## **Technics**

KEYBOARD

sx-KN720 sx-KN920 sx-KN1500



ENGLISH

QQTG0406A

#### [KN1500]

#### 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 convenience.

A 5 amp fuse is fitted in this plug.

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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-

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: Neutral Brown: Live

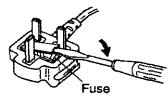
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

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  $\frac{1}{2}$ .

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



## OWNER'S MANUAL

## Caution (KN1500)

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

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 PAGES 2 AND 3.



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 KN 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, MIDI, etc.

REFERENCE GUIDE (separate booklet)

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

## Cautions for safest use of this unit

## (KN720/KN920)

**10** (3) (4) (4) (5) (4) (5)

#### **Installation** location

- 1. 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.
- A place where humidity, vibration and dust are minimized.

## 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, contact the store where the unit was purchased.

### If water gets into the unit

Contact the store where the unit 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, 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 amp is located inside the unit, it is normal for the cabinet to become warm.

## 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-chemical-based polishes.
- A wax-based polish may be used on the cabinet, although you will find that rubbing with a soft cloth will suffice.

## When using the AC adaptor

#### 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.
- Unplug the power cord if the unit will not be used for a long time.

## Handling the power cord

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

## 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.

SERVICE MUST BE CARRIED OUT BY DEALER OR OTHER QUALIFIED PERSON

## Cautions for safest use of this unit (KN1500)

#### **Installation** location

- 1. 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.
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- A place where humidity, vibration and dust are minimized.

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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.

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- A wax-based polish may be used on the cabinet, although you will find that rubbing with a soft cloth will suffice.

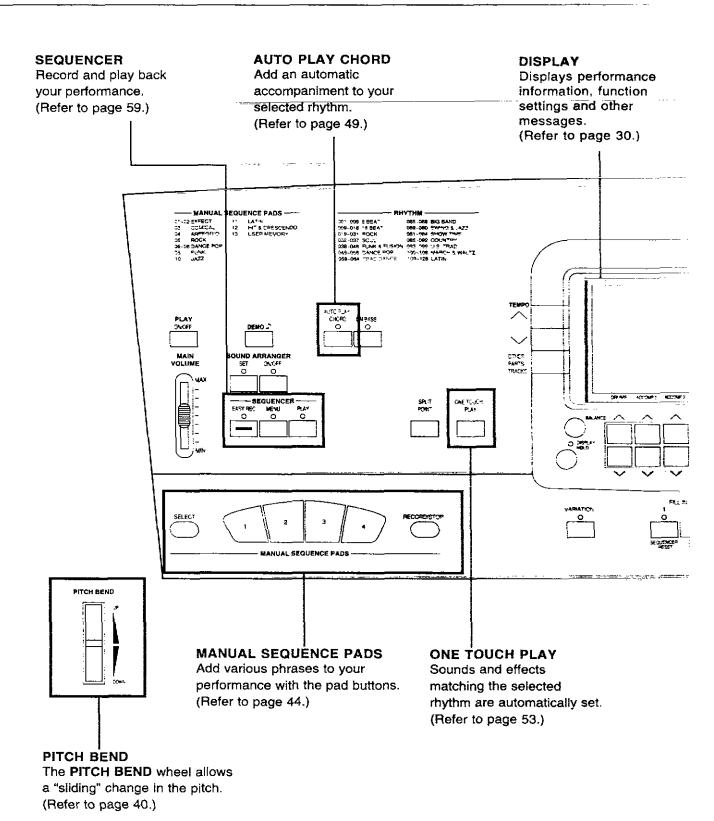
## SERVICE MUST BE CARRIED OUT BY DEALER OR OTHER OUALIFIED PERSON

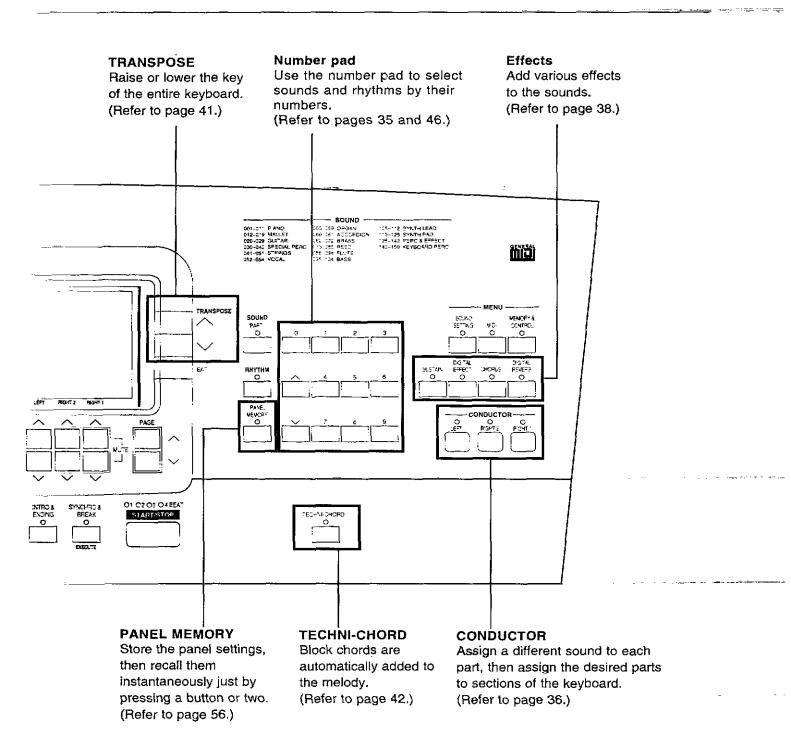
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## Controls and functions (KN720)

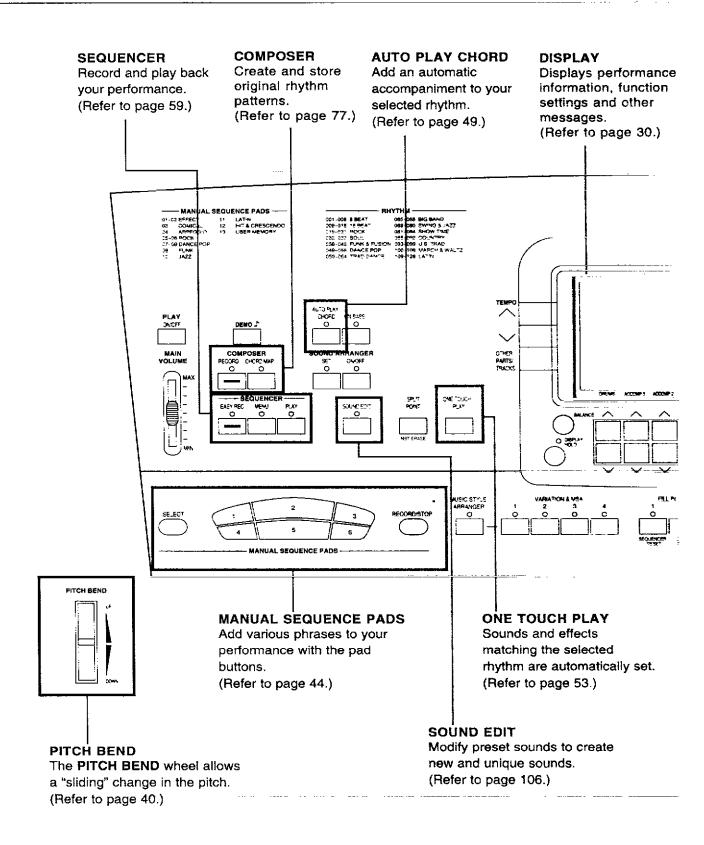


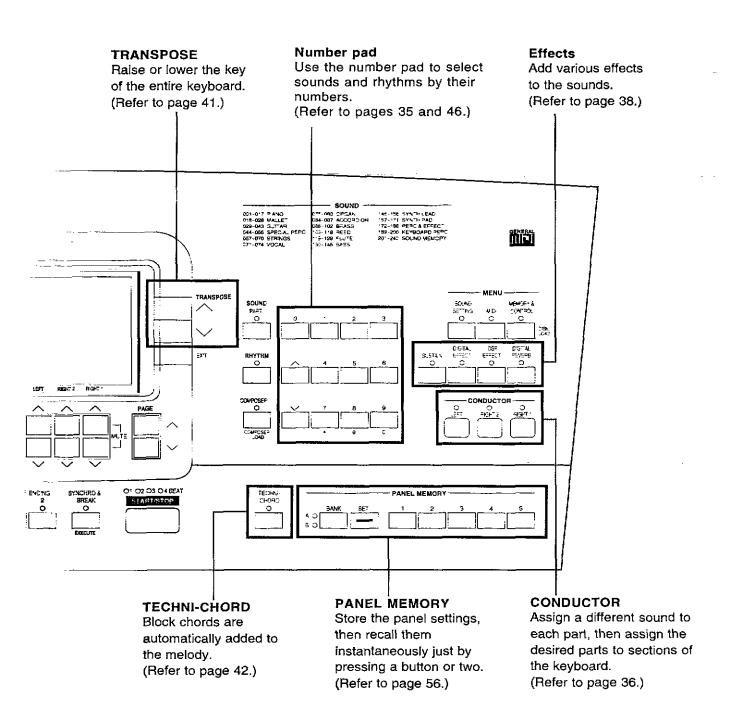


#### **Backup memory**

The various stored memories and function settings are preserved even if the **PLAY** button is turned off, as long as power is being supplied through the AC adaptor or the batteries. If the power supply to this instrument is discontinued (either through the AC adaptor or the batteries), the various memories and settings will be cleared after about 10 minutes.

## Controls and functions (KN920)



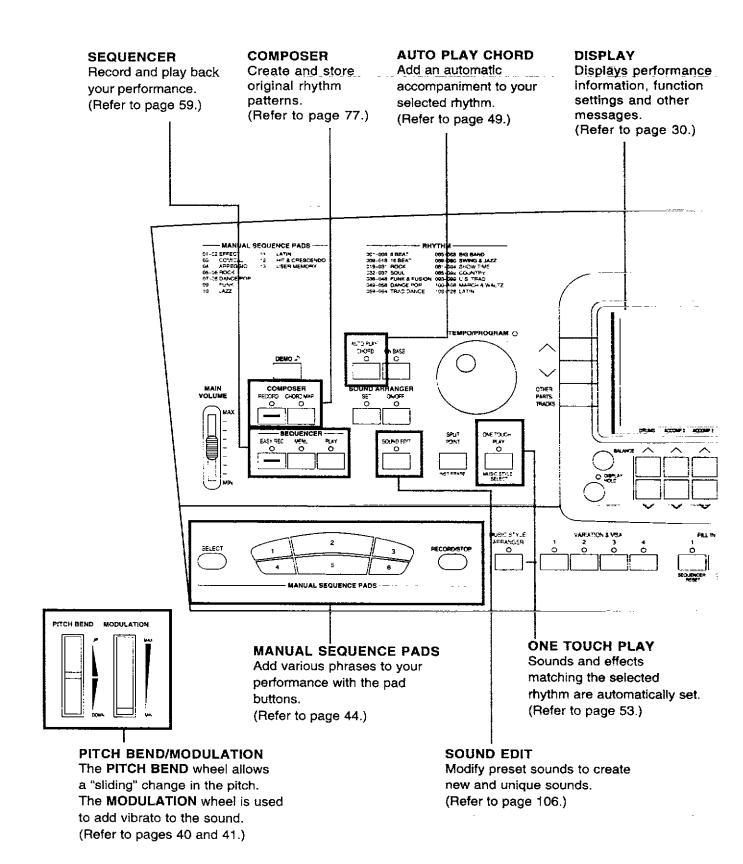


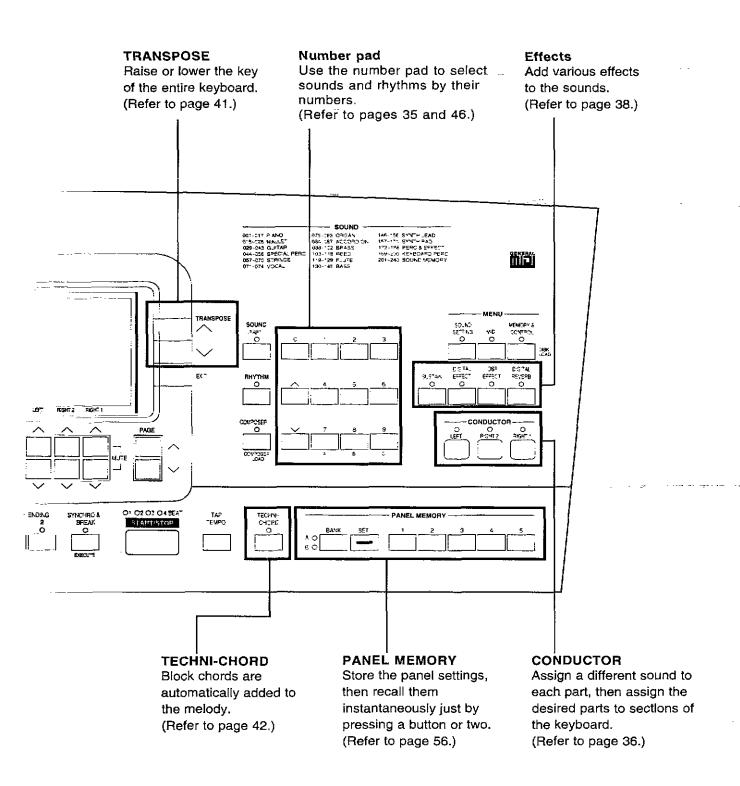
#### Backup memory

The various stored memories and function settings are preserved even if the **PLAY** button is turned off, as long as power is being supplied through the AC adaptor or the batteries. If the power supply to this instrument is discontinued (either through the AC adaptor or the batteries), the various memories and settings will be cleared after about 10 minutes.

## Controls and functions (KN1500)

--- : RF1#189





## Getting started (KN720/KN920)

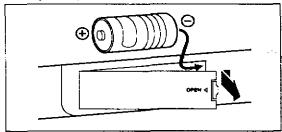
### Before you play

This Keyboard can use either dry cell batteries or ordinary household AC current. If using batteries, use six R20/LR20 batteries ("D" size, UM-1). To use AC current, an SY-AD6/AD6B AC adaptor (12V, 2A) is required. (Note: Use of an AC adaptor other than the SY-AD6/AD6B may cause damage to your instrument.)

- The AC adaptor and battery are sold separately.
- · The output power differs depending on whether the AC adaptor or batteries are being used.

#### When using batteries

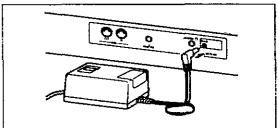
Open the battery compartment cover, found on the rear of the instrument. Insert six R20/LR20 batteries, and replace the battery compartment cover.



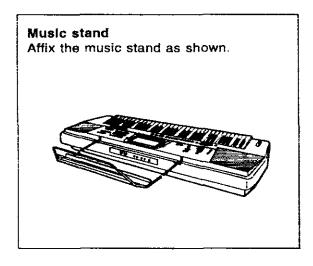
- To insert the batteries correctly, follow the + and - polarity indications.
   (Batteries installed with incorrect polarities may leak and damage this unit. If the leaking electrolyte comes into contact with skin or clothes, flush with water immediately.)
- Do not mix batteries (old and new) or types (carbon and alkaline).
- Remove the batteries from the battery compartment and store separately when the instrument is not to be used for a long time.
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- Do not attempt to recharge carbon or alkaline batteries.

## When using the AC adaptor

Connect the AC adaptor.

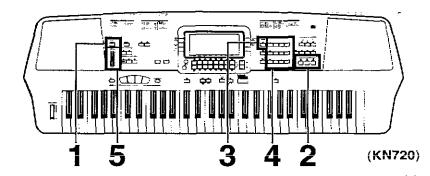


 Do not disconnect and connect the AC adaptor when the PLAY button is on.



- Even when batteries are installed, if the AC adaptor is used, the battery circuit is bypassed and the power is supplied through the AC adaptor.
- When batteries are used, if the instrument is left on but the controls are not touched for a while (about 5 minutes), the energy-saving function is activated and the PLAY button turns off automatically.
- When the power is withdrawn from this instrument, the various storable memories and storable function settings of this instrument will be erased in about 10 minutes.
- When battery power is low during a performance, "WARNING! LOW BATTERIES!" is shown on the display. In this case, replace the batteries as soon as possible.

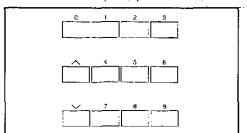
## Playing



Press the PLAY button to turn it on.



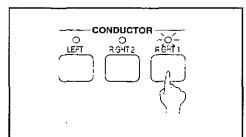
On the number pad, press 0, 0, 2.



Touch any note on the keyboard.

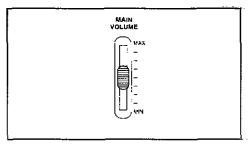
You will hear the "Bright Piano"

In the CONDUCTOR section on the panel, press the RIGHT 1 button to turn it on.

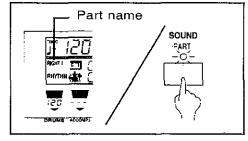


Set the MAIN VOLUME to an appropriate level with the sliding control.

sound.



3 Use the **SOUND/PART** button to select RIGHT 1.

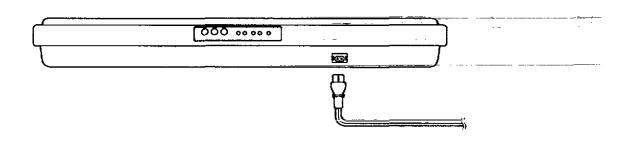


 Your Keyboard features Touch Response. You control the volume by playing the keys harder or softer.

 The pitch of this instrument can be adjusted for when playing with other instruments. (Refer to page 103.)

## Getting started (KN1500)

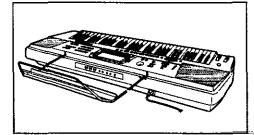
## Before you play



Plug the power cord into an outlet.

2

Affix the music stand as shown.

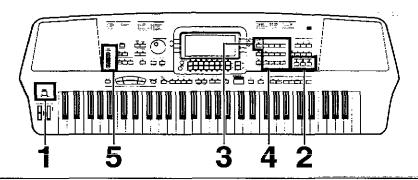


#### About the backup memory

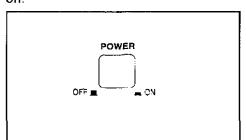
The panel settings and stored memories are maintained in a backup memory for about 10 minutes after the power to this instrument is turned off. If you wish to keep the memory contents, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later 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.
- The pitch of this instrument can be adjusted for when playing with other instruments. (Refer to page 103.)

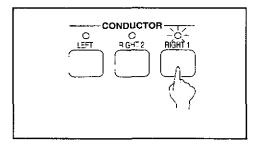
## **Playing**



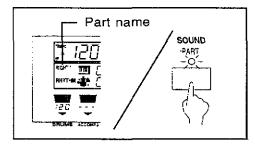
Press the **POWER** button to turn it



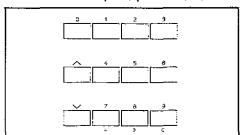
- Under certain conditions, the functions and memories of this instrument may be initialized when the power is turned on.
- In the CONDUCTOR section on the panel, press the RIGHT 1 button to turn it on.



3 Use the SOUND/PART button to select RIGHT 1.

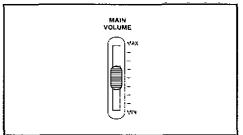


✓ On the number pad, press 0, 0, 8.



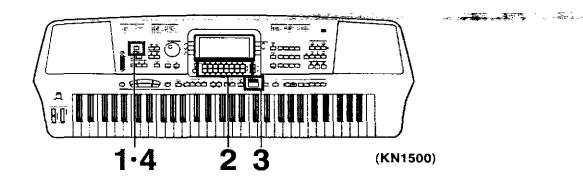
 Touch any note on the keyboard. You will hear the "Midi Grand" sound.

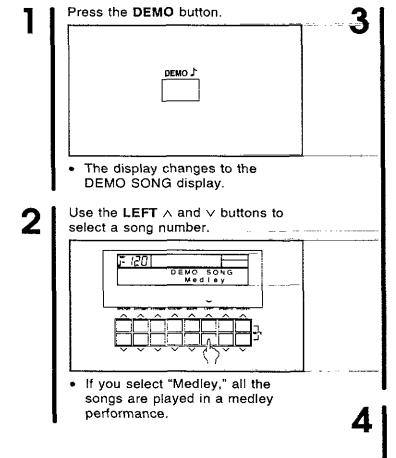
Set the MAIN VOLUME to an appropriate level with the sliding control.



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

## Listen to the demonstration





Press the START/STOP button.

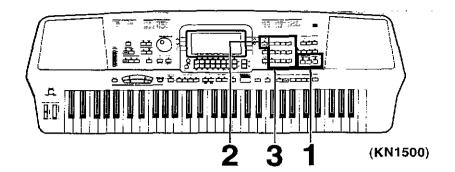


- The demonstration performance corresponding to your selection begins.
- To end the demonstration before it has finished, again press the START/STOP button.
- To listen to other songs, repeat steps 2 and 3.
- If "Medley" was selected, all the songs are played in order in a medley performance. The medley performance continues until the START/STOP button or the DEMO button is pressed again.

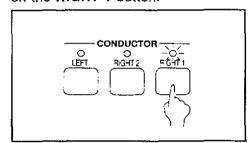
When you are finished listening to the demonstration tunes, press the **DEMO** button again.

- 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, you can also begin a medley performance.
- During the medley performance, use the LEFT ∧ and ∨ buttons if you wish to change to a different song.
- Some of the buttons do not function while the demonstration performances are being played.

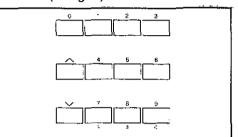
## Selecting sounds



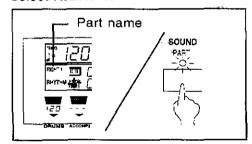
In the CONDUCTOR section, turn on the RIGHT 1 button.



On the number pad, select a sound number (3 digits).



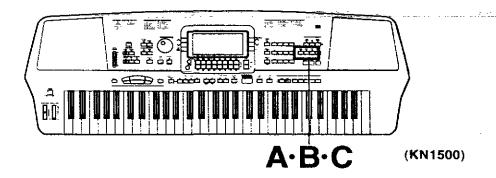
Use the **SOUND/PART** button to select RIGHT 1.



- The number and name of the sound you selected is shown on the display.
- The list of sound groups and their numbers is found on the upper part of the operation panel.
- For single-digit sound numbers: for sound 003, for example, press 0, 0, 3.
- You can use the A and V buttons to change to the next higher or lower sound number.

Other things you can do are mixing sounds and playing different sounds on the left and right areas of the keyboard. (Refer to page 36.)

## Add effects



Add a feeling of spaciousness to the sound.

A Turn on the DIGITAL EFFECT button.

CHOPUS

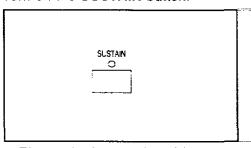
CHO

The sound is broader and deeper.

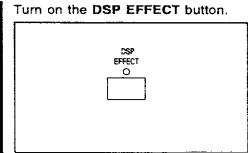
## sound. (KN920/l

Add sustain.

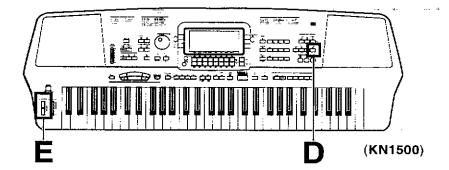
Turn on the SUSTAIN button.



 Play and release a key. The tones fade out gradually after the key is released. Add a unique quality to the sound. (KN920/KN1500)



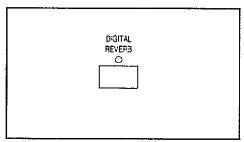
The type of DIGITAL EFFECT differs depending on the selected sound.



### Add reverberation.

D

Turn on the **DIGITAL REVERB** button.

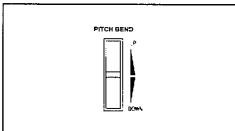


The reverberation effect is applied to all sounds.

## Change the pitch.

E

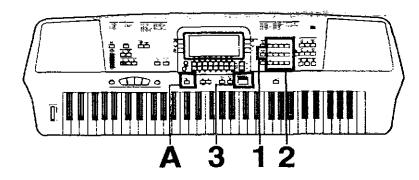
While playing a key on the keyboard, move the PITCH BEND wheel up and down.

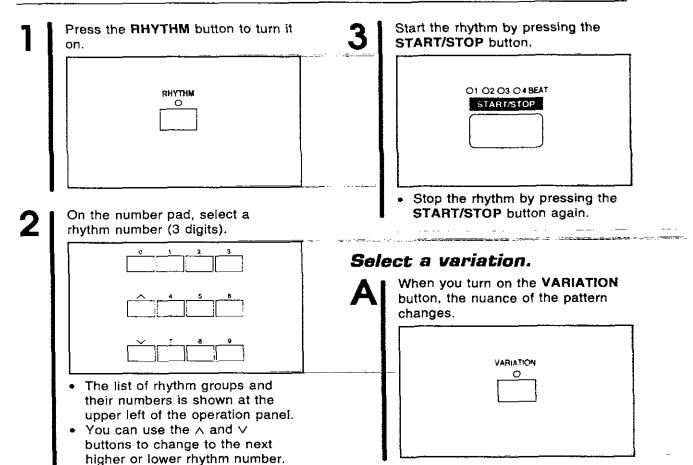


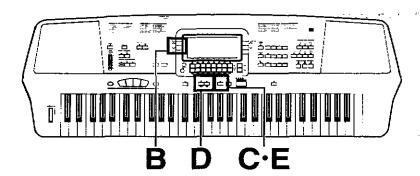
 The pitch of the played key slides up and down, as when you bend the strings on a guitar.

# Playing automatic rhythms (KN720)

Beneral British Beneral Street



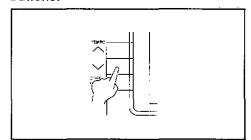




## Adjust the tempo.

B

Adjust the tempo with the **TEMPO** buttons.

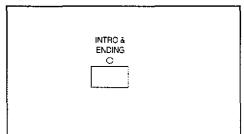


 The tempo is shown on the display as ", =".

## Insert an intro pattern.

C

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

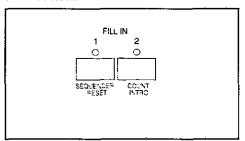


• An intro is played, after which the regular rhythm starts.

## Insert a fill-in pattern.

D

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

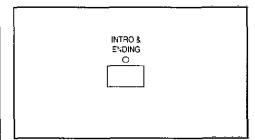


 A fill-in pattern immediately starts to play.

## Insert an ending pattern.

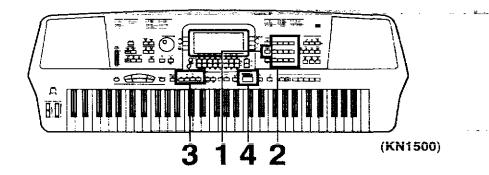
E

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

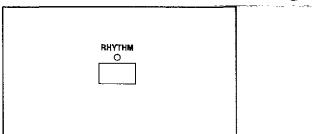


 You will hear an ending pattern, and then the rhythm stops.

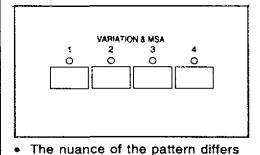
## Playing automatic rhythms (KN920/KN1500)



Press the RHYTHM button to turn it

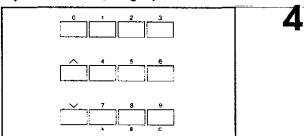


Use the VARIATION buttons to select the variation number.



On the number pad, select a rhythm number (3 digits).

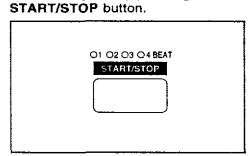
THE PERSON AND THE PE



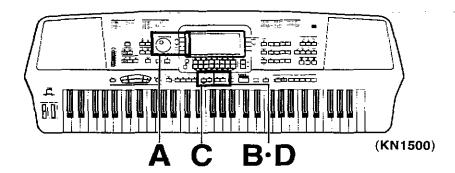
· The list of rhythm groups and their numbers is shown at the upper left of the operation panel.

You can use the ∧ and ∨ buttons to change to the next higher or lower rhythm number.

with each variation number. Start the rhythm by pressing the



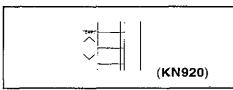
Stop the rhythm by pressing the START/STOP button again.



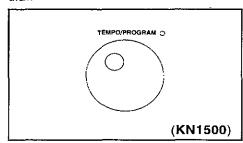
## Adjust the tempo.



Adjust the tempo with the **TEMPO** buttons.



KN1500: You can also adjust the tempo with the TEMPO/PROGRAM dial.

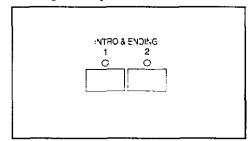


 The tempo is shown in the display as "; = ".

## Insert an intro pattern.

B

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

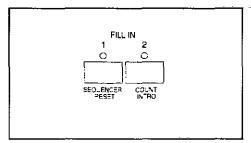


 An intro is played, after which the regular rhythm starts.

## Insert a fill-in pattern.

C

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

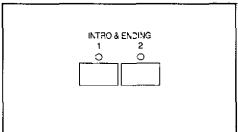


• A fill-in pattern immediately starts to play.

## Insert an ending pattern.

D

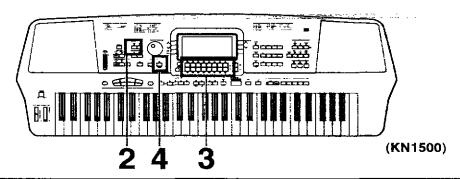
While the rhythm is playing, press the INTRO & ENDING 1 or 2 button.



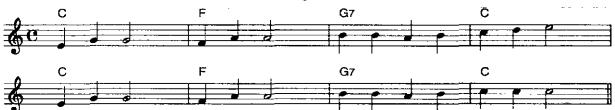
 You will hear an ending pattern, and then the rhythm stops.

## Automatic accompaniment

Just by specifying a chord on the keyboard, an accompaniment pattern which matches the selected rhythm is automatically played.



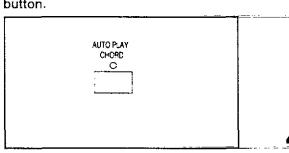
Use the AUTO PLAY CHORD with the following tune.

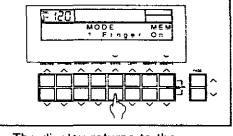


Select a rhythm (other than a three-beat rhythm).

Use the **BASS** ∧ and ∨ buttons to select "1 Finger."

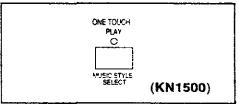




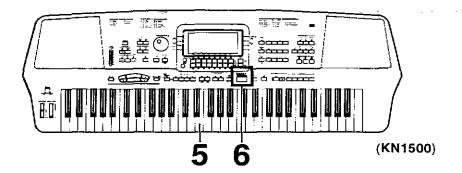


The display returns to the previous display after a few seconds.

Press and hold the ONE TOUCH PLAY button for a few seconds until the panel settings change.

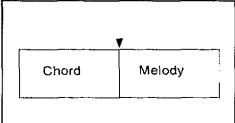


 The panel settings automatically change to those matching the rhythm you selected in step 1.



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

At the e press the chords are press that the melody.

