 BANKS × 8, SET
SEQUENCER	16 TRACKS RESOLUTION: 96 PULSES PER QUARTER-NOTE STORAGE CAPACITY: APPROX. 40000 NOTES (10 SONGS MAX.) INPUT MODES: EASY RECORD, REALTIME RECORD, STEP RECORD FUNCTIONS: TRACK ASSIGN, EDIT, PUNCH RECORD, SONG SELECT/NAME, MEDLEY, AFTER TOUCH SET
COMPOSER	5 PARTS: BASS, ACCOMP 1, ACCOMP 2, ACCOMP 3, DRUMS STORAGE CAPACITY: APPROX. 10000 NOTES INPUT MODES: EASY COMPOSER, REALTIME RECORD, STEP RECORD FUNCTIONS: COMPOSER CHORD MAP, MODE SELECT, COPY, LOAD SINGLE COMPOSER PATTERN, BEND RANGE, SEQ TO COMP COPY, COMPOSER LOAD MEMORY: 3 BANKS × 10 (VARIATION 1-4, INTRO 1, 2, FILL IN 1, 2, ENDING 1, 2)
MEMORY & CONTROL	INITIAL, DISK LOAD, DISK SAVE, MIDI FILE DIRECT PLAY, FOOT SWITCH SETTING, FLOPPY DISK FORMAT, PANEL MEMORY MODE, MUSIC STYLE ARRANGER MODE, DYNAMIC ACCOMP RESPONSE
SOUND SETTING	PART SETTING (VOLUME, SUSTAIN, EFFECT, PAN, KEY SHIFT, TUNING, PITCH BEND RANGE, OTHERS), MIXER, OVERALL TOUCH SENSITIVITY, MASTER TUNING, TECHNI-CHORD TYPE, LEFT HOLD, REVERB SETTING, DSP EFFECT, KEY SCALING
SOUND EDIT	EASY EDIT, TONE SELECT, TONE LAYER, PITCH, FILTER, AMPLITUDE, DIGITAL EFFECT, CONTROLLER MEMORY: 2 BANKS × 20
MIDI	BASIC CHANNEL, CONTROL MESSAGE, OCTAVE SHIFT & LOCAL ON/OFF, REALTIME MESSAGES, COMMON SETTING, P.MEM OUTPUT, MIDI PRESETS, INPUT/OUTPUT SETTING, SYSEX BULK DUMP, GENERAL MIDI

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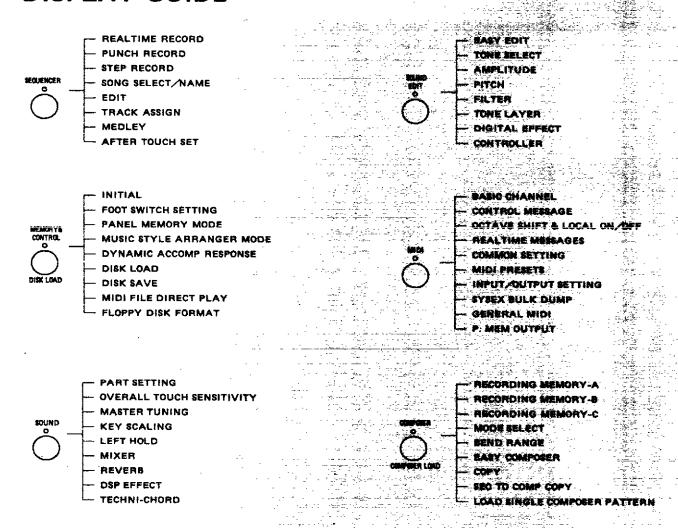
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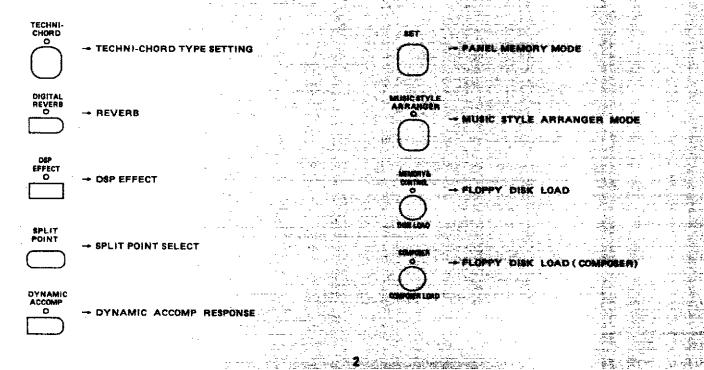
KN3000 REFERENCE GUIDE

	
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DISPLAY GUIDE



EASY SETTING (Press and hold)



MIDI Program change data											
Tomal		GML	Sound	Non		Techi	- 17 ₋₁ 67	GM.			
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The second secon	0 32		Vibraphone Marimba	1	ļ	<u></u>	0	12			
E Piano 1				1	5	10	0	13			
	5 0 4 32	5	Xylophone Steel Drum	'	6 7	11	0	14			
Modern E.P. I. 1988	1 1 .		- W		4	15	0	115	renar i dupemente te		
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AN CALLER FOR A CA	20		Cembalo	1	10	18	0				
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	3 32	2	Vibes & Jazz Guitar	1	12	8	64				
7. Mill Gand 2	V 54		Power Steel Drum	1	13	15	16				
	11. 26	6	Tubular Bells		14	1.4	0	15	<u> </u>		
- : · · · · · · · · · · · · · · · · · ·	5 32		Wind Chime	11	15	14	16				
— напо 1 9 [16]	4 64		Tinkle Bell	1	16	14	32	113			
	4 80		African Mallet	1	17	113	0		.4		
	6 48		Caribbean Mallet	1	18	11	16				
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	22 _0	26	Banjo	2_	2	33	o	106	- 26 . POLZ: 5		
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Entert Solid Gtr 1 10 4 1	.26 0	28	Harp	2	4	32	ol	47	7.		
	Z6 16	1	Orchestra Hit 1	2	5	127	16	56			
	29 0	29	Timpani	2	6	126	o	48			
To 7	30 0	31.	Koto	2	7	37	0	108			
	27 32	30	Kalimba	2	8	39	0	109			
I IU.I. 9	31 16		Metal Kalimba	2	9	39	16	Ī			
10 10	21 _0	25	Orchestra Hit 2	2	10	127	32				
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SOUND

***************************************	MID	i Progr	am ch	ange (iata		MIDI Program change data							
Sound	Normal Technics GM				GM	Sound	Normal Technics				GM			
	No.	Bank	Data	Bank			No.	Bank	Dets	Bank				
STRING	SS &	VOC	AL		:	ORGAN 8	& ACCORDION							
Symphonic Strings	11	0	100	48		Jazz Organ	3	0	88	Ó	18			
Classical Strings	11	1	100	0	49	Full Drawbars	3	1	89	O	17			
Slow Strings	11	2	101	0	50	Jazz Drawbars	3	2	93	Ó				
Pizzicato Str.	11	3	99	0	46	16'&1'	3	3	91	0				
Synth Strings 1	11	4	103	0	51	Pop Organ 1	3	4.	90	0				
Violin	11	5	96	0	41	Pipe Organ 1	3	5	84	D	20			
Cello	11	6	97	0	43	Theatre Organ 1	3	6	87	32				
Vocal Ah	11	7	104	48	53	Bright Accordion	3	7	80	0	22			
Vocal Ooh	11	8	104	32		Mellow Accordion	3	- 8	81	0				
Vocal Doo	11	9	109	0	54	Musette	3	9	52	0				
Marcato Strings	11	10	100	64		Mellow Drawbars	3	10	91	32				
Octave Strings	11	11	102	0		Pop Organ 2	3	11	89	32				
Bass Strings	11	12	98	16		Rock Organ	3	12	92	32	19			
Tremolo Strings	11	13	100	32	45	Organ Bass	.3	13	94	16				
Synth Strings 2	11	14	103	16	52	Pipe Organ 2	3	14	85	0				
Jazz Violin	11	15	96	16	- 11 C	Theatre Organ 2	3	15	87	48				
Fiddle	11	16	96	32	111	Theatre Organ 3	3	16	87	64				
Viola	11	17	97	32	42	Theatre Organ 4	3	17	87	80				
Bowed Bass	11	18	98	0	44	Harmonium	3	18	86	32	21			
Humming	11	19	105	0		Bandoneon	3	19	80	16	24			
	SRAS	S					REEL)						
Brass	12	0	56	0	62	Soprano Sax	4	0	76	O	65			
Brass & Synth	12	1	56	48		Alto Sax	4	1	77	0	66			
Trumpet 1	12	2	48	0	57	Mellow Alto Sex	4	2	77	16				
Harmon Mute Tpt	12	3	50	0	60	Tenor Sax	4	3	78	48	67			
Flugel Horn	12	4	51	0		Breathy Tenor	4	4	78	16				
Bright Trombone	12	5	52	0	58	Baritone Sax	4	5	79	16	68			
Cup Mute Trombone	12	6	52	48		Jazz Clarinet 1	4	6	68	Ô	72			
Closed Fr. Horn	12	7	54	0	25-11 1 5- 21 1	Oboe	3 4	7	66	0	69			
Open Fr. Horn	12	8	54	16	61	Hermonica	er ∮ €.	8	89	0				
Synth Brass 1	12	9	60	0	63	Blues Harmonica	4	9	83	16	23			
Octave Brass	12	10	56	16		Rock Tenor Sax		10	79	O				
Mute Brass Ens.	12	11	56	32	4	Distortion Sax	. 	11	70	32				
Trumpet 2	12	12	48	64	13 . 1 20 . 10	Synth Sax		12	73	48				
Orchest. Trumpet	12	13	48	32		Jazz Clarinat 2	7 E	13	68	32				
Straight Mute Tpt	12	14	50	16		Helew Clina.		14	68	16				
Cornet	12	15	49	16		Claus Carber		15	69	0				
Mellow Trombone	12	16	53	0		Bass Clarinet		16	69	16				
Orchestral Tuba	12	17	55	0	59	English Hom	4	17	67	ø	70			
Marching Tuba	12	18	55	16		Bassoon	4	18	70	0	71			
Synth Brass 2	12	19	63	48		Bagpipe	4	19	73	0	110			

Program change number = Program change data + 1 / Bank number = Bank data + 1

MIDI Program change data												
The second of th	7 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3					Cound					GM	
	= ಚಲ್⊤ಟಕ	. 17 d 1	Ĭ.	****	GM	Sound		1	Techr	·	GI-1	
	& E	THN	IC	Bank	1-34 TeX	SYN	I No. TH L		Data	Вапк	·······································	
一	L 15 I	[()	64	0	73	Square Lead	5	0	117	이	81	
FERENCE OF THE STATE OF THE STA	13	[= <u></u>]	65		74	Saw Lead	5	1	118	16	82	= = .
	13"	2	65	16	· j	Sine Lead	5	2	94	o	i	
z Flute	13	3	64	16		Air Vox	5	3	106	16	86	=: = mark
	13	4	72	o	76	Chiffer Lead	5	4	117	32	84	
The second contraction of the second of the	13	5	74	ol	75	Charang	5	5	27	48	85	
Seconder			74	76		Metallica Solo	5	6	115	96		: :
	£.13 /		L 1111	01		Talking Lead	5	7	117	80		
	13		75		78	Digi Stack	5	8	116	96		
	1-15.	•	75	16		80's Solo	5	9	121	80		
 	13		64	48		Steamy Keys	5	10	106	80		
	13	} 	72	16	"	Olymp Synth]	11	60	64		
Bottle	[[3]	1 2	72	32	77	Voco Synth	5 5	12	118	32		
	-13	13	73	32		5th Wave	5	13	119	0	87	
上班上的基本的。 	DATE OF THE RESERVE	14	<u> </u>	16	112		5	14	46	32	88	
	e e e e e e		73	10000	112		•	1			00	
HIT KECOFGEF	13	15	74	32	 cc	Sleigh Synth	5	15	61	64 80		
Pnock Whistle		16	72	48	83	Talking Synth	5	16	60			
	13	17	112	48		Synth Harp	5 -	17	32	64		१ - १७७ - च.च्युक्त <i>रास्त्र</i> स्टब्स्ट
HistV Flute	[13.]	18	75	64		Afro Dance	5	18	11	80		
= **** Flutter Flute	13	, , <u>, , ,</u> ,	75	80		Digi Bells	5	19	14	96	Del 38 65-18	
: ::= <u></u>						and the succession of the second seco		PAD		: :iranez		
R. PASS	J4.	0	43	0	33	Mellow Ensemble	6	0	107	16	90	
PARTY AC RASS	14	1	43	16		Warm Synth Pad	6	1	62	80		
Eactric Bass	14	2	40	0		Synth Vocal	6	2	107	이	55	· · · · · · · · · · · · · · · · · · ·
	14	3	40	76	34	Spacy Pad	6	3	107	32	92	· · · · · · · · · · · · · · · · · · ·
FURVE Bass	14	4	40	48		Metal Pad	6	4	106		94	
	3.44	5	40	32	36	Star Theme	.6.	5	120	16	104	
Pirker F Rese	14	6	42		35	Bowed Glass	6	6	120		93	
Picker L Bass	14	7	41	_ 0	37	Atmosphere	6	7	21	48	100	
-าลเบบ ซิสรร	14	8	46	16		Fantasia	6	8	116	48	89	
mane Tourier 22	14	9	46	0	39	Bell Pad	6	9	116	32		
Fision F. Bass	14	10	40	64		Dream	.6.	10	108	32		
mule Bass	14	11	. 47	0		Mist	6	11	108	48	101	
Hass Z	14	12	41	16	38	Sweep Pad	6	12	62	32	96	
Bass	14	13	42	16		Halo Pad	6	13	107	48	95	
Bass Synth Chopper	14	14	45		40	Echo Drops	6	14	106	48	103	
ous 2000 and	14	15	46	64	- 1	Polysynth	6	15	102	32	91	<u> </u>
ZZRH MILLE	14	16	47	48		Mellow Synth Brass	6	16	62	64	64	
228H #8155	14	17	47	32	į	Voxmosphere	6	17	61	96		
HASS MARKET WAS ASSESSED.	14	18	46	80		Wide Window	6	18	61	112		
BACKET SELECTION OF THE	14	1.75	46	96		Dark Universe	6	19	106	64		<u> </u>
		ليتنيا	التنسيا	<u>-5</u> 1	<u> </u>	- Land Contract	ينا	<u> </u>		<u></u> 1		<u> </u>

SOUND

	MID	Progr	am ch	ange o	iata	77 - 272	MID	Progr	am chi	nge (iata
Sound	Nori	mai	Techi	nics	GM	Sound	Norn		Tech	ycs :	GM
	No.	Bank	Deta	Bank			10	Sark	Dete	Berik	
KEYBO	ARE	PER	(C					FEC			
Jazz Kit	15	0	113	128		Agogo	7	0	122	0	114
Brush Kit	15	1	117	128		Wood Block	7	1	122	16	116
Trad Kit	15	2	118	128		Taiko Drum	7	2 ·	123	48	117
Standard Kit	15	3	112	128	GM	Meladic Tom	1	. 3	122	32	118
Room Kit	15	4	115	128					124	D	119
Light Rock Kit	15	5	126	128		Reverse Cymbal	营港	5	122	40	120
Power Kit	15	6	119	128				. 5			97.
Funk Kit	15	7	120	128		Soundrack	7	7	119	1	99
Soul Kit	15	8	121	128	7	Goblins	7	8	106	0	102
Electric Kit	15	9	114	128		Windy Sweep	7	9	106	96	
Dance Kit	15	10	122	128	,	Sleigh Bell	7	10	125	0	
House Kit	15	11	123	128		Talking Drum	1	11	123	64	
Synth Kit	15	12	116	128		Fret Noise	7	12	124	16	121
Orchestral Kit	15	13	124	128		Breath Noise	7	13	124	32	122
Sound Effect Kit	15	14	125	128		Seashore	7	14	124	48	123
					5. je	Bird Tweet	-7	15	125	32	124
User Kit	15	15	112	224		Telephone	7	16	123	0	125
			-		-	Helicopter	7	17	123	16	126
						Applause	7	18	125	48	127
						Gun Shot	7	19	123	32	128
ME	MOR	ΥA				ME	MOR	ΥB	F	# 	
MEMORY A - 1	8	0	0	128		MEMORY B - 1	0	0	20	128	
MEMORY A - 2	8	1	1	128		MEMORY B - 2	0	1	21	128	
MEMORY A - 3	8	2	2	128		MEMORY-B - 3	0	2	22	128	
MEMORY A - 4	8	3	3	128		MEMORY 8 - 4	0	3	23	128	
MEMORY A - 5	8	4	4	128		MEMORY 8 - 5	0	4	24	128	
MEMORY A - 6	8	5	5	128	77. : T	MEMORY B - 6	0	5	25	128	
MEMORY A - 7	8	6	6	128) - 1 1 1 - 4	MEMORY B - 7	0	- 6	26	128	
MEMORY A - 8	8	7	7	128		MEMORY B - 8	ð	7	27	128	9 de
MEMORY A - 9	8	8	8	128		MEMORY B - 9	O	8	28	128	
MEMORY A - 10	8	9	9	128		MEMORY B - 10	0	9	29	128	
MEMORY A - 11	8	10	10	128		MEMORY B - 11	0	10	30	128	
MEMORY A - 12	8	11	11	128		MEMORY B-12	٥	11	31	128	
MEMORY A - 13	8	12	12	128		MEMORY B - 13	0	12	32	128	78 - 1) 5 - 2
MEMORY A - 14	8	.13	13	128		MEMORY 8 - 14	0	13	33	128	
MEMORY A - 15	8	14	14	128		MEMORY 8-15	0	14	34	128	ा पर्
MEMORY A - 16	8	15	15	128		MEMORY B-16	0	15	35	128	
MEMORY A - 17	8	16	16	128		MEMORY B-17	0	-16	36	126	134 4
MEMORY A - 18	8	17	17	128		MEMORY 8-18	0	17	37	126	
MEMORY A - 19	8	18	1.8	128		MEMORY 8-19	-0	18	38	128	
MEMORY A - 20	8	19	19	128		MEMORY B - 20	0	19	39	128	

Program change number = Program change data + 1 / Bank number = Bank data + 1

			WARAU
	CONTRACTOR OF THE REPORT OF THE PROPERTY OF TH	CHANGE	
	" BANCE	POP	
	Disco	7 (0)	124 (80)
- PERL HOUR X LII I EX TRU	U U Disco Z	2 (1)	123 (64) I
· · · · · · · · · · · · · · · · · · ·) [Rap	2 (2)	127 (96)
	THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON OF THE PERSON OF TH	2 (3)	127 (80)
CAN I I I I I I I I I I I I I I I I I I I		7 (4)	124 (96)
	Color and the second of the se	to an an inquire trabagilla Carre	126 (32)
	The second secon	e la composition de la composi	arianale da mariane en el maria
	CONTRACTOR OF THE PROPERTY OF	interimental de la constitución de	125 (48) i
		CTAPAGE SYNTEM	
第2章を受けられる。 第2章を受けられる。 第2章を持ちませる。 第2章をより、 第2をより、 第2をよ	TOTAL AND	& SWING	
a and the second	Y F Big Bend 1	10 (0)	36 (64)
n SOU 7		10 (1)	38 (80)
(2)	A Sand Ballad	10 (2)	-7 -65-1-5 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
NOCK - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		E	39 (32)
	- 10 C T D T 444 (A T D T D T D T D T D T D T D T D T D T	10 (3)	25 (32)
		10 (4)	37 (32) 48 (49)
AMERICAN DEPONDS OFFICE STREET, STREET, on the latter STREET, and the street,	1 de lass Weltz	10 (5)	AR (AO)
1986 (64)			
FAT	i bock (6)	HEAST	
	· · · Smuttle H&H 1	1 (a) L	78 (112) ii
		3 (1) I	78 7185
2 (2)		3 (2)	76 (0)
700 10 10 10 10 10 10 10 10 10 10 10 10 1	(3 (3)	
		2 (4)	74 (90)
			K
A DECEMBER OF THE PROPERTY OF	Slow Soul Bellad	3 (5)	75 (32)
and Fill Silad	· II	CT	72 (64)
	Salar Shuffle Belled	3 (7)	70 (25)
======================================	i i A77 (v	OM RO	
(95)) Jazz Combo	11 (0)	34 (80)
The second secon	and the second s		34 (84)
		INUT	32 (64)
The second continuous and continuous		1 11 (3)	44 (16)
The second secon			
			40 (80)
Hallett (a) in (a)		11 (5)	38 (98)
	まず 実施	1 17 (R) <u>[</u>	7A (GR)
- I IN BOCK	11 6 ΤΙ	RAD	II .
and the second s	∑	4 (0)	17 (112)
		4 (1)	17 (80)
	T. II	4 (2)	20 (40)
FOOK (3) 11/ (16)		The state of the second second	mana a a sa a sa a sa a sa a sa a sa a s
	4-2	4 (3)	22 (16)
Page 1985 Company (Company)	The second of th	1 4 (4) 1	123 (80)
		A. (5)	75. (64)
	Shuffle	[(A) [. 77. (84) I

entropy of the property of the

RHYTHM

RHYTHM		ROGRAM DE DATA	RHYTHM		PROGRAM IGE DATA	
	NORM TECH			NORM	TECH	
MARCH	& WALTZ		LATI	Ni	٠.	
U.S.March 2/4	12 (0)	0 (88)	Rhumbe	13 (6)	58 (64)	
GermanMrch 2/4	12 (1)	1 (48)	Beguine	13 (1)	59 (32)	
U.S.March 6/8	12 (2)	2 (16)	Che Che	13 (2)	57 (48	
Pop March	12 (3)	4 (84)	Mambe	13 (3)	56 (32	
Polke 2/4	12 (4)	4 (32)	Swingy Reggae	13 (4)	71 (32	
Stand. Waitz	12 (5)	8 (90)	Modern Reggee	13 (6)	71 (48	
Vienna Waltz	12 (8)	9 (32)	Transfer Carrier as a section and the section of the section section is a section of the section	5.90 g/s	erika seria e seria e seria e periodo e seria e periodo e seria e seri	
Chanson Waltz	12 (7)	11 (32)	 Specified and the control of the contr			
Swingy Waltz	12 (8)	12 (16)				
Polke 6/8	12 (9)	5 (32)				
TRAD & S	HOWTIME			N 2		
Foxtrot	5 (0)	29 (96)-	Bosseyous 1	8 (0)	- 48 (112	
Chenson Fox.	5 (1)	29 (84)	Bossenove 2	6 (9)	48 (94	
Jive	5 (2)	29 (0)	Samba	6 (2)	. 51 (M	
Quickstep	5 (3)	28 (16)	Tengo Argent.	6 (3)	53 (4	
Soft shoe	5 (4)	24 (80)	Tango Contl.	6 (4)	53 (64	
Broadway Show	5 (5)	16 (32)	Arabian	6 (2)	60 ((
Hollywood	5 (6)	30 (16)	Palanten dari sadi maran manggapa anggapaka panggapakan atmapagangapakan		navenije promotopom na jože na j	
Cabaret	5 (7)	15 (48)	사이 사용되었다. 이 아이들이 아이들은 전에 된 이 사용을 보였다. 이 아이들은 아이들은 사용을 보았다는 이 아이들은 사용되었다.			
Paris.Ballad	5 (8)	74 (96)				
MEM	ORY		COMPOSER C	HORD MAR		
MEMORY A VI	14 (0)	0 (128)	MAP 1	15 (O)	112 (126	
MEMORY A V2	14 (1)	1 (128)	MAP 2	15 (1)	113 (12	
MEMORY A V3	14 (2)	2 (128)	MAP 3	15 (2)	114 (120	
MEMORY A V4	14 (3)	3 (128)	MAP 4	15 (8)	115 (120	
MEMORY B V1	14 (4)	4 (128)	MAP 8	15 (4)	116 (12)	
MEMORY B V2	14 (5)	5 (126)	And the same of th	المنتفينية تستنينا وموروها		
MEMORY B V3	14 (8)	6 (126)	어느 것 하는 것 같은 그룹 중을 가면 되었다. 글 그리 하는 그 사람들은 말로 함께 얼마를 보고 있다.	- 11		
MEMORY B V4	14 (7)	7 (128)				
MEMORY C V1	14 (8)	8 (128)				
MEMORY C V2	14 (9)	9 (128)		in the second se		
MEMORY C V3	14 (10)	10 (128)	ren eren dere medi eren indere Ombilier	1.15 : 15 : 11 = 폭ഹ) 1.18 : 13 : 13 : 13 : 14	함 그를	
MEMORY C V4	14 (11)	11 (126)		[[[조리 : 12]] [[조리 : 12]] [[조리 : 12] [[조리 : 12]] [[조]] [[Call : 12]] [

[•]The numbers in parentheses () are bank data.

Program change number == Program change data+1 / Bank number == Bank data+1

BUARD PERCUSSION

The graph of the contract of t	MIDI NO NUMBE		Orchestral kit	MIDI NUN	MIDI NOTE NUMBER	
· · · · · · · · · · · · · · · · · · ·	NORM	TECH	THE REAL PROPERTY AND THE PROPERTY OF THE PROP	NORM	TECH	was see
The set Halles Halles Halles on the set of t	FIGURE SECTION		er artistation to transport	lez iv	المهادية المعادية	1 7 7 7
Drum - Car	NA.	300	Orchestral Bass Drum	36	36	ļ
Rim Shot	37	47	Rim Shot	37	47	<u> </u>
Snere Drum 1	38	38	Orchestral Snare Drum 1	38	38	<u> </u>
Special Snare Drum	39	31	Castanets	39	55	
Trum 7	40	32	Orchestral Snare Drum 2	40	32	<u> </u>
	5.2.2 41	95	Triangle	41	57	
Splesh Cymbal	42	24	Cymbal Soft Mallet	42	24	
Tom Low	43	41	Ohchestral Tambourine	43	21	
Crash Cymbal Low	44	51	Orchestral Cymbal 1	44	51]
Figure 1 Mid	45	43	Tam-Tam	45	30	
Crash Cymbal High	48	25	Orchestral Cymbal 2	46	25]
Tom High	47	45	Rattle	47	58	1
Hi Hat Close 1	48	48	Tublar Bells C	48	84	Ī
HI Hat Close 2	49	49	Tublar Bells C*	49	85	1
Hr Hat Open	50	50_	Tublar Bells D	50	86	1
Ride Bell	51	28	Tublar Bells D'	51	87	<u> </u>
Ride Cymbal	52	52	Tublar Bells E	52	88	
Conge Low	53	53	Tublar Bells F	53	89	
- Small Conga Low	54	54	Tublar Bells F*	54	90	ļ
The second secon		55	Tublar Bells G	55	91	ria cale
The state of the s	56	56	Tubler Bells G'	56	92	
#1000 depth 4000 million 400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	57	57	Tublar Bells A	57	93	
metal Cabasa	58_	58	Tublar Bells A	58	94	
Was a second sec	59	99	Tublar Beils B	59	95	- 0.50
Timbales Low Timbales High	60	100	Tublar Bells c		96	1 - 1558
Gowbell Low	61	66	Tublar Belis c'	60		
15 (Sept. 1997) 15 (Sept. 1997		 		61	97	ł
	62	62	Tubler Bells d	62	98	
Agogo Low	63	102	Tublar Bells d*	63	99	
	64	101	Timpani E	64	64	ļ
Low Mustia Low	65	65	Timpani F	65	65	
ministle High	66	66	Timpani F*	66	66	ļ
The second secon	177	57	Timpani G	67	67	ļ
The state of the s	68	68	Timpani G ^s	68	68	<u> </u>
t ded the I	69	69	Timpani A	69	69	<u> </u>
The American Registration of the American Reg	70	74	Timpani A*	70	70	<u>.</u>
# 2000年度 (4.30mm 177回 1770 1770 1770 1770 1770 1770 1770	71	96	Timpani B	71	71	
Li langie Mute	72.,	108	Timpanic	72	72	
MATECAS	73	105	Timpani c*	73	73	
I FIRMOIR LIDER	74	107	Timpanid	74	74	
A.M. 19 A. C. T. T. Subility	75	77	Timpani d*	75	75	L
The Tuird Land Company of the Compan	75	76	Timpani e	76	76	
FEE - S.		85	Timpani f	77	77	Ī
21 T Snara Drum	n 78	86	Wood Block Low	78	115]
- AMARINE LYMPAL	79	87	Wood Block Mid	79	116	Ī
	80	29	Wood Block High	80	117	ĺ
1961	81	118	Hi Hat Close 1	81	48	İ
	82	111	Hi Hat Close 2	82	49	
THE STATE OF		119				