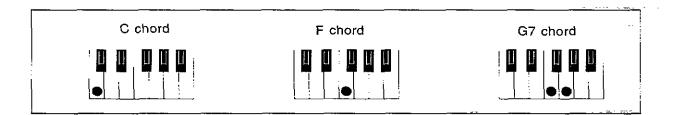


- Pressing a key on the left area of the keyboard will cause the automatic rhythm pattern to start playing (synchro start).
- When the C key is pressed on the left area of the keyboard, an accompaniment begins to play in the C major key.
- Playing the chord key (root note) and the white key to its left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

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



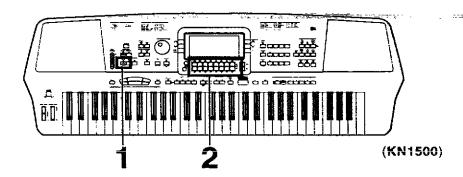
- The automatic accompaniment stops.
- When ending a performance which uses the automatic accompaniment, press the AUTO PLAY CHORD button to turn it off.



 KN1500: You can also have the panel settings change to automatically match the style you select. (Refer to page 54.)

## Record your performance

Use the SEQUENCER to record your performance.

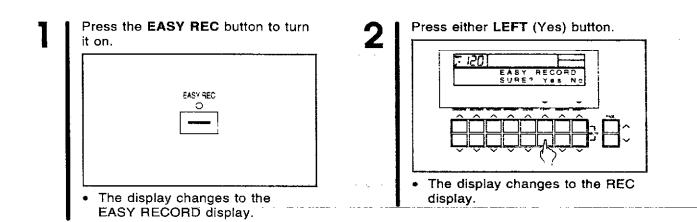


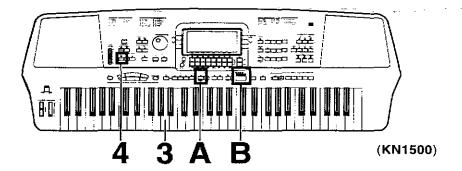
## Sonatina

Sound: 001 [Grand Piano] (RIGHT 1 part)



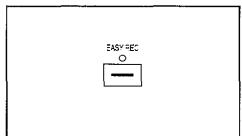






Play the song on the keyboard.

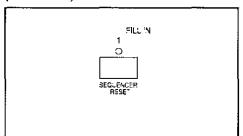
When you have finished playing, press the EASY REC button again to turn it off.



 The display changes to the SEQ PLAY display.

## Playing back your recorded performance

Press the SEQUENCER RESET (FILL IN 1) button.



BI

Press the START/STOP button.

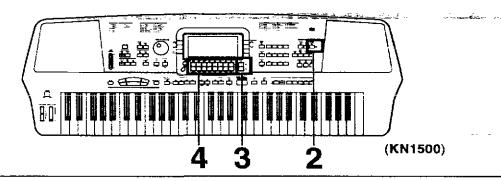


- Your performance is played back just as you recorded it.
- When you are finished playing back your performance, press the PLAY button in the SEQUENCER section to turn it off.

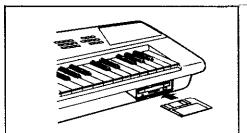
 You can also record several parts individually and then have them played back together for an ensemble performance. (Refer to page 64.)

# Playing commercial disks (KN920/KN1500)

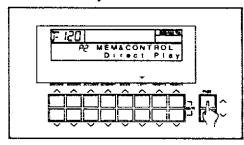
You can play commercial song disks such as Standard MIDI File (SMF) FORMAT 0 or DISK ORCHESTRA COLLECTION™ (DOC) disks on this instrument.



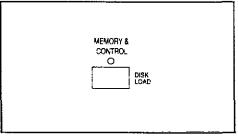
Insert the song disk into the Disk Drive slot. Push it all the way in until you hear a click.



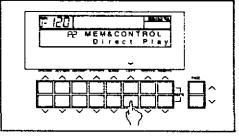
Press the PAGE \( \text{button to select} \)
"P2 Direct Play."



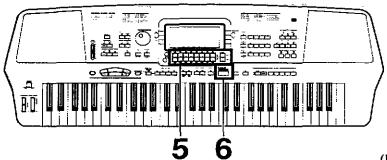
Press the MEMORY & CONTROL button to turn it on.



 The display changes to the MEM & CONTROL display. Press the LEFT ∧ or ∨ button.



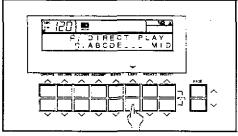
 The display changes to the DIRECT PLAY display.



(KN1500)

5

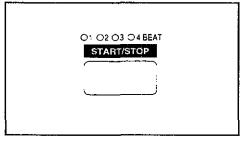
Use the LEFT ∧ and ∨ buttons to select the song you wish to play.



 For SMF files, if you press the PAGE ∧ button to display P2 DIRECT PLAY, you can use the RIGHT 1 ∧ and ∨ buttons to specify whether or not to play the song as GENERAL MIDI (GM) (On/Off).



Press the START/STOP button.



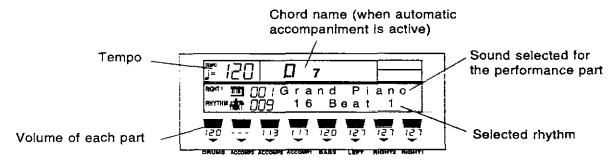
- The selected song is played back.
- To stop playback, press the START/STOP button again.
- You can use the same procedure to play back other songs on the disk.
- Direct play from SMF FORMAT 1 disks is not possible. To play FORMAT 1 disks, follow the SMF LOAD procedure (page 93).
- \*DISK ORCHESTRA COLLECTION is a trademark of the YAMAHA Corporation.

## **About the display**

The display shows various information and is used for most of this instrument's operations.

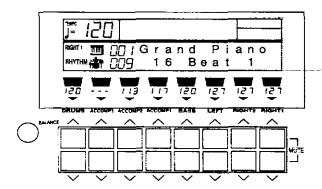
### Normal display

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.

- If you press and hold a button, the scrolling speed becomes fast.
- Even when the display is not the normal display, you can view the volume balance by pressing the BALANCE button, located to the lower left of the display.

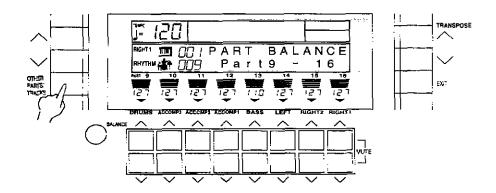
#### ■ MUTE

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

- The number indication for the volume of a muted part is shown as [---].
- Pressing either balance button for a muted part will cancel the mute function.

#### **■ OTHER PARTS**

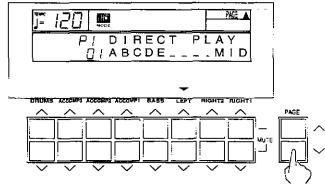
Press the OTHER PARTS/TRACKS button to show the PART BALANCE display for MSP (MANUAL SEQUENCE PADS), [Part 1 - 8]; press again for [Part 9 - 16].



- Press the EXIT button to return to the display before the volume setting display.
- These parts are used when this instrument is being utilized as a 16-part multi-timbre sound generator: during SEQUENCER operation, during song disk playback (KN920/KN1500) or when external MIDI equipment is connected.

### **PAGE buttons**

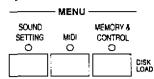
When the current display fills more than one screen, a PAGE indication is shown on the display. For example, if PAGE ▲ is shown on the display, it means that there is a following page or pages. Likewise, PAGE ▼ indicates a previous page, and PAGE ▼ ▲ indicates a previous and a following page. In this case, you can use the PAGE ∧ and ∨ buttons to the right of the balance buttons to view different "pages" of the display.



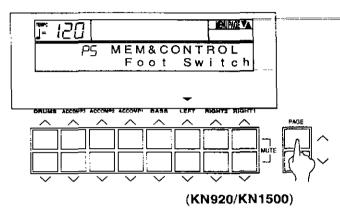
- Press the A button to view the next page of the display, and the V button to view the previous page of the display.
- P1, P2 etc. on the display indicates the page number.

## **MENU displays**

The buttons shown in the illustration below for example control multiple functions. Pressing one of the buttons will access the corresponding **MENU** display.



**■ Example of MENU display: MEMORY & CONTROL** 



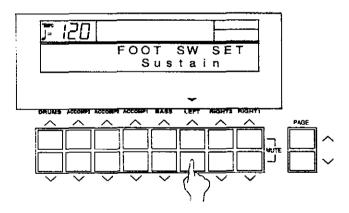
The PAGE buttons are also used to select the menu pages. When selecting a menu, a MENU PAGE indication is shown in the upper right part of the screen. For example, to select [Foot Switch], use the PAGE  $\land$  button to select page 5 (P5) (KN920/KN1500).

- In this manual, this procedure is written as follows: "Select [P5 Foot Switch]."
- To access the setting display, press the button below the display which corresponds to the ▼ indication (in this example, either LEFT ∧ or ∨ button).

### **Setting display**

When necessary, the buttons below the display are used to set the functions.

■ Example of setting display: Foot Switch



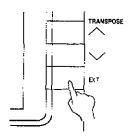
One or more ▼ indications at the bottom of the screen indicate that the corresponding balance buttons below the display are used to change the settings. In this example, the LEFT ∧ and ∨ buttons are used.

 In this manual, this procedure is written as follows: "Use the LEFT ∧ and ∨ buttons to select the function."

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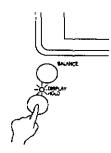
### **EXIT** button

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, you can maintain a setting display which normally turns off automatically, or even during a performance you can monitor information which is not shown on the normal performance display.

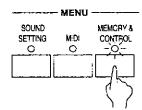


- If you are viewing a setting display which normally turns off automatically, this indicator may flash.
- If any of the MENU buttons, for example, is pressed, the DISPLAY HOLD mode is canceled.

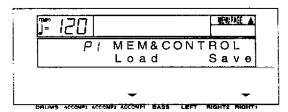
### CONTRAST

Adjust the contrast of the display.

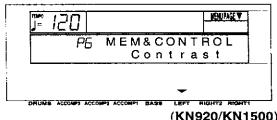
1. Press the MEMORY & CONTROL button to turn it on.



The display looks similar to the following.

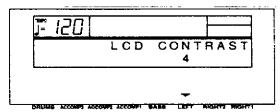


- Use the PAGE buttons to select [P4 Contrast] (KN720) or [P6 Contrast] (KN920/KN1500).
- The display looks similar to the following.



(KN920/KN1500)

- 3. Press either LEFT button.
- · The display looks similar to the following.



- 4. Use the LEFT ∧ and ∨ buttons to adjust the setting (1 to 8).
- Adjust the contrast of the display so that it is easy to read.
- 5. When you have completed making the settings, press the MEMORY & CONTROL button to turn it off.

## TEMPO/PROGRAM dial (KN1500)



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.

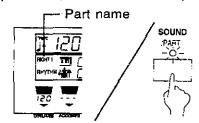
# Part I Sounds and effects

# **Selecting sounds**

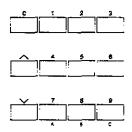


Select the sounds for the three parts you can play on the keyboard-RIGHT 1, RIGHT 2 and LEFT.

1. Use the SOUND/PART button to select a part (RIGHT 1, RIGHT 2 or LEFT).

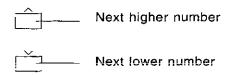


- The selected part is shown on the display.
- 2. On the number pad (0 to 9), press the buttons to select the desired sound (3 digits).
- The list of sound group names and their corresponding numbers is found on the upper part of the operation panel.
- A list of all the sounds and their numbers can be found in the separate REFERENCE GUIDE provided.



- Enter three digits to select the sound. For example, to select sound 003, press 0, 0, 3.
   To select sound 030, press 0, 3, 0.
- Do not enter the digits too slowly. If you wait too long after entering a number before entering the next number, the first number will be canceled.
- The selected sound is assigned to the part you selected in step 1.
- While the setting is being changed, the name of the selected part, and the number and name of the selected sound are shown on the display.

#### ■ ∧ and ∨ buttons



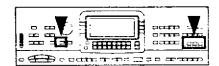
 Keep the ∧ or ∨ button pressed to scroll the numbers quickly.

#### ■ Percussion sounds

The sounds in the **KEYBOARD PERC** group are percussion instrument sounds.

- Percussion instrument sounds are produced by the keyboard keys as indicated by the picture code above each key.
- For further information about the arrangement of percussion sounds, refer to the separate REFERENCE GUIDE provided.
- Repeat steps 1 and 2 to select sounds for the other parts.
- The CONDUCTOR buttons are used to assign parts to the keyboard. (Refer to page 36.)
- Most of the sounds in the KEYBOARD PERC and PERC & EFFECT sound groups do not have scaled pitches.
- KN920/KN1500: SOUND MEMORY 201 to 240 are reserved for storing sounds you create yourself. (Refer to page 106.)

# 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.

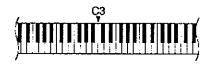
# **CONDUCTOR**

CONDUCTOR settings	How sounds are assigned to the keyboard				
CONDUCTOR	All keys produce the RIGHT 1 sound.				
LEFT PIGHT 2 PIGHT 1	RIGI	RIGHT 1			
CONQUETOR	All keys produce the RIGHT 2 sound.				
LEFT RIGHT 1	RIG	RIGHT 2			
	All keys produce both the RIGHT 1 sound and the RIGHT 2 sound.				
LEFT RIGHT 2 RIGHT 1	RIGHT 1	RIGHT 1 + RIGHT 2			
	The left keys produce the LEFT sound and the right keys produce the RIGHT 1 sound and the RIGHT 2 sound.				
ÉFT RIGHT 2 RIGHT:	LEFT	RIGHT 1 + RIGHT 2			
CONDUCTOR	The left keys produce the LEFT sound and the right keys produce the RIGHT 1 sound.				
LÉFT RIGHT 2 RIGHT :	LEFT	RIGHT 1			
The left keys produce the LEFT sound and the right keys p					
LÉFT PIĞHT2 RIGHT1	LEFT	RIGHT 2			

- The volume for each part can be adjusted independently. (Refer to page 30.)
- 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 normally at C3 (indicated by  $\blacktriangledown$ ).



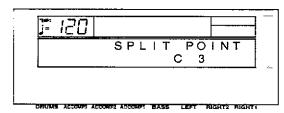
# **■** Customized split point

You can set a different split point.

1. Press the SPLIT POINT button.



• The following display appears.



- Specify the name of the desired split point note by pressing the corresponding key on the keyboard.
- The specified note name is shown on the display.
- A split point is set at the location of the pressed key, which is the lowest note of the right keyboard section.
- The display returns to the previous display after a few seconds.

- + 19991

# **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.

- Use the SOUND/PART button to select the part to which is effect will be applied.
- 2. Press the **DIGITAL EFFECT** button to turn it on for the selected part.



- The DIGITAL EFFECT on or off status is preset for each sound, so that the DIGITAL EFFECT automatically turns on when certain sounds are selected.
- This effect differs depending on the selected sound.
- This effect does not work for the KEYBOARD PERC sounds.

# CHORUS (KN720)

Add breadth to the sound.

- Use the SOUND/PART button to select the part to which is effect will be applied.
- Press the CHORUS button to turn it on for the selected part.

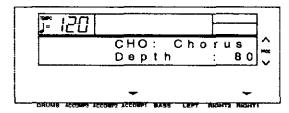


 The CHORUS can be set to on or off for each part.

#### **■** Effect setting

You can specify the type and adjust the parameters of this effect.

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



- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select the type.
- 3. Use the **ACCOMP 1** ∧ and ∨ buttons to select a parameter.
- 4. Use the RIGHT 1 ∧ and ∨ buttons to modify the parameter.
- An explanation of the types and their corresponding parameters can be found in the separate REFERENCE GUIDE provided.
- The depth of the effect can be adjusted for each part. (Refer to page 102.)
- The display returns to the previous display after a few seconds.

# DSP EFFECT (KN920/KN1500)

Add a unique quality to the sound.

- 1. Use the **SOUND/PART** button to select the part to which is effect will be applied.
- 2. Press the DSP EFFECT button to turn it on.

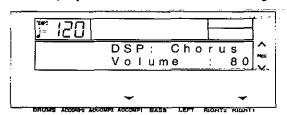


 This effect can be set to on or off for each part.

# **■** Effect Setting

You can specify the type and adjust the parameters of this effect.

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



- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select the type.
- Use the ACCOMP 1 ∧ and ∨ buttons to select a parameter.
- Use the RIGHT 1 ∧ and ∨ buttons to modify the parameter.
- An explanation of the types and their corresponding parameters can be found in the separate REFERENCE GUIDE provided.
- The depth of the effect can be adjusted for each part. (Refer to page 102.)
- The display returns to the previous display after a few seconds.

# **SUSTAIN**

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

1. Use the **SOUND/PART** button to select the part to which is 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.
- This effect differs depending on the selected sound.
- The display can also be used to adjust the length of sustain. (Refer to page 102.)
- In the initialized state, this effect can be turned on and off with the optional Foot Switch (sold separately).

# **DIGITAL REVERB**

**DIGITAL REVERB** applies a reverberation effect to the sound.

Press the DIGITAL REVERB button to turn it on.

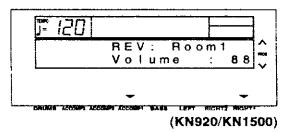


- This effect is applied to all the sounds of this instrument.
- The display can also be used to adjust the depth of the reverb for each part. (Refer to page 102.)

#### ■ Effect Setting

You can select the type and adjust the parameters of this effect.

- Press and hold the DIGITAL REVERB button for a few seconds.
- The display looks similar to the following.



- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select the type.
- KN920/KN1500: Use the ACCOMP 1 ∧ and ∨ buttons to select the parameter.
- Use the RIGHT 1 ∧ and ∨ buttons to modify the parameter.
- An explanation of the types and their corresponding parameters can be found in the separate REFERENCE GUIDE provided.
- KN720: Only the [Volume] setting can be changed.
- The display returns to the previous display after a few seconds.

# 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 102.)

# MODULATION (KN1500)

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.



- 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.

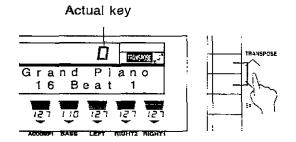
# **Transpose**



The **TRANSPOSE** buttons are used to change the key of the entire instrument in semitone 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 TRANSPOSE  $\wedge$  and  $\vee$  buttons.



- Each press of the ∧ button raises the key in semitone steps, and each press of the ∨ button lowers the key in semitone steps (G — C — F<sup>†</sup>).
- If the two buttons are pressed at the same time, the key returns to C.
- When the TRANSPOSE function is active, TRANSPOSE is shown in the upper right part of the display and, during setting, the key is indicated.

<Example: transposed to D>



# 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 (KN1500) registration, a suitable TECHNI-CHORD type will be selected automatically.

1. Split the keyboard into left and right sections. (Refer to page 36.)

**医**柯斯塔克 [第11-25] [[12-52]

Press the TECHNI-CHORD button to turn it on.



- 3. 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:

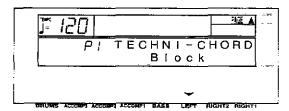


 This feature is very effective when used with the AUTO PLAY CHORD. (This feature does not work in the PIANIST mode.)

### Harmony type

You can select the desired harmony style for the **TECHNI-CHORD**.

- 1. Press and hold the **TECHNI-CHORD** button for a few seconds.
- The display looks similar to the following.

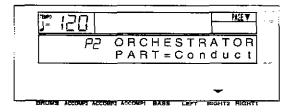


- Use the LEFT ∧ and ∨ buttons to select the harmony type.
- Select from [Close], [Open 1], [Open 2], [Duet], [Country], [Theatre], [Hymn], [Block], [Big Band Brass], [Big Band Reeds], [Octave], [Hard Rock], [Fanfare].
- When the [Octave], [Hard Rock] or [Fanfare] type is selected, the TECHNI-CHORD functions even when the keyboard is not split.
- The display returns to the previous display after a few seconds.
- An explanation of each harmony type can be found in the separate REFERENCE GUIDE provided.

# <ORCHESTRATOR>

Use this function to specify which part plays the harmony notes. By assigning different sounds to the melody notes and harmony notes, you can achieve a striking **TECHNI-CHORD** performance.

- 1. While the TECHNI-CHORD display is shown, press the **PAGE** ∧ button.
- The display looks similar to the following.



- 2. Use the RIGHT 2  $\wedge$  and  $\vee$  buttons to select the part you wish to generate the harmony notes.
- · LEFT and PART 16 cannot be selected.
- If [Conduct] is selected, the CONDUCTOR
  part which is currently selected will be
  specified as the part for the harmony notes.
  However, when RIGHT 1 and RIGHT 2 are
  both on, the harmony notes are produced in
  the sound for the RIGHT 1 part.

# Part II Manual Sequence Pads

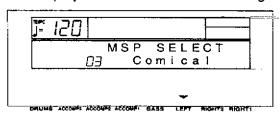
During your performance, you can insert a short recorded phrase or effect sounds by pressing a pad button. Several types of phrases have been prerecorded, but you can also create your own phrases and store them.

# **Playing phrases**

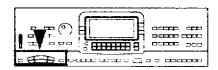
 In the MANUAL SEQUENCE PADS section, press the SELECT button.



· The display looks similar to the following.

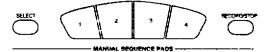


- Use the LEFT ∧ and ∨ buttons to select the desired phrase bank number.
- The list of bank names and their corresponding numbers is found on the upper part of the operation panel.
- Bank [13 User] is reserved for storing your original phrases.
- The display returns to the previous display after a few seconds.

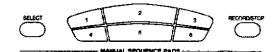


3. Press a pad button (KN720: 1 to 4; KN920/KN1500: 1 to 6).

#### **KN720**



#### KN920/KN1500



- A different phrase is played by each pad button.
- 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.
- Some phrases are programmed to begin playing in time with the measure count during a rhythm performance.
- When the AUTO PLAY CHORD is on, the phrase is played in the specified chord.
- On the normal display, if you press the OTHER PARTS/TRACKS button, the volume of the MANUAL SEQUENCE PADS (MSP) can be adjusted. (Refer to page 31.)

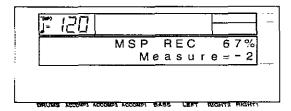
# Record a phrase

Bank 13 is reserved for storing your original phrases.

- Use the TEMPO buttons or TEMPO/PRO-GRAM dial (KN1500) to adjust the recording tempo.
- 2. Press the **SELECT** button. On the MSP SELECT display, select [13 User].
- While pressing the RECORD/STOP button, press the pad button in which you wish to record.
- There are two types of pads: For one type, the phrase is not timed to begin playing with the measure count. For the other type, the phrase starts to play in time with the measure count. KN720: Phrases in pad buttons 1 and 2 are not timed to begin playing with the measure count; phrases in 3 and 4 are synchronized with the measure count.

KN920/KN1500: Phrases in pad buttons 1, 2 and 3 are not timed to begin playing with the measure count; phrases in 4, 5 and 6 are synchronized with the measure count.

· The display looks similar to the following.



- 4. Select the sound for the phrase you are going to record.
- 5. Press the START/STOP button.



 After a two-measure count (Measure = -2<sub>x</sub>-1), recording begins.

- 6. Play 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.
- Repeat steps 3 to 7 to record phrases in the other pad buttons as desired.
- · The following information is stored.
  - Your keyboard performance
  - Sound settings and changes
  - SUSTAIN setting
  - PITCH BEND, MODULATION (KN1500) wheel operation, etc.
- The memory capacity of the user bank is approximately 1200 notes. The remaining memory available for recording is shown on the MSP REC display as a percentage (%). 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 this instrument with features such as automatic performance of the preset rhythm patterns and accompaniment patterns.

# **Selecting rhythms**

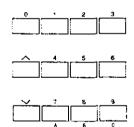


# Select a rhythm

1. Press the RHYTHM button to turn it on.

RHYTHM

- 2. On the number pad (0 to 9), press the buttons to select the desired rhythm (3 digits).
- The list of rhythm group names and their corresponding numbers is found on the upper part of the operation panel.
- A list of all the rhythms and their numbers can be found in the separate REFERENCE GUIDE provided.



- Enter three digits to select the rhythm. For example, to select rhythm 003, press 0, 0, 3.
   To select rhythm 030, press 0, 3, 0.
- Do not enter the digits too slowly. If you wait too long after entering a number before entering the next number, the first number will be canceled.
- During setting, the selected number and rhythm name are shown on the display.
- KN920/KN1500: A COMPOSER rhythm or COMPOSER CHORD MAP can also be selected as a rhythm. (Refer to pages 83 and 85.)
- ∧ and ∨ buttons

<u></u>	Next	higher	number
<u> </u>	Next	lower	number

 Keep the ∧ or ∨ button pressed to scroll the numbers quickly.

# **VARIATION**

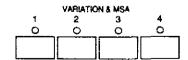
For each rhythm, variations with difference nuances are available.

 You can change to a different variation while the rhythm is playing.

KN720: Turn on the VARIATION button to play the rhythm variation.



KN920/KN1500: Use the VARIATION & MSA buttons to choose from four different variations.



# 

# 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.
- 2. Press the SYNCHRO & BREAK button to turn it on.



3. 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**  $\wedge$  and  $\vee$  buttons.



- The tempo is shown on the display as a numerical value ( = 40 to 300).
- Keep the button pressed to change the value quickly.
- If the two buttons are pressed at the same time, the tempo returns to the standard 120 setting.
- KN1500: The TEMPO/PROGRAM dial can also be used to adjust the tempo of the rhythm pattern.



 When the TEMPO/PROGRAM indicator is lit, the TEMPO/PROGRAM dial is used for setting functions and cannot be used to adjust the tempo.

# **■ TAP TEMPO (KN1500)**

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

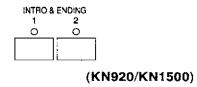


Intro, fill-in and ending patterns fitting each different rhythm pattern are permanently recorded in your instrument, thus allowing a versatile rhythm performance.

# INTRO

Begin the rhythm performance with an intro pattern

 Press the INTRO & ENDING (KN720)/INTRO & ENDING 1 or 2 (KN920/KN1500) 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.

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



- 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 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.
- 2. Press the INTRO & ENDING (KN720)/INTRO & ENDING 1 or 2 (KN920/KN1500) button to turn it on.



(KN920/KN1500)

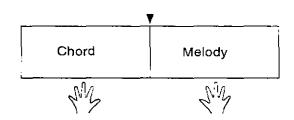
- An ending pattern is produced, and then the rhythm performance stops.
- If you accidentally press an INTRO & ENDING
  button in the middle of the tune, you can press
  the FILL IN 1 or 2 button. The ending pattern
  stops, and a fill-in pattern is produced, after
  which the normal rhythm performance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

# Playing chords

Choose from three ways of playing chords.



#### **■ ONE FINGER mode**

In the [1 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 to the left of it.	Play the root note plus a white key to the left of it.	Play the root note plus a black key and 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, Cm7<sup>b5</sup>, CmM7, Csus4, C7sus4, C7b, C7<sup>b5</sup>, Cm<sup>b5</sup>, C6, Cm6, CM7<sup>25</sup>, CM7<sup>25</sup>, CmM7<sup>25</sup>, 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" with just one hand.

 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>

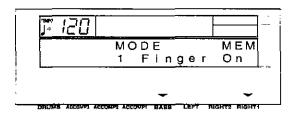
When the MEMORY (MEM) function is on, even when the keys are released, the chord is memorized and the accompaniment continues to play until you specify another chord.

# **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. Use the BASS ∧ and ∨ buttons to select the AUTO PLAY CHORD mode.
- Use the RIGHT 1 (MEM) ∧ and ∨ buttons to set MEMORY to on or off.
- After a few seconds, the display returns to the previous display.
- Press the START/STOP button to begin the rhythm.
- You can also start the rhythm by playing a key on the keyboard. (Refer to page 47.)

- 5. Specify a chord.
- If the [1 Finger] or [Fingered] mode was selected, specify the chord on the keyboard section to the left of the split point.



- The split point can be changed. (Refer to page 37.)
- An accompaniment pattern in the specified chord is automatically played.
- When you use FILL IN, INTRO and ENDING, the automatic accompaniment is also used in these patterns.
- You can set the mode which determines how the LEFT part sounds during an AUTO PLAY CHORD performance. (Refer to page 105.)
- If the AUTO PLAY CHORD button is pressed during an automatic accompaniment, the button does not turn off, and the display changes to the mode-setting display.
- 6. To stop the automatic accompaniment, press the START/STOP button.
- When the rhythm is off, if the [1 Finger] or [Fingered] 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 102.)

# **BREAK function**

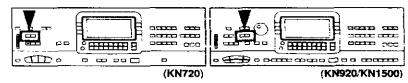
With the break function, the rhythm starts when the left keyboard is played and stops when the fingers are removed from the keys.

- 1. Select an AUTO PLAY CHORD mode.
- At this time, the MEMORY function 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**



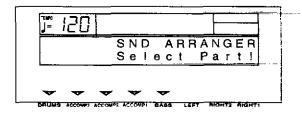
The SOUND ARRANGER feature lets you select other sounds for the AUTO PLAY CHORD parts of each rhythm.

# **Setting the sounds**

- 1. Select the rhythm whose sound you wish to change.
- KN920/KN1500: Do not select a COMPOSER rhythm or a COMPOSER CHORD MAP.
- 2. In the **SOUND ARRANGER**, press the **SET** button to turn it on.

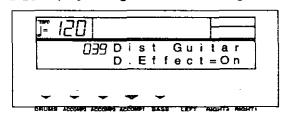


· The display changes to the following.



- 3. Use the balance buttons below the display to select the part whose sound you wish to change.
- Select from BASS, ACCOMP 1, ACCOMP 2, ACCOMP 3 and DRUMS.

The display changes to the following.



- The ▼ mark for the selected part only flashes.
- 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.
- Depending on the selected sound, the sound quality may differ from that during a normal performance.
- 5. Repeat steps 3 and 4 for the other parts as desired.
- When you have finished selecting the sounds, press the SET button to turn it off.

# Playing back the sounds

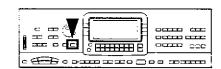
1. In the SOUND ARRANGER, press the ON/OFF button to turn it on.



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

# 

# **One Touch Play**



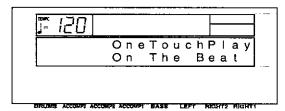
**ONE TOUCH PLAY** sets up the your instrument with a suitable registration for your chosen rhythm style so that you can make a great sound straight away, even if you are playing this instrument for the first time. Using **ONE TOUCH PLAY** sets a suggested combination of sounds and balances and an appropriate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

- 1. Select a rhythm pattern.
- KN920/KN1500: Do not select a COMPOSER rhythm or a COMPOSER CHORD MAP.
- Press and hold the ONE TOUCH PLAY button for a few seconds until the panel settings change.



(KN1500)

· The display looks similar to the following.

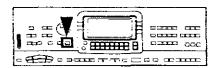


- The AUTO PLAY CHORD button and the SYNCHRO & BREAK button are automatically turned on. When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately.
- The octave and stereo balance of the sound may change.
- To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 122.)

# 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. (Refer to page 56.)

# Music Style Select (KN1500)



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.

- 1. Press the MUSIC STYLE SELECT (ONE TOUCH PLAY) button momentarily.
- The display looks similar to the following.



- The name of the style shown on the display may become altered.
- Use the LEFT ∧ and ∨ buttons to select a music style.
- The AUTO PLAY CHORD 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.
- The octave and stereo balance of the sound may change.
- To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 122.)