KEYBOARD PERCUSSION

		Sound Effect kit	MIDI NOTE NUMBER		General MIDI	MIDI NOTE
		. 2	NORM	TECH	orient, es entre commente de	NUMBER
		-	_	: 1	Bass Drum 2*	35
	€	Fret Noise	36	345	Bees Drum 1	36
	2	Picked Noise 1	37	47	Rim Shot	37
	₽1	Picked Noise 2	35	38	Snare Drum 1	346
	@ "	Picked Noise 3	39	31	Hend Claps	30
	₽;	Picked Noise 4	40	32	Snara Drum 2	40
	R	Sax Breath Noise	41	96	Floor Tom Low	41
	49	Flute Breath Noise	42	24	HI Hat Close	42
	8.	Slap Shot	43	-26	Floor Tom High	
	φ,	Scratch 1	44	51	Hi Hat Pedel	#
	. 8-	Scratch 2	.43	43	Tom Low	45
	φ,	Slap	46	25	Hi Hat Open	46
	e -	Hend Cleps	47	45	Tom Mid	
· · · · · · · · · · · · · · · · · · ·	<u>.</u> ©	Applause 1	48	48	Tom High 1	48
	Φ.:	Applause 2	49	40	Cresh Cymbel 1	1 1 4 9
	9	Whistle	50	50	Tom High 2	50
	12	Orchestra Hit Low	61	28	Ride Cymbel 1	7-2
	a	Orchestre Hit High	122	52		52
	0,	Metal Hit Low	83	53	Ride Bell	- 53
	01	Metal Hit High	54	54	Tembourine	-
	-	Temple Block	53	56	Splach Cymbel	5
	0+	Small Bell		56	Cowbell	56
			56	57		
	0:	Sleigh Bell	57	27		57
	Q	Wind Chime	58	1	Vibrasiap	. 50
	₽ \$.	Tsm-Tam	54	59	Ride Cymbel 2	59
		Gun Snot	60	100		
	9.	Explosion	61	66		61
	9-	Helicopter	92	62	the same of the sa	62
	CAP .	Train	83	102	Congo Hush	18
	97.	Steam Whistle	.	101	Conge Low	. 4
	-46 -1	Telephone	85	65	Timbales High	66
	- 4 ->	Wave 1	*	. 08	Timbular Cow	***
	×	Wave 2	1 47	67	Agogo High	67
	*	Wind	68	96		. 0
	وم ا	Heart Beet	. 60	35	Cabase	. 69
	0	Voice Ah	70	- 33	Maraces	70
	0	Voice Yeh	71	34	Sembe Whistle Short	71
	<u>C-</u>	Bird 1	772	108	Samba Whistle Long	77
	Po	Bird 2	73	106	Guiro Short	78
	*· <u>C</u>	Bird 3	74	107	Guire Long	74
	Q	Bird 4	76	77	Cline	75
	8	Bird 6	70	76	Wood Blook Mid	76
	Œ	Bird 🛊 💮 💮 🔻	77	86	Wood Blook Low	77
	9	Bird 7	78	95	Cuice High	78
	0	Builfrog	79	87	Culen Low	79
	1HP	Little Dog	80	29	Triengie Mute	. 80
		Metronome Click	81	16	Triangle Open	81
	8	Metronome Bell	122	17		#2
	,eg:	Squere Click	83	15	Sleigh Bell	83

G History Black Community and the state of t

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HARD ROCK

Flayed note (right-pand melody)

EL MEMORY INITIAL SETTING

	# 7007 photos	BANK 7	AND THE PARTY OF THE PROPERTY OF THE PARTY O	HANK T	- Cir
		ii ole ole ole ole ole ole ole ole ole ole	4 量子左侧 35,540 设置器使出,在译形		
TE ESECTION IS TO		Plano Combo		Theatre Flutes	I
* **					
zizino gu iliua ili	1 2 5	Country & Western	1 2	Bossanova Drawbars	Ţ
	W				ı
					CHICAGO.
manufacture and property of the U.S. was		Gentla Rossa	3 - 1	Samba Drawnars	
Multo r, 1944. valeat	I. 4 - E	= Heimatklanda ==	- # 4.	Standard Combo	
				Company of the second s	* .
THE RESIDENCE WAS A SAME WITH THE PROPERTY OF THE PARTY O					
		Mountain Flutes		Jazz Club	291
		·····································		所引言。1.5.220元,1.5.50元,	Pare
F Swiinh		Last Night of the Proms!	6	Gospel Tonewheels	ie iss
	· " · " · T. · <u>!</u> 	A TOTAL OF THE PROPERTY OF THE		C. C. C. C. C. C. C. C. C. C. C. C. C. C	
		基金的名为如果的数据的数据	20	生。 第一章	- 1
awbars	7. [Dreamy Ballad	7	Rock Drawbars	
		The second secon			
		Modern Guitar		Picture Palace	

..... CIM EXPAND mode of PANEL MEMORY will allow you to make full use of the initial factory settings.

THE SYNCHHOMBHEAK

REVERB

		and the second second	: <u>s.</u> -	-
		DELAYL		30
		DELAYA	1. b	30
SINGLE BELLAY	An echo effect, in which the original sound is especial	PERIDACHE		
SINGLE DELAY	efter a delay.	FEEDBACK R		-
		HIGH DUMP GAIN	1 44	D
		VOLUME		:::Āj:
			TARREST OF THE	
DELAY	: Time difference between original sound and the repeat (me).		21.3
FEEDBACK HIGH DUMP GAIN	: Feedback volume (inverted when a minus level). : Adjusts the degree of damping in the trable ratige.		1.21	
VOLUME	: Adjusts the volume of the sound to which the effect is app	Hed		
	ර කරනු කරනු කරනු කරනු කරනු කරනු කරනු කරන	garina ar gegen er om en en en en en en en en en en en en en		
		and the second of the second o	(2.4.4.4.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
		DELAY	The second of the second	700
		DELAY 2	. Los Architectures and the contract of the co	700
•		DELAY.3		700
		DELAY 4	- E 0	700
MULTI	An arba affine in the Line Faure of the Line in the	PAN		96
TAP DELAY	An echo effect in which the length of the delay can be set to vary depending upon pan position.	PANZ	0	. 90 :
INF DELAT	cor to adi à debericitif about heit binitifet.	PARA		90
			100 -	- 10
		FEED BACK		-
		HIGH DUMP GAIN	1 2 3 3 3 3 3 3 3 3 3 3	ě.
		VOLUME	132	
				<u> </u>
PAN	: penning setting.			
			1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· <u></u>
		DEPTH	0 -	98
ROOM	Reverberations sound as if produced in a room	REVERB TIME	A 1 -	10
REVERB 1.2	(indoors)	PRE DELAY	- 0 -	200
.,_		HIGH DUMP GAIN	-24	0
		EARLY REFL LEVEL	0 -	99
			and a second	
DEPTH REVERBITME	: Depth of the reverb. : The time it takes for the reverb effect to fede out.			
PRE DELAY	: The time elepsed between the beginning of the reverb a	fleat.		
EARLY REFL LEVE				
				:
		DEPTH		05
		REVERB TIME		10
PLATE	A type of reverberation obtained from a reverb unit	PREDELAY	1 % = .	
REVERB 1,2	which utilizes the vibrations of a metal plate.	HIGH DUMP GAIN	-24 -	200
		EARLY REFL LEVEL	74 -	0
		ENGL! MELL LEVEL	12276	99
			T	ر در د د
		DEPTH	0 -	80
		REVERB TIME	04 -	30
CONCERT	Reverberations sound as if produced in a concert half.	PRE DELAY	0 -	200
REVERB 1,2	The state of the s	HIGH DUMP GAIN	±34 -	ő
	man America	EARLY REFL LEVEL		90
		The second secon		6=800
		NEPTU		مانيس. مع
		DEPTH DEVEDO TIME		30 an
DARK	Reverberations evoke images of darkness.	REVERS TIME	0.4 -	30
REVERB 1,2	· revertations evoka imigras of carridas	PRE DELAY	0 -	
	Linean paratrious sand illimbes of met Misse.	LIBOUT WITH A A ALL		200
		HIGH DUMP GAIN	-24 -	0
	The second secon	HIGH DUMP GAIN EARLY REFL LEVEL	-24 - 0 -	

A different is modulated chorus in which the swell is 1 FO BALANCE 1 98 FOR HALANCE			
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THE CI THE TAXABLE AND THE STATE OF THE STA		MICH DUMP GAIN	
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DEPTH 0 99			
DEPTIM 0 98 Interest and content of the content			
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DEPTIM 0 98 AUTHOR AUTHORS IS SECTIONS IS SECTION DEPTIM 0 98 AUTHOR AUTHORS AUTHOR			
DEPTIM 1 99			
Compared and Compared to Machinery LFO SPEED 0	De 10 133 table of 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1	- 2 m m m m m m m m m m m m m m m m m m	THE STREET STREET, STREET STREET, STRE
Compared and Compared to Machinery LFO SPEED 0			
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A different production of the LEO WAVEFORM ain tri aduars of uses sound. Wol LIME	THE PARTY OF THE P	LFO SPEED	I
TENT OF THE STORY FROM OF THE S		LFO WAVEFORM	sin tri square. I
FEVERR SEND 0 99 Frammor the affect of the LEO (low/fraguancy oscillator) modulator Frammission fraguancy of the LEO (low/fraguancy oscillator) modulator Frammission fraguancy of the solution of the affect is applied Frammission fraguancy of the solution of the affect is applied Frammission fraguancy of the LEO (low/fraguancy oscillator) modulator Frammission of the solution of the affect is applied Frammission fraguancy of the LEO (low/fraguancy oscillator) modulator Frammission of the solution of the leof the solution of the solution of the solution of the solution of the leof the	ं युप्तमा sound		
Transmission tracusancy of the LEO Clow fraguency oscillator) modulator. ***********************************			L
TRANSPORT TRANSPORT TRANSPORT TO DIGITAL REVERS DELILATED A AITTERNIE AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE A AITTERNIE AITTERNIE A AITTERNIE A			
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TELE SPEED I TALE AND	FIRST Transmission fraquency of the LFO (low fraquency osc	REVERN SEND	
TELESTED A differently modulated chorus in which the swell is TELESTED	Figure 1 Transmission frequency of the LFO (low frequency oscillator) modules (Inc.)	REVERN SEND	
TELESPEED A differently modulated chorus in which the swell is TELESPEED	Transmission frequency of the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the left of the select is applied.	REVERN SEND	
TELESPEED A differently modulated chorus in which the swell is TELESPEED	Transmission frequency of the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the LFO (low frequency oscillator) modules to the left of the select is applied.	REVERN SEND	
THE TOTAL ANTER THE MINISTERS IN Which the swell is STANDARD TO SERVICE TO SE	Figure of the arect Transmission frequency of the LFO (low frequency oscillator) modules WENGTOWN OF THE LFO (low frequency oscillator) modules With the country of the affect is applied.	REVERE SEND	
A different ty modulated chorus in which the swell is	Transmission frequency of the LFO (low fraquency oscillator) modules a second to the affect is applied. In a volume sent to DIGITAL REVERS	alliator) modulator, dator.	
THE TABLE TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED. TO SELECTION OF THE FACT LED IS ADDIED.	Tenth of the affect Transmission frequency of the LEO (low frequency oscillator) modules Transmission frequency of the LEO (low frequency oscillator) modules The water of the sound to the affect is applied The volume sent to DIGITAL REVERS	REVERN SEND	
MANUAL MANUAL MANUAL MANUAL LOW MIX G = 98 MANUAL LOW MIX G = 98 LOW MIX LOW MIX G = 98 LOW MIX	Transmission fraquency of the LFO (low fraquency oscillator) modules a second of the strong to the affect is applied. The volume sent to DIGITAL REVERS	REVERN SEND. Cillator) modulator, Ustor. PER. FED SPEED.	n = 99
The dadres to which the fast LEU is applied. The dadres to which the fast LEU is applied. TABLE ANTI- The dadres to which the fast LEU is applied. TABLE ANTI- THE DATE OF THE DATE OF THE DELAY TIME L. 0 - 350 ms. THE PAY TIME R. 0 - 350 ms. TH	Figure of the arrect Transmission frequency of the LFO (low frequency oscillator) modulated services in which the swell is	REVERN SEND. Cillator) modulator, Ustor. PER. FED SPEED.	
LOW MIX LOW	Transmission frequency of the LEO (low frequency oscillator) modules and the Solind to the affect is applied. The volume sent to DIGITAL REVERS. Adifferently modulated chorus in which the swell is applied.	FEVERR SEND Cillator) modulator Clator FUE FO SPEED FO BALANCE	
LOW MIX O = 98 Francisco a specific frequency by shifting the DELAY TIME L. O = 350 ms OELAY TIME R. O = 360 ms VOLUME 0 = 99 EVERB SEND 0 = 99	Transmission fraquency of the LFO (low fraquency oscillator) modules and the sound to the affect is applied. The volume sent to DIGITAL REVERS. The volume sent to DIGITAL REVERS. The volume sent to DIGITAL REVERS.	FPVFM SFND Cillator) modulator, Uator. FPVF FFO SPFFO FED SPFFO FED SPFFO FFO BALANCE WAVEFORM	10 - 99
LOW MIX 1 98 LOW MIX 0 98 Propriesizes a specific frequency by shifting the DELAY TIME L 0 350 ms DELAY TIME R 0 380 ms VOLUME 0 99 EVERB SEND 0 99	Plants of the affect Transmission fracuency of the LFO (low fraquency oscillator) modulated chorus in which the swell is Adifferently modulated chorus in which the swell is Exercised to the affect is applied. Adifferently modulated chorus in which the swell is Exercised to the affect is applied.	FEVERN SEND Color	
LOW MIX 0 = 98 Propriesizes a specific frequency by shirting the DELAY TIME L. 0 = 350 ms PLEATING SOUND DIGITIE. DELAY TIME R. 0 = 360 ms. VOLUME 0 = 99 EVERB SEND 0 = 99	FER FRANCE TRANSPORT TRANS	FEVERN SEND Color	
LOW MIX 0 = 98	FERRIT OF THE STREET Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied.	FEVERE SEND WIND	0 - 99 0 - 98 0 - 98 0 - 98
LOW MIX 0 = 98 Propriesizes a specific frequency by shirting the DELAY TIME L. 0 = 350 ms PLEATING SOUND DIGITIE. DELAY TIME R. 0 = 360 ms. VOLUME 0 = 99 EVERB SEND 0 = 99	Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied.	FEVERE SEND Cillator) modulator Clator FE FO SPEED FE SPEED FE BALANCE FO BALANCE FO SPEED FO SPEE	
HIGH MIX 0 = 96	Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied The volume sent to DIGITAL REVERS The volume sent to modulated chorus in which the swell is applied.	FVFHF SFND Sillator) modulator. Ustor. FVH. FOSPED FUSPED	T SQUARE
DELAY TIME L 0 - 350 ms Contraction of the second profile. DELAY TIME R 0 - 350 ms VOLUME 0 - 98 EVERB SEND 0 - 99	Figure of the affect Transmission frequency of the LEO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LEO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LEO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LEO Clow frequency oscillator) modulated to the affect is applied.	FEVERE SEND ALL SEND TELLSPEED FOR SEND FOR SEND FOR SEND	n - 90
DELAY TIME R 0 380 ms. VOLUME 0 99 EVERB SEND 0 99	Transmission frequency of the LFO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO Clow frequency oscillator) modulated to the affect is applied Transmission frequency of the LFO Clow frequency oscillator) modulated to the affect is applied.	FVFRE SFND Cillator) modulator, Ustor. FFE FO SPFFO FEUSPHED FO BALANCE WAVEFORM FOR HANNEL WANTAL WANTAL WANTAL LOW MIX	
VOLUME 0 99 EVERB SEND 0 99 EVERB SEND 0 99	Transmission frequency of the LEO Clow frequency oscillator) modulated to the affect is applied TRANSMISSION FREQUENCY OF THE LEO CLOW frequency oscillator) modulated to the affect is applied TRANSMISSION FREQUENCY OF THE SHOP IN TH	FVFRE SFND Cillator) modulator, Ustor. FFE FO SPFFO FEUSPHED FO BALANCE WAVEFORM FOR HANNEL WANTAL WANTAL WANTAL LOW MIX	
VOLUME 0 98 ==VERB SEND 0 98 ==VERB SEND 0 98	Transmission frequency of the LEO (low frequency oscillator) modulated to the affect is applied. The volume sany to Digital REVERS Additionally modulated chorus in which the swell is applied. The dagree to which the fast LEO is applied.	FUERE SEND Cillator) modulator Clator FUE ED SPEED FUE BALANCE FUE BALANCE FUERE BALANCE	0 - 99 0 - 98
TEVERB SEND 0 - 98	FIGURE 1 Transmission fractuancy of the LFO (low fraquency oscillator) modules and the sound to the affect is applied. The volume sant to DIGITAL REVERS The volume sant to DIGITAL REVERS The dadres to which the fast LFU is applied.	FEVERE SEND Cillator) modulator Cillator FO SPEED FO BALANCE FORM	1 - 99 1 - 99 1 - 95 1 - 99 1 - 99 1 - 99 1 - 99 0 - 95 0 - 350 ms
.==:4! - E THROUGHOUTO Which The affect is anniad.	Transmission frequency of the LFO (low frequency oscillator) modulated to the effect is applied. The volume sant to DIGITAL REVERS The reaction of the sound to the effect is applied. The volume sant to DIGITAL REVERS The reaction of the sound to the effect is applied. The reaction of the sound to the effect is applied. The reaction of the sound to the effect is applied. The reaction of the sound to the effect is applied.	HEVERE SEND SILIATOR FUND FOR SPEED FOR BALANCE FOR	0 - 95 0 - 350 ms
	Tenth of the affect Transmission frequency of the LFO (low frequency oscillator) mode Westerm of the LFO (low frequency oscillator) mode Westerm of the LFO (low frequency oscillator) mode Westerm of the Sound to the effect is applied The Volume sant to DIGITAL REVERS The Volume sant to DIGITAL REVERS Additional to which the fast LFD is applied The degree to which the fast LFD is applied The degree to which the fast LFD is applied.	FUND MIX FORPED FUNDALANCE	0 - 95 0 - 350 ms
	Transmission frequency of the LFO (low frequency oscillator) modules to the affect is applied. The volume sant to Digit at REVERS The volume sant to Digit at REVERS Additionally module to the affect is applied. The volume sant to Digit at REVERS The volume sant to which the fast LFD is applied. The degree to which the fast LFD is applied.	MANUAL MANUAL	0 - 99 0 - 350 ms 0 - 350 ms 0 - 350 ms 0 - 350 ms
	Transmission frequency of the LFO (low frequency oscillator) modulated to the affect is applied. The volume sent to Digit at Reverse The degree to which the fact LFO is applied. The degree to which the fact LFO is applied.	HEVERN SEND WANTAL LOW MIX HIGH MIX DELAY TIME R VOLUME EVERN SEND	0 - 99 0 - 98 0 - 350 ms 0 - 99 0 - 98

DSP EFFECT

O. E E.	•		
		DEPTH LFO SPEED RESONANCE	0 - 99 0 - 40.2 Hz -10 + 10
FLANGER	An undulation is added, giving an intensity to sound a having many overtones (harmonics).	MANUAL PHASE LFO WAVEFORM VOLUME	9 — 98 9 — 180 degri ein,tri,equere 9 — 98
		REVERB SEND	0 99
RESONANCE PHASE	: Feedback volume (inverted when a minus value). : Phase difference between left and right modulation.		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
		DEPTH	
		LFO SPEED	0 - 40.2 Hz
		RESONANCE	-86 - 90
PHASER	A more distinct undulation affect than FLANGER.	MANUAL PHASE	9 - 180 degr
	ladd for diectric pratic type accurate.	LFO WAVEFORM	eln tri aquere
	-	VOLUME	0 - 90
		REVERS SEND	99
		DEPTH	\$ 90 20 10
CHOPMAN	Produces the effect of many musical instruments	LFO SPEED	0 - 40.2 Hz
ENSEMBLE	being played together.	VOLUME	ain,tri,aquere
	And the second s	REVERB SEND	0 - •
		GATE TIME	10 - 2900 ms
GATED	Reverberation is applied for a limited time.	HIGH DUMP GAIN	
REVERB	An interesting effect can be obtained by muting a	MASK TIME	19 - 2900 me
********	reverberation in the middle.	VOLUME	8 - 90
		REVERB SEND	2 - 90
GATE TIME THRESHOLD MASK TIME	: The time period during which the effect is applied. : The boundary point at which the effect is applied. : The time period during the effect is masked.		
		DELAYL	9 - 350 ms
		DELAY R	9 - 350 ma
815161 P 551 437	An echo effect, in which the original sound is	FEEDBACK L	+ 9 7 90
SINGLE DELAY	repeated after a delay.	FEEDBACK R	-24
		VOLUME	
	The second secon	REVERB SEND	0 - 30
DELAY	: Time difference between original sound and the rapes	L (ma).	
FEEDBACK	: Feedback volume (inverted when a minus level).		- 1. 性製品 (1.) - 機震が、対対では、デタ・
HIGH DUMP GAIN VOLUME	: Adjusts the degree of demping in the trable range. : Adjusts the volume of the sound to which the effect is a	ipplied.	
-			
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		SENSITIVITY	ha war	6 4 % ·	· - #
	-ATTACK	SEMPITIALIT	100.0	- 0.15	H
PRESSUR Compresses the dynamic range					.Ш
		CENCITIVITY	TA MAR	****************	
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	HMF		i n	_ 00	11
	_		1 0	_ GS	1
- <u></u>	_	NEWI	I n	- 00 - 00	1
	_	<u>SENII</u>	n	- 00 - 00	
	_	XFNI)	I A	00 90	

The ratio of the effect

Sensitivity of the effect at the time of attack (reaction speed)

Sensitivity of the effect at the time of release (reaction speed)

DSP EFFECT

SLOW ATTACKER	Slows down the attack.		THRESHOLD ATTACK RATE RELEASE RATE VOLUME REVERB SEND	0 0.01 0	- 99 - 20.0 S - 1.0 S - 99
ATTACK RATE RELEASE RATE	: Attack rate (slope) . : Release rate (slope) .			Made to Mine philippy an	
			BAND EMPHASIS I Fe	50 Hz -	- 16kHz
			Band Emphasis 1 g	0.1 - -12 -	- 20 - 12 dB
			BAND EMPHASIS 2 Fc		481 74
			BAND EMPHASIS 2 Q	.0.1 -	- 18kHz - 20
			BAND EMPHASIS 2 G	-12 -	- 12 dB
·			BAND EMPHASIS 3 FG	50 Hz -	- 16kHa
PARAMETRIC	Amanualinamusikista = 15	CV to Company and the company	Band Emphasis 5 Q	0.1	- 20
EQ	An equalizer which sets so frequency point.	und quality for a precise	Band Emphasis 1 g	-12 -	- 12 dB
			Band Emphasis 4 Fc	50 Hz -	- 16kHz
			BAND EMPHASIS 4 Q	0.1	20
			BAND EMPHASIS 4 G	-12 -	· 12 dB
			BAND EMPHASIS 5 Fc	50 Hz -	- 16kHz
			BAND EMPHASIS 5 Q	0.1 -	- 20
			Band Emphasis 5 G	-12 -	12 dB
			VOLUME		- 60
			REVERBSEND	0 -	- 99

BAND EMPHASIS G

AUTO PAN	Periodically shifts the sound's pan position. Periodically shifts the sound's pan position. PHASE 5 - 180 degree 5 - 180 degree 6 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
VIBRATO	Modulates frequency in a vibrato pattern. DEPTH LEO SPEED FHASE LEO WAVEFORM SIN, tri, aquare VOLUME REVERS SEND DEPTH G - 90 180 degrae REVERS SEND DEPTH G - 90 REVERS SEND
AUTO WAH	A filter effect which autometically changes peak frequency in response to an increase in the volume of the input. RESONANCE wide middle, narrow MANUAL 90 90 90 90 90 90 90 90 90 90 90 90 90

SWEEP RANGE : The range of frequencies to be changed.

		# 1777 (7 m) 2 m 25 4 m (27 ± 25) (24) (2) 1 7 m (2) 1 7	
		DRIVE ************************	
(198 0::: 199::::::::::::::::::::::::::::::::	- <u> </u>	VOLUME ADJUST	A COLUMN TO THE PROPERTY OF TH
		ACERT FOR THE	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	The substance of the second se	· · · · · · · · · · · · · · · · · · ·	
	A CALLED THE SECOND CONTRACTOR OF THE SECOND C	SLOW	0 - 34.95.Hz
		ED III	
		n BASS DEPTH	8105
	rotary speakers. Ideal for orden type sounds.		33
TET BERKELDE VENNENDE I		· · · · · · · · · · · · · · · · · · ·	
			TO - BLOS
INTEREST CONTROL OF THE PROPERTY OF THE P	等的表演的 [10] [10] [10] [10] [10] [10] [10] [10]	TO STATE OF THE PARTY OF THE PA	10 - 610S
		VOLUME	
		SCOW/FAST	8low,fast
athering at which			0 - 99
-RIJ DOWN	Line time it takes to reach the (TRERLE/RAS) The time it takes to reach the (TRERLE/RAS) Switches apeaker rotation shaed between SLOW	S) SI OW speed when the speed is ch	anged from slow to fast.
· - -		OSC-SPEED	0 - 19.6 kHz
		PHASE	0 - 180 degree
HUTALUQUM	=====================================	key. OSC WAVEFORM	sin,tri,square
to be a second and the second and th		VOLUME	0 99
of the state of th		REVERB SEND	D
	: Ciscillator waveform		
#F()	* Oscillator fraguency.		
		DEPTH	0 - 99
100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SLOW LFO SPEED	0 - 40.2 Hz
	100 mg/s	FART LFO SPEED L	0 - 402 Hz
The control of the co	Mixes in LFO modulation.	FAST LFO SPEED R	0 - 40.2 Hz
		PIASE	1 - 181 degree
±	and the second traction and the second traction of the second tracti	VOLUME	sin,tri,square
TRUMANNA CHAMPET - J. AND T. AND STEERMEET T	THE TREE SECTION OF THE PROPERTY OF THE PROPER	REVERBSEND	. p 99
		THE DISTRICT ABOVE THE PROPERTY OF THE PROPERT	
8	Construction of the Constr	DELAY DAY WET	0 - 99
		Zet DELAY L	0 — 300 ms
		DELAY B	
		PEFIJBACK L	
: F TIFF AY : [Calay with chorus	FEEDBACK R CHORUS DRY/WET	-89 - 89
—= <u>! 1& I</u>	THE STATE OF THE S	DEPIH	0 - 99
		inyen	
		LFD WAVEFORM	sin iri square
		WAT DIME	
	a. Almandari karatar da aratar	HEVERB SEND	
THE STREET OF THE PERSON NAMED IN			2072000 18
		DELAYI DRY/WET DELAY L	0 - 99
		DELAY R	0 — 180 degree 0 — 180 degree
	- Maria - Angel - Ange		-99 - 99
		FEFDBACK R	<u> -90 - 90 - </u>
MINULE UELAI	Carobines two types of delay	DELAYZ DRY/WET	O
TNG E DELAY	The second of th	THE COLOR OF THE C	0 - 180 degree
		DELAY R	0 - 180 degree
	Line Control of the C	FEEDBACK L FEEDBACK R	
· And Angles of the Committee of the Com	anternation de la maiorité de la constant de la constant de la companya de la companya de la companya de la co La constant de la companya de la companya de la companya de la companya de la companya de la companya de la co	THE PROPERTY OF CAUCHY AND A SECOND OF SURFINE AND ADDRESS OF SURFIN	99
		TO THE STATE OF TH	
	 ABERTACION (ACCESANDA EL ESTADO DE LO CONTROLO TERRESTO DE LA CASA DE CONTROLO DE LOS CONTROLOS DE LOS CONTROL		
	water to the same of	CANAN PROPERTY OF THE STATE OF	- Tight (A. T. 1965) (RESA HESS) SIGNIBUS INSTITUTE (STANS) - TIGHT INSTITUTE (A. T. 1965)