# 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. (Refer to page 56.)

# 

# Music Style Arranger (KN920/KN1500)



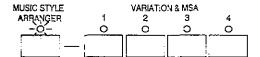
The MUSIC STYLE ARRANGER helps you to make professional registration changes during your performance. Select from four contrasting registrations at the push of a button, or let your instrument change the registration automatically for you when you use FILL IN 1 or 2. The MUSIC STYLE ARRANGER will also 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 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.
- The octave and stereo balance of the sound may change.
- To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 122.)
- 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 2 button.



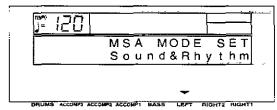
Each time the FILL IN 1 button is pressed, the FILL IN 1 pattern plays, and then the music style changes in the 4 → 3 → 2 → 1 order. And each time the FILL IN 2 button is pressed, the FILL IN 2 pattern plays, and then the style changes in the 1 → 2 → 3 → 4 order.

■ 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.



(continued on the next page)

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

PROVIE LENGTH ...

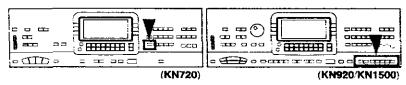
[Rhythm]: Only the rhythm changes.

[Sound & Rhythm]: Both the sound and rhythm change.

[Panel Memory]: The PANEL MEMORY number changes (A1 to A4).

 After a few seconds, the display exits the setting mode.

# **Panel Memory**



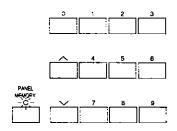
PANEL MEMORY stores the panel set up of this instrument allowing you to make complex changes at the push of a single button.

# How to store the panel settings

#### <KN720>

Store a different panel setting in each of the number buttons (0 to 9).

- 1. Set up the desired panel settings (sounds, volumes, etc.)
- 2. While pressing the **PANEL MEMORY** button, press the number button for the memory you want to store (0 to 9).

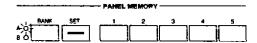


 The current panel settings are now stored in the specified PANEL MEMORY number. To recall the stored settings, just turn on the PANEL MEMORY button, and press the number for the desired panel setup.

#### <KN920/KN1500>

Five panel setups can be stored in each of the two banks (A and B).

- 1. Set up the desired panel settings (sounds, volumes, etc.)
- Use the BANK button in the PANEL MEMORY section to select a bank (A or B).
- While pressing the SET button, press a number button (1 to 5) for the memory you want to store.



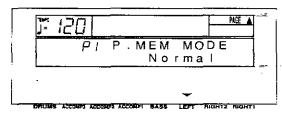
- The current panel settings are now stored in the specified bank and number. To recall the stored settings, select the BANK and specify the number.
  - The recalled settings can be changed manually; however the memory contents of the PANEL MEMORY remain unchanged until you store them again.
- KN720: The contents stored in the PANEL MEMORY can be saved in this instrument's memory. (Refer to page 87.)
- KN920/KN1500: The PANEL MEMORY settings can be saved on a disk for recall at a later time. (Refer to page 89.)

# 

# **■ PANEL MEMORY mode**

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

- Press and hold the PANEL MEMORY button (KN720)/SET button (KN920/KN1500) for a few seconds.
- The display changes to the following.



2. Use the LEFT ∧ and ∨ buttons to select the mode.

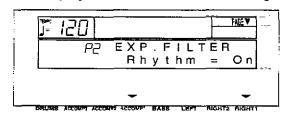
Normal: The sounds and volume balance, effects and CONDUCTOR status are stored. Expand: All the instrument's settings are stored, including the rhythm, TRANSPOSE, tempo, etc.

 After a few seconds, the display exits the setting mode.

#### **EXPAND MODE FILTER**

You can specify which data is stored in the Expand mode.

- 1. While the P.MEM MODE display is shown, press the **PAGE**  $\wedge$  button.
- · The display looks similar to the following.



- 2. Use the ACCOMP 1 \( \times\) and \( \times\) buttons to select the item.
- Select from [Rhythm], [Tempo], [Split Pt] (SPLIT POINT), [Transpos], [APC&Mem] (AUTO PLAY CHORD & MEMORY), [MIDI], [Key Scale], [Reverb], [CHO Set] (CHORUS Setting) (KN720), [DSP Set] (KN920/KN1500), and [P4-P16 Set] (PART 4 to 16 Setting).
- Use the RIGHT 1 ∧ and ∨ buttons to store the on or off status for the selected item (On/Off).

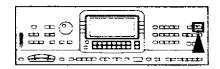
4. Repeat steps 2 and 3 for each item, as desired.

# 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. (Refer to page 122.)
- You can change from one PANEL MEMORY to another by pressing the optional Foot Switch (sold separately).

# **Foot Switch setting**

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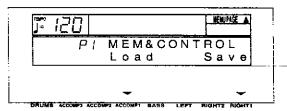
You can assign various functions to the optional Foot Switch (sold separately). The assigned function can then be controlled with the Foot Switch.

# **Assigning functions**

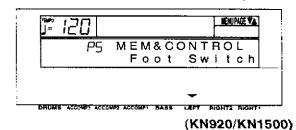
1. Press the **MEMORY & CONTROL** button to turn it on.



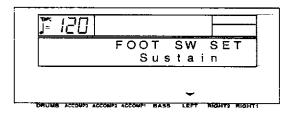
The display changes to the following.



- 2. Use the **PAGE** buttons to select [P3 Foot Switch] (KN720)/[P5 Foot Switch] (KN920/KN1500).
- · The display changes to the following.



- 3. Press either LEFT button.
- · The display changes to the following.



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

- [P. Memory] 0-9 (KN720)/A1-B5 (KN920/ KN1500): The specified PANEL MEMORY number is turned on.
- [P. Memory inc]: Increment the PANEL MEMORY selection by 1.

[Start/Stop]: START/STOP button on/off [Rhythm Vari] (KN720): VARIATION button on/off

[Rhythm Vari 1-4] (KN920/KN1500): VARI-ATION button on

[Fill in 1]: FILL IN 1 button on

[Fill in 2]: FILL IN 2 button on

[intro/Endng] (KN720): INTRO & ENDING button on

[Intro/Endng 1] (KN920/KN1500): INTRO & ENDING 1 button on

[Intro/Endng 2] (KN920/KN1500): INTRO & ENDING 2 button on

[Sustain]: SUSTAIN button on/off

[MSP] 1-4 (KN720)/1-6 (KN920/KN1500): Specified MANUAL SEQUENCE PADS button on

[Dig Effect]: DIGITAL EFFECT button on/off

[Chorus] (KN720): CHORUS button on/off [DSP Effect] (KN920/KN1500): DSP EFFECT button on

[Glide]: Glide on/off (The glide effect "bends" the pitch down by about one semitone.)

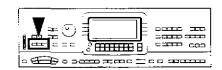
[Techni-Chord]: **TECHNI-CHORD** button on/off

[Rotary Speed] (KN920/KN1500): DSP EF-FECT rotary speed (Slow/Fast)

When you have completed making the settings, press the MEMORY & CONTROL button to turn it off.

# Part IV Sequencer

# **Outline of the Sequencer**



A sequencer records your performance in a similar way to a tape recorder. This instrument'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 instrument'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 instrument'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 (KN920/ KN1500)

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

- Features and operation of the built-in Disk Drive are explained in Part VII: Disk Drive (page 89).
- KN720: Your performance data can be stored in this instrument's memory. (Refer to page 87.)

# 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 a chord progression

Use the STEP RECORD to store a chord progression for the automatic accompaniment, and the rhythm changes, note by note.

# **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 10,000 (KN720)/30,000 (KN920/KN1500). The remaining memory available for recording is shown on the display as a percentage.

 When "MEMORY FULL!" appears on the display, no more data can be stored in the SE-QUENCER.

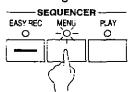
#### About the measure count

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 71.)

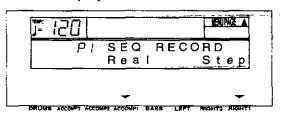
• KN920/KN1500: If you wish to use a time signature not available in the preset rhythms, use the COMPOSER to create a new time signature. (Refer to page 77.)

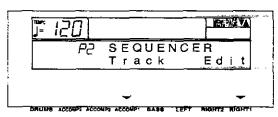
# **SEQUENCER MENU**

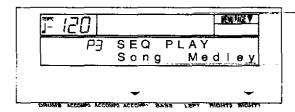
When you press the **MENU** button in the **SE-QUENCER** section to turn it on, the display changes to the following.



 Use the PAGE buttons to view the three pages of menu display.







# Summary of the SEQUENCER menu items [P1 SEQ RECORD]

Real (REALTIME RECORD) (page 64) Record your performance just as you play it on the keyboard.

Step (STEP RECORD) (page 68)
Store the chord progression for the automatic accompaniment, and the rhythm changes.

#### [P2 SEQUENCER]

Track (TRACK ASSIGN) (page 72)
Assign parts to up to 16 different tracks.

# Edit (page 73)

Full-scale editing features are available.

[Song Clear]: Erase the recorded contents of a specific song.

[Track Clear]: Erase the contents of a specific track.

[Quantize]: Correct the timing of the recorded performance.

[Song Copy]: Copy specific songs.

[Panel Write]: Modify the panel status at the beginning of the song.

# [P3 SEQ PLAY]

Song (page 61)

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

# Medley (page 76)

Specify medley playback of songs.

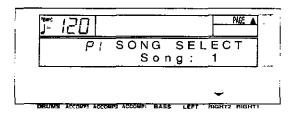
# Song

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

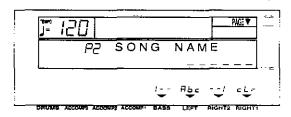
- Press the MENU button in the SEQUENCER section to turn it on.
- Use the PAGE buttons to select [P3 SEQ PLAY].
- · The display looks similar to the following.



- 3. Press either ACCOMP 1 button.
- · The display looks similar to the following.



- 4. Use the RIGHT 2 ∧ and ∨ buttons to select a song number (1 to 10).
- If you wish to assign a name to the song, press the PAGE > button.
- · The display looks similar to the following.



- 6. Assign a name to the song (up to 6 characters).
- Use the BASS or RIGHT 2 buttons to highlight the character position. Use the LEFT (Abc) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press either RIGHT 1 (cLr) button.
- 7. Use the **EXIT** button to return to the MENU display.
- 8. Follow the procedures to record the song.
- The same procedure is used to select the song to play back.
- Until this procedure is repeated, all subsequent recording and playback procedures are associated with the specified song number.
- To optimize memory, songs you do not wish to preserve should be deleted. (Refer to page 73.)

# **Easy Record**

Suppose you are playing your instrument 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.

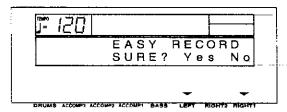
# **Recording** procedure

1. Select the song number. (Refer to page 61.)

- 2. Set the desired sounds, effects, rhythms, etc.
- 3. In the SEQUENCER section, press the EASY REC button to turn it on.



· The display changes to the following.



 EASY RECORD is not available if GENERAL MIDI is set to On. (Refer to page 120.)

# 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 either LEFT (Yes) button.
- To cancel the procedure, press either RIGHT 1 (No) button.
- · The display changes to the REC display.
- 5. Play the keyboard.
- Recording begins as soon as you start the rhythm or play the keyboard.
- 6. When you have finished recording, press the **EASY REC** button in the **SEQUENCER** section to turn it off.
- · The display changes to the SEQ PLAY display.

# **Playback**

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 PLAY button in the SE-QUENCER section to turn it off.

# Sequencer parts

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

Part name [name on display]	Used for	Recorded contents
RIGHT1 [Right1] RIGHT2 [Right2] LEFT [Left] PART4 [Part 4] : PART15 [Part15]	Recording the performance of each part (REALTIME)	<ul> <li>Sound and volume settings</li> <li>Sustain pedal operation</li> <li>DIGITAL EFFECT, CHORUS (KN720), DSP EFFECT (KN920/KN1500) on/off</li> <li>PITCH BEND wheel operation</li> <li>MODULATION wheel operation (KN1500)</li> </ul>
DRUM [Drum] (Part16)	Recording the drums performance with the KEYBOARD PERC group sounds (REALTIME)	Sound (drum KIT) and volume settings
CONTROL [Control]	Recording changes in the panel button status (REALTIME)	Rhythm setting and selection changes VARIATION on/off (KN720) VARIATION selection (KN920/KN1500) DIGITAL REVERB on/off AUTO PLAY CHORD status ON BASS on/off MUSIC STYLE ARRANGER status (KN920/KN1500) FILL IN, INTRO & ENDING on PANEL MEMORY selection changes TRANSPOSE status TECHNI-CHORD on/off START/STOP on/off TEMPO setting CONDUCTOR status MANUAL SEQUENCE PADS operation Expression pedal operation (separately sold option) (KN1500)
AUTO PLAY CHORD [APC]	Recording chords for the AUTO PLAY CHORD (REALTIME)	• AUTO PLAY CHORD status • START/STOP on/off • FILL IN, INTRO & ENDING on
CHORD [Chord]	Recording the chord progression for the AUTO PLAY CHORD (STEP)	Chord progression     FILL IN, INTRO & ENDING on
RHYTHM [Rhythm]	Settings related to rhythm (STEP)	<ul> <li>Rhythm settings and selection changes</li> <li>VARIATION on/off (KN720)</li> <li>VARIATION selection (KN920/KN1500)</li> <li>TEMPO setting and changes</li> <li>FILL IN, INTRO &amp; ENDING on</li> <li>START/STOP on/off</li> </ul>

• You can use the TRACK ASSIGN function to assign parts to tracks as you wish. (Refer to page 72.)

# ■ Default part settings

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

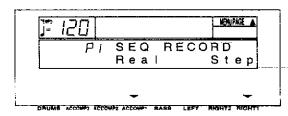
# **Realtime Record**

ng prica Pilager .....

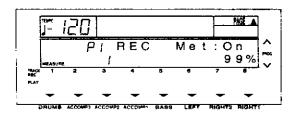
With REALTIME RECORD, your performance is recorded with the timing exactly as you played it on the keyboard. And with the 16 tracks, you can even record your performance one track at a time (multi-track recording).

# **Recording procedure**

- 1. Select a song number. (Refer to page 61.)
- 2. On the SEQUENCER menu display, select P1.
- The display looks similar to the following.



- 3. Press either ACCOMP 1 (Real) button.
- · The display looks similar to the following.



- 4. Use the buttons below the display to select the track numbers you are going to record.
- In the REC row, turn on the horizontal bar for TRACK numbers you are going to record.
- You can press the OTHER PARTS/TRACKS button to view the display for tracks 9 to 16.
- While you are recording, you can play back tracks which are already recorded. In the PLAY row, turn on the horizontal bar for TRACK numbers you wish to have played back.
- The part name for the selected recording track is shown on the display.
- You can select two or more tracks to record at one time. For performance parts, use the CONDUCTOR buttons to turn on the parts for the selected tracks (you should be able to hear them).
- When recording a track for the AUTO PLAY CHORD (APC) part, turn on the AUTO PLAY CHORD button. In this case, when recording begins, press the START/STOP button to begin the rhythm.
- The track for the RHYTHM ([Rhythm]) part can be selected for recording only when STEP RECORD is active.

- 5. Set the sounds, effects and volume as desired.
- The settings which are in effect at the time that recording begins are stored at the very beginning of the song.
- Use the TEMPO buttons or TEMPO/PRO-GRAM dial (KN1500) 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, select the CONTROL part, or use STEP RECORD: RHYTHM. (Refer to page 71.)
- 7. Turn the metronome on or off (On/Off) as desired with the TRANSPOSE (PROG) ∧ and ∨ buttons.
- The metronome sound is not recorded.
- 8. 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 remaining memory is shown on the display as "%".
- If you wish to adjust the volume balance of each track, the metronome, etc., during recording, press the BALANCE button and adjust the volume on the SEQ BALANCE display. Press the OTHER PARTS/TRACKS button if you wish to view other tracks, etc.
- If you wish to redo the recording or change the recording track, press the EXIT button. In this case, recording is terminated, so select the recording tracks again. You can change the panel settings at this time, if desired.

- When you have finished recording, press the MENU button in the SEQUENCER section to turn it off.
- When the MENU button is turned off, the ending command 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 SEQ PLAY display.

# ■ Multi-track recording

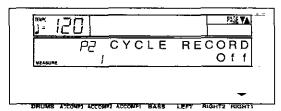
To record the next track immediately after the first track is completed, press the EXIT button. The track you just recorded changes to a "PLAY" track. Use the buttons below the display to specify "REC" for the next track you wish to record, and make the various settings (sound, etc.) for the track. Next, press the START/STOP button and record the track. The "PLAY" tracks are played back while you record. You can repeat these steps until your multi-track recording is complete.

- For multi-track recording, be sure to press the START/STOP button to begin recording.
- If after recording you wish to change the panel setting and store them as the beginning song data, follow the PANEL WRITE procedure. (Refer to page 75.)

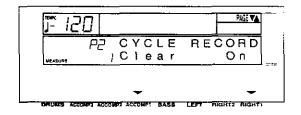
# **CYCLE RECORD**

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

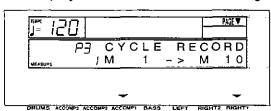
- On the REC display, specify "REC" for the track number you are going to record, and "PLAY" for track numbers you wish to have played back.
- 2. Press the PAGE ∧ button.
- The display looks similar to the following.



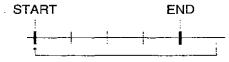
- 3. Press the RIGHT 1 \( \text{button to select "On".}
- · The display looks similar to the following.



- 4. Press the PAGE ∧ button.
- The display looks similar to the following.



- 5. Use the **ACCOMP 1** ∧ and ∨ buttons to specify the beginning measure number.
- Use the RIGHT 1 ∧ and ∨ buttons to specify the ending measure number.
- The ending measure you specify becomes the last measure of the cycle.



- 7. Press the START/STOP button.
- Cycle recording of the specified measures begins. If the metronome is on, cycle recording begins after a two-measure count.
- The rhythm does not start.

(Continued on the next page)

- 8. 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 either AC-COMP 1 (Clear) button on the P2 display.
- The maximum number of notes which can sound simultaneously for a track is 16.
- 9. When you have finished recording, turn off the MENU button in the SEQUENCER section.
- · The display changes to the SEQ PLAY display.

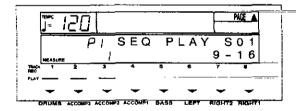
# Sequencer Play

Play back your recorded performance.

- 1. Select a song number. (Refer to page 61.)
- In the SEQUENCER section, press the PLAY button to turn it on.



· The display looks similar to the following.



- 3. Use the buttons below the display to select the track numbers you wish to have played back.
- In the PLAY row, turn on the horizontal bars for the TRACK numbers you wish to have played back.
- You can press the OTHER PARTS/TRACKS button to view the display for tracks 9 to 16.
- On the display for tracks 1–8, a "9–16" indication means that at least one track from tracks 9–16 is selected as a playback track.
- You can select two or more tracks to play back at one time.
- The current song number is shown on the display (S01 to S20).

- If necessary, use the TEMPO buttons or the TEMPO/PROGRAM dial (KN1500) to adjust the playback tempo.
- The tempo is shown on the display as " =".
- If the tempo was stored in the CONTROL or RHYTHM part, when that part is played back, the stored tempo data has priority.
- 4. Press the SEQUENCER RESET (FILL IN 1) button.
- The SEQUENCER returns to the beginning of the song and the beginning panel settings are recalled.
- To begin playback from a measure other than measure 1, use the PAGE ∧ button to select [P4 SEQ PLAY].
- The display looks similar to the following.



- 6. Use the **ACCOMP 2** ∧ and ∨ buttons to select the beginning playback measure.
- By pressing and holding either BASS (Fwd) button, you can fast-forward to the desired measure while listening to the sound. This button does not function during playback.
- "MEASURE" indicates the current measure number.

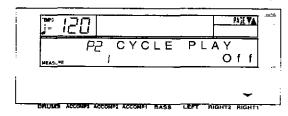
- 7. Press the START/STOP button.
- The recorded performance is played back from the specified measure.
- When playback is begun from a measure in which an INTRO, COUNT INTRO, FILL IN or ENDING is recorded, the corresponding function does not work.
- If you wish to adjust the volume balance of each track or each AUTO PLAY CHORD part, for example, press the BALANCE button and adjust the volume on the SEQ BALANCE display. Press the OTHER PARTS/TRACKS button if you wish to view other tracks and parts.
- 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.

- When you are finished playing back your performance, press the PLAY button in the SE-QUENCER section to turn it off.
- During STEP RECORD or EDIT operations, the MEASURE indication on the display conforms to the time signature data recorded in the RHYTHM part.
- If you wish to play back a different song, use the RIGHT 1 ∧ and ∨ buttons on the P4 display to select a different song number.
- Even if you press the EXIT button, for example, to exit the SEQ PLAY display, as long as the PLAY button is on, the song will be played back when the START/STOP button is pressed. In this case, even when the normal performance display is shown, the song may be played back without the rhythm start when the START/STOP button is pressed. Therefore, be sure to turn off the PLAY button if you do not wish to play back the recorded performance.

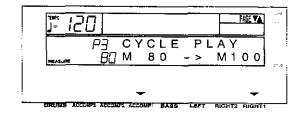
# **CYCLE PLAY**

You can have specified measures played back repeatedly.

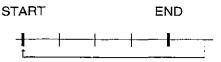
- On the P1 SEQ PLAY display, specify "PLAY" for track numbers you wish to have played back.
- 2. Press the PAGE A button.
- · The display looks similar to the following.



- 3. Press the RIGHT 1 \( \triangle \) button to select On.
- Press the PAGE ∧ button.
- · The display looks similar to the following.



- 5. Use the **ACCOMP 1** ∧ and ∨ buttons to specify the beginning measure number.
- 6. Use the **RIGHT 1** ∧ and ∨ buttons to specify the ending measure number.
- The ending measure you specify becomes the last measure of the cycle.



- 7. Press the START/STOP button.
- Cycle playback of the specified measures begins.
- 8. 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 5. If the SEQUENCER RESET button is pressed again, the SEQUEN-CER returns to measure 1.

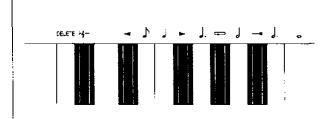
# **Step Record**

# 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.

merch series

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



#### Note value keys

- Whole note
- .. Dotted half-note
- a Half-note
- J. Dotted guarter-note
- Quarter-note
- Eighth-note

# Reset key

14- 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 key

Press after the whole chord progression has been stored.

#### DELETE key

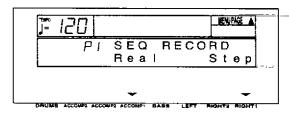
DELETE Press to erase data.

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

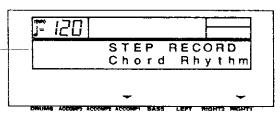
#### ■ Example of storing a chord progression

Measure 1	2	3		4	
С	С	F	G7	C	Am
o	0	; 6	j	ال إ	ا

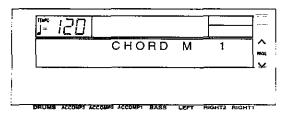
- 1. Select the song number. (Refer to page 61.)
- 2. On the SEQUENCER menu display, select P1.
- · The display changes to the following.



- 3. Press either RIGHT 1 (Step) button.
- · The display changes to the following.



- 4. Press either ACCOMP 1 (Chord) button.
- · The display changes to the following.



5. 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 chord name is shown on the display.
- The measure automatically advances, in accordance with the specified note value.

<Measure 3>

(1) While playing an F chord, press the , key one time



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



<Measure 4>

(1) While playing a C chord, press the , key one time



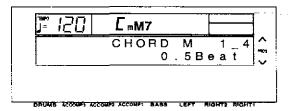
(2) While playing an Am chord, press the , key one time.



- You can press an INTRO & ENDING button or a FILL IN button on the panel to store the desired pattern at the current position. (An INTRO or COUNT INTRO can be stored only at the beginning.)
- 6. At the end of the chord progression, press the End key ( I).
- This instrument 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 ( —I).
- 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.

## ■ Correct the recorded chord progression

- 1. Follow the procedure to select the STEP RECORD: CHORD display.
- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to go to the measure you wish to modify. Use the ◀ and ▶ Correction keys to move the point you wish to edit.



- The measure number is indicated in the upper row. (Example: [1\_4] indicates the fourth beat of the first measure.)
- In the lower row, the note length of the specified note is indicated in Beat units.
- To go to the end of the chord progression, while pressing the Reset key (1½), press the
   ✓ key.
- 3. Correct the chord data.

#### Chord data

When the chord name is displayed, 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.

### 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, hold down the **DELETE** key and press the End  $(\longrightarrow 1)$  key.

#### 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.

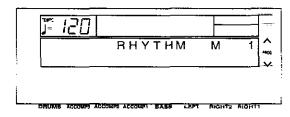
- 1. Select the song number. (Refer to page 61.)
- 2. On the SEQUENCER menu display, select P1.
- The display looks similar to the following.



- 3. Press either RIGHT 1 (Step) button.
- · The display changes to the following.



- 4. Press either RIGHT 1 (Rhythm) button.
- The display changes to the following.



- 5. Use the **TRANSPOSE** (PROG) ∧ and ∨ buttons to go to the measure you wish to record.
- 6. Store the rhythm data.
- · Data which can be stored:

#### START/STOP

Changes in the rhythm selection Changes in the VARIATION 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.
- Repeat steps 5 and 6 to continue storing the rhythm progression.

- 8. At the end of the rhythm progression, press the End key.
- If the Repeat key is pressed instead of the End key, during playback the recorded rhythm progression is repeated.
- · This instrument exits the recording mode.

#### ■ Correct the recorded rhythm progression

- Follow the procedure to select the STEP RECORD; RHYTHM display.
- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons or the ◀ and ▶ Correction keys to move the point you wish to edit.



- 3. Correct the rhythm data.
- · Press the DELETE key to erase data.
- 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.

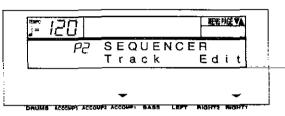
#### **■ TRACK CLEAR**

To erase all data from the current track, while the RHYTHM display is shown, hold down the **DELETE** key and press the End ( —4) key.

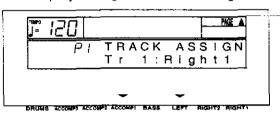
## Track Assign

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 61.)
- 2. On the SEQUENCER menu display, select P2.
- · The display looks similar to the following.



- 3. Press either ACCOMP 1 (Track) button.
- The display changes to the following.

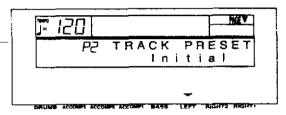


- Use the ACCOMP 1 ∧ and ∨ buttons to select the track.
- 5. Use the LEFT  $\wedge$  and  $\vee$  buttons to select the part for the specified track.
- Select one of the following parts: [Right1], [Right2], [Left], [Part4] to [Part15], [Drum], [APC], [Chord], [Control], [Rhythm]. (For an explanation of each SEQUENCER part, refer to page 63.)
- When a part other than the [Control], [APC/Chord] or [Rhythm] part is assigned, the track assign procedure is completed at this point.
- The [Rhythm], [Control] and [APC/Chord] parts cannot be assigned to more than one track.
- When assigning the [Control], [APC/Chord] or [Rhythm] part, press either RIGHT 1 button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

#### TRACK ASSIGN PRESETS

A preset track assignment can be selected.

- 1. While the P1 TRACK ASSIGN display is shown, press the **PAGE**  $\wedge$  button.
- The display looks similar to the following.



- 2. Use the LEFT ∧ and ∨ buttons to select the —track assign mode.
- · Select from the following modes.

Initial: Factory-preset settings.

Tech Multi: The optimum track assignment for a 16-part multi-timbre sound generator.

GM Multi: The optimum track assignment for creating GENERAL MIDI data.

- Press the EXECUTE (SYNCHRO & BREAK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.
- If [Yes] was selected, "COMPLETED!" is shown on the display and the selected track assign mode is enabled.
- After the TRACK PRESET is executed, you can use the ACCOMP 1 ∧ and ∨ buttons to check the track assignment.

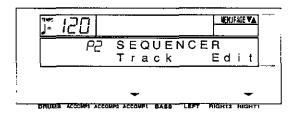
# 

## **Editing the recorded performance**

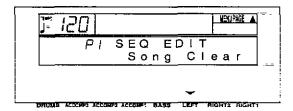
The edit feature allows you to erase or change portions of your performance after it has been recorded.

#### Select the edit function

- 1. Select the number of the song you wish to edit. (Refer to page 61.)
- 2. On the SEQUENCER menu display, select P2.
- · The display changes to the following.



- 3. Press either RIGHT 1 (Edit) button.
- The display changes to the following SEQ EDIT menu display.



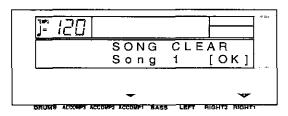
4. Use the PAGE ∧ and ∨ buttons to select a menu item.

P1: [Song Clear]
P2: [Track Clear]
P3: [Quantize]
P4: [Song Copy]
P5: [Panel Write]

- 5. Press either LEFT button.
- The display changes in accordance with your selection.
- 6. Perform the editing procedures.
- During the editing procedure, you can press the EXIT button to go back to the SEQ EDIT menu display.

#### **SONG CLEAR**

Erase the recorded contents of a specified\_song.



- 1. Use the **ACCOMP 1** ∧ and ∨ buttons to specify the number of the song to erase.
- If [All] is selected, all the songs recorded in the SEQUENCER will be erased.
- 2. Press either RIGHT 1 (OK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.
- If [Yes] was selected, "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.



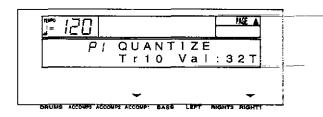
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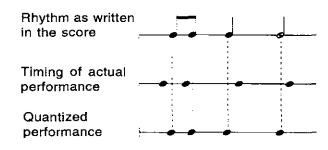
- 1. Use the ACCOMP 1 ∧ and ∨ buttons to select the track you wish to clear.
- If [All] is selected, the data is erased from all the tracks.

- 2. Press either RIGHT 1 (OK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.
- If [Yes] was selected, "COMPLETED!" appears on the display, and the specified tracks are erased.
- 3. To erase more than one track, repeat steps 1 and 2.

#### **QUANTIZE**

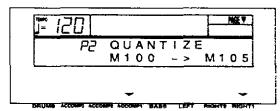
The QUANTIZE function can correct the timing of your performance after it has been recorded. If the rhythm is slightly out of sync or inexact, it will automatically be corrected to the specified quantize level.





- Use the ACCOMP 1 ∧ and ∨ buttons to specify the track number.
- You cannot quantize the track for the [Control], [Rhythm] or [APC/Chord] part.
- If [All] is selected, all the tracks are quantized.

- 2. Use the RIGHT 1 ∧ and ∨ buttons to specify the quantize level.
- This setting specifies the timing (minimum note value) on which the quantizing will be based.
- Select from 4, 8, 16, 32, 8T, 16T, 32T.
   (Example: 16=sixteenth note: T=triplet-type note.)
- 3. Press the PAGE A button.
- · The display changes to the following.