DSP EFFECT

			·····
		API AU MALE BURN	
	La transfer La	DELAY DRY/WET	0 - 99
		DELAY L	0 - 300 ma
		DELAY R	6 - 300 ma
		FEEDBACK L	-66 - 50
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
		FEEDBACK R	
		FLANGER DRY/WET	0 - 90
SINGLE DELAY	A STATE OF THE STA	DEPTH	0 - 20
+	Combines delay with flanger.	The Early State of the Control of th	
FLANGER	To take the second	LFO SPEED	6 - 40.2 Hz
, _, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Table 1988 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984	RESONANCE	-99 - 99
		MANUAL	
		이 그 내가 이렇는 사람이 되어 있는데 그녀의 한 보고 이렇지?	
	The segment of the se	PHASE	0 = 190 degree
		LPO WAYEFORM	sin_tri,equare
		VOLUME	
		. 1 🚺 - 8 - 1 (1) 編集 (20 N J V V V V V V V V V V V V V V V V V V	The state of the s
	[1 : L L L L L L L L L L L L L L L L L L	REVERS SEND	
<u></u>		in the second of the second manifest of the second majors of the	
		DELAY DRY/WET	0 1 - 20 - 3
		DELAY E	6 - 300 ma
			* またい 11700 (1.15)
		DELAY R	0 - 300 ma
		FEEDBACK L	- 00 , <u>11</u> 1
SINGLE DELAY		FEEDBACK R	1
	Annual to the second se		
+	Combines delay with vibrato.	DEPTH	
VIBRATO		LFO SPEED	0 - 40.2 Hz
		PHASE	0 180 degree
		LFO WAVEFORM	THE CONTRACT OF A CONTRACT OF THE STATE OF T
		그러게 활성하는 사람 회원인과 표하는 사람이 되었다고 하는데	air, tri, aguero
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•			1 _ A A
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	1 44 45	DELAY L	0 - 300 ms
		DELAY R	0 300 ms
		 In the control of the c	
		PEEDBACK C	* 舞 [
		FEEDBACK R	- 100 Time 1 100 Time
		PHASER DRY/WET	· 1 :
SINGLE DELAY			ali Bubaban an isang tanggar at at ta
+			
	Combines delay with chaser	DEPTH	
	Combines delay with phaser.		0 30 30 00 00 00 00 00 00 00 00 00 00 00
PHASER	Combines delay with phaser.	DEPTH LFO SPEED	0 - 40.2 Hz
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE	0 - 00.2 Hz
	Combines delay with phaser.	LFO SPEED RESONANCE MANUAL	0 - 0.2 Hz
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE	0 - 10.2 Hz
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE	-90 - 90 0 - 100 dept
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM	-90 - 90 0 - 100 depri sin,sri,square
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME	-90 - 90 0 - 90 0 - 100 dept
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM	-90 - 90 0 - 100 depri sin,sri,square
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME	-90 - 90 0 - 100 depri sin,sri,square
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME	-90 - 90 0 - 100 depri sin,sri,square
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REYERS SEND	-90 - 90 deprit sin, stri, square 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND	-90 - 90 0 - 100 depri sin,sri,square
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME REVERS SEND RESONANCE MANUAL	-90 - 90 - 100 depth sin, stri, square 90 - 90 - 90 - 90
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND	-90 - 90 - 100 depth sin, stri, square 90 - 90 - 90 - 90
	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE	-90 - 90 deprit sin, stri, square 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PHASER	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME REVERS SEND RESONANCE MARUAL SWEEP RANGE DELAY DRY/WET	wide, middle, nerrow
PHASER		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L	### ### ### ### ######################
AUTO WAH	Combines delay with phaser.	DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAYEFORM VOLUME REVERS SEND RESONANCE MARUAL SWEEP RANGE DELAY DRY/WET	-99 - 90
PHASER		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R	### ### ### ### ######################
AUTO WAH		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R FEEDBACK L	### ### ### ##########################
AUTO WAH		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R FEEDBACK R	### ### ### ##########################
AUTO WAH		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R FEEDBACK L	### ### ### ##########################
AUTO WAH		DEPTH LFÖ SPEED RESONANCE MANUAL PHASE LFD WAYEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R FEEDBACK R VOLUME	### ### ### ##########################
AUTO WAH		DEPTH LFO SPEED RESONANCE MANUAL PHASE LFO WAVEFORM VOLUME REVERS SEND RESONANCE MANUAL SWEEP RANGE DELAY DRY/WET DELAY L DELAY R FEEDBACK R	### ### ### ##########################

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THE SECRET BEING STREET AND SECRETARIES	energinar of the call of the c	A CONTRACTOR OF THE PROPERTY O	TOP IN THE PROPERTY OF	Control of the Contro
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		a a Madrid the end for	TENENTEFORM	ein tri squara
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		in the second second second second second second second second second second second second second second second	March the control and the control of	
THE REPORT OF COMPANY OF STREET PROPERTY OF STREET	354 776 37 42 3 3 4 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4			
		- Marine Committee Committ	EARD EMPHASIS 1Fc	50 Hz 16kHz
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			THE THE PARTY OF T	01 - 20
	etropolis in the success plantages of a local star	$+$ and installation Γ	BAND EMPHASIS I G	-12 - 12 dB
	Combines parametric aqualiz	er with delay	DELAY L	- 300 ms.
TISLE DELAY	CHARLES THE STATE OF THE STATE	TO SALES WAS PROPERTY OF THE SALES OF THE SA	DELAY R	0 - 300 ms
三祖 伊斯克斯 医动物性 电电子 医牙髓 医甲状腺素	· · · · · · · · · · · · · · · · · · ·		FEEDBACK L	-99 - 99
生成的主要等等 中的工程。			FEEDBACK R	-99 - 99
			VOLUME	
			REVERB SEND	
				TO THE REAL PROPERTY OF THE PARTY OF
# / F (PR 0) / 4 4 4 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHECK THE POST OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
-			BANO EMPRASIS IFC	50 Hz - 18kHz
	The control of the co	r 1 - New Joseph a March and a first 12 A . - The Control of the C	BAND EMPHASISTO	01 = 20
建立国际的国际公司			EMPHASIS I G	12 12 dB
■10元 (1977)(1995年 本年記代 2月(1995年 本元 Cultural All Mary 1977)		Control of the second s	FLANGER DRY/WET	7 - 80
111 har of 111 har of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	water and the second se		DEPTH	A - 80
=	The second secon		PRESENT FRANCISCO	
-		er with flanger.		1
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			PIÑSE Les DIESCONTON	0 7 180 degrae
				0 za 180 degree
	Maria Company of the		PIÑSE Les DIESCONTON	0 7 B) degrae
			PIÑSE Les DIESCONTON	0 7 B) degrae
	Maria Company of the		PHASE LFO WAVEFORM WOTIME	0 7 B) degrae
The second of th		· a · e · s · se / 2 · s · e · s · s · s · e · e · s · s · e · e	PHASE LFO WAVEFORM WOTIME REVERB SEND	0 180 degree
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・ 高い上のなり 特別のからできます。 これ これ これ これ これ これ これ これ これ これ これ これ これ		· a · e · s · se / 2 · s · e · s · s · s · e · e · s · s · e · e	PHASE LFO WAVEFORM WOTIME REVERB SEND	0
GRANDERS GRANDERS TO THE TOTAL SECTION OF THE SECTI			PHASE LFO WAVEFORM FOURTH REVERB SEND BAND EMPHASIS 1FG	0 7 180 degrae sin,tri.equare 0 - 80 0 - 80 50 Hz - 16kHz 0.1 - 20
GRANDAR PROPERTY TO THE SECTION OF T			PHASE LFO WAVEFORM WATINE REVERB SEND BAND EMPHASIS 1Fc BAND EMPHASIS 1 G	0 7 180 degrae sin,tri.equare 0 - 80 1 - 80 50 Hz - 18kHz 0.1 - 20 -12 - 12 dB
GRANDERS CANDIDATES TO THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF T			PHASE LFO WAVEFORM WOLLIMF REVERS SEND BAND EMPHASIS 1FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C	0 7 180 degrae sin,tri.equare 0 - 80 50 Hz - 18kHz 0.1 - 20 12 - 12 dB 0 - 89
TRANSPORT OF THE PROPERTY OF T	Derametric souelly		PHASE LFO WAVEFORM WILLIMF REVERB SEND BAND EMPHASIS 1FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C	50 Hz - 18kHz 0 - 39 50 Hz - 20 12 12 dB 0 - 39
THE PARTY PROPERTY OF THE PARTY	Perametric sousitz		PHASE LFO WAVEFORM WOLLIMF REVERB SEND BAND EMPHASIS 1 Fc BAND EMPHASIS 1 C **AND EM	0 7 180 degree sin,tri, square 0 - 88 0 - 88 50 Hz - 16kHz 0.1 - 20 -12 12 dB 0 - 99 0 40-2 bbz 0 180 degree
THE PARTY PROPERTY OF THE PARTY	Perametric sousitz	ar with vibrato.	PHASE LFO WAVEFORM WOLLIMF REVERB SEND BAND EMPHASE 1FC BAND EMPHASE 1 C MAND FMPHASE 1 C DEPTH LFO SPEED PHASE LFO WAVEFORM	50 Hz - 18kHz 0 - 20 50 Hz - 18kHz 0 - 20 -12 - 12 dB 0 - 99 0 - 40.2 Hz
THE PARTY PROPERTY OF THE PARTY	Parametric scusity	ar with vibrato.	PHASE LFO WAVEFORM REVERB SEND BAND EMPHASIS 1Fc BAND EMPHASIS 1G MAND EMPHASIS 1G DEPTH LFO SPEED PHASE LFO WAVEFORM	0 7 180 degree sin, tri, square 0 - 85 0 - 85 50 Hz - 16kHz 0.1 - 20 -12 12 dB 0 - 99 0 40-2 bbz sin, tri, square sin, tri, square sin, tri, square
THE PROPERTY OF THE PROPERTY O	perametric scualiz	ar with vibrato.	PHASE LFO WAVEFORM WOLLIMF REVERB SEND BAND EMPHASE 1FC BAND EMPHASE 1 C MAND FMPHASE 1 C DEPTH LFO SPEED PHASE LFO WAVEFORM	50 Hz - 18kHz 0 - 20 50 Hz - 18kHz 0 - 20 -12 - 12 dB 0 - 99 0 - 40.2 Hz
Granding designation of the second se	Derametric scusity	ar with vibrato.	PHASE LFO WAVEFORM WOTTIME REVERB SEND BAND EMPHASIS I G BAND EMPHASIS I G MAND EMPHASIS I G MAND EMPHASIS I G PAND EMPHASIS I G PHASE LFO WAVEFORM WITHE REYLHB SEND	0 7 180 degree sin, tri, square 0 - 85 0 - 85 50 Hz - 16kHz 0.1 - 20 -12 12 dB 0 - 99 0 40-2 bbz sin, tri, square sin, tri, square sin, tri, square
Granding designation of the second se	Derametric scusity	ar with vibrato.	PHASE LFO WAVEFORM WOLLIMF REVERB SEND BAND EMPHASE 1FC BAND EMPHASE 1 C MANN EMPHASE 1 C MANN EMPHASE 1 C DEPTH LFO SPEED PHASE LFO WAVEFORM WILLIAM REVERB SEND	0 7 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Granding designation of the second of the se	Derametric scusity	ar with vibrato.	PHASE LFO WAVEFORM WOTTIME REYERS SEND BAND EMPHASIS I FC BAND EMPHASIS I G MAND EMPHASIS I G DEPTH LEO SPEED PHASE LFO WAVEFORM WAITIME REYERS SEND BAND EMPHASIS I FC	50 Hz 18kHz 0 20 50 Hz 18kHz 0 3 20 -12 12 dB 0 - 99 0 - 10 degree ain, tri, squara 1 3 30 1 30 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Personal Control of the Control of t	ar with vibrato.	PHASE LFO WAVEFORM WATTIME REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C DEPTH LFO SPEED PHASE LFO WAVEFORM WITHIME REVERB SEND BAND EMPHASIS 1 C BAND EMPHASIS 1 C	50 Hz 18kHz 0.1 20 -12 12 dB 0 - 99 0 40-2 bbz ain, tri, squara ain, tri, squara ain, tri, squara ain, tri, squara
	CAPTURETT'S COUNTY	ar with vibrato.	PHASE LFO WAVEFORM WOLLING REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C WANT FUBILIST C WANT FUBILIST C PHASE LFO WAVEFORM WOLLING REYERB SEND BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C	50 Hz = 18kHz 50 Hz = 180 degree 50 Hz = 18kHz 50 Hz = 180 degree
	Parametric sought	ar with vibrato.	PHASE LFO WAVEFORM WOLLIME REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C PHASE LFO WAVEFORM WILLIAME REVERB SEND BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C RAND EMPHASIS 1 C THRESHOLD	50 Hz = 18kHz 0 - 39 50 Hz = 18kHz 0 - 39 12 12 dB 0 - 39 0 - 190 degree sin tri square 0 - 180 degree sin tri square 0 - 190 degree - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
	Parametric sousily	ar with vibrato.	PHASE LFO WAVEFORM WOLLING REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C PHASE LFO WAVEFORM WILLIAM REYLHB SEND BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C RAND EMPHASIS 1 C THRESHOLD RATIO	50 Hz = 18kHz 50 Hz = 180 degree 50 Hz = 18kHz 50 Hz = 180 degree
	Parametric sousily	ar with vibrato.	PHASE LFO WAVEFORM WOLLIME REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C BAND EMPHASIS 1 C PHASE LFO WAVEFORM WILLIAME REVERB SEND BAND EMPHASIS 1 C BAND EMPHASIS 1 C BAND EMPHASIS 1 C RAND EMPHASIS 1 C THRESHOLD	50 Hz = 18kHz 0 - 39 50 Hz = 18kHz 0 - 39 12 12 dB 0 - 39 0 - 190 degree sin tri square 0 - 180 degree sin tri square 0 - 190 degree - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
	PARTITION OF THE PARTIT	ar with vibrato.	PHASE LFO WAVEFORM WOLLIMF REVERB SEND BAND EMPHASIS 1 FC BAND EMPHASIS 1 C MANN FMPHASIS 1 C PHASE LFO WAVEFORM WILLIAM BAND EMPHASIS 1 C BAND EMPHASIS 1 C RAND EMPHASIS 1 C	50 Hz - 18kHz 0 - 30 50 Hz - 18kHz 12 - 12 dB 0 - 99 1 - 40 2 Hz 0 - 99 1 - 40 2 Hz 0 - 99 1 - 40 2 Hz 2 - 40 2 Hz 3 - 40 2 Hz 4 - 40 2 Hz 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5
	Perametric scualization of the second	ar with vibrato.	PHASE LFO WAVEFORM WOTIMF REVERB SEND BAND EMPHASIS I FC BAND EMPHASIS I C AND EMPHASIS I C PHASE LFO WAVEFORM WOTIME REVERB SEND BAND EMPHASIS I C BAND EMPHASIS I C BAND EMPHASIS I C BAND EMPHASIS I C THRESHOLD RATIO FATORER LFO WAVEFORM AND EMPHASIS I C BAND EMPHASIS I C THRESHOLD RATIO FATORER TAMBLE TAM	50 Hz - 18kHz 0 - 30 50 Hz - 18kHz 0 - 30 12 - 12 dB 0 - 39 1 - 40 2 Hz 0 - 99 1 - 40 2 Hz 0 - 90 1 - 90 0 - 90
	Parametric sought	ar with vibrato.	PHASE LFO WAVEFORM WOTTIME REVERB SEND BAND EMPHASIS I FC BAND EMPHASIS I C PAND FMPHASIS I C DEPTH LEO SPEED PHASE LFO WAVEFORM WITHIME REVERB SEND BAND EMPHASIS I C BAND EMPHASI	0 7 190 degree sin, tri, square 0 38 0 38 0 12 150 Hz 15kHz 0 17 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 20 1 12 12 dB 0 30 0