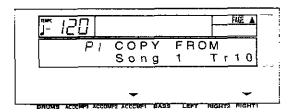


- Use the ACCOMP 1 ∧ and ∨ buttons to specify the start point (measure number).
- 5. Use the RIGHT 1 ∧ and ∨ buttons to specify the end point (measure number).
- Press the EXECUTE (SYNCHRO & BREAK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

# 

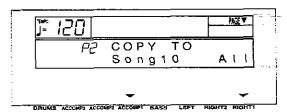
#### **SONG COPY**

Copy the recorded data from specific tracks of a song.



- 1. Use the **ACCOMP 1** ∧ and ∨ buttons to specify the song number to copy from.
- 2. Use the RIGHT 1 ∧ 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.

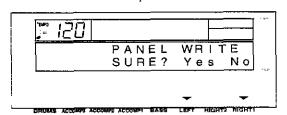
- 3. Press the PAGE A button.
- · The display changes to the following.



- Use the ACCOMP 1 ∧ and ∨ buttons to specify the song number to copy to.
- 5. Use the **RIGHT 1** ∧ 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.
- Press the EXECUTE (SYNCHRO & BREAK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

#### **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 **SEQUEN-CER RESET** button is pressed.

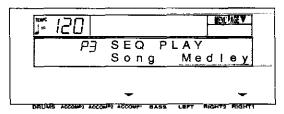


- 1. Use the panel buttons to change to the desired panel settings.
- 2. Press either LEFT (Yes) button.
- To cancel the procedure, press either RIGHT 1 (No) button.
- If the [Yes] button is pressed, "COMPLETED!" is shown on the display.
- PANEL WRITE is automatically activated at the beginning of the REALTIME RECORD, or when a panel setting is changed during recording standby.

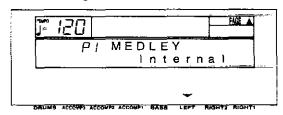
## **Sequencer Medley**

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

- On the SEQUENCER menu display, select P3 SEQ PLAY.
- The display looks similar to the following.



- 2. Press either RIGHT 1 (Medley) button.
- KN920/KN1500: The display looks similar to the following.

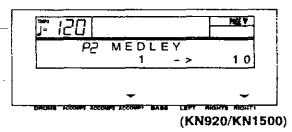


- KN720: Skip to step 5.
- KN920/KN1500: Use the LEFT A and buttons to specify which songs you wish to have played.

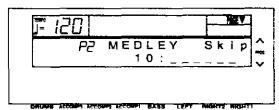
Internal: Play back song data from this instrument's **SEQUENCER** memories.

- FD Technics: Play back Technics format song data saved on the floppy disk in the disk drive.
- Other FD: Play back Standard MIDI File (Format 0) and DISK ORCHESTRA COLLECTION™ (DOC) song data saved on the floppy disk in the disk drive.
- Note that if [FD Technics] is selected and mediev play is executed, all song data (SONG 1-10) currently stored in the SEQUENCER memory is destroyed.

- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.

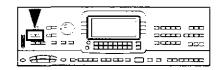


- Use the RIGHT 1 ∧ and ∨ buttons to specify the last song.
- 7. Press the START/STOP button.
- The songs are played back in the specified order.
- · The display looks similar to the following.



- You can press either TRANSPOSE (PROG) button to skip to the next song.
- 8. To stop medley play, press the **START/STOP** button.
- KN920/KN1500: Features and operation of the Disk Drive are explained in "Part VII Disk Drive" (page 89).

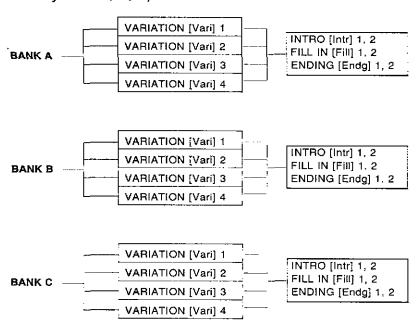
## **Outline of the Composer**



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 three 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 END-ING patterns for each bank (A, B, C). These patterns are played back when the COM-POSER MODE is set to [Expand]. (Refer to page 83.)

#### **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=%).

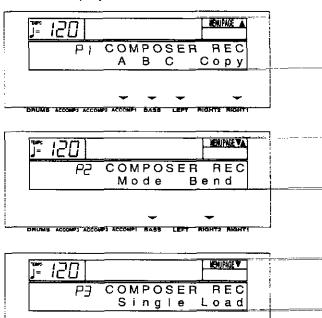
- When "MEMORY FULL!" appears on the display no more data can be stored in the COM-POSER.
- The recorded COMPOSER data can be saved to a disk and later quickly recalled (COM-POSER LOAD). (Refer to page 92.)

#### **COMPOSER RECORD menu**

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



 Use the PAGE buttons to view the three pages of menu display.



#### Summary of the COMPOSER menu items

#### [P1 COMPOSER REC]

A/B/C (pages 79 and 80)

Create a pattern in each of the A, B, C banks.

#### Copy (page 79)

Copy a preset rhythm pattern into a memory.

#### [P2 COMPOSER REC]

Mode (page 83)

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

#### Bend (page 84)

Set the pitch range for when the PITCH BEND wheel is operated during recording of the ACCOMP and BASS parts.

#### [P3 COMPOSER REC]

Single Load

Recall the desired COMPOSER data from data saved on a disk. The items on this menu are also on the MEMORY & CONTROL menu, and the procedures are the same (page 93).

#### Two ways to record in the COMPOSER

There are two ways to create and record a rhythm.

#### ■ Edit a preset rhythm (pages 79 and 82)

Use the copy function to copy a preset rhythm to a memory, change parts of it, and then store it as a new rhythm.

### ■ Create a completely new rhythm (pages 80 and 82)

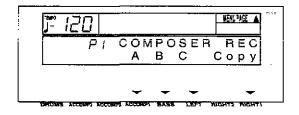
Clear the memories and compose a completely new rhythm from scratch.

## 

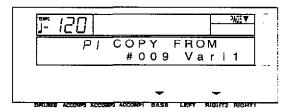
## Edit a preset rhythm pattern: preparation

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 patterns to a location in the specified memory bank.

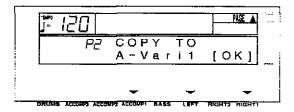
- 1. On the **COMPOSER RECORD** menu display, select P1.
- · The display looks similar to the following.



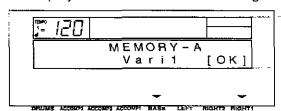
- 2. Press either RIGHT 1 (Copy) button.
- The display looks similar to the following.



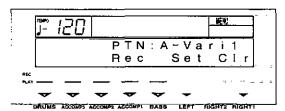
- 3. Use the BASS ∧ and ∨ buttons to select a rhythm number to copy.
- 4. Use the RIGHT 2 ∧ and ∨ buttons to select the name of the section to copy from.
- Select from Vari (VARIATION) 1–4, Intr (INTRO) 1, 2, Endg (ENDING) 1, 2, V (VARIATION) 1FI (FILL IN) 1, 2, V2FI 1, 2, V3FI 1, 2, V4FI 1, 2.
- 5. Press the PAGE A button.
- · The display looks similar to the following.



- 6. Use the **ACCOMP 1** ∧ and ∨ buttons to select a memory bank to copy to (A, B, C).
- 7. Use the LEFT ∧ and ∨ buttons to select the section name to copy to.
- Select from Vari 1-4, Intr 1, 2, Fill 1, 2, Endg 1, 2.
- 8. Press either RIGHT 1 (OK) button.
- When copying has been successfully completed, "COPY COMPLETED!" appears on the display.
- 9. Press the EXIT button to view the P1 display.
- 10. Select the bank to which you copied the rhythm pattern (the memory bank you selected in step 6: A, B or C).
- The display looks similar to the following.

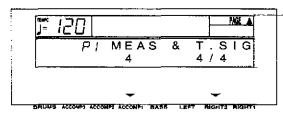


- 11.Use the BASS ∧ and ∨ buttons to select the section name to which you copied the section (the section name you selected in step 7).
- 12. Press either RIGHT 1 (OK) button.
- The display looks similar to the following.

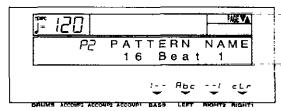


(Continued on the next page)

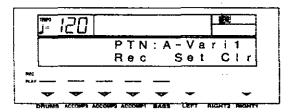
- 13.If you wish to name your new rhythm pattern (except for FILL IN, INTRO and ENDING), press either LEFT (Set) button.
- If you do not input a name for your rhythm pattern, the name becomes the same as the original rhythm from which you copied. Skip to step 17.
- The display looks similar to the following.



- 14. Press the **PAGE** ∧ button to view the P2 PAT-TERN NAME display.
  - · The display looks similar to the following.



- Type a new name for your rhythm pattern (up to 12 characters).
- Use the BASS or the RIGHT 2 buttons to highlight the character position. Use the LEFT (Abc) ∧ and ∨ buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase all the characters, press either RIGHT 1 (cLr) button.
- Press the EXIT button to return to the following display.



17. Press a [Rec] button to select the rhythm part you want to record first.

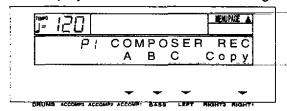
BASS
ACCOMP 1
ACCOMP 2
ACCOMP 3
DRUMS

 The pattern you copied and the metronome sound start, and recording begins. (Refer to page 82.)

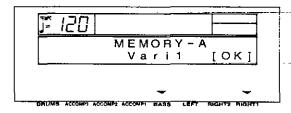
## Create a completely new rhythm: preparation

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

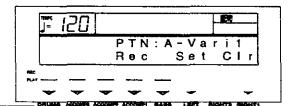
- On the COMPOSER RECORD menu display, select P1.
- · The display looks similar to the following.



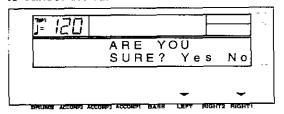
- 2. Select a bank in which to record the rhythm (A, B or C).
- · The display looks similar to the following.



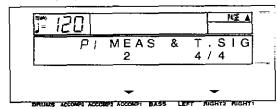
- 3. Use the **BASS** ∧ and ∨ buttons to specify the section you are going to create.
- Select from Vari 1-4, Intr 1, 2, Fill 1, 2, Endg
   1, 2.
- 4. Press either RIGHT 1 (OK) button.
- The display looks similar to the following.



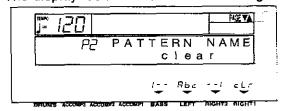
- 5. Press either RIGHT 1 (Clr) button.
- The following confirmation display appears.
   Press either LEFT (Yes) button to execute the function, or press either RIGHT 1 (No) button to cancel the function.



- If [Yes] was selected, "COMPLETED!" appears on the display, and the contents of all parts are cleared.
- 6. Press either LEFT (Set) button.
- · The display looks similar to the following.



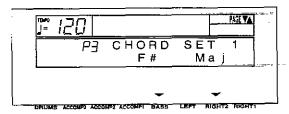
- 7. Use the ACCOMP 1 \( \times\) and \( \times\) buttons to specify the number of measures in your repeating rhythm pattern (1 to 8).
- 8. Use the RIGHT 2 ∧ and ∨ buttons to specify the time signature (1/4 to 8/4).
- The settings for the number of measures and the time signature can be changed only if all the parts of the pattern were cleared in step 5.
- Press the PAGE 
   button to view the P2 PAT-TERN NAME display (except for FILL IN, INTRO and ENDING).
- · The display looks similar to the following.



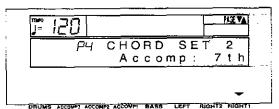
- 10. Type a name for your rhythm pattern (up to 12 characters).
  - Use the BASS or RIGHT 2 \( \times\) and \( \times\) buttons to highlight the character position. Use the LEFT (Abc) \( \times\) and \( \times\) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase all the characters, press either RIGHT 1 (cLr) button.

- 11.If you wish to record a performance in a key other than C major, or if you wish to specify the type of chord progression, press the **PAGE** 

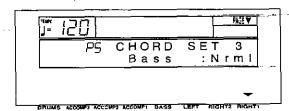
  h button to view the P3 CHORD SET 1 display.
- The display looks similar to the following.



- If you do not wish to change these settings, skip to step 17.
- 12.Use the BASS ∧ and ∨ buttons to specify the root note of the chords you wish to record. Use the RIGHT 2 ∧ and ∨ buttons to specify the type of chord you wish to record (Min or Maj).
- 13. Press the PAGE ∧ button to view the P4 CHORD SET 2 display.
- · The display looks similar to the following.



- 14. Use the RIGHT 1 ∧ and ∨ buttons to specify the type of phrase progression for the AC-COMP parts (Normal [Nrml], or 7th).
- 15. Press the **PAGE**  $\land$  button to view the P5 CHORD SET 3 display.
- The display looks similar to the following.

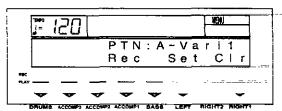


16. Use the **RIGHT** 1 ∧ and ∨ buttons to specify the type of phrase progression for the **BASS** part (Normal [Nrml], or 7th).

(Continued on the next page)

1 4

17. Press the **EXIT** button to return to the following display.



18. Press a [Rec] button to select the rhythm part you want to record first.

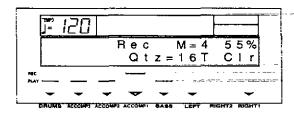
BASS ACCOMP 1 ACCOMP 2 ACCOMP 3 DRUMS

 The metronome sound starts and recording begins.

## **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 DRUMS part, select sounds from the KEYBOARD PERC sounds.
- For the ACCOMP 1 to 3 and the BASS parts, select sounds from groups other than the KEY-BOARD PERC sounds. You can also set the DIGITAL EFFECT to on or off.
- Depending on the selected sound, the sound quality may differ from that during a normal performance.
- 3. 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 "M=".
- Record the performance in C major for correct chord progressions during playback. To record the performance in a different scale, refer to page 81.
- The PITCH BEND wheel operation and SUS-TAIN on/off are also recorded (except for the DRUMS part).
- 4. When you have finished recording one part, use the [Rec] buttons below the display to select the next part to record.
- The ▼ mark for the selected part only flashes.
- Repeat steps 1 through 4 to record all the parts of the rhythm.
- When you have finished recording the rhythm, press the RECORD button in the COMPOSER section to turn it off.

# 

#### **■** Functions during recording

#### Cir

Press either RIGHT 1 (CIr) button if you wish to erase all recorded contents of the currently selected part.

#### **INST ERASE**

When the **DRUMS** part is selected, the **DRUMS** part can be cleared instrument by instrument. Hold down the **INST ERASE** (**SPLIT POINT**) 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.

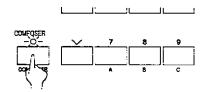
#### Qtz (QUANTIZE)

Set the desired quantize level to smooth out any unevenness in the timing of your performance. Use the LEFT  $\wedge$  and  $\vee$  buttons to specify the timing (minimum note value) on which the quantizing will be based.

Select from 32T, 32, 16T, OFF, 16, 8T, 8, 4.
 (Example: 16=sixteenth note; T=triplet-type note.)

## **Playback**

1. Press the COMPOSER button to turn it on.

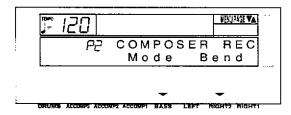


- 2. Use the number pad to select the bank.
- Press 7 for bank A, 8 for bank B, or 9 for bank C.
- 3. Use the **VARIATION & MSA** buttons to select the variation (1 to 4).
- 4. Press the START/STOP button.
- The DRUMS part begins to play back.
- The BASS and ACCOMP parts are played back when you use the AUTO PLAY CHORD.

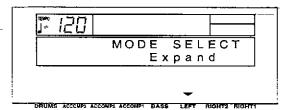
## Composer mode

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.

- 1. On the **COMPOSER RECORD** menu display, select P2.
- The display changes to the following.



- 2. Press either BASS (Mode) button.
- The display looks similar to the following.



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

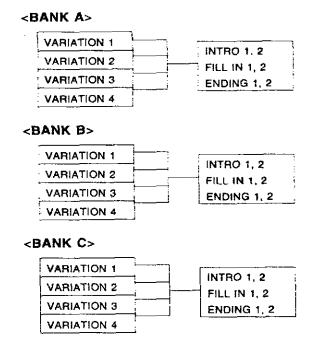
#### ■ Normal

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

#### ■ Expand

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

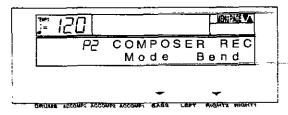
- Only one each FILL IN 1, FILL IN 2, INTRO
  1, INTRO 2, ENDING 1 and ENDING 2 pattern
  can be created for each of the three banks (A,
  B or C). The fill-in patterns, etc. for each bank
  are used for all the basic rhythms in the same
  bank.
- Each pattern of a bank should have the same time signature.



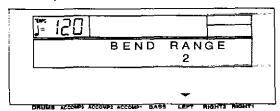
## **Bend Range**

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.

- 1. On the **COMPOSER RECORD** menu display, select P2.
- The display looks similar to the following.



- 2. Press either RIGHT 2 (Bend) button.
- · The display looks similar to the following.



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

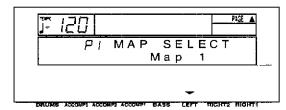
## **Composer Chord Map**

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.

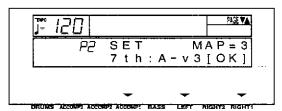
- Store beforehand in a **COMPOSER** memory (Vari 1-4) each accompaniment pattern you are going to perform when a type of chord is selected. When recording a pattern, for the minor type for example, record it in a minor key.
- 1. Press and hold the CHORD MAP button in the COMPOSER section for a few seconds.



· The display looks similar to the following.

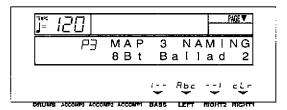


- 2. Use the LEFT ∧ and ∨ buttons to select a map number (Map 1 to 5).
- 3. Press the PAGE ∧ button.
- The display looks similar to the following.



- Use the ACCOMP 1 buttons to select a chord type.
- Select from [Maj] (major), [Min] (minor), [7th], and [Dim] (diminished).
- 5. Use the LEFT \( \times\) and \( \times\) buttons to select a pattern for the chord type (bank name-variation number).
- The accompaniment pattern for the INTRO, FILL IN and ENDING is the one selected for [Maj].
- The accompaniment pattern for chords which are set to [Off] is the same as the pattern for [Maj] chords.

- Repeat steps 4 and 5 for each chord type, as desired.
- Only patterns with the same number of measures and same time signature can be selected.
- 7. When all the settings are completed, press either RIGHT 1 (OK) button.
- "COMPLETED!" appears on the display, and the settings are executed.
- 8. Press the PAGE ∧ button.
- · The display looks similar to the following.



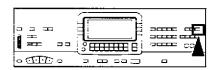
- 9. Assign a name to the map.
- Use the BASS or RIGHT 2 buttons to highlight the character position. Use the LEFT (Abc) ∧ and ∨ buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase all the characters, press either RIGHT 1 (cLr) button.
- 10.Use the PAGE buttons to select P1 MAP SELECT. Repeat steps 3 to 9 to create other maps, as desired.
- 11. When you have finished making the map 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 CHORD MAP button in the COM-POSER section to turn it on.
- 2. Use the number pad to select the number of the desired map (1 to 5).
- The selected map number and map name are shown on the display.
- 3. Play the keyboard using the automatic accompaniment.
- The pattern changes according to the type of chord you play.
- If you select a different rhythm or COMPOSER rhythm, the COMPOSER CHORD MAP function is canceled.

## Store your performance



The stored contents of the SEQUENCER can be saved in this instrument's memory (SAVE).

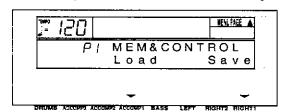
• The stored contents of the PANEL MEMORY and the current panel settings are also stored.

#### SAVE

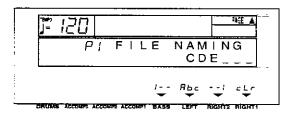
 Press the MEMORY & CONTROL button to turn it on.



· The display looks similar to the following.



- 2. Press either RIGHT 1 (Save) button.
- · The display looks similar to the following.

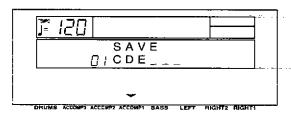


- 3. Assign a name to the song (up to 6 characters).
- Use the BASS and RIGHT 2 buttons to highlight the character position. Use the LEFT (Abc) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press either RIGHT 1 (cLr) button.

4. Press the **EXECUTE** (**SYNCHRO & BREAK**) button.



· The display looks similar to the following.



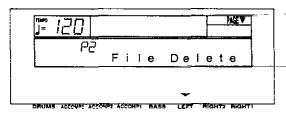
- 5. Use the **ACCOMP 1** ∧ and ∨ buttons to select the file number to save.
- File numbers in which songs are already saved are indicated by the song name.
- The number of files that can be saved is limited. If you are saving several songs which use a lot of memory, the number of files which can be saved will be about three.
- When the internal memory is full, "FILE FULL!" is shown on the display. Use the FILE DELETE function (refer to the next article) to clear any unnecessary files.
- 6. Press the **EXECUTE** (**SYNCHRO & BREAK**) 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 either LEFT (Yes) to continue the save procedure, or press either RIGHT 1 (No) button if you wish to cancel the procedure.

#### **FILE** delete

Use the following procedure to clear a specific file.

\_\_\_\_

- 1. On the FILE NAMING display, press the PAGE ^ button.
- · The display looks similar to the following.



- 2. Press either LEFT button.
- The display looks similar to the following.



- Use the ACCOMP 1 ∧ and ∨ buttons to specify the file to erase.
- 4. Press the EXECUTE (SYNCHRO & BREAK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.
- The contents of the song files are preserved even if the PLAY button is turned off, as long as power is being supplied through the AC adaptor or the batteries.

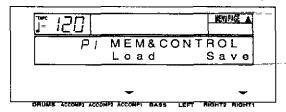
## Recall the stored performance

The contents of the song files can be recalled any time (LOAD).

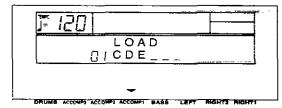
 When the LOAD procedure is performed, the current memory contents (SEQUENCER, PANEL MEMORY, etc.) are replaced by the contents of the selected song file.

#### LOAD

- Press the MEMORY & CONTROL button to turn it on.
- The display looks similar to the following.



- 2. Press either ACCOMP 1 (Load) button.
- · The display looks similar to the following.



- 3. Use the ACCOMP 1 ∧ and ∨ buttons to select the file number to load.
- File numbers and the names of stored songs are shown on the display.
- 4. Press the EXECUTE (SYNCHRO & BREAK) button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.

## Part VII Disk Drive (KN920/KN1500)

### **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 MIDI File	FORMAT 0	0	0
	FORMAT 1	×	0

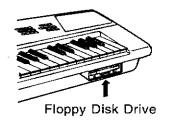
FORMAT 0: There is one track on the disk,

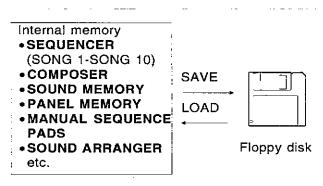
and it contains the 16 MIDI channels.

FORMAT 1:

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

nels.





#### Load commercial software

Disks recorded using the Disk Drive of this instrument can, of course, be played back on your instrument (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.

#### **DIRECT PLAY**

You can play commercially sold song disks immediately without performing the normal load procedure.

 DIRECT PLAY can be used for the following disks:

Standard MIDI File (SMF) disks (FORMAT 0) DISK ORCHESTRA COLLECTION™ (DOC)

#### ■ About Standard MIDI Files

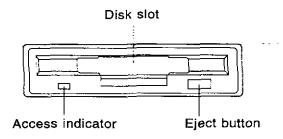
"Standard MIDI File" is a standardized data format which makes it possible for music data to be exchanged among different sequencers. Data stored in this format on sequencers of different models can be played back on this instrument, and vice versa.

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

#### 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.



- 2. Use the PAGE buttons to select the desired
- There are six pages of the menu display.

#### P1 Load (page 91)

Load data in either the Technics File format or Standard MIDI File format from a disk into this instrument's memory.

#### P1 Save (page 97)

Save data from this instrument's memory to a disk, in either the Technics File format or the Standard MIDI File format.

#### P2 Direct Play (page 95)

Immediate playback of commercial song disks.

#### P3 FD Format (page 96)

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

- [P4 Initial] is explained on page 122.
- [P5 Foot Switch] is explained on page 58.
- [P6 Contrast] is explained on page 34.

- Select the desired menu and follow the procedures on the corresponding setting display.
- When you have finished setting the functions, press the MEMORY & CONTROL button to turn it off.

# 

## **Loading data**

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

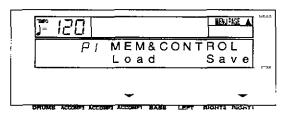
**WARNING:** The load procedure causes any data which is currently stored in the relevant memories to be erased.

#### **DISK LOAD**

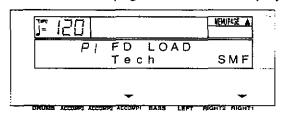
 Insert the disk with the stored data into the Disk Drive. Push it all the way in until you hear a click

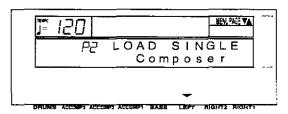


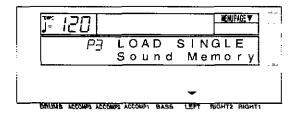
- On the MEMORY & CONTROL menu display, select P1.
- · The display looks similar to the following.



- 3. Press either ACCOMP 1 (Load) button.
- The display changes to the following load menu display.
- There are three pages of the menu display.







4. Select the type of data load you want.

[Tech]: Load data which was saved in the Technics File format (TECHNICS LOAD).

[SMF]: Load data which was saved in the Standard MIDI File format (SMF LOAD).

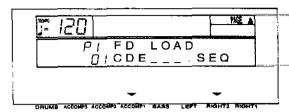
[LOAD SINGLE Composer]: Load **ĆOMPOSER** data from a disk into a specified memory number

[LOAD SINGLE Sound Memory]: Load specified **SOUND MEMORY** data.

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

#### **■ TECHNICS LOAD**

Load data which was saved in the Technics Eile format.



- Use the ACCOMP 1 ∧ and ∨ buttons to select the file on the floppy disk you wish to load (copy) to this instrument's memorles.
- The file name is shown next to each file number.
- 2. Use the **RIGHT 2** ∧ 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.

SEQ: Only SEQUENCER data

CMP: Only COMPOSER data

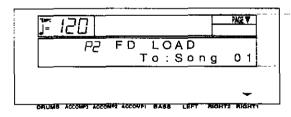
SND: Only SOUND MEMORY data

PNL: 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.
- 3. For a SEQ file, press the PAGE A button.
- · The display looks similar to the following.



- Use the RIGHT 1 \( \times\) and \( \times\) buttons to select the song number in this instrument's memories to which you wish to have the file loaded (copied).
- If you are loading a file that was saved with the ALL option selected, this display will not appear even if SEQ is selected in step 2.
- SEQUENCER data is loaded one song at a time. However, if you load a file for which ALL was selected, SEQUENCER songs 1 to 10 are loaded at once.

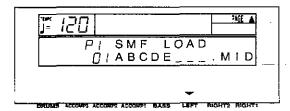
4. Press the EXECUTE (SYNCHRO & BREAK) button.



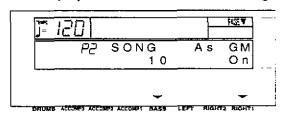
- · The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If song data was loaded, you can press the START/STOP button to begin playback when the PLAY button of the SEQUENCER is on.
- You can quickly load just the COMPOSER data by pressing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

#### ■ SMF LOAD

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



- Use the LEFT ∧ and ∨ buttons to select the file.
- 2. Press the PAGE ^ button.
- · The display looks similar to the following.



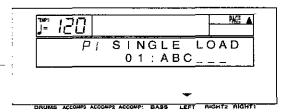
- 3. Use the **BASS**  $\wedge$  and  $\vee$  buttons to select the song.
- Data is loaded one song at a time.
- Use the RIGHT 1 ∧ and ∨ buttons to specify whether or not to load the song as GENERAL MIDI (GM) (On/Off).
- If the GM setting you specify is different from the setting in the file, the sounds, the octave, and the arrangement of percussion sounds on the keyboard will be different.
- Information about GENERAL MIDI can be found on page 112.
- 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.
- 5. Press the EXECUTE (SYNCHRO & BREAK) button.



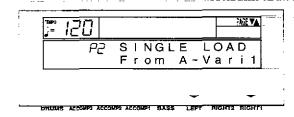
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- Press the START/STOP button to begin playback.

#### **■ LOAD SINGLE COMPOSER**

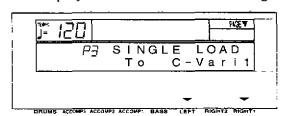
Load the desired **COMPOSER** data from a disk into a specific **COMPOSER** memory.



- Use the LEFT ∧ and ∨ buttons to select the number of the file with the data you wish to load.
- 2. Press the PAGE A button.
- The display looks similar to the following.



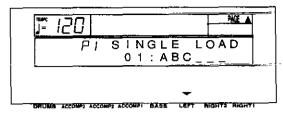
- 3. Select the pattern you wish to load.
- Use the LEFT ∧ and ∨ buttons to specify the bank name, and the RIGHT 1 ∧ and ∨ buttons to specify the section name.
- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.



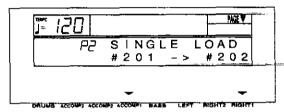
- 5. Select the section to load to.
- Use the LEFT ∧ and ∨ buttons to specify the bank name, and the RIGHT 1 ∧ and ∨ buttons to specify the section name.
- Press the EXECUTE (SYNCHRO & BREAK) button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- This procedure can also be accessed from the COMPOSER menu display. (Refer to page 78.)

#### **■ LOAD SINGLE SOUND MEMORY**

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



- Use the LEFT ∧ and ∨ buttons to select the number of the file with the data you wish to load.
- 2, Press the PAGE A button.
- · The display looks similar to the following.



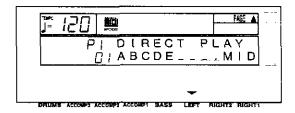
- 3. Use the ACCOMP 1 ∧ and ∨ buttons to select the sound number (201–240) you wish to load.
- 4. Use the RIGHT 1 ∧ and ∨ buttons to specify the sound number to load to.
- 5. Press the EXECUTE (SYNCHRO & BREAK) button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.

## **Playing commercial disks**

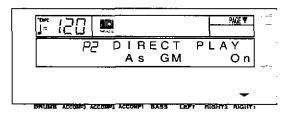
Commercial song disks can be played back directly from a disk. The usual LOAD operation is not necessary, so playback is quicker.

#### **DIRECT PLAY**

- 1. Insert the disk you wish to play back into the Disk Drive.
- 2. On the **MEMORY & CONTROL** menu display, select [P2 Direct Play].
- · The display looks similar to the following.



- 3. Use the LEFT ∧ and ∨ buttons to select the filename to play back.
- For SMF files, press the PAGE ∧ button.
- · The display looks similar to the following.



- Use the RIGHT 1 ∧ and ∨ buttons to specify whether or not to play the song as GENERAL MIDI (GM) (On/Off).
- If the GM setting you specify is different from the setting in the file, the sounds, the octave, and the arrangement of percussion sounds on the keyboard will be different.
- Information about GENERAL MIDI can be found on page 112.
- 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.