DSP EFFECT

		BAND EMPHASIS Fc	50 Hz	16kHz
		DAND EMPHASE 1 G		90
		MAND ENPHASES (G	-12.7	12 d8
PEQ +		THRESHOLD		
COMPR	Combines parametric equalizer, compressor, and	ATTACK SENSITIVITY	0.001 -	0.1 S
+	distortion.	RELEASE SENSITIVITY	0.001	0.1 8
DIST		DRIVE	0 -	
		ACUST,		90
-		VOLUME	· Tome State	10
		ucken chem.	1/2	
		LAND EMPHASE IFE	50 Hz =	18kHz
		BAUK EDBUARE 10		
		MAIO EMPIAMO 1 0	-12 -	12.68
PEQ		THRESHOLD	9 -	•
+	Combines peremetric equalizer, compressor, and	FATIO	• •	
COMPR +	overdrive.	ATTACK SESSITIVITY	0.000	0.15
OVERDR		RELEASE SENSITIVITY	0.001	7 9.18 3 3
		ABJUST		
		VOLUME		
		REVERS SEND		
* * * * * * * * * * * * * * * * * * *				
		MAND EMPHASE 1 Fe	90 Hz	
		BANC EMPHABLES BART BURKARSS &	1 01	20
-	The state of the s	DAVE.		12 d ü
PEQ		ADJUST		
+ DIST	Combines parametric equalizer distortion and	DELAY DRY/WET		1 90 - 7 T
+	delay.	DEATL	0 -	300 ms
DELAY		DEATA	•	300 ma
:		FERMACK I		
		VOLUME		
•		REYERS SEND		
		WAND EMPHASE I Fe.	80 Hz -	10kHz
		NAP EBRIANIS	0.1	20
		BARD EMPHASE 16	-12 -	12 dB
PEQ		ADJUST .		
+	Combines parametric equalizer, overdrive, and	CELAY DRY/WET		
OVERDR +	delay.	DELAY L	0::	300 ms
DELAY	The second of th	DELAY R	0 -	300 ms
		FEEDBACK L		. 99
		FEEDBACK R)99
		VOLUME	0 -	. 90
		REVERS SEND	· • • • • • • • • • • • • • • • • • •	- 75

		TI	FLUTE	L VARIOUS NOISE	N DRUMS & PERCUSSION
	NY INDE		Piccolo	I White Noise	Rock Bass Dr.
PROPERTY FOR PROPERTY AND ADDRESS OF THE PARTY OF THE PAR	Clas. Strings Z		Jezz Flute	HIPass Noise	Elect. Bass Dr.
	Marcato Str. 1		Classic Flute	Sax Breath 1	Dance Bass Dr.
	File Pizzicato	<u>: </u>	Alto Fliita Pan Fliita	Sax Breath Z	Housa Bass Dr
and the second second	THE RESIDENCE OF THE PARTY OF T	- 1	Recorder	Flute Breath 2	Soul Bass Dr. I Orch Bass Dr.
Modern E P	Jazz Violin		Ocarina	Flute Breath 3	Bock Snare
ENTERN EP7	Viola	T	Whistle	Harpsi key Off	I Soul Snare
TIME TO THE PERSON OF THE PERS	r - Cann	T =	Shakuhachi	Clavi kay Off	House Spare
	THE THE PARTY OF T	·¥		Organ Click	Analog Snare
THE PARTY OF THE P		II i .	The transfer of the second second second second second second second second second second second second second	Slap Shot	Piccolo Snare
AND THE PROPERTY OF THE PARTY O	Particular William The Particular Th	<u> </u>	A PROPERTY OF THE PROPERTY OF THE PROPERTY OF	Pick Noise 1	Orch Snare
THE PROPERTY OF THE PARTY OF TH	Example In A	<u> </u>	Acquistic Bass Mallow Ac Bass	Pick Noise 7	Reverse Snare
			Flactric Hass	Pick Noise 3	Melodic Tom
		7	Bright E.Bass	Gtr.Resonanse 1	Electric Tom Elect.Bass Tom
is lockenspiel	GRGAN & ACCORDION	II.	Fusion E.Bass	Gtr.Resonanse 2	Analog Tom
	Language Vacc Lineau		Funky E Bass	Ambient Hammer	Brush Short
er engles from the fill the fr Frank in the fill the fr	Full Drawbars	<u> </u>	Fretiess Bass 1	Hammer	Brush Long
The Halle Halle	Lazz Drawbars	5 E xi	Fratiese Bass 2	The state of the s	Rim !
CHINA BROWN TERROR SECTION AND PROPERTY OF	BOOK SHOWS IN THE TAX TO THE TAX	1	Picked E.Bess	M SOUND EFFECTS	Rim 2
Milabhone	IN A R		Mute Bass	<u> </u>	Rim 3
	Pipe Organ 1		Step Bass 1 Pull Bass 1	Scratch 1 Scratch 2	HiHat Closed 1
Committee Marinida	Pipe Organ 2		Siep Bass 2	Voice Ah	HiHat Closed 2 HiHat Open 1
African Mallet	Brt Accordion	-}	Pull Bass 2	Voice Yeh	HiHat Open 2
water and the company of	Mel.Accordion	Ţ	Analog Bass	Bird 1	Crash Cymbal
	Andrew Musette	4-	Soul Bass	Bird 2	Splash Cymbal
		= : :	Synth Chopper	Bird 3	China Cymbal
	BRASS	+	Click Bass	Bird 4	Orch.Cymbal
THE STATE OF	Brass 1	<u> </u>	Dance Bass	Gun Shot	Ride Cymbal 1
	Brass 2	-	House Bass Plastic Bass	Helicopter Telephone	Ride Cymbal 2
SPUIK CUITEY	Trumpet 1	**************************************	r idatic pass	Applause	Ride Bell Reverse Cymbi 1
LINCTIO AC GIT	Trumpet 2	1 .	****************	Seashore	Reverse Cymbi 2
· · · · · · · · · · · · · · · · · · ·	Orch Trumpet	∤K	SYNTH BASICS		Conga 1
orioni Solid	Mute Trumpet 1		Click Sine	His control of the co	Conge 2
MILIOW Solid	Mute Trumpet Z	1 -	Sine Waye		Bongo
Lleen Solid	Flucial Horn	#	Triangle Wave		Timbales 1
	Cornet Pr. Trambone	幸寸	Sawtooth Wave Square Wave		Timbales 2
- UNK MUTA TITE	T MAI Trombone	. <u> </u>	Pulse Waye I	Light of the second of the sec	Samba Drum Samba Drum Mute
- गक्तारसभा स्तिर	rer : Mula Trombone	1.	Pulsa Waya Z	日集 ~ . 2005년 5년 - 전환화기 등 고급(李宗本記) 교수의 목 교 ↓	Wood Block
	THE PHOPE	<u>i </u>	Pulse Wave 3		Claves
MARK Hermonics	tom Fr.Horn	Ţ	Pulsa Wave 4		Castanets
(912 - 101 H	រូបព្រឹ	Ţ -	Pulse Mod.		Slap
Hawaiian Gir.Z	Anatog Brass	<u>.l</u>	Organ Bell		Hand Claps
	Saw Brass	ŀ	Bright Bell Digi Lead	\	Maracas
		i —	Digi Wire	** ** * * * * * * * * * * * * * * * *	- Cabasa Shaker
PECIAL PERCUSSION	H REED	1	Crystal Wave		Guiro Short
	Sopreno Sax	Ī	Bell Ped	T	Guiro long
- Mandolin'	Alto Sax		Fog Vox	요	Cuice 1
	Mel.Alto Sax		Mellow Ens.		Cuica 2
Orchestre Hit	Tenor Sax 1			-}	Triangle Mute
Music Box	Rock Tenor Sex		and the state of the		Triangle Open
Kill	Haritone Sax				Agogo Cowbell
Anamiaen	Jazz Clarinet 1	Ī		Figure 1 to 1976 the Paris grave of	Sleigh Bell
	Jezz Clarinet 2	1		·	Tambourine 1
A CONTRACTOR OF THE PROPERTY O	Clas.Clarinet	Ī		efermina en en en elemente en	Tambourine 2
LAMBERT TO THE STATE OF				the state of the second	Orch,Temb.
		1		The second section is a second section of	Crickets
	Egglish Horn	T.	and combine in an arrangement and a second	a management of the contract o	Vihrasian
	- · · · · · · · · · · · · · · · · · · ·	<u>+</u>			Samba Whistle
				 	with thim A
		1			

DIGITAL EFFECT

EFFECT	PARAMETER	RANGE	EFFECT	PARAMETER	RANGE
	DEPTH	6 - 86		DEPTHI	- V
	SPEED	0 - 10		APEGDI	0 - 50
	DETUNE	-80 - +80	ORGAN TREMOLD	DEPTHO	. O - 00
CELESTE1-2	DELAY	0 - 50	OUGNA INCHOER	SPEED2	0 - 60
	BALANCE	0 - 100		INTENSITY	-10 - +04
	INTENSITY	-50 - +50		REVERS DEPTH	-6 - +6
	REVERS DEPTH	-5 - +5		DELAY	0 - 10
	DEPTH	0 - 50		DETUNE	
	SPEED	0 - 50	SINGLE DELAY	KEY SHIFT	-24 - +24
	DETUNE	-50 - +50		BALANCE	0 - 100
CHORUS1-2	DELAY	0 — BQ		NTENSITY	-8 - +00
	BALANCE	0 - 100		REVERB DEPTH	-11
	INTENSITY	-50 - +50		SPEED	A
	REVERB DEPTH	-5 - +5		DECAY	1 - 30
	DEPTH1			SUSTAIN	
	SPEED!	0 - 50	REPEAT DELAY	RELEASE	6 - 30
	DEPTH2	0 - 50		INTENSITY	-55 - +85
	SPEED2	0 - 50		REVERS DEPTH	
ENSEMBLE1-2	DETUNE	-50 +60			
	DELAY	0 - 50		DISTORTION	ON / OFF
	INTENSITY	-50 - +50		TOUCH DEPTH	0 - 50
	REVERB DEPTH	-5 - +8	SOLO EFFECTI	DEPTH	0 - 100
				REVERS DEPTH	-8 - +8
	DEPTH	0 - ::: 50 :			ļ
	SPEED	0 - 50		DISTORTION	ON / OFF
TREMOLO	WAVE	SIN/TRI/SOR/SAW		TOUCH DEPTH	0 - 56
	BALANCE	0 - 100	SOLO EFFECT2	DEPTH	6 100
	INTENSITY REVERB DEPTH	-50 - +50		INTENSITY	
	NEVERBUEPIH	-5 - +5	7	REVERS DEPTH	-6 - +5

	and the second			omatestitise -	ad annihilität Verse	A CES FIRE		Transmitte
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	PARTI	ACMPI	ACMPZ,3	BASS	DRUMS	CHORD	CONTROL	Remarka
		1-16	1-18	1-16	1-16	1-18	1-16	memorized
	Telef A.	1-10 header /: : : : : : : : : : : : : : : : : : :	1-10	1-10	1-10		THE STATE OF THE S	A LONG COME DE LA COME DEL COME DE LA COME DE LA COME DE LA COME DE LA COME DE LA COME D
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網接發換機器開發各種機能的4.12至至 時11度 [[]]	0-119	0-119	0-119	0-119	0-179 -32 - 242 / -	0-119		Changes depending on the position of the transpose control, octave shift, and
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- etc. "Id subsecution". I Planta Clark a Alexander - etc.		12276		13.	X	Ox.	×	modulation
		康()	Ox*	OXT	OX.	OX.		volume
E CHILD OX .	Ox.	O×.	Ox.	Ox.	O×.		x	panpot expression
BETT OX	×	Ox.	Ox*	O×*	×	x	×	sustain
		Ox.	X	X	OX:	. x .	X	auto play chord intro, fill in, ending
		EDX*	OX.	Ox*	Ox.	Ox.	Ox.	reverb
		X X	Ox.	O×.	×	Ox*	×	DSP effect digital effect
AND THE RESERVE OF THE PROPERTY OF THE PROPERT	44.65		X	×	x	×	×	RPN LSB, MSB
	ox:	X	×	XX	X	X	X	all sound off
elitari den de la mandade de la como de la c	# 명기가 생한 - 최선 선택## (
VAC T	T.UX".	IDX:			Ox.	Ox.	A 1.75	Changes depending on program change mode
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	residents - 1	2252	- LUTU E TS-MET	- waters and a	NEW OF LIFE	and the s		
								The second secon