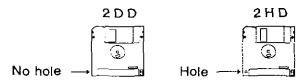
- 5. Press the START/STOP button.
- · The selected song begins to play.
- Press the START/STOP button if you wish to stop playback before it has finished.
- You can use the same procedure to play back other songs on the disk.
- The song stops if you exit this display during playback.
- DIRECT PLAY can be used for the following disks:
   Standard MIDI File (SMF) disks (FORMAT 0)
   DISK ORCHESTRA COLLECTION™ (DOC)
- Standard MIDI File FORMAT 1 disks cannot be played back using DIRECT PLAY. Use SMF LOAD for these disks.

## Formatting a disk

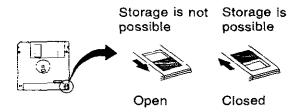
New floppy disks can be used only after they have been formatted. Follow the procedure below to format a new disk or erase the contents of a recorded disk.

#### FLOPPY DISK FORMAT

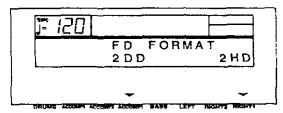
- This procedure clears the entire contents of the disk.
- Reformat a disk if it cannot be saved to or loaded from properly because of exposure to a magnetic field.
- You can use 3.5 inch 2DD (720KB) or 2HD (1.44MB) floppy disks.
- Be sure to specify the type of format which is suitable for the disk.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



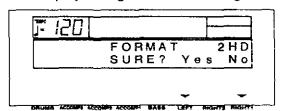
- Although 2HD floppy disks can hold more data and are convenient for quick loading and saving, 2DD disks are generally used for musical instruments. Therefore, you may not be able to use your 2HD disk data with other musical instrument models.
- To format the floppy disk, the write-protect window must 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 [P3 FD Format] and press either LEFT button.
- 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 either LEFT (Yes) button to format the disk, or press either RIGHT 1 (No) button to cancel the format.
- After about 1–2 minutes, formatting is completed, "COMPLETED!" is shown on the display, and this instrument returns to the normal performance mode.

## Saving data

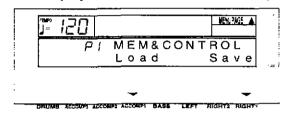
The recorded data and panel settings of this instrument can be saved on a disk.

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

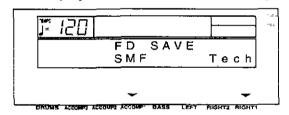
#### **DISK SAVE**

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 P1.
- · The display looks similar to the following.



- 3. Press either RIGHT 1 (Save) button.
- · The display looks similar to the following.



Select the type of data save you want.

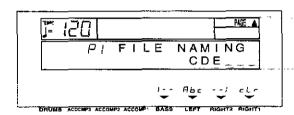
[Tech]: Save data in the Technics File format (TECHNICS SAVE).

[SMF]: Save data in the Standard MIDI File format (SMF SAVE).

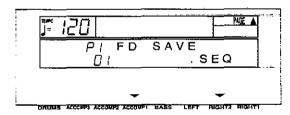
5. Perform the selected disk save procedure. (Refer to the following sections.)

#### **■ TECHNICS 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 BASS and RIGHT 2 \( \times\) and \( \times\) buttons to highlight the character position. Use the LEFT (Abc) \( \times\) and \( \times\) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press either RIGHT 1 (cLr) button.
- Press the EXECUTE (SYNCHRO & BREAK) button.
- · The display looks similar to the following.



- 3. Use the ACCOMP 1 ∧ 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 number
- 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.
- More data can be saved using 2HD floppy disk.

(Continued on the next page)

4. Use the RIGHT 2 ∧ and ∨ buttons to specify the kind of data you wish to save to the disk.

ALL: All the following data is saved.

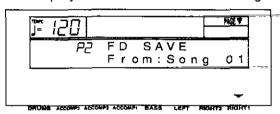
SEQ: Only SEQUENCER data CMP: Only COMPOSER data

SND: Only **SOUND MEMORY** data PNL: Only **PANEL MEMORY** data

MSP: Only MANUAL SEQUENCE PADS

data

- The MASTER TUNING setting is not saved.
- If SEQ was selected in step 4, press the PAGE A button.
- · The display looks similar to the following.

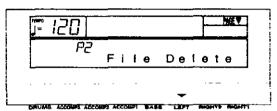


- Use the RIGHT 1 ∧ and ∨ buttons to select the song number in this instrument's memories you wish to have saved to the floppy disk.
- SEQUENCER data is saved one song at a time. However, if ALL is selected, the contents of SEQUENCER songs 1 to 10 are saved at once. In this case, you can conserve memory by deleting songs you do not wish to save.
- Press the EXECUTE (SYNCHRO & BREAK) button.
- The SAVE operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display, and this instrument returns to the normal performance mode.
- If you attempt to save data to a file number in which data is currently saved, the display changes to the confirmation display. Press either RIGHT 1 (No) button if you wish to cancel the procedure. When either LEFT (Yes) button is pressed, the DISK SAVE operation begins.

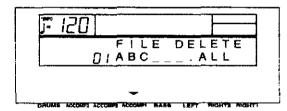
#### FILE delete

Use the following procedure to clear a specific file.

- 1. On the FILE NAMING display, press the PAGE \( \triangle \) button.
- The display looks similar to the following.



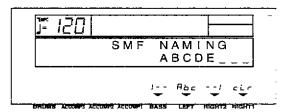
- 2. Press either LEFT button.
- · The display looks similar to the following.



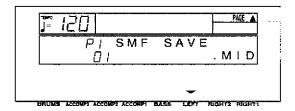
- Use the ACCOMP 1 ∧ and ∨ buttons to specify the file to erase.
- 4. Press the EXECUTE (SYNCHRO & BREAK) button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

#### **■ SMF SAVE**

The data from this instrument's **SEQUENCER** can be saved to a floppy disk as Standard MIDI Files (SMF) (FORMAT 0 only). (Standard MIDI Files are most commonly saved on 2DD floppy disks.) Data saved on this instrument can then be used on another instrument.

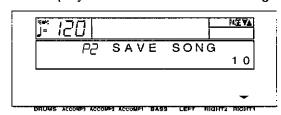


- What you can save in the Standard MIDI File
  format is ordinary performance data, such as
  note data. Data such as SEQUENCER data
  for the chord and rhythm parts, COMPOSER
  data, PANEL MEMORY data, etc. is not
  saved. If you wish to also save the special
  Technics data, first use the TECHNICS SAVE
  procedure to save the data to a disk, and then
  follow the SMF SAVE procedure 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 BASS and RIGHT 2 \( \times\) and \( \times\) buttons to highlight the character position. Use the LEFT (Abc) \( \times\) and \( \times\) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press either RIGHT 1 (cLr) button.
- Avoid using the numbers from 01 to 20 as the first two letters of the name.
- 2. Press the **EXECUTE** (**SYNCHRO & BREAK**) button.
- The display looks similar to the following.

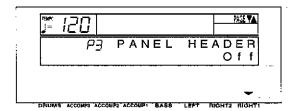


- 3. Use the LEFT ∧ and ∨ buttons to select the name of the file in which to save the data.
- To save in a new file, select a blank line.

- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.



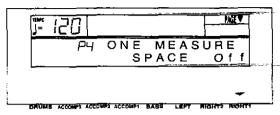
- 5. Use the **RIGHT 1**  $\wedge$  and  $\vee$  buttons to select the song number in this instrument's memories you wish to have saved to the floppy disk.
- · Data is saved one song at a time.
- 6. Press the PAGE ∧ button.
- · The display looks similar to the following.



- 7. Use the RIGHT 1 ∧ and ∨ buttons to select HEADER On/Off.
- Select On to save the sound, volume and other settings for each part as data at the beginning of the file.

(Continued on the next page)

- 8. Press the PAGE A button.
- · The display looks similar to the following.

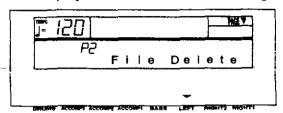


- Use the RIGHT 1 ∧ and ∨ buttons to select ONE MEASURE SPACE On/Off.
- When there is various data other than performance data stored at the beginning of a file, the start of playback may be delayed. This can be avoided by inserting a one-measure space before the beginning of the performance. Select 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.
- 10. Press the **EXECUTE** (SYNCHRO & BREAK) 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 either RIGHT 1 (No) button if you wish to cancel the procedure. When either LEFT (Yes) button is pressed, the SMF SAVE operation begins.

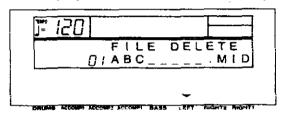
#### FILE delete

Use the following procedure to clear a specific

- 1. On the SMF NAMING display, press the PAGE ^ button.
- The display looks similar to the following.



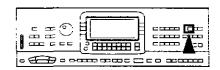
- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to specify the file to erase.
- 4. Press the EXECUTE (SYNCHRO & BREAK) ...-button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

## Part VIII Adjusting the sounds

## Outline of the Sound Setting mode



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

#### **80UND** menu

 Press the SOUND SETTING button to turn it on.



- 2. Use the PAGE buttons to select the menu.
- · There are four pages of the menu display.
- 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 you have finished setting the functions, press the SOUND SETTING button to turn it off.

#### M 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 DRUM part)

AUTO PLAY CHORD parts:

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

MANUAL SEQUENCE PADS part: MSP

**METRONOME** part: METRO

 On the BALANCE display, PART 1, PART 2 and PART 3 become RIGHT 1, RIGHT 2 and LEFT, respectively.

#### Summary of the SOUND menu items

P1 Part Setting (page 102)

Set the various sound attributes for each part.

P2 Touch & Tune (page 103)

Set the keyboard sensitivity, and adjust the tuning.

P3 Key Scaling (page 104) Select the type of scaling (tuning).

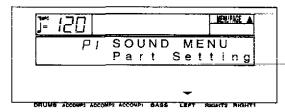
P4 Left Hold (page 105)

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

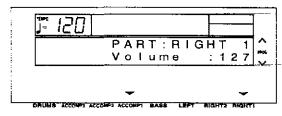
## **Part Setting**

Set the various sound attributes for each part.

- On the SOUND menu display, select [P1 Part Setting].
- · The display looks similar to the following.



- 2. Press either LEFT button.
- The display looks similar to the following.



- 3. Use the **TRANSPOSE** (PROG) ∧ and ∨ buttons to select a part.
- PART 4 to 16 are used in SEQUENCER and MIDI functions when playing back Standard MIDI Files. PART 16 is reserved for the DRUM part.
- For information concerning CHORD and R. BASS, refer to page 51.
- 4. Assign a sound to the selected part.
- If the SOUND/PART button is pressed, the currently selected part and sound name are shown on the display.
- Only sounds from the KEYBOARD PERC can be selected for Part 16.
- You cannot assign sounds to the ACCOMP 1, 2, 3, BASS, DRUMS, MSP and METRO parts. (If the panel buttons are used to change the sound or effects for these parts, the RIGHT 1 settings change.)
- 5. Use the ACCOMP 1 ∧ and ∨ buttons to select the attribute you wish to adjust.
- 6. Use the RIGHT 1 ∧ and ∨ buttons to adjust the attribute.

Volume: Adjust the volume of each part (0 to 127).

Pan: Adjust the stereo balance of each part (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.
- Even at the same numerical value, the stereo balance may differ slightly depending on the sound.

Reverb: Adjust the depth of the reverb for the part (0 to 127).

Chorus (KN720): Adjust the depth of the CHORUS (0 to 127).

DSP Eff. (KN920/KN1500): Adjust the depth of the DSP EFFECT (0 to 127).

- Length: 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.

KeyShift: Specify the amount of shift in the pitch of the played keys (-12 to +12).

- A value of 1 means a shift of one semitone.
   A value of 12 is one octave.
- The button is used to lower the pitch, and the + button to raise the pitch.

Tuning: Fine-tune the pitch of each part (-128 to +127).

- Slight differences in the pitches between the parts add fullness to the sound.
- The button is used to lower the pitch, and the + button to raise the pitch.
- P.Bend: Set the amount of pitch change when the PITCH BEND wheel is operated (0 to 12).
- Increments are in semitones. A value of 12 is one octave.

Glide Pdl: Enable or disable the glide effect of the pedal (Foot Switch) (On/Off).

For glide pedal setting, refer to page 58.

Sust. Pdl: Specify whether or not the **SUSTAIN** effect is applied with the pedal (Foot Switch) (On/Off).

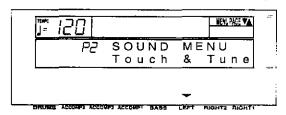
Key Scale: Enable or disable key scaling (On/Off)

- · For key scaling, refer to page 104.
- The settings which can be adjusted may differ depending on the selected part.
- If KEYBOARD PERC sounds are assigned to a part other than PART 16, even if you change the setting for the attribute (except for Volume, Reverb, Chorus [KN720]/DSP Eff [KÑ920/ KN1500]), the new setting will not be in effect.
- To change the settings for a different part while the setting display is shown, use the TRANSPOSE (PROG) ∧ and ∨ buttons to change the part.
- When you have completed adjustment of an attribute, use the ACCOMP 1 ∧ and ∨ buttons to select the next attribute you wish to adjust.

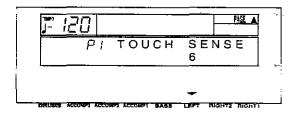
### **Touch & Tune**

Select the keyboard touch response mode (TOUCH SENSE) and fine-tune the pitch of the entire instrument (TUNING).

- 1. On the **SOUND** menu display, select [P2 Touch & Tune].
- · The display looks similar to the following.

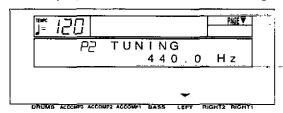


- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to select the touch mode.
- Select from 0 to 9.
- When 0 is selected, the keyboard touch response is turned off.

- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.



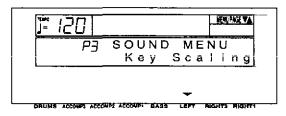
- 5. Use the LEFT ∧ and ∨ buttons to adjust the pitch within a range of 427.3 to 453.0 Hz.
- The decimal can be set to 0, 3 or 6.

## **Key Scaling**

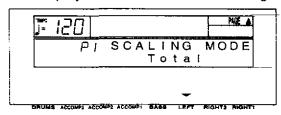
The temperament (tuning) of this instrument can be adjusted. Various types other than standard temperament are available to choose from.

- 1. On the **SOUND** menu, select [P3 Key Scaling].
- · The display looks similar to the following.

medililərə ətt...



- 2. Press either LEFT button.
- · The display looks similar to the following.

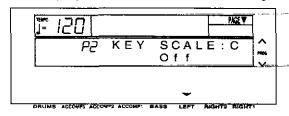


3. Use the LEFT ∧ and ∨ buttons to select the tuning mode.

Total: The key scaling selected for this instrument is active for all parts. (Select this mode if you are selecting a tuning type.)

Sound: The preset key scaling specified for individual sounds is active.

- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.



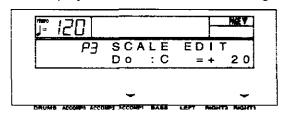
- Use the LEFT ∧ and ∨ buttons to select the type.
- Select from [Off], [Random], [Piano], [Orchestra], [Pythagorean], [Werckmeister], [Kirnberger], [Arabic 1] to [Arabic 5], [Slendro], [Pelog], [User].
- [Off] is standard (equal temperament) tuning.
- Select [User] if you wish to use a customized scaling (explained in the following section).

- Use the TRÄNSPOSE (PROG) \( \times\) and \( \times\) buttons to select the key in which you are going to perform.
- Set to the key of the song you are going to play.

#### ■ 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. On the P2 display, select [User] for the type.
- 2. Press the PAGE A button.
- · The display looks similar to the following.

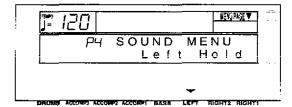


- 3. Adjust the key scaling.
- Use the ACCOMP 1 ∧ and ∨ buttons to specify the keyboard key, and use the RIGHT 1 ∧ and ∨ buttons to adjust the pitch of the key.
- Increments are in cents (one hundredth of an equal-tempered semitone). A + value raises the pitch and a - value lowers the pitch in relation to standard tuning (equal temperament).

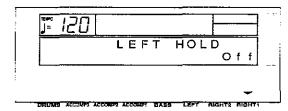
### **Left Hold**

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

- 1. On the **SOUND** menu display, select [P4 Left Hold]
- · The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.



3. Use the RIGHT 1 buttons to set the mode to On or Off.

#### OFF

	ONE-FINGER	FINGERED	PIANIST
When rhythm is stopped	The specified chord sounds in the CHORD part sound.	The specified chord sounds in the CHORD part sound, and the pressed keys sounds in the LEFT part sound.	The CHORD part and the LEFT part do not sound (the entire keyboard produces the RIGHT part sound).
When rhythm is playing	The CHORD part and the LEFT part do not sound.	The CHORD part does not sound, but the pressed keys sound in the LEFT part sound.	-    -  -

#### ■ ON

·	ONE-FINGER	FINGERED	PIANIST
When the rhythm is stopped or playing	The specified chord sounds in the <b>LEFT</b> part sound.	The specified chord sounds in the LEFT part sound.	The CHORD part and the LEFT part do not sound (the entire keyboard produces the RIGHT part sound).

• The LEFT part can be heard only when the LEFT button in the CONDUCTOR section is on.

## Part IX Creating sounds (KN920/KN1500)

### **Outline of the Sound Edit**

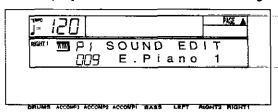


**SOUND EDIT** enables you to create your own new sound by altering one of the this instrument's preset sounds. Your new sound can be stored in one of the sound memory locations.

- Select a preset sound on which to build your new sound.
- The sounds in the KEYBOARD PERC group (189 to 200) cannot be edited.
- 2. Press the SOUND EDIT button to turn it on.



· The display looks similar to the following.



- · The sound you selected in step 1 is shown.
- 3. Use the PAGE buttons to select a menu.
- You can select from the following menus.
  - P2 SOUND NAMING (page 107)
    Assign a name to your sound.
  - P3 WRITE (page 107)
    Select a memory number to save the new sound.
  - P4 OCTAVE SHIFT (page 107)
    Shift the octave range of the sound.
  - P5 D. EFFECT (page 108)
    Select the type of DIGITAL EFFECT to apply to the sound.
  - P6 VIBRATO (page 108)
    Specify the various vibrato settings.
  - P7 TONE SEL (TONE SELECT) (page 108) Modify the tones which make up the sound.
  - P8 PITCH (page 109)
    Adjust the settings related to the pitch of the sound.

## P9 MIXER (page 109) Adjust the volume, brilliance and stereo balance of the sound.

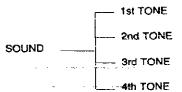
## P10 ENVELOPE (page 110) Specify how the volume changes over

## P11 PTCH ENV (PITCH ENVELOPE) (page 110) Specify how the pitch changes over time.

- 4. Select a menu item and adjust the setting.
- KN1500: When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- Repeat steps 3 and 4 to modify other sound attributes as desired.
- Use the PAGE buttons to select different menus.
- 6. When the sound is just the way you like it, use the PAGE buttons to select P3 WRITE, and follow the procedure to store your new sound. (Refer to page 107.)

#### ■ About TONEs

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



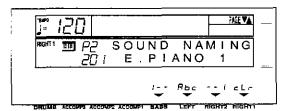
- The essence of the sound is created by the combination of the 1st TONE and 2nd TONE.
   Depending on the sound output status of the instrument, the 3rd and 4th TONEs may not be generated.
- There are two types of settings: those that can be adjusted for each TONE that comprises the sound, and those that can be adjusted for the whole sound. For settings that can be adjusted for each TONE, the TRANSPOSE (PROG) ∧ and ∨ buttons to the right of the display are used to specify the TONE.

# **Setting the function**

#### **SOUND NAMING**

Assign a name to the sound you are creating.

- Use the PAGE buttons to select [P2 SOUND NAMING].
- The display looks similar to the following.

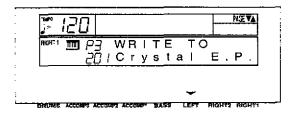


- Type a new name for your sound (up to 12 characters).
- Use the BASS and RIGHT 2 buttons to highlight the character position. Use the LEFT (Abc) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press either RIGHT 1 (cLr) button.

#### WRITE

The sound numbers 201 to 240 in the SOUND MEMORY are reserved for storing the sounds you create with the SOUND EDIT.

- Your new sound will be erased if you exit the SOUND EDIT mode without first storing it in a memory.
- 1. Use the **PAGE** buttons to select [P3 WRITE TO].
- · The display looks similar to the following.



2. Use the LEFT  $\wedge$  and  $\vee$  buttons to select the MEMORY number in which to store the new sound (201 to 240).

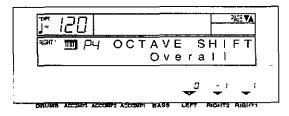
 When you are finished editing the sound, if you wish to save it, press the EXECUTE (SYNCHRO & BREAK) button to store the new sound.



#### OCTAVE SHIFT

Set the pitch of the sound by octaves.

- 1. Use the **PAGE** buttons to select [P4 OCTAVE SHIFT]
- The display looks similar to the following.

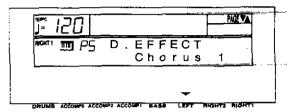


- 2. Use the LEFT ∧ and ∨ buttons to set the octave for the whole keyboard ([Overall]) (-2 to 2).
- 3. Use the **RIGHT 2** ∧ and ∨ buttons to set the octave for the **LEFT** part when the keyboard is split ([Split Left]) (-2 to 2).
- 4. Use the **RIGHT** 1 ∧ and ∨ buttons to set the octave for the **RIGHT** parts when the keyboard is split ([Split Right]) (–2 to 2).

#### DIGITAL EFFECT

Select the type of **DIGITAL EFFECT** for your sound. When the **DIGITAL EFFECT** button is on, the type you set will be active for your sound.

- 1. Use the **PAGE** buttons to select [P5 D. EF-FECT].
- · The display looks similar to the following.

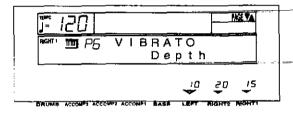


- Use the LEFT A and V buttons to select the type of effect.
- Select from [Off], [Celeste 1, 2], [Chorus 1, 2], [Ensemble 1, 2], [Tremolo], [Organ Tremolo], [Single Delay], [Repeat Delay], [Solo Effect 1, 2].
- If a type other than [Off] is selected, the DIGI-TAL EFFECT button will turn on when the sound is selected.
- If the [Organ Tremolo] effect is selected, use the DIGITAL EFFECT button now to specify FAST (DIGITAL EFFECT button on) or SLOW (off) when the sound is selected.

#### **VIBRATO**

Modify the vibrato attributes of the sound.

- 1. Use the **PAGE** buttons to select [P6 VIBRATO].
- · The display looks similar to the following.

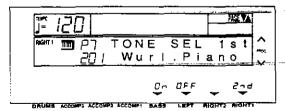


- 2. Use the LEFT ∧ and ∨ buttons to adjust the vibrato depth ([Depth]) (OFF, 1 to 127).
- 3. Use the RIGHT 2 ∧ and ∨ buttons to adjust the vibrato speed ([Speed]) (0 to 127).
- 4 Use the RIGHT 1 ∧ and ∨ buttons to set the time delay between key played and vibrato start ([Delay]) (0 to 30).

#### **TONE SELECT**

Modify the separate TONEs which comprise the sound

- · TONEs are explained on page 106.
- Use the PAGE buttons to select [P7 TONE SELI.
- The display looks similar to the following.



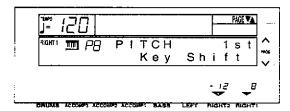
Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select the TONE ([1st], [2nd], [3rd], or [4th]).

- 3. Use the RIGHT 2 ∧ and ∨ buttons to select a sound for the TONE.
- 4. Use the RIGHT 1 \( \times\) and \( \times\) buttons to select one TONE from the sound selected in step 3.
- The number of TONEs may differ depending on the selected sound.
- If either LEFT (OFF) button is pressed, the TONE will not sound. If either BASS (On) button is pressed, the TONE will be turned on.
- When a TONE is selected, the MIXER, EN-VELOPE and PITCH ENVELOPE settings change to those of the selected TONE.
- Repeat steps 2 to 4 for each TONE, as desired.

#### PITCH

Adjust the output pitch of each TONE.

- 1. Use the PAGE buttons to select [P8 PITCH].
- · The display looks similar to the following.

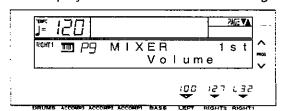


- 2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select a TONE.
- 3. Use the RIGHT 2 ∧ and ∨ buttons to specify the output pitch ([Key Shift]) (-24 to 24).
- · Units are in semitones.
- Use the RIGHT 1 ∧ and ∨ buttons to fine-adjust the pitch ([Detune]) (–128 to 127).
- Slight differences in the [Detune] values between the tones add fullness to the sound.
- Repeat steps 2 to 4 for each TONE, as desired.

#### MIXER

Adjust the volume, brilliance and stereo balance of each TONE.

- 1. Use the PAGE buttons to select [P9 MIXER].
- · The display looks similar to the following.

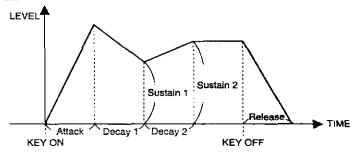


- Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select a TONE.
- Use the LEFT ∧ and ∨ buttons to adjust the volume ([Volume]) (0 to 127).
- **4.** Use the **RIGHT 2** ∧ and ∨ buttons to adjust the brightness ([Brilliance]) (0 to 127).

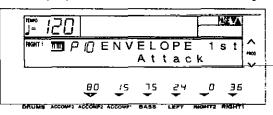
- Use the RIGHT 1 ∧ and ∨ buttons to adjust the stereo balance ([Pan]) of the sound (L64– Ctr–r63, rnd).
- Ctr is the center point. At L64, the sound is all the way to the left, at r63 all the way to the right.
- If [rnd] is selected the stereo balance changes randomly each time a key is pressed.
- Even at the same numerical value, the stereo balance may differ slightly depending on the sound.
- Repeat steps 2 to 5 for each TONE, as desired.

#### **ENVELOPE**

For each tone, specify the waveform (envelope) of volume change, from the time the key is played to the time the sound dies out.



- 1. Use the **PAGE** buttons to select [P10 EN-VELOPE].
- · The display looks similar to the following.



2. Use the TRANSPOSE (PROG) ∧ and ∨ buttons to select a TONE.

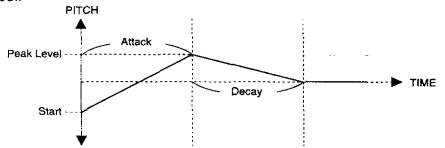
3. Use the ∧ and ∨ buttons below the display to modify the envelope (0 to 100).

ACCOMP 2: [Attack]
ACCOMP 1: [Decay 1]
BASS: [Sustain 1]
LEFT: [Decay 2]
RIGHT 2: [Sustain 2]
RIGHT 1: [Release]

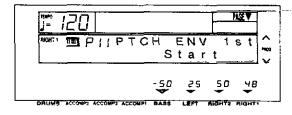
4. Repeat steps 2 and 3 for each TONE, as desired.

#### **PITCH ENVELOPE**

For each tone, specify the waveform (envelope) of pitch change, from the time the key is played to the time the sound dies out.



- 1. Use the **PAGE** buttons to select [P11 PTCH ENV].
- The display looks similar to the following.



- 2. Use the **TRANSPOSE** (PROG) ∧ and ∨ buttons to select a TONE.
- 3. Use the ∧ and ∨ buttons below the display to modify the envelope.

BASS: [Start] (-50 to 50) LEFT: [Attack] (0 to 100) RIGHT 2: [Peak Level] (-50 to 50)

**RIGHT 1**: [Decay] (0 to 100)

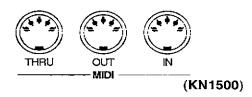
4. Repeat steps 2 and 3 for each TONE, as desired.

## 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.

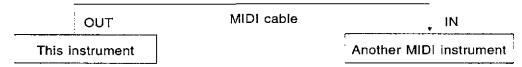
#### THRU (KN1500):

The terminal that transfers data from the IN terminal directly to other equipment.

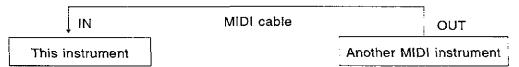
 For these connections, use a commercially available MIDI cable.

#### **Connection examples**

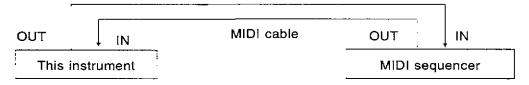
■ To generate sound from a connected instrument by playing this instrument



■ To generate sound from this instrument by operating a connected instrument



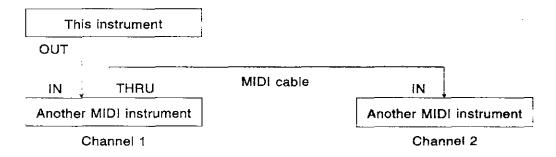
■ To connect with a MIDI sequencer or a personal computer



#### **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 REFERENCE GUIDE provided.

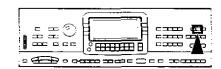
#### **GENERAL MIDI**

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.



- 2. Use the PAGE buttons to select the menu.
- · There are nine pages of the menu display.
- 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 you have finished setting the functions, press the MIDI button to turn it off.

#### Summary of the MIDI menu items

P1 Channel (page 114)
Assign a MIDI channel to each part.

P2 Part Setting (page 115)

Make the OCTAVE and LOCAL CONTROL settings for each part.

P3 Common Set (page 116)

Set the following functions which are common to all parts.

NOTE ONLY
PROG. CHANGE TO P. MEM
INTRO, FILL-IN, ENDING
REALTIME SYSEX
APC CONTROL
TRANSPOSE
PROGRAM CHANGE MODE
DRUMS TYPE
SONG SELECT
MIDI SETUP LOAD

P4 Control Msg (CONTROL MESSAGE)

(page 117)

Enable or disable the exchange of various control data.

P5 IN/OUT Set (INPUT/OUTPUT SETTING) (page 118)

Various settings related to transmission and reception of data

P6 Realtime Msg (REALTIME MESSAGE)

(page 119)

Make the REALTIME COMMANDS and CLOCK settings.

P7 MIDI Presets (page 119)

Optimum MIDI settings according to the connected equipment

P8 GM Mode (page 120) GENERAL MIDI settings

P9 Bulk Dump (page 121)

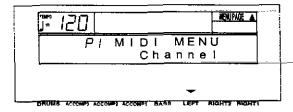
Settings related to data exchange of this instrument's internal data.

# **Setting the functions**

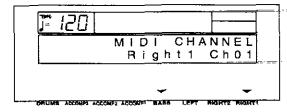
#### **MIDI CHANNEL**

MIDI Basic Channel numbers have already been assigned to parts (default settings) but you can reassign channel number to parts as follows.

- 1. On the MIDI menu display, select [P1 Channel].
- The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the BASS ∧ and ∨ buttons to select the part.
- Use the RIGHT 1 ∧ and ∨ buttons to select a basic channel for the part (Off, 01 to 16).
- A part which has been set to Off cannot be used to transmit or receive MIDI data.
- 5. Repeat steps 3 and 4 for each part as desired.