Mode 2: OMNI ON, MONO

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MIDI Implementation Chart

Keyboard [SX-KN3000]

(Recognized)

Fu	inction	RIGHT1,2,LEFT, PART4~15	PART16	ACMP1	ACMP2,3	BASS	DRUMS	CHORD	CONTROL	Nomerica	
esic	Default	1-16	1-16	1-16	1-10	1-18	1-16	1-16	1-16	memorized	-
hannei	Changed	1-16	1-16	1-18	1-16	1-16	1-18	1-16	1-16	기술() - 사람들() () 사람이 ()	
	Default	3	3	3	3	*	3.	3	3	OMNI OFF, POLY M	ODE
Aode	Messages	×	x .	×	×	×	×	- × :-	×		
	Altered	-		_	_	딒블루				in in the state of	
lote		0-127	0-127	0-127	0-127	0-127	0-127	0-127		Changes depending o	n the
lumber	True voice	0-127	0-127	0-127	0-127	0-127	0-127	0-127		Changer signeding of position and the training control or the shift drums bype.	end
	Note ON	0	0	0	0	O	0	O	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · ·
/elocity	Note OFF	×	×	×	×	×	. Y	×			. /2
		×	×			~~~		×			÷;
lfter 	Key's			×	. X		×	.			· ::.
ouch	Ch's	Ox.	×.	X	** **********************************	×	×	×			
itch Bend	d	O×.	. ×	Ox.	Ox.	ox.	×	Ox.	×	\$50 E	
	0,32	O×*	o×.	O×.	Ox.	O×.	O×*	O×.	*	benk edect MSB, I	LSB
	1	o×.	×	O×.	Ox.	O×.	×	ox.	×	modulation	
	6,38 7	o×.	ox.	OX.	O×.	O×.	O×*	O×*	×	dete entry M88. L	.35
	10	Ö×÷	×	ŏ×.	Q×.	ŏ×.	X	7 X	of top of the state of the sta	penpot	+
	11	Öו	o×.	Ox:	Ox.	Ox.	Ox.	. X	O×.	expression	ř
control	64	o×.	×	O×*	Ox.	O×.	1. X	*	×	sustain	
henge	80	×	×	O×.	*	×	OX*	×	×	auto play chord	
eren Am	82 91	o×.	O×*	OX*	OX.	o×.	Ox.	O×.	O×"	intro, fill in, endir	7
_	- 93	Öו	Öו	×	×	×	X.	×	×	DSP effect	
	94	oו	×	Oxt	O×.	O×.	*	Ox*	×	digital effect	
	100,101	O×.	×	×	×.	X	×	* X	**	RPN LSS, MSS	. :
	120	0	0	0	0	_0	0	0	×	all sound off	:
·	121	o×.	O×.	Ox.	Ox.	O×.	Ox	O×.	×	reset all potrollers	100
rog		O×*	Ox.	Ox*	Ox.	Ox.	Ox.	Ox.	×	Changes depending program change a	
henge	True #	0-127	0-127	0-127	0-127	0-127	0-127	0-127		and prog,eng to p	
ystem ex	xclusive				0						#
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System	Song Sel	1		. 6)×* (0-16	n Tale					4.
nommon	-			- 1 2127 - 1 2127		r e 	<u> </u>				i qi
	Tune	 		: 	×			<u> </u>		1. √(pr. 1.44	
System	Clock				0						
Real Time	COMMINGING				Ox.	 	es distrib	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		start/step.contin	ue
	Local ON/OFF	×	×	×	×	×	×	×			
Aux	All notes OFF	0	0	. 0	0	. 0	0	0			
Vessages	Active Sense				O		-		I		
	Reset			· · · -	×			· ·	· .		
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				_						-,	
Notes		O×*W	hether or	not the d	ata for ea	ch of the	i tema li	received	can be a	rt.	-
		1			•			+ ++ ++		ing and the second seco	

Mode 1:

OMNI ON, POLY

Mode 2:

OMNI ON, MONO

):Yes

Mode 3:

OMNI OFF, POLY

Mode 4:

OMNI OFF, MONO

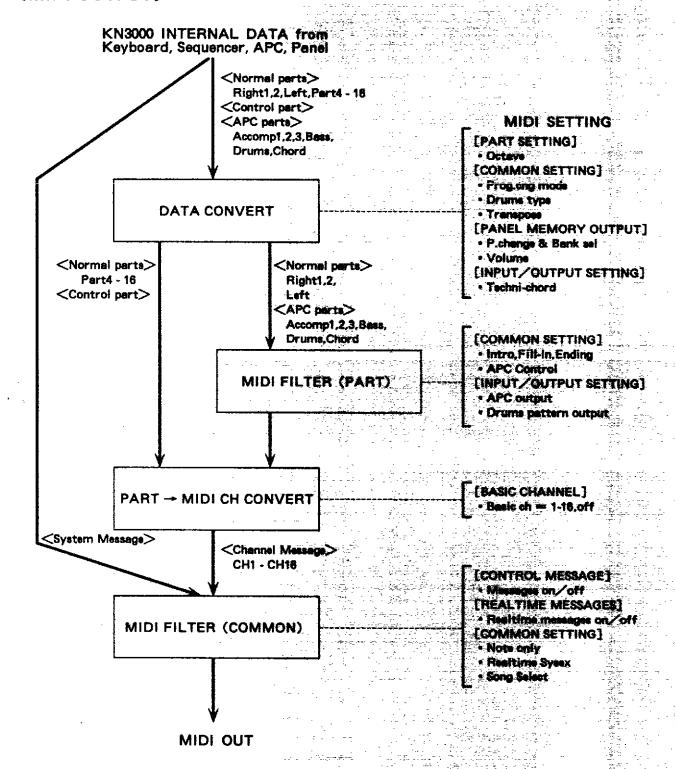
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≣ : ± 7 420	्राप्तक्रम् स्थापना च्या १९६८ - १९५५ - १९५ - १९५ - १९५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५	PULL SETTING
THE TER COMM	JON)	[CONTROL MESSAGE] • Messages on / off [REALTIME MESSAGES] • Real time message on / off [COMMON SETTING] • Note only Real time Sysex
一		
	Chi - Chi6	
MIDI CH → PART COI	VVERT -	[BASIC CHANNEL] - Basic ch = 1-16,off [INPUT/OUTPUT SETTING] - Right1 input
	APC perts > Accomp1.2,3,Bass	
Pery Je Mic	Drums,Chord	[COMMON SETTING] • Intro,Fill-In,Ending • APC Control [INPUT/OUTPUT SETTING] • APC input
日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	The state of the s	[PART SETTING]
DATA CONVER		[COMMON SETTING] Prog.eng.mode Drums type

<MIDI OUTPUT>



			Transminantina
Table Section (1997) and the section (1997) a			
FOR THE REPORT OF THE LOCAL PROPERTY OF THE PARTY OF THE	DEH RUH	Control change status Data entry (MSB)	
		Data entry value (MSB)	
	. (HoH)	Control change status	
74H. Note number	SETT.	_ Data entry (LSB)	
		Data antry value (LSB)	****
There are need diffine transmission: 300 2	- 1	Recognition of the Recognition o	r is named
**************************************	4-2	Values conform to the parameters	
* > LELLIS		mention the RPN	
	e E. c. To . YY		· · · · · · · · · · · · · · · · · · ·
Note number	BnH U7H	Control change status	-17-75
	VIII	Part volume value	
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2: IIIII - 78H Note nimber		10H — 7FH 1992 — 1994 — 1994 — 1995 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994	
-1H MATO ATT	Panoni		
		e de la companya de la companya de desta de la companya de la companya de la companya de la companya de la com La companya de la co	CHINE PHARM
<u>อาณ ติวิสทีนิด</u> - การการการการการการการการการการการการการก	1 1 2011	Control change status	ļ
ESTEED July 1000年 中央上海市地區的大阪 地名美国西班牙克斯克斯特里 中国人民国	T- 1 0411	Panpot Panpot value	
Cantral Change Status	n: (J-r Basic channel	ر الانت المن الد المناسخة المناسخة
Barik select value (MSB) Control Charge Status Hone select (LSB) Hank select (LSB)	Rece	00H-7FH ption of ACCOMP 1.2.3 and BASS pand ssible only during COMPOSER record.	of
	recesse Expres	(ing known and some some state of the same stat	
Basic channel			
	I I RUH	Control change status Expression	<u></u>
mode is set to Normal mode or	I IVV	Expression value	
TOTAL SERVICE CONTROL OF THE PROPERTY OF THE P	Land Barbara Barbara	and the second of the second o	nm are
Merentian of ALTIJMP.T.Z.S.BASS and IJEUMS	-	1-F Basic channel	
TREMERT TO THESE THE DOMESTER OF THE PROPERTY			MEANT ALTER
22.66	PERMIT	expression for the CONTROL part is the	
GIBERTION CONTRACTOR OF THE CO	·*************************************	ation.	- W1 L -1.
L Control chance status			·
T.MOQUISTION	†∵- f ert≦in		
I Wodulation depth value	BnH	Control change status	
# Transaction (Management of the School of		Sustain on off	
Substitution Kasic channel	· I VY	Sustain on off	224
		Basic channel	
	- 1-4 - 1-4 - E TT ((00H-3FH (00H) Off	
		iüH-7FH (7FH) On	
	LA TITAL	smitted data is indicated by parentheses	C).
		ution of ACLOMP 1.23 and BASS stists	

Auto Play Chord

BnH	Control change status	
50H	APC message	
VV	APC message value	-

0-FBasic channel n: 00H =Offvv: =FINGERED 01H -ONE FINGER 02H 03H = PIANIST

•Transmitted / received on the basic channel for the ACCOMP 1 part.

Rhythm control

BnH	Control change status		
52H	Rhythm control message		
ΨV	Rhythm control data	* * *	
			

0 - FBasic channel n: 00H = off vv: 01H =FILL IN 1 02H = ENDING 1 03H =INTRO1 05H =FILL IN 2 06H = ENDING 2 07H = COUNT INTRO 08H =INTRO 2

•Transmitted / received on the basic channel for the DRUMS part.

Reverb

BnH	Control change status	
5BH	Reverb	
٧v	Reverb on/off	

Basic channel vv (CONTROL part): 00H-3FH (00H)

40H -- 7FH (7FH) On

vv (Other parts): 00H-7FH

•Transmitted data is indicated by parentheses():

The Reverb for the CONTROL part is the total reverb.

Digital effect

			1.1.2 per 1.20 (2.1.20)
BnH	Control change status		
5EH	Digital effect		
vv	Digital effect on off	V.,	350 F 10

n:

Basic channel

00H-3FH (00H) Off 40H-7FH (7FH) On

•Transmitted data is indicated by parentheses()

 Transmission/reception of the DIGITAL EFFECT for ACCOMP 1,2,3 and BASS is possible only during COMPOSER record.

DSP effect

PRE	Gontrol change statue

Basic channel

00H-7FH VV:

Transmitted data is indicated by parentheses()

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mm, il : The most agnificant byte (MSB) and lee significant byte (LSB) of the parameter number specified for the RPN.

The RPN which can be transmitted/received are Pitch Bend Sensitivity, Fine Tuning, Course Tuning Corresponding respectively to the Fitch bend Range, Tuning and Key Shift of the KN3000), and RPN reset

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# About the KN3000 MIDI exclusive Outline of KN3000 MIDI exclusive

Technics MIDI exclusive CM off

Technics MIDI exclusive Central Control ### Universal system exclusive Message formet

### Turn General MIDI System On:

FOH	Exclusive status
7FH	ID of target device (7F:Broadcast)
09H	sub-ID #1 = General MIDI message
01H	sub-ID #2 = General MIDI on
F7H	EOX

### Turn General MIDI System Off

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### Technics MIDI exclusive Message format

### Type of messages and their forms

		1,520.1
SOX	Exclusive status	
IDC	Technics ID number	선생님 기계에
CMD	Command ID	
PC	Keyboard category ID	
MD	Model differentiating ID	
VER	Exclusive version ID	
[data]	Body of data	
EOX	End of exclusive	
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Messages are transmitted in order, beginning with SOX, IDC, etc. and continuing to the end. The form of the transmission message differs depending on the type of command.

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### Classification of individual data and data dump areas

### Individual data area:

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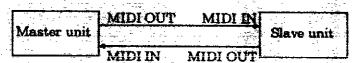
### Date dump area:

Sound Mem	ory (Header + Parameter)	
Panel	(Panel data + Panel Memory)	
Composer	(Location + Header + Performance	•
Sequencer	(Location + Header + Performance	<b>)</b>

### One-way transmission and handshake transmission

In one-way transmission, communication takes place in one direction only, that is from the master unit to the slave unit.

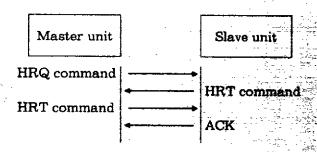
In handshake transmission, the transmission status between the master unit and slave unit is being confirmed during data transmission. For this reason, a MIDI cable connection from the slave unit to the master unit is also necessary. In comparison to one way transmission, handshake transmission is faster.



In the KN3000, the transmission mode is switched automatically between handshake transmission and one way transmission. Communication begins with handshake transmission, and if there is no response from the slave unit within a given time, communication switches automatically to one-way transmission.

### Communication sequence between master unit and slave unit

### Comunication sequence of handshake confirmation



### HRQ command: handshake request

SOX	F0H
IDC	50H
HRQ	21H
PC	01H
MD	20H
VER	10H
EOX	F7H

### HRT commend: handshake routine

SOX	POR
IDC	50H
HRT	22H
	OH:
MD	20H
YER	<b>MH</b>

### ACK: Acknowledge

	SOX	PH
	IDC -	501
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- *There is no SND command.
- If there is no response from the slave unit to the master unit even after the above handshake confirmation routine is performed three times, it interpreted as mability to transmit handshake transmission data, and the transmission mode awayches to one-way transmission (in the case of a MID) sequencer, etc.)

  Handshake communication is possible only
- Hazzlebake compunication is possible only during data damp.

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### END PART PARAMETER

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TOTAL SENSITIVITY   30.54   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4   0.4
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### PART CHRIMIN REAL TURE    WW UI
CARD BRANK SELECT   00-07F   00-255
WW W U   TOTAL EXPRESSION   00-7F   00-127   00H:0ft 01H:00   00H:00   00H:0ft 01H:00   00H:00   00H:
00 - 01   TECHNI-CHORD ON / OFF   0 - 0   0   0   0   0   0   0   0   0
### M 60 01 TECHNILCHORD TYPE
### 1
### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME  ### SPECIAL REAL TIME
Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Processor   Second Proc
10
11H:Room Reverb2   18H:Bright Reverb1   19H:Bright Reverb2   13H:Plate Reverb2   13H:Plate Reverb2   13H:Plate Reverb2   13H:Plate Reverb2   13H:Wave Reverb2   13H:Wave Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Reverb2   15H:Concert Rever
13H:Plets Reverb1   14H:Wave Reverb1   15H:Conerr Reverb1   15H:Conerr Reverb2   15H:Conerr Reverb2   15H:Conerr Reverb2   16H:Dark Reverb1   09H:Single Delay   09H:Single Delay   09H:Single Delay   09H:Single Delay   09H:Modulated Chorus   03H:Enhancer   03H:Enhancer   03H:Enhancer   03H:Single Delay   09H:Single
15H.Concert Reverb2   16H.Dark Reverb2   16H.Dark Reverb3   16H.Dark Reverb3   16H.Dark Reverb3   16H.Concus   16H.Concu
UPT_EFFEC_LYPE
02H:Modulated Chorus   35H:Rotary Spacker   03H:Enhancer   36H:Ring Modulator   38H:Ring Modulator   04H:Flanger   38H:Mix up   05H:Pheser   40H:Single Delay * Chorus   05H:Pheser   40H:Single Delay * Single Delay   05H:Ringle Delay * Single Delay * Single Delay * Flanger   05H:Ringle Delay * Vibrato   05H:Multi Tap Delay   42H:Single Delay * Vibrato   05H:Multi Tap Delay   44H:Single Delay * Vibrato   05H:Multi Tap Delay   44H:Single Delay * Vibrato   05H:Multi Tap Delay   44H:Single Delay * Vibrato   05H:Multi Tap Delay   05H:Multi Tap Dela
04H:Flanger   38H:Mix up   105H:Phaser   40H:Single Delay * Chorus   104H:Gasted Rsverb   40H:Single Delay * Single Delay   104H:Single Delay * Flanger   104H:Single Delay * Phaser
08H:Ensemble 41H:Single Delay * Single Delay * GH:Gated Reverb 42H:Single Delay * Flanger GH:Gated Reverb 42H:Single Delay * Flanger GH:Single Delay * Vibrato GAH:Multi Tap Delay 44H:Single Delay * Phaser 47H:PEO * Chorus 47H:PEO * Chorus 47H:PEO * Chorus 47H:PEO * Chorus 47H:PEO * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single Delay * Single D
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22H:Fuzz 23H:Exciter 23H:Exciter 49H:PEQ* Flanger 48H:PEQ*
24H:Compressor 4AH:PEQ * Vibreto 25H:Slow Attacker 4BH:PEQ * Compressor 27H:Peremetric Equalizar 50H:PEQ * Compressor 30H:Auto Pan 81H:PEQ * Cmprs * Distortion 30H:Auto Pan 81H:PEQ * Cmprs * Overdrive 82H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay  83H:PEQ * Overdrive * Delay  83H:PEQ * Overdrive * Delay  83H:PEQ * Overdrive * Delay  84H:Compressor 4AH:PEQ * Compressor 27H:Peq * Compressor 30H:Auto Pan 81H:PEQ * Cmprs * Overdrive 83H:PEQ * Overdrive * Delay  83H:PEQ * Overdrive * Delay  84H:Compressor 4AH:PEQ * Compressor 27H:Peq * Compressor 30H:Auto Pan 81H:PEQ * Cmprs * Overdrive 83H:PEQ * Overdrive * Delay  83H:PEQ * Overdrive * Delay  84H:Compressor 27H:Peq * Compressor 30H:Auto Pan 81H:PEQ * Cmprs * Overdrive 83H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay 83H:PEQ * Overdrive * Delay 84H:Compressor 84H:PEQ * Compressor 84H:PEQ * Compressor 85H:PEQ * Cmprs * Overdrive 83H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:Vibrato 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * Delay 85H:PEQ * Overdrive * D
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30 H. Auto Pan 32 H. Vibrato  81 H. PEQ * Cmprs * Overdrive 62 H. PEQ * Distortion * Delay 63 H. PEQ * Overdrive * Delay 63 H. PEQ * Overdrive * Delay 63 H. PEQ * Overdrive * Delay 64 H. Vibrato  84 H. PEQ * Cmprs * Overdrive * Delay 65 H. PEQ * Overdrive * Delay 66 H. PEQ * Cmprs * Overdrive * Delay 67 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 68 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Delay 69 H. PEQ * Cmprs * Overdrive * Ov
BLYTHM PROG CNG  BLYTHM PROG CNG  OC-FF  OC-FF  OC-FF  OC-S5  ORT '2  ORT '2  ORT '3
### ### DSP EFFECT to REVERB send value   00-99  FGFU SPECIAL REAL TIME   00-7F   0-127   0RT '2    BHYTHM PROG.CNG   00-FF   0-255   00-03   00H;0ff   0RT '3
BHYTHM PROG. CNG 00-7F 0-127 ORT '2  OFF 0-255  OFF 0-03 00H; Off ORT '3
BHYTHM PROG CNG 00-7F 0-127 ORT 2 00-FF 0-255 00-03 00H;Off ORT 3
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ORT 4 00H OFF 01H On ORT 4 ORT 4
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### **HOW TO USE MIDI PRESETS**

The KN3000 can be connected to any MIDI equipped musical instrument.

To connect the KN3000 to another instrument use a standard MIDI cable and connect the MIDI OUT socket of the MASTER UNIT (the one you are playing) to the MIDI IN socket of the SLAVE UNIT.

MIDI Presets are designed to help you set up the KN3000 quickly and easily for use with various other instruments.

There are two pages of MIDI Presets, the first with the KN3000 as the master unit and the second with the KN3000 as the slave. On the appropriate page highlight the other product type that you are using and select whether or not you want to use Auto Play Chord, and press OK.

Many applications are very simple, but the following guidelines should be helpful with more complicated setups.

### MINIDI PRESETS FOR CONNECTING AN ORGAN TO THE KN3000 USING AUTO PLAY CHORD.

MAST	ER UNIT	MICH PRESET
EQUIPMENT	PLAY STYLE	TYPE
ORGAN (ALL)	FINGERED	MASTER : ORGAN TYPET WITH APC
ORGAN (ALL)	ONE FINGER*	MASTER ORGAN TYPES WITH APC

^{*} TURNON ONE FINGER(FA/GA/EA) OR FINGERED 1(OTHERS) AND TURNOOWN APC VOLUME ON THE ORGAN.

### MINIDI PRESETS FOR CONNECTING AN ORGAN TO THE KN3000 WITHOUT AUTO PLAY CHORD.

MASTE	R UNIT	MIN PRESET
EQUIPMENT	PLAY STYLE -	TYPE
ORGAN (FA/GA/EA)		MASTER : ORGAN TYPE2 WITHOUT APC
ORGAN (OTHERS)		MASTER : ORGAN TYPE! WITHOUT APC

### IIIMIDI PRESETS FOR CONNECTING THE KNAGOO TO AN ORGAN USING AUTO PLAYCHORD.

SLAV	E UNIT	SIO PRESET
EQUIPMENT	PLAY STYLE	APC -
ORGAN (FA/GA/EA)		BLAVE : ORGAN TYPE2 WITH APC
ORGAN (OTHERS)		BLAVE : ORGAN TYPE! WITH APC

### IMIDI PRESETS FOR CONNECTING THE KN3000 TO AN ORGAN WITHOUT AUTO PLAY CHORD.

SLAVE	UNIT	MIDI PRESET
EQUIPMENT	PLAY STYLE	APC
ORGAN (FA/GA/EA)		BLAVE : ORGAN TYPE2 WITHOUT APC
ORGAN (OTHERS)		BLAVE : ORGAN TYPE1 - WITHOUT APC

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			ENGLISHE PROTECTIONS OF AN ALL
		WATUU GII K	



### **GENERAL MIDI SETTINGS**

### SOUND

P.CNG#	SOUND NAME	P.CNG #	SOUND NAME	P.CNG#	SOUND NAME	P.CNG	SOUND NAME
1	Piano	33	Acoustic Bass	66	Soprano Sax	97	to Asin
2	Rock Pieno	34	Bright E.Bess	58	Alto Sex	96	Soundtrack
3	Electric Grand	35	Picked E.Bass	67	Tenor Sex	99	Synth Glocken
4	Honky-Tonk Piano	36	Fretiese Bass	<b>(8</b> )	Beritone Sex	100	Atmosphere
5	E.Pieno 1	37	Slap Bees 1		Obce	301	Med
6	Modern E.P.1	38	Slap Bass 2	74	- English Hern	102	Cobline
7	Herpsichord	39	Wow Bass 1		· Dalbin	108	Reho Drops
8	Clavi	40	Synth Chopper	5 <b>7</b> 1		104	There
9	Celesta	41	Violin			14	
10	Głockenspiel	42	Viole	1	Jane Flute	106	dinjo
11	Music Box	43	Cello	75	Recorder	107	Shamisen
12	Vibraphone	44	Bowed Bass	70	Pan Flute 1	108	Koto
13	Marimba	45	Tremolo Strings	77	Blown Bottle	109	Kelimba
14	Xylophone	46	Pizzicato Str.	78	Shekuhechi	110	Begpipe
15	Tubular Belis	47	Harp	79	Whitele	111	Fiddle
16	Dulcimer	48	Timpani	-86	Ocarine	112	Shanai
17	Full Drawbars	49	Classical Strings	61	Squere Leed	113	Tinkle Bell
18	Jazz Organ	50	Slow Strings	87	Saw Lead	114	Agogo
19	Rock Organ	51	Synth Strings 1	83	Synth Celliope	115	Steel Orum
20	Pipe Organ 1	52	Synth Strings 2	84	Chiffer Leed	116	Wood Block
21	Harmonium	53	Vocal Ah	85	Chereng	117	Taiko Drum
22	Bright Accordion	54	Vocal Doc	96	Air Vox	118	Melodic Tom
23	Blues Harmonica	55	Synth Vocal	87	Sth_Wave	119	Synth Drum
24	Bandoneon	56	Orchestra Hit 1	88	Bass & Lead	120	Reverse Cymbal
25	Jazz Ac.Guiter	57	Trumpet 1	29	Fantasia	- 121	Fret Noise
26	Folk Guiter	58	Bright Trombone	90	Mellow Ensemble	122	Breath Noise
27	Jazz Gultar 1	59	Orchestral Tube	91	Polysynth	123	Seashore
28	Bright Solid Gtr	60	Harmon Mute Tpt	92	Spacy Pad	124	Bird Tweet
29	Mute Guiter	61	Open Fr.Horn	93	Bowed Glass	125	Telephone
30	Overdrive Guitar	62	Bress	94	Metal Pad	126	Helicopter
31	Distortion Gtr	63	Synth Brass 1	94	Halo Pad	127	Appleuse
32	Rock Harmonics	64	Mellow Synth Brese	96	Sweep Pad	128	Gun Shot

### **Parts**

Parts	Parts  MIDI CHANNEL 1 2 3 4															
	1	2	3	4	5	8	7	8	Ð	10	Î	12	- 13	14	15	10
PART	R1	R2	L	P4	P5	P8	<b>P7</b>	P8	PS	PIS	Pit	P12	P13	P14	P15	P10
SEQUENCER TRACK	1	2	3	4	5	0	7	8	9	10	11	12	13	14	15	16

### ■ Non-working Function

DEMO, RHYTHM GROUP, ONE TOUCH PLAY/MUSIC STYLE SELECT, MUSIC STYLE ARRANGER, PANEL MEMORY, TECHNI-CHORD, AUTO PLAY CHORD, COMPOSER, SOUND ARRANGER, SOUND EDIT- etc.