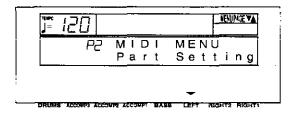
#### ■ Default part settings

Part	Channel	Part	Channel	Part	Channel	AUTO PLAY CHORD part	Channel
Right 1	01	Part 7	07	Part 13	13	Acmp 1	Off
Right 2	02	Part 8	. 08	Part 14	14	Acmp 2	Off
Left	03	Part 9	. 09	Part 15	15	Acmp 3	Off
Part 4	04	Part 10	10	Part 16	16	Bass	Off
Part 5	05	Part 11	11	(Drum)	\ \	Drums	Off
Part 6	06	Part 12	12	Control	Off	Chord	Off

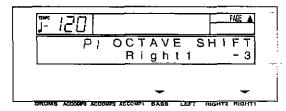
#### **PART SETTING**

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).

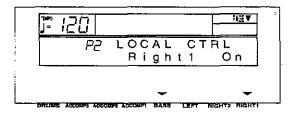
- 1. On the **MIDI** menu display, select [P2 Part Setting].
- · The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the BASS ∧ and ∨ buttons to select the part.
- Use the RIGHT 1 ∧ and ∨ 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.
- Repeat steps 3 and 4 for each part, as necessary.
- 6. Press the PAGE ∧ button.
- · The display looks similar to the following.



7. Use the **BASS** ∧ and ∨ buttons to select a part.

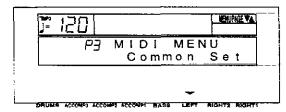
- 8. Use the RIGHT 1 ∧ and ∨ buttons to enable or disable this instrument's sound generator.
- When set to On, the performance from this instrument is transmitted as MIDI data and also sounds from this instrument. When set to Off, the performance from this instrument is transmitted as MIDI data but does not sound from this instrument.
- 9. Repeat steps 7 and 8 for each part as desired.



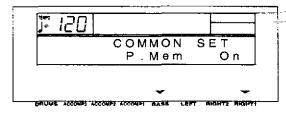
#### COMMON SETTING

Set the functions which are common to all parts.

- 1. On the **MIDI** menu display, select [P3 Common Set].
- The display looks similar to the following.



- 2. Press either LEFT button.
- The display looks similar to the following.



- 3. Use BASS  $\wedge$  and  $\vee$  buttons to select the item.
- 4. Use the RIGHT 1 ∧ and ∨ buttons to change the setting.
  - [P. Mem] (PROGRAM CHANGE TO PANEL MEMORY): Enable or disable the exchange of program change numbers for the RIGHT 1 part by operation of the PANEL MEMORY buttons (On/Off).
  - KN920/KN1500: For this setting, the PANEL MEMORY 1 to 5 program change numbers correspond to the bank numbers as follows: BANK A = 0 to 4; BANK B = 5 to 9.

[Note Only]: Of the performance data, specify whether or not only note data is exchanged (On/Off).

[P. Change] (PROGRAM CHANGE MODE)

Nor: The program change numbers correspond to the sound numbers.

Tec: 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. [Drums]

Nor: Keyboard percussion instrument sounds correspond to this instrument's key note numbers.

Tec: Keyboard percussion instrument sounds correspond to the same key note numbers for connected Technics models —set to this type.

GM: Keyboard percussion instrument sounds follow the GM standard.

[Song Sel] (SONG SELECT)

On: Song number data can be exchanged.

Off: Song number data cannot be exchanged.

[Setup Ld] (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.

[Intro]: Enable or disable the exchange of intro, fill-in and ending data (On/Off).

 Data is exchanged on the channel for the DRUMS part.

[APC Ctrl] (APC CONTROL): Enable the exchange of data for the on/off status of the AUTO PLAY CHORD'S ONE-FINGER, FINGERED and PIANIST modes (On/Off).

 Data is exchanged on the channel for the ACCOMP 1 part.

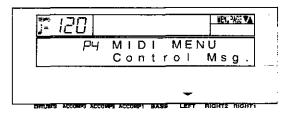
[RT Sysex] (REALTIME SYSTEM EXCLUSIVE): Specify whether or not SYSTEM EX-CLUSIVE data is exchanged during the performance (On/Off).

Repeat steps 3 and 4 for the other settings as desired.

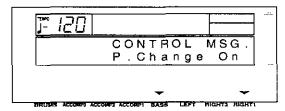
#### **CONTROL MESSAGE**

Enable or disable the exchange of various control data.

- On the MIDI menu display, select [P4 Control Msgl.
- The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.



- 3. Use the BASS ∧ and ∨ buttons to select the control message.
- Select from the following: P.Change (PRO-GRAM CHANGE), Bank Sel (BANK SELECT), P.Bend (PITCH BEND), Volume, Express. (EXPRESSION), Panpot, Sustain, EFF&REV (EFFECT & REVERB), Modulat. (MODULATION), Tuning, Bend Rng (BEND RANGE), AftTouch (AFTER TOUCH), Rst.Cnt. (RESET ALL CONTROLLERS).
- 4. Use the RIGHT 1 ∧ and ∨ buttons to specify on or off for the control message.

On: Data for the control operation is exchanged.

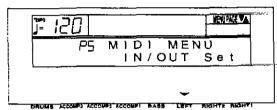
Off: Data for the control operation is not exchanged.

- The [Bank Sel] setting is effective only when [P. Change] is set to On.
- The [EFF&REV] setting controls the DIGITAL EFFECT and DIGITAL REVERB on/off.
- The [Tuning] setting is the on/off setting for the Tuning and Key Shift settings.
- Repeat steps 3 and 4 for each control as desired.

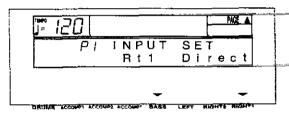
#### INPUT/OUTPUT SETTING

Make the settings which determine how various performance data is treated during data transmission and reception.

- On the MIDI menu display, select [P5 IN/OUT Set].
- The display looks similar to the following.



- 2. Press either LEFT button.
- The display looks similar to the following.



- 3. Use the BASS ∧ and ∨ buttons to select the item.
- Use the RIGHT 1 ∧ and ∨ buttons to change the setting.

[Rt1] (RIGHT 1 INPUT)

Cond: 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.

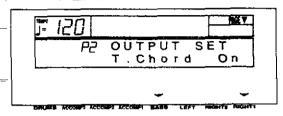
[APC] (APC INPUT)

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.

- 5. Press the PAGE A button.
- · The display looks similar to the following.



- 6. Use the BASS ∧ and ∨ buttons to select the output item.
- 7. Use the RIGHT 1 ∧ and ∨ buttons to change the setting.

[T.Chord] (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.

[Drums] (DRUMS OUTPUT)

On: Data from the **DRUMS** part is transmitted.

Off: Data from the **DRUMS** part is not transmitted.

[APC] (APC 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.

[Trans.] (TRANSPOSE)

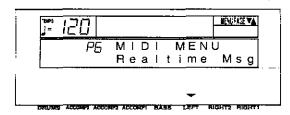
On: The note number of the transposed note is transmitted/received.

Off: The note number of the played key is transmitted/received.

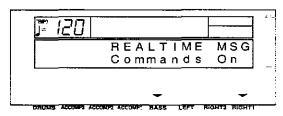
#### **REALTIME MESSAGE**

Enable or disable the exchange of **START/STOP** data (REALTIME COMMANDS), and select the CLOCK mode.

- On the MIDI menu display, select [P6 Realtime Msg].
- · The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.



3. Use the BASS ∧ and ∨ buttons to select a function (Commands/Clock).

4. Use the **RIGHT 1** ∧ and ∨ buttons to change the setting.

#### [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]

Int: This instrument's internal clock is used to control the performance. The clock of the connected equipment is disabled.

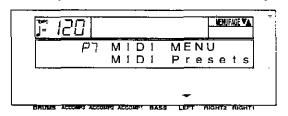
Mid: The clock of the connected equipment is used to control the performance. This instrument's clock is disabled. (The tempo is displayed as [J = --].)

- The Clock is set to "Int" when the power to this instrument is turned on.
- Repeat steps 3 and 4 for the other function if desired.

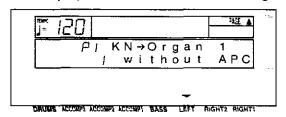
#### MIDI PRESETS

Establish the optimum settings depending on how this instrument is connected to other equipment, and on whether this instrument is used as the master or the slave.

- On the MIDI menu display, select [P7 MIDI Presets].
- · The display looks similar to the following.



- 2. Press either LEFT button.
- · The display looks similar to the following.

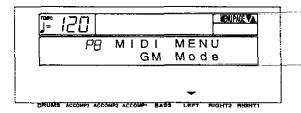


- 3. Use the **LEFT** ∧ and ∨ buttons to select the connection setup.
- There are two pages to this display. Use the PAGE buttons to change the page.
- The P1 display shows connection setups for when the AUTO PLAY CHORD is not used (without APC). And the P2 display shows connection setups for when the AUTO PLAY CHORD is used (with APC).
- 4. Press the EXECUTE (SYNCHRO & BREAK) button.
- When the settings have been successfully stored, "COMPLETED!" appears on the display.
- Detailed information about the PRESETS can be found in the separate REFERENCE GUIDE provided.

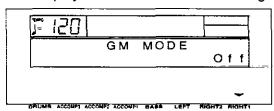
#### **GENERAL MIDI**

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.

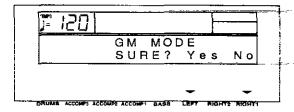
- On the MIDI menu display, select [P8 GM Model.
- The display looks similar to the following.



- 2. Press either LEFT button.
- The display looks similar to the following.



- 3. Use the RIGHT 1 ∧ and ∨ buttons to specify whether or not this instrument should be compatible with GENERAL MIDI standard instruments (On/Off).
- This setting is automatically set to Off when the power is turned on.
- If On is selected, the status of this instrument 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 REFERENCE GUIDE provided.)
- 4. Press the **EXECUTE** (**SYNCHRO & BREAK**) button.
- The display looks similar to the following.

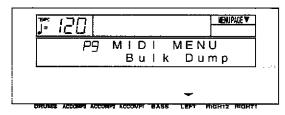


- 5. Press either LEFT (Yes) button.
- Press either **RIGHT 1** (No) button if you wish to cancel the function.
- If On was selected, the GENERAL MIDI logo is shown on the display.
- If the setting is changed from Off to On, the SEQUENCER memory is cleared and the panel settings are reset.
- If On is selected, this setting is automatically set to Off when the power is turned off, and all the memories are cleared. (KN720: The data in files that have been saved is not erased.)

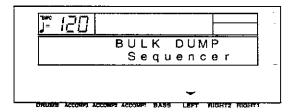
#### **BULK DUMP**

This instrument's internal data can be transmitted to and received from another instrument of the same model, 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 [RT. Sysex] is set to off on the [Common Set] display.
- 1. On the **MIDI** menu display select [P9 Bulk Dump].
- · The display looks similar to the following.

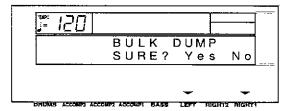


- 2. Press either LEFT button.
- · The display looks similar to the following.



#### ■ Transmitting

- 1. Follow the procedure necessary to prepare the receiving instrument for data reception.
- Use the LEFT buttons to select the type of data to transmit.
- Select from [Total] (includes all the following data), [Composer] (KN920/KN1500), [Sequencer], [Sound Memory] (KN920/KN1500), [Panel Memory], and [Manual Seq Pad] (MANUAL SEQUENCE PADS).
- Press the EXECUTE (SYNCHRO & BREAK) button.
- The display looks similar to the following.



- 4. Press either LEFT (Yes) button.
- Press either **RIGHT 1** (No) button if you wish to cancel the procedure.
- If the LEFT (Yes) button was pressed, transmission begins. During transmission, the transmitting status is shown on the display.

#### ■ Receiving

After accessing the BULK DUMP display, 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.

## Initialize

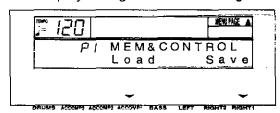
This instrument has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

#### INITIAL

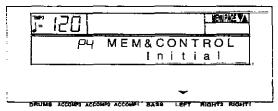
 Press the MEMORY & CONTROL button to turn it on.



· The display changes to the following.

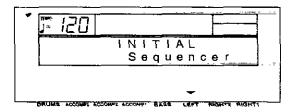


- 2. Use the PAGE ∧ and ∨ buttons to select [P2 Initial] (KN720)/[P4 Initial] (KN920/KN1500).
- This display looks similar to the following.



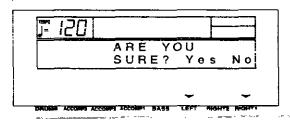
(KN920/KN1500)

- 3. Press either LEFT button.
- The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to select the desired type of initialization.
- Select from [Total] (includes all the following data), [Composer] (KN920/ KN1500), [Sequencer], [Sound Memory] (KN920/KN1500), [MIDI Setting], [Panel Memory] or [Manual Seq Pad].
- The [Panel Memory] type includes the SOUND ARRANGER settings.

- Press the EXECUTE (SYNCHRO & BREAK) button.
- The display changes to the confirmation display. Press either LEFT (Yes) button if you wish to execute the initialization. Press either RIGHT 1 (No) button if you wish to cancel the procedure.



- When you press either LEFT (Yes) button, initialization begins. When initialization is completed, "COMPLETED!" is shown on the display and this instrument returns to the normal performance mode.
- You can also reset all the instrument settings with the following procedure: Turn off the PLAY (KN720/KN920)/POWER (KN1500) button once. Then, while pressing the three buttons to the right of the display (TRANSPOSE And V, and EXIT) at the same time, turn the PLAY/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.

#### **■ KN720/KN920: Backup memory**

The various stored memories and function settings of this instrument are preserved as long as power is being supplied through the AC adaptor or the batteries. If the power supply to this instrument is discontinued (either through the AC adaptor or the batteries), the various memories and settings will be cleared after about 10 minutes.

- The backup memory does not function until the power has been on for about 10 minutes.
- KN920: If you wish to keep the contents of the various memories, such as the SEQUENCER and COMPOSER, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later time. When you exit these functions without saving to a disk, a warning display appears to remind you to save the data.

#### ■ KN1500: Backup memory

The panel settings and stored memories are maintained in a backup memory for about 10 minutes after the power to this instrument is turned off. 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**



**SZ-E2** (KN1500 only) Expression Pedal



SZ-P1 Foot Switch

# **Connections**

#### KN720/KN920

#### (Rear panel)



#### **FOOT SW**

An optional SZ-P1 Foot Switch (sold separately) can be connected to this terminal to control various functions. (Refer to page 58.)

#### PHONES/LINE OUT

(output level 1.5 Vrms, 16 Ω)

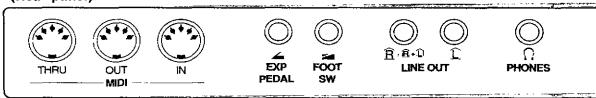
Headphones, a keyboard amplifier, or stereo equipment can be connected to this terminal. When another apparatus is connected to this terminal, the speaker system is automatically switched off, and sound is heard only through the connected device.

#### MIDI

These terminals are for connection to another MIDI instrument. (Refer to page 111.)

#### KN1500

#### (Rear panel)



#### **EXP PEDAL**

The optional **SZ-E2** Expression Pedal (sold separately) can be connected to this terminal to control the volume.

#### **FOOT SW**

An optional **SZ-P1** Foot Switch (sold separately) can be connected to each terminal to control various functions. (Refer to page 58.)

**LINE OUT** (output level 1.5 Vrms, 600  $\Omega$ )

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.)

#### **PHONES**

Headphones can be connected to this terminal. When headphones are connected to this terminal, the speaker system is automatically switched off.

#### MIDI

These terminals are for connection to another MIDI instrument. (Refer to page 111.)

# 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 PLAY (KN720/KN920)/POWER (KN1500) button once, then turn it on again. If this procedure is not successful, turn off this button once. Then, while pressing the three buttons to the right of the display (TRANSPOSE ∧ and ∨, and EXIT) at the same time, turn the PLAY/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.	<ul> <li>The MAIN VOLUME is at the minimum setting. Adjust the volume with the MAIN VOLUME control.</li> <li>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 30.)</li> <li>The part is muted. (Refer to page 30.)</li> <li>The local control for a part performed on the keyboard is set to OFF. Set the local control to ON. (Refer to page 115.)</li> </ul>
Sour	when the keyboard is played.	<ul> <li>A sound in the KEYBOARD PERC sound group is selected.</li> <li>The volume setting in the SEQUENCER contents is very low. Follow the INITIAL procedure to reset the settings. (Refer to page 122.)</li> </ul>
	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 120.)
	KN720/KN920: When using batteries, the volume level becomes low or the sound is distorted.	• The batteries are low. Replace all the batteries with new ones as soon as possible.
	KN920/KN1500: 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.
Rhythm	The rhythm does not start,	<ul> <li>The DRUMS volume is set to the minimum level. Use the balance buttons to set the DRUMS volume to an appropriate level.</li> <li>KN920/KN1500: A rhythm in memory with no stored pattern was selected. Select a different rhythm.</li> <li>A SEQUENCER PLAY button is on. When you are not playing back the SEQUENCER performance, turn off the SEQUENCER PLAY button.</li> <li>CLOCK is set to MIDI. Set CLOCK to INTERNAL. (Refer to page 119.)</li> <li>The rhythm does not work when the GENERAL MIDI mode is set to ON. Turn the GENERAL MIDI status off to return the instrument to its normal operation.</li> </ul>

-	Phenomenon	Remedy
сновр	No sound is produced for the automatic accompaniment.	<ul> <li>KN920/KN1500: A rhythm in COMPOSER memory with no stored pattern was selected. Select a different rhythm.</li> </ul>
AUTO PLAY CHORD	No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced.	<ul> <li>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.</li> </ul>
	Storage is not possible.	<ul> <li>The remaining memory capacity of the SEQUENCER is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory. (Refer to pages 73 and 74.)</li> </ul>
SEQUENCER	Multi-track storage is not possible.	• The playback track has been selected, but the START/STOP button has not been pressed. On the recording display, the track marked with a horizontal bar in the REC row is the track which is ready for recording; a track marked with a horizontal bar in the PLAY row is 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.
	The playback measure indication is different from when the performance was recorded.	<ul> <li>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 71.)</li> </ul>
	Storage is not possible.	• The remaining memory capacity of the COMPOSER is 0.
COMPOSER (KN920/KN1500)	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 81.)
<b>₹</b>	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 83.)
(00)	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 (KN920/KN1500)	When the procedure to load from a disk is performed, the contents of the keyboard memory are erased.	<ul> <li>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 97.)</li> </ul>
Other	Noise from a radio or TV can be heard.	<ul> <li>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.</li> <li>The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is</li> </ul>
	The cabinet becomes warm during use.	bothersome, consult your dealer or service center.     This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.

# **Error messages**

	Display	Contents
00	WRONG DISK!	The data on the disk that you are using is for a different product. (KN920/KN1500)
01	LOAD ERROR TRY AGAIN!	An error has occurred while the disk was loading. Please try again.
02	NO DISK!	There is no disk in the Disk Drive. (KN920/KN1500)
03	FILE EMPTY!	The file that you tried to load is empty. (KN920/KN1500)
04	SAVE ERROR TRY AGAIN!	An error has occurred while the data was being saved. Please try again.
05	WRITE PROTECTED!	The disk that you are using is write protected. Please remove the write protection and try again. (KN920/KN1500)
06	FILE FULL!	The internal memory is full. Please clear unwanted files. (KN720)
	DISK FULL!	The disk that you are using is full. Please use another disk. (KN920/KN1500)
07	FORMAT ERROR TRY AGAIN!	An error has occurred while the disk was formatting. The disk that you are using may be faulty. Please try formatting another disk. (KN920/KN1500)
80	DATA IS COPY PROTECTED!	The data on this disk is copy protected. (KN920/KN1500)
09	ALREADY COPY PROTECTED!	The data on this disk is already copy protected. (KN920/KN1500)
11	SEQUENCER DATA ERROR!	There is an error in the SEQUENCER data. Playback is not possible.
12	MEMORY FULL!	The memory is full. No more data can be recorded.
13	CHANGE IMPOSSIBLE!	It is not possible to change the time signature of a COMPOSER pattern after it has been recorded. If you want to proceed, you must first clear the entire COMPOSER pattern. (KN920/KN1500)
14	TIME SIG MISMATCH!	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. (KN920/KN1500)
15	TIME SIG ALREADY SET	The time signature has already been set. It cannot be changed.
16	TRACK EXISTS!	The specified track already exists. It is impossible to assign two tracks to that part.
17	FILE TOO LONG!	This song is too long to be saved as an SMF file. (KN920/KN1500)
18	SMF LOAD ERROR!	The SMF file that you tried to load exceeds the memory capacity of this instrument and cannot be loaded. The destination <b>SEQUENCER</b> memory has been cleared. (KN920/KN1500)
19	BULK DUMP SEND ERROR!	An error occurred during system exclusive transmission. The data was not transmitted successfully. Please try again.
20	BULK DUMP RECV ERRORI	An error occurred during system exclusive data reception. The data was not received successfully. Please try again.
21	BULK DUMP ID CODE ERR!	The Identification (ID) code of the system exclusive data received by this instrument is for a different product.
22	"ALL" OPTION ONLY AVAIL	To load data which was saved on an older model Technics instrument, set the load option to "ALL." (KN920/KN1500)

	Display	Contents
23	NO SEQUENCER DATA!	There is no data in the SEQUENCER.
24	SMF CONVERT ERRORI	An error occurred in the SMF conversion. (KN920/KN1500)
25	NOT STANDARD MIDI FILE!	This disk is not in the Standard MIDI File data format. (KN920/KN1500)
26	SMF CONVERT ERRORI	SMF conversion is possible only for files with a time base (PPQ resolution) of 24/48/96/192/288/384. (KN920/KN1500)
27	SMF FORMAT ERROR!	FORMAT 2, 3, 4 SMF data cannot be used. (KN920/KN1500)
28	RHYTHM & CHORD ONLY!	Step record can be activated only for tracks to which the RHYTHM or CHORD part has been assigned.
	SELECT A PRESET PTN!	A COMPOSER rhythm cannot be selected for the SOUND ARRANGER. Please select a preset rhythm. (KN920/KN1500)
30	SELECT A USER BANK!	Please select Bank "13 User" to store in the MANUAL SEQUENCE PADS.
31	TRACK ASSIGN MISMATCH!	Special tracks such as CHORD/APC, RHYTHM and CONTROL exist in the song from which you are copying and are incompatible with the destination song because it is in the GM mode.
32	MEAS/T, SIG MISMATCH!	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. (KN920/KN1500)
33	NOT ENOUGH AVAIL MEMORY	The song that you have tried to load exceeds the this instrument's available memory and cannot be loaded. The selected <b>SEQUENCER</b> 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. (KN920/KN1500)
34	THIS FILE IS SMF FORMAT1!	This is an SMF FORMAT 1 file. Direct Play and Sequencer Medley are not available for this file. (KN920/KN1500)
35	RHYTHM DATA ERROR!	There is an error in the rhythm data. Playback is not possible.
36	MSP DATA ERROR!	There is an error in the MANUAL SEQUENCE PADS data. Playback is not possible.
37	DRUM EDIT IMPOSSIBLE!	The DRUM sounds cannot be edited with the SOUND EDIT. (KN920/KN1500)
38	NO CHORD TRACK!	[Chord] was selected in the Step record mode of the <b>SEQUENCER</b> , but there is no track to which the [Chord] part has been assigned.
39	NO RHYTHM TRACK!	[Rhythm] was selected in the Step record mode of the <b>SEQUENCER</b> , but there is no track to which the [Rhythm] part has been assigned.
	WARNING! LOW BATTERIES!	The remaining battery power is very low. Replace all the batteries with new ones immediately. (KN720/KN920)

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B ;
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ONE FINGER	

# **Specifications**

	SX-KN720	SX-KN920	SX-KN1500
KEYBOARD	61 KEYS (WITH INITIAL )	тоисн)	
SOUND GENERATOR	РСМ		
MAXIMUM NUMBER OF NOTES PRODUCED SIMULTANEOUSLY	32 NOTES		
SOUNDS	150 SOUNDS	200 SOUNDS	
DIGITAL REVERB	0		
DIGITAL EFFECT	0		
DSP EFFECT	_	0	
CHORUS	0	_	
SUSTAIN	C		
SOUND EDIT	-	○ (MEMORY: 40)	
TRANSPOSE	G-C-F		·
RHYTHM	128 × 2 VARIATIONS	. 128 × 4 VARIATIONS	
RHYTHM CONTROLS	START/STOP, INTRO & ENDING, FILL IN 1, 2, COUNT INTRO, SYNCHRO & BREAK, TEMPO	START/STOP, INTRO & ENDING 1, 2, FILL IN 1, 2, COUNT INTRO, SYNCHRO & BREAK, TEMPO	START/STOP, INTRO & ENDING 1, 2, FILL IN 1, 2, COUNT INTRO, SYNCHRO & BREAK, TEMPO, TEMPO/PROGRAM DIAL, TAP TEMPO
MANUAL SEQUENCE PADS	12 BANKS × 4 PADS, 1 USER BANK: 1200 NOTES, RECORD/STOP	12 BANKS × 6 PADS, 1 USER BANK: 1200 NO	TES, RECORD/STOP
AUTO PLAY CHORD	MODE: ONE FINGER, FIN MEMORY, ON BASS	NGERED, PIANIST	
MUSIC STYLE ARRANGER	_	0	
SOUND ARRANGER	0		
ONE TOUCH PLAY	0		
MUSIC STYLE SELECT	_		0
TECHNI-CHORD	0	·	,i
PANEL MEMORY	10	2 BANKS × 5, SET	
SEQUENCER	16 TRACKS, 10 SONGS RESOLUTION: STORAGE CAPACITY: RECORD MODES: FUNCTIONS:	96 PULSES PER QUARTER APPROX. 10000 NOTES (KI APPROX. 30000 NOTES (KI EASY, REALTIME, STEP (C TRACK ASSIGN, EDIT, SON	N720)/ N920/KN1500)
COMPOSER		STORAGE CAPACITY: FUNCTIONS:	BASS. ACCOMP 1, 2, 3, DRUMS APPROX. 10000 NOTES BEND RANGE, MODE SELECT, PATTERN COPY. SINGLE LOAD CHORD MAP 3 BANKS × 10 (VARIATION 1-4, INTRO 1, 2, FILL IN 1, 2, ENDING 1, 2)
MEMORY & CONTROL	INITIAL, FOOT SWITCH SET, LOAD, SAVE, CONTRAS	I INITIAL, FOOT SWITCH T I DISK LOAD, DISK SAVE	SET, DIRECT PLAY, DISK FORMAT, CONTRAST
SOUND SETTING	PART SETTING, KEY SC	ALING, TOUCH & TUNE, LEF	T HOLD
MIDI		NG. COMMON SET, CONTRO IIDI PRESETS, GM MODE, BI	
DISK DRIVE		BUILT-IN 3.5 INCH FLO 2HD (1.44 MB), 2DD (72	

	SX-KN720	SX-KN920	SX-KN1500
PITCH BEND WHEEL	0		
MODULATION WHEEL			0
OTHER CONTROLS	MAIN VOLUME, BALANCE	UCTOR	
DISPLAY	LCD (PAGE, EXIT, DISPLA	AY HOLD)	
DEMO	0		
TERMINALS	DC IN 12V, PHONES/LINE OUT, FOOT SW, MIDI (IN, OUT)		PHONES, LINE OUT (R/R+L, L), FOOT SW, EXP PEDAL, MIDI (IN, OUT, THRU)
ОИТРИТ	1.5 W × 2 (WITH BATTERIES), 8 W × 2 (WITH SY-AD6/AD6B AC ADAPTOR)		15 W × 2
SPEAKERS	12 cm × 2		12 cm × 2, 6,5 cm × 2
	BATTERIES: DC 9V (USING R20/LR20 ["D" SIZ	90 W, 60 W (NORTH AMERICA AND MEXICO)	
POWER REQUIREMENT	AC: WITH SY-AD6 AC ADAPTOR AC 120/220/230/240V 50/60Hz AC 120V 60Hz (NORTH AMERICA AND MEXICO)		AC 120/220/240V 50/60Hz AC 120V 60Hz (NORTH AMERICA AND
	AC: WITH SY-AD6B AC ADAPTOR AC 230V 50/60Hz (EUROPE EXCEPT FOR UNITED KINGDOM)		MEXICO) AC 230-240V 50/60Hz (EUROPE, AUSTRALIA, NEW ZEALAND, SINGAPORE AND PHILIPPINES)
DIMENSIONS (W×H×D)*	105.7 cm × 14.9 cm × 40.4 cm (41-5/8" × 5-7/8" × 15-29/32")		
NET WEIGHT*	8.3 kg (18.3 lbs.)	8.8 kg (19.4 lbs.)	10.8 kg (23.8 lbs.)
ACCESSORIES	MUSIC STAND		MUSIC STAND, AC CORD

<sup>\*</sup> Without MUSIC STAND, BATTERIES

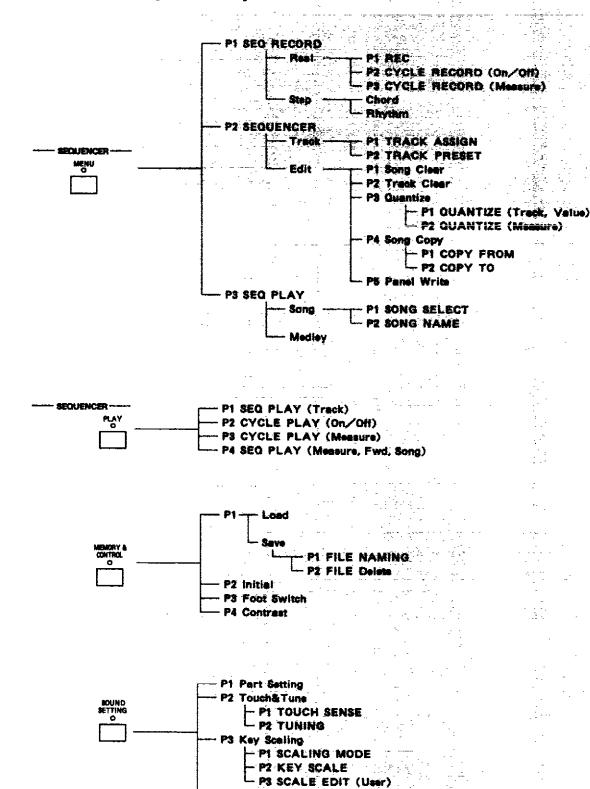
Design and specifications are subject to change without notice.



# N720 / SX=KN920 / SX-KN1500 EFERENCE GUIDE

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## **DISPLAY GUIDE (KN720)**

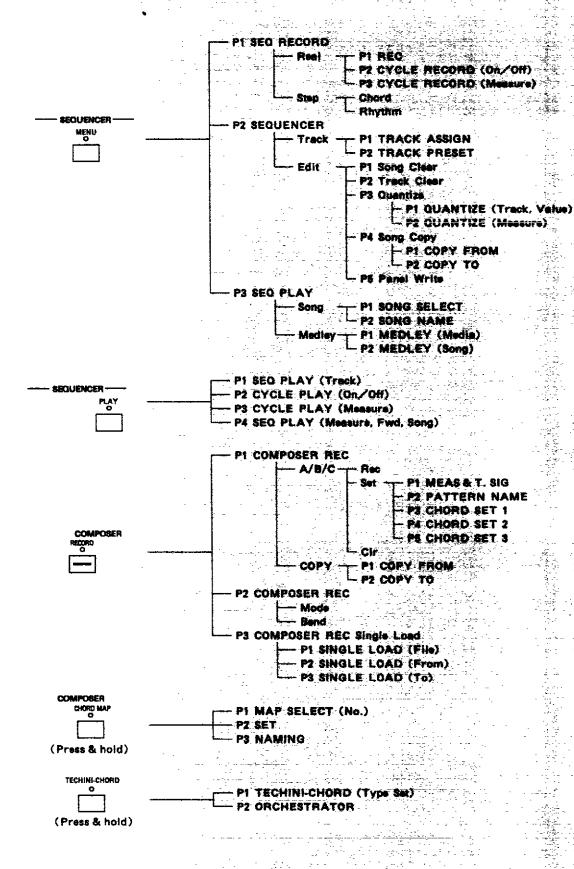


P4 Left Hold

## - SELAY GUIDE (KN720)

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	= 11 7	
	•	Common Sir The Common Sir Comm
		IN/OUT Set
		* · · · · · · · · · · · · · · · · · · ·
		MIDI Presets
	<b>≛</b> ∮€*`. <b>∭</b>	FEWITHOUT APC
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	<u></u>	Sem Mode
		44
		ு P: MEM MÖÑE
	- rass & hold)	EXP. FILTER
	1	PI TECHNI-CHORD (Type Set)
		TO ORCHEST HATOR
SY SETT	ING (Press & hold	
	ING (Press & hold	<b>1</b>
	W T TOPLA R. Care Y	FAREL SECTION OF THE PROPERTY
	ING (Press & hold	PANEL TO NEW UPANE
	W T TOPLA R. Care Y	FANEL
	TEV Type & Set/	FANEL
	W T TOPLA R. Care Y	P. MEM MODE  →P. MEM MODE  →TECHNI-CHORD (Type)
	TEV Type & Set/	P. MEM MODE  →P. MEM MODE  →TECHNI-CHORD (Type)
	TEV Type & Set/	P. MEM MODE  → P. MEM MODE  → TECHNI-CHORD (Type)
	TEV Type & Set/	P. MEM MODE  → P. MEM MODE  → TECHNI-CHORD (Type)
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	TEV Type & Set/	PANEL  → P. MEM MODE  → TECHNI-CHORD (Type)
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	TEV Type & Set/	P. MEM MODE  → TECHNI-CHORD (Type)

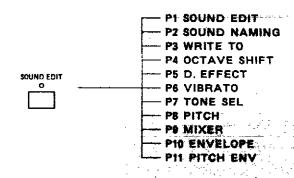
## DISPLAY GUIDE (KN920/KN1500)



# 

	Longill Medicular of the state
	FI PD LOAD
	Tech Pi FD LOAD
	P2 FD LOAD (SEC.Song).
TANKS CO.	SMF TOAD
	Total Andrew Control of the Control
	PI SINGLE COAD (File)
	TA NINGLE LOAD (To)
	LUMI SINGI.F Sound Memory
2 10 A 10	T. SINGLE LOAD (From→Io)
	SINGLE LOAD (From→To)
<del></del> : <del></del>	THE NAMING
	P2 FILE Delete
	PI SMF NAMING
	FILE Dalata
	Iliract Play
	MACDIRECT PLAY (File)
	ENTINEUL PLAY (SMF AS GM)
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	initial
	Foot Switch
<del></del>	CONTINUES. As well-sea with a law or and a law or an analysis and a supplied of the continues of the continu
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	MIDI Presets  Filtering After the second sec
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	RILL Dump
Experience to a support to the action of the company of the compan	The second secon
	P.MEM MODE
Frank & Hold )	EXP.FILTER

# DISPLAY GUIDE (KN920/KN1500)



### EASY SETTING (Press & hold)

DIGITAL REVERS O	→REV (Type & Set)	→MSA MODE SET
DSP EFFECT C	→DSP (Type & Set)	MEMORY A CONTROL  CON
SET	→P. MEM MODE	COMPOSER LOAD
TECHNI- CHORD O	→TECHNI-CHORD (Type)	OMDRA -MAP SELECT

	i <u>Nadni</u>	TECH			1		ANGE DA	TA !!
FIRST GENTA		TECH						
FIRST GENTA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GM	1 NO.	SOUND	NORM		
MORE TORK	T (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and a company of the company	ETION CONTRACTOR	<u>1</u>		NORM		GM
MARCHINE TONK TONK	I1 (11)	1 1 (6)		<b>1</b> .051 1 .052	Bowed Bass	<u>50 (0)</u>	98 (0)	
Elect Grand	T 7 (N)	1 1 (181)	<u> </u>	‼ 052	Vocal Ah	51 (0) F2 (0)	104 (48)	53
Fiano	: 3 (0)	1 7 (NT)	<del></del>		Vocal Don	52 (0)	100 (0)	
	: 4 (0)	- 4 - 1 - 7 - 7 - 6 - 4 - 7	· · · · · · · · · · · · · · · · · · ·			<b>53</b> (0)	100 (0)	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	* * * * * * * * * * * * * * * * * * *	5 (0 <u>) ]</u>	<u>್ ಶ್ರೀಟ್</u> .	055	Jazz- Organ	54 (0)	88 (0)	AVER THE ACCUST OF
M. S. BRANGEN E.P.	6 (A)	<u></u>		. DET	Full Drawbars	55 (0)	90 (0)	
m r severeller h.	:6 (0.) 	B (A) 7	<u></u>	. NED	Rock Organ	56 (0)	92 (32)	10
		16 (6)	un <u>a yaya kanza</u>	059	Pipe Organ Harmonium	57 (0)	84 (0)	20
I PIPORICHOTO	. <b></b> (0)	<del></del>			<del> </del>	58 (A)	86 (37)	21
respective to the second second			<b>H</b>	II NAN I	Retaccordion	59 (0)	RN (A)	79 T
THE COMMENT CIAV	10 (1)	115 (0)		I 061	Bandoneon	60 (0)	80 (16)	. 24
	- 37 (Q) -	9 (0)		1 1957	Press	61 (0)	56 (0)	42
.4 F WHOTADHONA	12 (0)	I B (0) I	12	1 063	Octava Brass	62 (0)	56 (16)	
T SPANA	13 (11)	1.10 (01.1	13.	. 064	SynthBrass 1	63 (0)	60 (0)	63
THE ACT OF THE PARTY OF T	14 (0)	11 (0)	14	065	SynthBrass 2	64 (0)	62 (64)	. 64
	<b>15</b> (71)	17 747		res	Trumpet	65 (0)	48 (0)	67
TELEVISION TO THE PARTY OF THE	15 (0)	15 (0)	115	067	Solo Trumpet		48 (64)	
Lubular Bells	. 17. (0)	. 14 (0)	15	. 068	Mute Trumpet	67 .(0)	50 (0)	
: tinkie Reil	18 (0)	14 (37)	112	, rues	Brt Trombone	<b>88</b> (0)	52 (0)	58
1 1 1 2 EQ FO FATE	<u> 19.(0)</u>	1 20 (0) (	2. 1.8089.71.	. 070	Clad Fr.Horn	69_(Q)	54 (0)	EXERNAL EXECUTE OF THE
The state of the s	30.10)	20 (1K)	75	071	Open Fr.Horn	70 (0)	54 (18)	61
MEDIE WURK 1 DIS ALL	ZT (II)	. 33 (DIT	76	II 072	Marching Tuba	71 (0)	55 (16)	59
UK 1 1877 COTTAL	72 (0)	<u> </u>	27	<u> </u>	Soprano Sax	72 (0)	76 (0)	65
solia .		1 26 (QII	28	I 074	Alto Sax	73 (0)	77 (0)	68
ANTE TO ANTITA CALIFORN	<b>78</b> (N)	. 70 (01)	29	075	Mellow Alto	74 (0)	77. (16)	
A	29s. (11)	ा आग राग्य	313	I 076	Tenor Sax	75 (4)	78 7/8	<u>67 '</u>
- Carrie Garage	<b>25</b> (0)	1 77 (37TT	30	I 077	Breathy Tenor	76 (0)	78 (16)	
Harmonic	27 (n)	77 / [6]		מלח 📗	Baritona Sax	77 (0)	79 (16)	ASI .
Plawallan Gir	<b>28</b> (D)	31 (0)	4 - 16 - 19 - 10 - 1	079	Jz Clarinet	78 (0)	68 (n)	72
Ranto Passage South	70 (n) .	- · · · · · · · · · · · · · · · · · · ·	108	080	Obos	79 (0)	68 (0)	RO I
ar a s annolls	<u> 30 (n)</u>	32 (1)		081	English Horn	80 (0)	67 (0)	70 1
THE PARTY CONTRACTOR IN	अ १०	I.X.OL	. 47	082	Bassoon	81 (0)	70 (n)	71 1
CONTRACTOR OF THE PROPERTY OF	32 (0)	127 (16)	56	083	Harmonica	R2 (N)	R2 (N)	23 👢
1 Marie - III (Medial Partie)	33 (0)	1128 (OYF	48	084	Ragoipe	83 (0)	73 (6) [	110
	<u>en (1) J</u>	<u>.                                    </u>		ii <b>08</b> 5	Shanai		73 (16)	112
THE E AND A SECOND IN	35 (n) :	: 37 (NY)	108	086	Piccolo		64 (0)	73
	BR (D) !	34 (D);	107	- 087	Jezz Flute	86.(0)	65 (0)	74
Esimbe	27 (N) [	The second secon	100		Pan Flute	87 (0)	72 (0)	76 I
The second secon	<del> </del>	1 38 (0)	105	T 089 ]	Syn Calliope	88. (O)	72 (48)	83
		38 (16)	16	090	Recorder	89 (D)	74 (0)	75
= t + atrinos	<u> 40 (0) 1</u>	1 100 (011	49	ı ngı l	Ocarina	an (n)	74 (16)	80
	<b>A1 (0)</b> [	TOT (OTT	50 1	I. ostz 📑	Blown Bottle	91 (0)	72 (32)	<i>71</i>
Towns at Femolo Str	47 [D]	100 (32)	45	083		92 (0)	. 111 (0).	
TOTAL TOTAL AND THE STATE OF TH	<b>43</b> (0)	99 (0)	45	094	Shakuhachi	93 (0)	. 75 (0)	78
- management at the second of	44 (Ü)		_51	. 095	AcousticBass	94 (0)	43 (0)	33
THE STORY		103 (16)	52	096	Elect Bass	95 (0)	40 (0)	
_i · · · · · · · · · · · · · · · · · · ·	45 (U)		41	097	FretlessBass	96 (0) I	40 (22)	28 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Larry Flagis		95 (32)	111	# C98	Picked Bass	97 (0)	42 (0)	
	. 408 [U].	1 97 (371T	<u> </u>	U2G	Picked Bass		2 . C C	35
The state of the s		1 97 (017 _		*	L. T. Linger	98 (0)	41 (0)	37   -
THE TOURS TE BIEFE		- ** / · · · · · · · · · · · · · · · · ·			Slep Bass 2		41 (16) i	<b>38</b>

# SOUND (KN720)

NO.	SOUND	MIDI PROGRAM CHANGE DATA			_		MIDI PROGRAM CHANGE DATA		
		NORM	TECH	GM	NO.	SOUND	NORM	TECH	GM
101	Analog Bass	100 (0)	46 (16)		126	loe Rain	125 (0)	121 (48)	97
102	Wow Bass	101 (0)	46 (0)	39	127	Soundtrack	126 (0)	119 (16)	98
103	House Bass	102 (0)	47 (32)		128	Goblina	127 (0)	106 (0)	102
104	Plastic Bass	103 (0)	46 (80)	40	129	Agogo	0 (1)	122 (0)	114
105	Squere Lead	104 (0)	117 (0)	81	130	Wood Block	1 (1)	122 (16)	116
106	Saw Lead	105 (0)	118 (16)	82	131	Taiko Drum	2 (1)	123 (48)	117 -
107	Air Vox	106 (0)	106 (16)	86	132	Melodic Tam	3 (1)	122 (32)	118
108	Chiffer Lead	107 (0)	117 (32)	84	133	Synth Drum	4 (1)	124 (0)	119
109	Charang	108 (0)	27 (48)	85	134	Rev Cymbai	5 (1)	(46)	120
110	5th Wave	109 (0)	119 (0)	87	135	Fret Noise	0 (1)	124 (14)	121
111	Bass & Lead	110 (0)	46 (32)	98	136	Breath Noise	7 (1)	124 (32)	122
112	Crystal	111 (0)	9 (32)	99	137	Secenore	8 (1)	124 (48)	123
113	Miw Ensemble	112 (0)	107 (16)	90	138	Bird Tweet	9 (1)	125 (32)	124
114	Synth Vocal	113 (0)	107 (0)	55	130	Telephone	10 (1)	123 (0)	125
115	Spacy Pad	114 (0)	107 (32)	92	140	Helicopter	11 (1)	123 (16)	126
116	Metal Pad	115 (0)	106 (32)	94	141	Appleuse	12 (1)	(25 (46)	127
117	Star Theme	116 (0)	120 (16)	104	142	Gun Shot	13 (1)	125 (32)	128
118	Bowed Glass	117 (0)	120 (0)	93	143	Jazz kit	14 (1)	113 (126)	· .
119	Atmosphere	118 (0)	21 (48)	100	144	Brosh kit	15 (1)	117 (128)	
120	Fantasia	119 (0)	116 (48)	89	145	Standard kit	16 (1)	112 (128)	
121	Mist	120 (0)	108 (48)	101	146	Room kit	17 (1)	115 (128)	
122	Sweep Pad	121 (0)	62 (32)	96	147	Power kit	18 (1)	118 (138)	
123	Halo Pad	122 (0)	17 (48)	95	148	Dance kit	19 (1)	122 (128)	
124	Echo Drops	123 (0)	106 (48)	103	149	Electric kit	20 (1)	<b>114 (128)</b>	-
125	Poly Synth	124 (0)	102 (32)	.91	150	Orch kit	21 (1)	124 (128)	

<sup>•</sup> The numbers in parentheses ( ) are bank data.

Program change number=Program change data+1/Bank number=Bank data+1

# ...MD (KWG20 \KM1200)

жите выполнения полительной выполнения выстительным выполнения выс		MIDI PROGRAM
-ANGE DATA	<u> </u>	CHANGE DATA
NORM   TECH   GM   NO.	SOUND	NORM TECH GM
	T Chamisen	50 (n) 36 (n) 107 T
	. Relimba	51 (0) 39 (0) 109
AND THE PROPERTY OF THE PROPER	T MatalKalimba	52 (0) 39 (16)
3 TO 1 7 TIGHT	Sitar	53 (0) 38 (0) 105
7 A TO 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	i Gemelan	54 (C) 14 (AR)
E (0)   1 (18) 1 4 - 1 - 056	Dulcimer	55 (a) 38 (16) 16 I
	Strings	56 (0) 100 (0) 40
Grand 17 (n) 1 (1271) 1 (188	I Slow Strings	57 (0) 101 (0) 50 "
	Oct Strings	58 (0) 102 (0)
A LOST LEADING TO THE REAL PROPERTY OF THE PARTY OF THE P	Bass Strings	50 (n) 09 (16)
TIT (D) & (DT & DE)	Tremolo Str	60 (0) 100 (32) 45 I
ma v = 1 (0) 1 4 (0) 1 (87)	PizzicatoStr	61 (A) 90 (A) A6
	Syn String 1	62 (0) 103 (0) 51
13 11 16 11	Syn String 1	63 (f) 103 (16) 52
- 13 th 10 18 (0) 1 065	Violin	64 (n) 98 (n) 41
TE (11) 17 (10) 1 8 466	L Violin	65 (d) 96 (16)
TO THE PARTY OF TH	Cotry Fiddle	56 (0) 96 (32) 111 4
18 (0) : 115 (0) 1 167	Viola	67 (0) 97 (32) 42
	I Cello	88 (A) 1 97 (A) 43
18 (D) 8 (O) 12 169		69 (0) 98 (0) A4
3.44.44.44.4	Bowed Bass	70 (0) 104 (48) 53
	. Vocal Ah	The second secon
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Vocal Och	71 (1) 104 (32)
22 (0) 15 (0) 115 073	Humming	72 (0) 105 (0)
	Vocal Doo	73 (0) 109 (0) 54
The state of the s	Jazz Organ	74 (0) . 88 (0) . 18
75 (D) 13 (Q) 078	FuliDrawbars Tazzbrawbars	75 (0) 89 (0) 17 T
Land to the state of the state	I 16 &	
77 (D) 11 (TB) 078	: :	77 (0) 91 (0) 78 (0) 90 (0)
No. 7 available Francisco	Pop Organ	78 (0) 90 (0)
Polk Guitar   30 (6)   27 (6)	Pipe Organ	80 (0) 84 (0) 20
Mar. 78 1822 Syring Gr 1 37 (8) 1 73 (6) 1 76 (6)	TheatreOrgan	81 (0) 87 (32)
- Hectro Actor (1) 25 (32)1 083	Harmonium	82 (0) 86 (32) 21
	BrtAccordion	
22.75) 28 (0) 28 (0) 28   095	MwAccording	94 (0)   91 (0)
35 (f) 28 (0)T 086	Musette	85 (p) 82 (0)
38 (f) 78 (18)1 087	Bandoneon	86 (0) '80 (16) 24
TOTAL	Frace	87 (n) 56 (n) 42
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Brass&Synth	00 (0) 50 (40)
	Octava Brass	89 (0) 56 (16)
10 1 Rock Harmonic 40 (d) 27 (18) 1 not	SynthBrass 1	90 (0) 60 (0) 63
Will (all ).	SynthHrass 7	91 (0)   63 (48)
	SynthBrass 3	92 (0) 62 (64) 64
88 nio 43 (0) 33 (0) 108 1094	Trumpet	93 (0) 4B (0) 57
ADD TOTAL TO	L Solo Trumpet	94 (0) 48 (64)
Harp 45 (0) 32 (0) 47 096	Mute Trumpet	95 (0) 50 (0) 60
	Flugel Horn	96 (0) 51 (0)
CHARGE TO SELF- PROTECTION OF THE PROTECTION OF	Brt Trombone	97 (0) 52 (0) 58
AB (0)   7 (0)   11   088	Miw Trombone	00 (0) 52 (0)
49 (D) 37 (O) 108 100	Clsd Fr.Horn	99 (0) 54 (0)
	A CARAMER CAREFARD COMMUNICAL	THE THE TOTAL THE STREET STREET, STREE

# SOUND (KN920/KN1500)

		MIDI PROGRAM CHANGE DATA					MIDI PROGRAM CHANGE DATA		
NO.	SOUND	NORM	TECH	GM	NO.	SOUND	NORM	TECH	GM
101	Open Fr.Horn	100 (0)	54 (18)	61	151	Charang	22 (1)	27 (48)	85
102	MarchingTuba	101 (0)	55 (16)	59	152	Olymp Synth	23 (1)	80 (84)	
103	Sopreno Sax	102 (0)	76 (0)	65	153	5th Weve	24 (1)	119 (0)	87
104	Alto Sax	103 (0)	77 (0)	88	184	Bess & Lead	25 (1)	48 (32)	
105	Mellow Alto	104 (0)	77 (18)		155	Synth Herp	26 (1)	32 (64)	
106	Tenor Sax	105 (0)	78 (48)	67	156	Crystal	27 (1)	9 (32)	99
107	BreathyTenor	106 (0)	78 (16)	-	157	Miw Ensemble	28 (1)	107 (16)	90
108	Rock Tenor	107 (0)	79 (0)	<u>,</u>	158	Warm Syn Pad	29 (1)	<b>52</b> (80)	
109	Baritone Sax	108 (0)	79 (16)	98	159	Synth Vocei	30 (1)	107 (0)	55
110	Jz Clerinet	109 (0)	68 (0)	72	100	Spacy Pad	31 (1)	107 (32)	92
111	ClasClarinet	110 (0)	69 (0)		161	Metal Ped	32 (1)	100 (32)	94
112	Oboe	111 (0)	66 (0)	69	162	Star Therne	33 (1)	120 (18)	104
113	English Horn	112 (0)	67 (D)	70	163	Bowed Glass	34 (1)	120 (8)	93
114	Bassoon	113 (0)	70 (0)	71	164	Atmosphere	35 (1)	21 (48)	100
115	Harmonica	114 (0)	83 (0)	23	185	Fentesis	36 (1)	116 (48)	89
116	Blues Harm	115 (0)	83 (16)		186	Dream	37 (1)	108 (32)	
117	Bagpipe	116 (0)	73 (0)	110	167	Mist	38 (1)	108 (48)	101
118	Shanai	117 (0)	73 (18)	112	188	Sweep Ped	39 (1)	<b>62</b> (32)	98
119	Piccolo	118 (0)	64 (0)	73	189	Halo Pad	40 (1)	107 (48)	96
120	Jazz Flute	119 (0)	65 (0)	74	170	Echo Drops	41 (1)	106 (48)	103
121	Clas Flute	120 (0)	65 (16)		171	Poly Synth	42 (1)	102 (32)	21
122	Alto Flute	121 (0)	64 (16)		172	ice Rein	49 (1)	121 (48)	\$7
123	Pan Flute	122 (0)	72 (0)	76	173	Soundtrack	44 (1)	119 (16)	98
124	Syn Calliope	123 (0)	72 (48)	83	174	Goblina	45 (1)	106 (0)	102
125	Recorder	124 (0)	74 (0)	75	176	Agogo	46 (1)	122 (0)	114
126	Ocarina	125 (0)	74 (16)	20-	176	Wood Block	47 (1)	122 (16)	116
127	Blown Bottle	128 (0)	72 (32)	77	177	Telko Drum	48 (1)	128 (48)	117
128	Whistle	127 (0)	111 (0)	79	178	Melodic Tom	49 (1)	122 (32)	118
129	Shakuhachi	0 (1)	75 (0)	78	179	Synth Drum	50 (1)	124 (0)	119
130	AcousticBass	1 (1)	43 (0)	93	180	Rev Cymbel	51 (1)	122 (48)	120
131	Elect Bass	2 (1)	40 (0)		181	Fret Noise	52 (1)	124 (16)	
132	Bright Bass	3 (1)	40 (16)	34	182	Breath Noise	53 (1)	124 (32)	121
133	Fusion Bass	4 (1)	40 (84)		183	Seashore	54 (1)		123
134	Funky E.Bess	5 (1)	40 (48)	<del></del>	184	Bird Tweet	<del></del>	124 (48)	
135	FretlessBess	6 (1)	40 (32)	36	185	Telephone	55 (1)	125 (32)	124
136	Picked Bass	7 (1)	42 (0)	35	190	Helicopter	56 (1)	123 (0)	125
137	Mute Bass	8 (1)	47 (0)		187	Applease	57 (1) 59 (1)	123 (16)	123
138	Stap Bass 1	9 (1)	41 (0)	37	188	Gun Shot	58 (1)	125 (48)	127
139	Siap Bass 2	10 (1)	41 (16)	38	180	Jacz Kit	80 (1)	123 (32)	128
140	Analog Bass	11 (1)	46 (16)		190	Brush Kit	80 (1)	113 (128)	أيشنت
141	Soul Bass	12 (1)	42 (16)		191	Standard Kit	61 (1)	117 (128)	·
142	Wow Bass	13 (1)	46 (0)	39	192	Room Kit	62 (1)	112 (128)	
143	Dance Bass	14 (1)	47 (48)	¥¥	193		63 (1)	115 (128)	
144	House Bass	15 (1)	47 (32)	1 222	<del></del>	Light Rock Kit	84 (1)	126 (126)	<del></del>
145	Plastic Bass			40	194	Power Kit	65 (1)	110 (128)	<del></del>
146	Square Lead	18 (1)	46 (80)	40	195	Funk Kit	66 (1)	120 (128)	<del></del>
147	Saw Lead	17 (1)	117 (0)	81	196	Dance Kit	67 (1)	122 (128)	
		18 (1)	118 (16)	82	197	House Kit	68 (1)	123 (126)	<del></del>
148	Sine Lead	19 (1)	94 (0)		198	Soul Kit	69 (1)	121 (128)	
149	Air Vox	20 (1)-	106 (16)	96	199	Electric Kit	70 (1)	114 (128)	
150	Chiffer Lead	21 (1)	117 (32)	84	200	Orch Kit	71 (1)	124 (128)	

<sup>•</sup> The numbers in perentheses ( ) are bank data.

Program change number=Program change data+1/Bank number=Bank data+1

The second secon	Apparation to the same of		The result of the second of th	2 · . · · · · · · · · · · · · · · · · ·	ROGRAM	
TANG	E DATA	   1345.£		CHANG	E DATA	7.4.1
Francisco Spring No. 1 NO. SW. No. 1	JECH.	NO.	RHYTHM	NORM	IECH	
- PT T M MT DYMINIATE ST. VASAGE SERVE ST. MALE ST.	90 (0)—	051	Disco 7	50	123 (64)	enero.
MANUAL TERMINATION OF THE PROPERTY OF THE PROP	<u>on</u> (112)	052	Disco Samba	51	120 (64)	
THE THE PRINCE OF THE PRINCE O	91 (32)	053	Dance	52	124 (96)	
The second of th	91 (64)	054	House	53	125. (32)	
HART POD	B4 (64)	055	Techno	54	126 (48)	
== FE CASTE PIRAPROPOCK	R4 (96)	Q56	Нір Нор	55	127 (80)	
	_RE (4R)	057	Garage	56	125 (48)	<u> </u>
Pinn Pon	00 (22)	058	Rap	57	127 (112)	
The second of th	OR (OR)	059	Ballroom Fox	58	29 (16)	
Board and the second se	DR (RA)	060	Euro Fox	59	29 (32)	
TE POP 10 HOST POP	f01 (32)	061	Paris Ballad	60	74 (96)	*******
* DIZ TEBL HAUACI	99 (16)	.062	Chanson_Fox		29 (64)	- 1 · · · · · · · · · · · · · · · · · ·
TZ IEST MAILACZ IZ	99 (117)	063	Quickstep	62	28 (16)	
E.P. Ballad	99 (0)	064	Jive	63	29 (0)	
# 015 TB PopBallad 14	107 (80)	065	BigBand Fast	64	36. (64)	
HOCKHAHAD	.100 (32)	066	BigBand Mid	65	38 (80)	
Remind Rock 1 16	72_(R0)	Δ87	Dance Band	RA	30 (AR)	
NAME AND THE TAXABLE TO	<b>J2</b> (54)	068	BigBand Slow	67	38 (112)	
ROCK IN ROLL	BO (80)	069	Swing Combo	68	25 (32)	
Plano R&Roll 19	<b>B</b> 0 (96)	070	Orch.Swing	69	37 (32)	
021 Twist 20	76 (32)	071	Jazz Weltz 1	70	46 (48)	
Barria RAR1	76 (16)	072	Jazz Waltz 2	75	48 (64)	
L. Smile R&R2	76 (112).	073	Swingy Waltz	72	12 (16)	
Snuji Boogle 23	-76 (Q)	074	Jazz Combo	73	34 (80)	2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
70 T Shuffle 24	79 (32)	075	Euro Combo	74	34 (84)	L
nze Shuti Balled 25	78 (32)	076	Jazz Quartet	75	32 (64)	
Hock Ballad 26	74 (80)	077	Jazz Quintet	75 76		
SET SETACE 227	75 (64)	078	Jazz Ballad	70 77		
Phythm&Blues 28	123 (80)	079	BoogieWoogie	78	44 (16)	
Hate Book	92 (32)	080	Modern Jazz		31 (0)	
Shiff H Rock 30	<b>79</b> (16)	081		79	40 (80)	
The state of the s	.81 (32)	082	BroadwayShow Hollywood	80	15 (64)	·
Best Soul	212 ···- 701 \$			81	30 (16)	. 1. 1 – 4.71 – 1
	<b>87</b> (18)	083	Soft Shoe	82	24 (80)	
20 William Collect College	77 (80)	084	Cabaret	83	15 (48)	
	102 (64)	085	Country2 Step	84	17 (112)	
	75 (0)	086	CountryPiano	85	75 (48)	
Rear Soul 36	103 (32)	- 087	CountrySwing	86	17 (80)	
AMERICAN CONTRACTOR OF THE CON	110 (48)	088	Bluegrass	87	20 (48)	
- Jezz Funk ( 39	<b>35</b> (32)	089	Country Pop	88	85 (48)	, <del>det</del> er
<ul> <li>会でいまける場合は重要しる。</li> <li>会のできませる。</li> </ul>	112 (48)	090	CountryRock1	89	85 (64)	<del></del>
	113 (64)	091	CountryRock2	90	B5_(32)	
- Jezz Rock 1 41	773 (96)	092	CountryRock3	91	18 (16)	
Jazz Hock Z 42	113 (80)	093	Dixie Band	92	24 (96)	
with Larin Hock 43	118 (48)	094	Gospel Shufl	93	77 (64)	
C45 Samba Rock 1 44	116 (48)	095	GospelBallad	94	75 (112)	
Semba Rock 2 45	117 (16)	096	Gospel 4 / 4	95	77 (96)	
The second of th	<b>38</b> (84)	. 097	Gaspel 3 / 4	96	.19 (16)	<del> </del>
nas Latin Pon 47	116 (16)	980	Slow Blues	97	75 (32)	
Euco Beet 48	124 (112)	099	Hawaiian	98	22 (16)	,
Land Disco. Lanares as imported has a 49 mars.	124 (80)	100	US March 2/4	99	0 (80)	

EROS - COS SERVICIOS CON CONTRA SERVICIONAL CARRESTA DE CONTRACADO DE CO

# **RHYTHM**

NO. RHYTHM	MIDI PE CHANGI				MIDI PRO		
	RHYTHM	NORM	TECH	NO.	RHYTHM	NORM	TECH
101	GrmnMarch2 / 4	100	1 (48)	115	Modern Membo	114 (1981)	56 (32)
102	US March 8/8	101	2 (18)	118	Carib	115	118 (84)
103	Pop March	102	4 (64)	117	Swing Reggee	116	71 (32)
104	Polke 2/4	103	4 (32)	118	ModernRegge	117	. 71 (48)
105	Waltz	104	8 (112)	119	Bossanove 1	118	48 (0)
108	Baltroom 3/4	105	13 (32)	120	Возвелоуе 2	119	48 (112)
107	ChansonWaitz	108	11 (32)	121	Sambe	120	81 (96)
108	Vienna Waltz	107	9 (32)	122	Modern Sembe	121	51 (80)
109	Rhumbe '	108	58 (64)	123	Merengue	122	67 (16)
110	RumbaPianist	109	58 (80)	124	Tango Argent	123	53 (48)
111	Beguine	110	59 (32)	125	Tango Europe	124	53 (64)
112	Bolero	111	58 (32)	126	Arabian	125	60 (0)
113	Cha Cha	112	57 (48)	127	Keroncong	126	66 (86)
114	Mambo	113	56 (64)	128	Dangdut	127	60 (84)

<sup>•</sup> The numbers in parentheses ( ) are bank data.

Program change number=Program change data+1/Bank number=Bank data+1

# - YHUARD PERCUSSION

Other kits		NOTE '	Orch kit		NOTE ABER	
<b>种的分别是在企业的企业的企业的企业的企业。</b>	NORM	TECH		NORM	TECH	<u> </u>
·						
Hess Drum	38	36	Orchestral Bass Drum	36	36	
Rim Shot	37	47	Rim Shot	37	47	
	35	38	Orchestral Snare Drum 1	38	38	Total Control Control
Special Share Drunt	39	31	Castanets	39	55	
Snare Drum 2	40	32	Orchestral Snare Drum 2	40	32	<u></u>
Floor Tom	41	95	Triangle	41	57	
Splash Cymbal	42	24	Cymbal Soft Mallet	42	24	
Tom Low	43	41	Ohchestral Tembourine	43	21	
Crash Cymbal Low	44	51	Orchestral Cymbal 1	44	51	
Tom Mid	45	43	Tam-Tam	45	30	· S_ASERATANA
Crash Cymbal High	46	25	Orchestral Cymbal 2	46	25	
- High	<b>i i</b>	45	Rattle	47	58	-::::::::::::::::::::::::::::::::::::::
The Mart Close 1		48	Tublar Bells C	48	84	
HAT Close 2	1 ' <b>20</b> 0 ' '	.49	Tublar Belis C*	49	- 85	<u></u>
HEL HAT CITARY	[ 30 ]	50	Tubler Bells D	50	86	The Company
Kide Beil	51	28	Tublar Bells D*	51	87	
The Combal	52	52	Tublar Beils E	52	88	<u> </u>
でのでは、中央学生は相談ではなった。 Conga Low	53	53	Tublar Bells F	53	89	COLUMN TO THE RESIDENCE
Total v. Small Conga Low	54	54	Tublar Bells F	54	90	
Çunya High	55	55	Tublar Belis G	55	91	r
rail Conce High	58	56	Tublar Bells G*	56	92	
TOWARD AND A CONTROL OF THE CONTROL	57	57	Tubiar Belis A	57	93	
Tables	58	58	Tublar Bells A*	58	94	
TIMERINE I OW	59	99	Tublar Beils B.	59	95	<del>- 17-12-20-22-2-</del>
* Trytosias High	50	100	Tubler Bells C	60	98	rando estado de la composição de la comp
11 ow	61	. 60	Tublar Bells c	61	97	W7 TV28-945
Contail High	62	62	Tubler Bells d	62	98	
	63	102	Tubier Bells d*	63	99	
High	64	101	Timpani E			
- W7ristia Low	1 <b>65</b>	85. 1	Timpani F	64	64	र १८१८ सन्तरसम्बद्धाः १८१८ र रसन्तरः सम्बद्धाः सम्बद्धाः
Sambe Whistle High		66	Timpani F <sup>4</sup>	.65	65	
Chines	66     67	67		66	66	<del>,</del>
Erish - femb ( - E ) 1	<u> </u>	68	Timpeni G	67	67	A 5 00 14
	58		Timpani G*	68	68	bar. 4 yeşimin e eniz
Hand Claps	59	69	Timpani A	69	69	
Tambourine	70	74	Timpani A <sup>4</sup>	70	70	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	71	96 .	Timpani B	71	71	
Triangle Mute	72	108	Timpanic	72	72	
	73	105	Timpani c*	73	73	- ELET TELLE
Frangle Open	74	107	Timpanid	74	74	
South Suntr	75	77	Timpenid*	75	75	
in Long	76	78	Timpanie	. 76	76	
Orchestral Bass Drum	77	85	Timpanif	77	77	-
A Section of the sect	78	86	Wood Block Low	78.	115	and the second second second
Orchestral Cymbal	79	87	Wood Block Mid	79	116	
Wind Chime	80	29	Wood Block High	80	117	To the second
THE STATE OF THE S	81	118	Hi Hat Close 1	81	48	:;
Vibraslap	B2 [	111	Hi Hat Close 2	82	49	·
a manufacture and the control of the	غ⊸-شد د ادع	. 119	Hi Hat Open	83	50	

# KEYBOARD PERCUSSION

		General MIDI	MIQI NOTE NUMBER
		Bass Drum 2*	<b>7</b>
	(0)	Bass Drum 1	36
	6	Rim Shot	<b>57</b>
	<b>⊕</b> ,	Snare Drum 1	38
	@ p	Hand Claps	30
	<b>@</b> ;	Snare Drum 2	40
	A	Floor Tom Low	41
	79	Hi Hat Close	42
	6	Floor Tom High	43
	φ.	Hi Hat Pedal	44
	₽-	Tom Low	45
	<b>Φ</b> , □	Hi Hat Open	46
	€34	Tom Mid	47
	<u>_</u>	Tom High 1	48
· · · · · · · · · · · · · · · · · · ·	ا:_ټ	Crash Cymbal 1	49
	9	Tom High 2	50
	R	Ride Cymbal 1	- 51
	A	China Cymbal	52
	Ð٠	Ride Beil	53
	٥٠	Tembourine	54
	0-	Splash Cymbai	55
	0-	Cowbell	5 <b>6</b>
	٥٠	Crash Cymbal 2	57
	Q.	Vibraslap	58
	ob.	Ride Cymbal 2	80
	69.	Bongo High	60
	Ø.	Bongo Low	61
	Q-	Congs Mute Crash	82
	CF.	Conge High	63
	- F	Conge Low	64
	a∯a t	Timbales High	65
	-40	Timbales Low	66
	~	Agogo High	67
	*	Agogo Low	18
	109	Cabasa	89
	Ó	Maracas	70
	0	Samba Whistle Short	71
	<u>~</u>	Samba Whistle Long	72
	a	Guiro Short -	73
	m <sub>C</sub> -	Guiro Long	74
	<u>S</u>	Claves	75
	- X	Wood Block Mid	76
	Œ	Wood Block Low	77
	<del>-</del>	Culca High	78
	<del>-</del>	Cuica Low	79
	735	Triangle Mute	80
	Man.	Triangle Open	81
		i riangia Open	<del> </del>
	B	Shaker	62
1	-CO :	Sleigh Ball	83

<sup>\*</sup> Sounds in SEQUENCER and MIDI function.

# **REVERB**

				7	
, Ro	om 1, 2	Reverberations sound as if produced in a room (indoors).	Volume Rev Time Pre Delay (KN228 High Damp Early Ref	0.10 0.10 - 24	- 90 - 10 s - 200 m - 0 dē
Pla	te 1, 2	A type of reverberation obtained from a reverb unit which utilizes the vibrations of a metal plate.	Volume Rev Time Pre Defay High Damp Early Ref	0 - 0.10 - 0 - -24 - 0 -	99 10 S 200 ms 0 dB
Солсе	ort 1, 2	Reverberations sound as if produced in a concert heli.	Volume Rev Time Pre Delay High Damp Early Ref	0 0.40 0 -24 0	99 30 S 200 ms 0 dB

ONNOON KN1800)	
(KN000/KN1000)	
Valuma Rev Time	Volume of the Pevoro.
Pre Delay High Demp	The time it takes for the reverpetion to hade out.  The time elepsed between the beginning of the reverbelles.  Adjusts the degree of demarks (s.
Early Ref	Adjusts the degree of damping in the treble range.  Adjusts the early-reflection level.

# 

	The state of the s	A OIRUIA
THE LIKE	T METITICA STRUCTURE SIGNATUR DISCRIPTOR TO THE STRUCTURE OF THE STRUCTURE	Depth 99
		1 FO Sed 0 - 99 I
	C Se THAT I I SHE	一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、
Trialing	Volume of the sound to the effect is applied.  Death of the effect.	
FO Sng	: Transmission frequency of the LFO (low frequency osc	illator) modulator.
and color for reprint and every energy.	A CONTRACT CASCALLY CONTRACT C	
· · · · · · · · · · · · · · · · · · ·		
		Volume Depth 0 99
- SALTULII ATEDV	The section of the swell	Lui
· Commus I		Slow LFO 0 99
		THE PART OF A CAMPAGNAME AND A CAMPAGNAMENT OF THE PART OF THE PAR
		Con- off, Later Service 24 on Displays come 2
THE LED	Speed of the Sinw LFO Selence of the Fest LFO.	
TO ALMERICA LANGUAGE THE LANGUAGE	14.1 12.1 (1994) - 1.1 (1994) -	For the Secretary of the Company of
		Denth 0 - 99
	prayring in unison,	IFO XX
	es to management of the contract of the contra	The second secon
		To all the second secon
Mod Coles		Volume 0 - 99
WUDULATED	A differently modulated celeste in which	Depth 0 - gg
* LELESTE /	the swell is emphasized.	Slow LFO
		Fest LEO 0 - 99
	<del></del>	
	- A MAREN A FILE TO TOTAL TO THE AREA A RESTREEM NAVE	to an interference of the aggregation of the aggreg
- lander	The second to added, giving an intensity for	LEO Spd
	as having many overtones (harmonics)	Besonanc -99
THE PERSON NAMED AND PARTY OF THE PERSON NAMED AND PARTY.	A STATE OF THE PARTY OF THE PAR	Menual 0 = 90
		The state of the s
	CANTINGE VOILITIE CINVERTED When a minus value?  Center frequency to whitch the effect is applied.	The state of the s
	Carrier Transactor to written me anati is appried.	A CONTRACTOR OF THE CONTRACTOR
	工程(1000年) [1000年] [10004] [10	
- Wibrato	Modulates frequency in a vibrato pattern.	Depth 0 - 99
wiprato	Modulates fraquency in a vibrato pattern.	Depth 0 - 99  LFO Spd 0 - 99
ibrato	I Moduletas fraquency in a vibrato pattern.	Depth 0 - 99  LFO Spd 0 - 99
ibrato	Modulatas fraquency in a vibrato pattern.	Depth 0 - 99 0 - 99
iprato	L Modulates frequency in a vibreto pattern.	Depth 0 - 99 0 - 99
i Dirato	L Modulates frequency in a vibreto patiern.	Depth 0 — 99 0 — 99
Brate	I Modulates frequency in a vibrato pattern.	Depth 0 — 99 0 — 99
	Modulates frequency in a vibrato pattern.	Depth 0 - 99 0 - 99
Distance of the second	Modulates frequency in a vibrato pattern.	Depth 0 - 99 0 - 99
Brate 1	Modulates frequency in a vibrato pattern.	Depth 0 - 99 0 - 99
ibrate	Modulates frequency in a vibrato pattern.	Depth 0 - 99 0 - 99
Sibrate State of the state of t	Modulates frequency in a vibrato pattern.	Depth 0 - 99 0 - 99
ibrato	Modulates trequency in a vibrato pattern.	Depth

# DSP EFFECT (KN920/KN1500)

Chorus	A natural fullness and richness is achieved by adding a sound of a slightly different pitch to the original sound.	Volume Rev Send Depth LFO Spd	0 - 90 0 - 90 0 - 80
Volume Rev Send Depth LFO Spd	Volume of the sound to the effect is applied.     The volume sent to DIGITAL REVERB.     Depth of the effect.     Transmission frequency of the LFO (low frequency osc	illator) modulator.	
Mod Chor (MODULATED) CHORUS	A differently modulated chorus in which the swell is emphasized.	Volume Rev Send Depth Slow LFO Feat LFO	0 99 0 99 0 99 0 99
Slow LFO Fast LFO	: Speed of the Slow LFO. : Balance of the Fast LFO.		:
Flanger	An undulation is added, giving an intensity to sounds having many overtones (harmonics).	Volume Rev Send LFO Spd Reconenc Manual	0 99 0 99 0 99 99 +98 0 99
Resonanc Manual	: Feedback volume (inverted when a minus value). : Center frequency to whitch the effect is applied.		
Phaser	A more distinct undulation effect then FLANGER. Ideal for electric pieno type sounds.	Volume Rev Send LFO Spd Reconanc Manual	0 - 99 0 - 90 0 - 90 
Ensemble	Produces the effect of many musical instruments being played together.	Volume Rev Send Depth LFO Spd	0 - 99 0 - 99 0 - 99
Sngi Diy (SINGLE DELAY)	An echo effect, in which the original sound is repeated after a delay.	Volume Rev Bend Delay L Delay R FBack L FBack R	0 - 90 0 - 96 0 - 350 ms 0 - 350 ms - 350 ms - 90 - + 90 - 99 - + 99
Delay FBack	: Time difference between original sound and the repeat : Feedback volume (inverted when a minus level).	(ms),	
Distortn (DISTORTION)	The sound is very distorted. A powerful effect when applied to a sound which is played solo.	Volume Rev Send Drive Adjust	0 - 00 0 - 00 0 - 00
Drive Adjust	: Degree of distortion. : The manner in which the effect is applied.		
Overdriv (OVERDRIVE)	A more natural distortion than the above effect, similar to that achieved with a vacuum tube amplifier.	Volume Rev Send Drave Adjust	9 - 99 0 - 99 0 - 90

# EFFECT (KN920/KN1500)

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ciarifies sound profile, and	Send to the send of the send o	
warran wasted that the true to the true	<u> </u>	The last of the la
一 and and international property of the desired of the desired of the second of the s	<b>化物的 医克里斯氏 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基</b>	Marie Color No. of Color and Color of C
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Por estremente en el como en la co	END SECTION FOR	
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CONTRACTOR SPEED DETWEEN SIW (SLOW)	and Est (FAST).	
		-

# DSP EFFECT (KN920/KN1500)

Ring Mod / RING	Produces a metallic sound. Tends to sound off key.	Volume Rev Sept	0 — 99 0 <u>—</u> 99
( MODULATOR )		-08C <b>\$</b> 64	
OSC Spd	: Oscillator frequency.		
		Volume Rev Send	0 4 90
		Dity d/w Delay L	0 90 0 - 500 ma
Dly+Chor (DELAY+CHORUS)	Combines delay with chorus.	Dolay R	0 - 300 me -00 +00
	- (本本本) [24] (本本) [24] (************************************	FBeck R Chor 6/W	10 10
		CFO Spd	
d/w	: The proportion at which the original sound and	the effect-aftered sound are	mixed.
		Volume	0 - 90
		Diy d/w Delay L	0 = 80 0 = 300 ms
Diy+Flan DELAY+FLANGER)	Combines delay with flanger.	Plack L	0 - 300 ms -90 - +90
		Fland/w	0.000
		LFG Spd Reconding Manual	-99 +99
		Volume Rev Send	0 90
		Dly d/w Daley L	0 - 300 ms
Diy+Phas (DELAY+PHASER)	Combines delay with phaser.	Deiny R FBeet: L	0 - 300 ma -99 - +90
		Phas d/w	0 - 90
		LFO Spd Resonanc Manual	-st - +w
-		Volume Rev Send	0 - 90
AWah+Diy AUTO WAH+DELAY)	Combines auto wah with delay.	Diy d/w Delay L	0 - 90 0 - 900 ma
weir built)		Delay R FBeck L	0 - 300 me -99 - +99
<u> </u>		Plant 1	

ECI (KN920/KN150	0)	
	- 130	
THE SECRETARY WASHINGTON CONTINUENCE TO THE CONTINUENCE TO THE SECRETARY C	promise programme and the contract of the cont	
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# **MIDI** Implementation Chart

Keyboard [ SX-KN720/SX-KN920/SX-KN1500 ]

(Transmitted)

Fi	inction	RIGHT1,2,LEFT, PART4~15	PART18	ACMP1	ACMP2.3	BASS	DRUMS	CHORD	CONTROL	<b>Pamerta</b>
Basic	Default	1-16	1-16	1-16	1-18	1-15	1-16	1-16	1.18	memorized
Channel	Changed	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	
	Default	3	3	3	3	3	3	3	- 3	OMNI OFF, POLY MODE
Vlode	Messages	×	×	×	×	×	×	×	×	<u>2</u>
	Altered	_	_	_	_	. <u>-</u> .	_	10 (177) 10 (178)	_	
Viote		0-119	0-119	0-119	0-119	0-119	0-119	0-119	-	Changes depending on the
Number	True voice	_	_	_		<del></del>		_	, <del>-</del> , -	Changes depending on the position of the transpose control octave shift, and drums type.
	Note ON	0	0	0	0	0	-0	0	-	
/elocity	Note OFF	×	×	×	×	×	×	×		
After	Key's	×	×	×	×	×	×	×	_	Transmitted during
Touch	Ch's	Ox,	×	×	×	×	×	×		SEQUENCER playbac
	0								<del>                                     </del>	
Pitch Ben	d	ox.	×	ox.	Ox*	Ox.	×	Ox.	×	
	0,32	o×,	O×.	Ox.	0ו-	O×.	Oו	Ox.	×	bank select MSB, LSB
	1	O×*	×	O×*	Ox*	Ox.	×	Ox.	×	modulation
	6,38	Ox.	Ox*	Ox.	Ox.	OXT	o×.	Ox.	×	data entry MSB, LSB
	7 10	Ox.	×	O×.	Ox.	Ox.	X	X	X	volume
	11	Öx.	ox.	o×.	Ox*	Öx.	ox.	×	Ox.	expression
	64	ox.	×	Ö×.	O×'	Ox'	×	×	×	sustain
Control	80	×	×	Ox*	×	_X: '	×	×	×	auto play chord
Change	82	×	×	×	×	<b>x</b> .]	Ox*	×	×	intro, fill in, ending
	91	ox.	Ox.	O×*	Ox.	O×*	Ox.	Ox.	Ox.	reverb
	93	Ox.	Ox.	×	×	. <b>x</b>	×	×	×	DSP effect / Charus
	94	Ox.	×	Ox.	O×.	OX*	×	OXT	×	digital effect
	100,101	ox.	×	×	×	×	×	×	×	RPN LSB, MSB
	120 121	o×.	ox.	×	×	×	×	×	×	all sound off
		0.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<u> </u>			×		
Prog		ox.	Ox.	Ox.	Ox.	Ox:	Ox*	Ox.	×	Changes depending on program diange mode
Change	True #		<u> </u>					-	_	and prograng to p.men
System e	xclusive				0					
<del></del>	Song Pos				Ox.					
System									wa ngari.	
nommon	Song Sei			1	Ox. (0-1	9)				
	Tune				×				Ministra	
System	Clock				0					
•				-	. •					. 4. 17.
Real Tim	Commence		<del>,</del>	· ·	Ox.	<del></del>	1 1	· · · · · · · · · · · · · · · · · · ·		start/stop.continue
	Local ON/OFF	×	×	×	×	×	×	×	-	
Aux	All notes OFF	×	×	×	×	×	×	<u> </u>		
Message	Active Sense				0			1		
	Reset				· ×		. <del></del>			
								en in Li	* _	
Notes		O×*	Whether c	r not the	data for a	ech of th	ese items	is transr	nitted can	be set.
		1			••					the state of the s
								5		

Mode 1:

OMNI ON, POLY

Mode 2:

OMNI ON, MONO

O:Yes

Mode 3:

OMNI OFF, POLY

Mode 4:

OMNI OFF, MONO

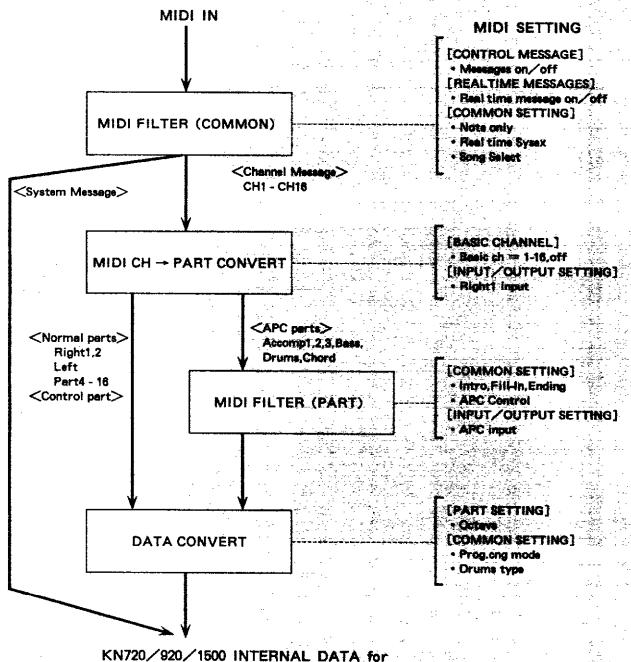
X:No

# ...Dl. Implementation Chart

	78 <b>7 SX</b> -	- K 197500	J I					[ Reconized	1
and the second s	PARTIS.	ACMPT	ACMP2.3	BASS	DRUMS	CHORD	CONTROL	Remarks	
		54 54 <b>6</b> 25			Acceptant				
THE PART OF THE PA	1-16	1.18	1-16	1-16	1-16	1-16	1-16	memorized	
Changed 1-18	1-16	1-1 <b>8</b>	1-16	1-16	1-16	1-16	1-16		
A THE PARTY OF THE	1 - 3		1. 1. <b>3</b> 3. 1. 1.		3	3	3	OMNI OFF, POLY MODE	1
Messages	1 X.			der Citi	×	X	×	<ul> <li>Control of the control of the control</li></ul>	1
THE STATE OF THE S	And Andrews	A STATE OF THE STA							
TO SERVICE	F U-12/	U-127	0-127	0-127	. U-127	0-127	: -556 (E 7	Changes depending on the	(LANGE OF THE PROPERTY OF THE
True voice 1 0.127	0-127	0-127		tarkalisetsi.	Entry of Malacan	Park - 24 157 1585		control of the transpose :	
		,	0-127	0-127	0-127	0-127	ł=Z:a	drums type.	<del> </del>
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	<b>X</b> .	X	Х	×	×	×	-		
XX.	X	X	X	X	×	×	İ <u>=</u>		
	**************************************	OX.	Öx	ÖX.			×		**************************************
<b>1997年 - 東京</b> の名の東西の	<b>Y</b>	- 1 AC -			<b>X</b> -	Ox.	L		
ESTAGE LINE OF THE STATE OF THE	F 73X-	()X*	(TX*	rîye "	Ox.	QX"	X	bank select MSB, LSB	
	<b>7 7</b>	OX*	(	OX.	Ž	Ox.	×	modulation data entry MSB 1 SB	
		. () <b>从</b> .	ÚX.	.UX	LUX.	Ο×	х	Volume	The state of
TANK LANGUAGE	<u>                                     </u>	UX	L QX	-1X	. X	X	L X	panpot	
	i	ŪX.	UX.	ַגע <u>ז.</u>	х	X	UX.	expression	*****
	7 -W -	1144				<u> </u>	**** <u>**</u>	ante play chord	**************************************
A CONTRACTOR OF THE ABOVE OF TH	171 V 1		UX:	KJX	ι οχ. Γοχ.	Ox-	ν ×	intro, fill in, ending	<u> </u>
WALL TO THE CONTROL OF THE CONTROL O	<u> </u>	M : 1		- I - I	. ×	- X	1 ×	USP effect/ Chorus	
	1 3.91	O.	ΟX	Ox.	<u>x</u>	Ox*	×	digital effect	5 CARACTANTE
	1. <b></b> [	ð	Š		o ×	ð	×	RPN LSB, MSB	
AND A TOTAL CONTRACTOR OF THE PROPERTY OF	i Ox*	OX.	O×*	O×.	Ox.	Ox*	×	reset all cotrollers	9.5951 L
		O	O×*	Ox.	O×*	ox-	×	Changes depending on	Partition of the second
Triin S	1-V-12/	O <u>x</u> 0-127	0-127	Ü-1 <b>27</b>	0-127	0-127		program change mode	
			<u> </u>		And the contract of	0-121	<u> </u>	and prog.cng to p.mem.	<u> </u>
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max a little constant of 1 to			": L./A			<u></u>		1	
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	<u>.                                    </u>				<u> </u>	<u> </u>	<u> </u>		1-3-2
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・ 大学 100 100 100 100 100 100 100 100 100 10	ie	- · · · <del>· · ·</del>	. ; <b>X</b> .;			<i>A</i>	<u> </u>		L
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MANAGE OF STREET	3. BASS :	Receptio:	ns of Pilo	H BEN	J. BANK	SELEC	r, MODU	LATION. PANPOT.	
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	<u></u>		nie only d	urina CC	wicoset	record.			<u> </u>
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		de 4:	OMIN	OFF.	UNUNU			X:No	,

# MIDI DATA FORMAT MIDI DATA FLOWCHART

#### <MIDI INPUT>



KN720/920/1500 INTERNAL DATA fo Sound Module, Sequencer, APC, Panel

. II UNITPUT > THE TAX TO CNormal parts

Right1.2.Left Part4 - 18 - APC Panel Control part MIDI SETTING <APC parts> [PART SETTING] Accompi, Z, 3, Bass, Drums, Chord • Octave COMMON SETTINGI • Prog.cng mode • Drums type DATA CONVERT Transpose [PANEL MEMORY OUTPUT] • P.change & Bank sei Volume <Normal parts> [INPUT/OUTPUT SETTING] Right1,2, Techni-chord Left <AP€ parts> Accomp1,2,3,Bass, [COMMON SETTING] Drums, Chord · Intro, Fill-In, Ending - APC Control MIDI FILTER (PART) [INPUT/OUTPUT SETTING] APC output • Drums pettern output [BASIC CHANNEL] PART - MID CH CONVERT ... • Basic sh = 1-16 off. CHIL - CHIL [CONTROL MESSAGE] eages on /off TREALTIME MESSAGEST • Realtime messages on off BER FILTER (COMMON) [COMMON SETTING] Note only • Realtime Sysex 地震 Song Select ANTO CHA

### Message format

#### Channel voice message

#### Note off

8nH	Note off status	
kk	Note number	**
VV	Velocity	twenty.

n: 0-F Basic channel kk: 00H-7FH Note number vv: 00H-7FH Velocity

•This status is not used during transmission; rather, velocity=0 is transmitted with the note on status.

#### Note on

9nH	Note on status	
kk	Note number	•
VV	Velocity	

n: 0-F Basic channel kk: 00H-7FH Note number vv: 01H-7FH Velocity 00H Note off

#### Control change

#### Bank select

BnH	Control change status	
00H	Bank select (MSB)	
mm	Bank select value (MSB)	
(BnH)	Control change status	
20H	Bank select (LSB)	
11	Bank select value (LSB)	

n: 0-F Basic channel

mm,ll: 00H-7FH

- •Indicates program change bank. Used when program change mode is set to Normal mode or Technics mode.
- •The Bank Select for the Drums part is recognized as a change in the rhythm pattern select.

#### Modulation

BnH	Control change status		
01H	Modulation	-	
VV	Modulation depth value		

n: 0-F Basic channel vv: 00H-7FH

•Reception of ACCOMP 1,2,3 and BASS modulation is possible only during COMPOSER record.

#### Data entry

BnH	Control change status	
06H	Deta entry (MSB)	
TREE	Date entry value (MSB)	
(BnH)	Control change status	
26H	Deta entry (LSB)	
n	Data entry value (LSB)	
40.00		

n: 0-F Besic channel

mm,ll: Values conform to the parameters specified for the RPN.

#### Volume

BaH	Control change status		. <u>.</u>
07H	Part volume	4	2
₩	Part volume value	44.5 H	

n: 0-F Basic channel vv: 00H-7FH

#### Panpot

:			· · · · · · · · · · · · · · · · · · ·	<del></del>
-	Bali	Control change status	7	1.5
	0AH	Panpot	6.5	7.
	-74	Panpot value	Sec.	2.4

n: 0-F Basic channel

vv: 00H-7FH

 Reception of ACCOMP 1,2,3 and BASS panpot is possible only during COMPOSER record.

#### Expression

	<del></del>	
BnH	Control change status	111
0BH	Expression	1
VY	Expression value	

n: 0-F Basic channel

vv: 00H=7FH

 The expression for the CONTROL part is the total expression as regulated by the pedal operation.

#### Sustain

BnH	Control change status	1, 19		
40H	Sustain	-		
VV.	Sustain on off	D-	-	
	\			14.4

n: 0-F Basic channel

vv: 00H-3FH (00H) Off 40H-7FH (7FH) On

•Transmitted data is indicated by parentheses().

-EETET -FT-FOV THEN PRINCESON MAN AND THURS OF THE WAY OF THE PRINCESON OF	1. Chorus	KN720) / DSP_effect_(KN920 / KN1500)	3
to the contraction of the contra	Section of the sectio		STATE STATE
The state of the s	i i <b>BìH</b>	Control change status	
**	15DH	Chorus DSP effect	
. The statement of the	-	Chorus/DSP effect on/off	
	The state of the s		
Hagic Channel	***************************************	F Basic channel	izin Kalana Tara
	2000年	OH-7FH	
aremonico commence (PER PO)	Carte of the petition of	"在心理和各种企业工作,不是不是一个一个一个一个	· 当年 李明 / 李明
FER HELD THE COMPUTED TIME HING THIN	HIN	The Control of the Co	× 40. ~ 10. 40.
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	تست ا	Control change status	
JAPANATORI, OLI CARANTORIA CONTRACTORIA CONT	proposition.	KPN (MSB).	
		- RPN data number (MSR)	
vunim control	T TOTAL TOTAL	Control change status	·
Control change status	L. JUIN	RPN (LSB)	
	··	RPN data number (LSB)	
ERGER Houthw control message			remarke rima 270
THE TRANSPORT OF THE PROPERTY	1.11 % A A A A A A A A A A A A A A A A A A	- F. Hasic channel	the property and the second
Macio channel		<del></del>	
		The most significant hyte (MSB) and I	
_[H'''   '   '='77]	1 aminum Siminum	significant byte (LSB) of the parame	eter
=+Hr m in meenHittal, IN ]	<u>1</u>	number specified for the RPN.	
ENITING 1	<u> </u>		
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Haver barts: UH-7FH  Haver barts: UH-7FH  Haver tor the (UNTHOLL part is the total	OOH OIH	mm - Pitch Bend Sensitivity mm:80H - 0CH (0 - 12semi-tones) ll:igored •Up to I octave can be specified in semi-tone increments.  mm ll Fine Tuning mm,ll:00H,00H - 40H,00H - 7FH,7F (-128 * 100/128-0-127 * 100/128 cent 100H orath (lower 5 bits increments)   Coarse Tuning    H nts)	
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#### Program change

ı		70	 - 1	 7	•	r
ŀ	CnH	Program change status		 - 2-		L
-1					-	ŀ
1	pp	Program change value				ı
-	FF					ŀ

n: 0-F Basic channel
pp: 00H-7FH Program change value
Normal mode: Numbers are correspond to the

sound number.

 $\begin{pmatrix} < 128 \text{ upward} > \\ \text{Number} + 128 = \Box ... \triangle \\ \Box = \text{bank select } \triangle = \text{program change} \end{pmatrix}$ 

Technics mode: Numbers are standardized among Technics modes (Bank Select also used).

GM:GM program change numbers.

•The Program Change for the Drums part is recognized as a change in the rhythm pattern select.

#### Channel pressure (After Touch)

DnH	Channel	and the second s	- 1
Dau	Channnel pressure status	?'	٠.]
VV	Channnel pressure value		- 1
V V	Cusumer bressme varue	. :	. 1
			لت

n: 0-F

Basic channel

vv: 00H-7FH

#### Pitch bend change

EnH	Pitch bend status	
11	Pitch bend value (LSB)	
mm	Pitch bend value (MSB)	ر اوخیر میمرد در آنایا در این ا

n: 0-F

Basic channel

ll.mm: 00H-7FH Pitch bend data

•The Pitch Bend Range is determined by the Pitch Bend Range(Pitch Bend Sensitivity)of each part.

#### Channel mode message

#### All sound off

BnH	Channel mode status	· · · · · · · · · · · · · · · · · · ·			_
78H	All sound off		_		
00H	Dummy data			3	
<u> </u>		<del></del>		<u></u>	

n: 0-F

Basic channel

#### Reset all controllers

BnH 79H	Channel mode status Reset all controllers	·	- 12 (12 (12 (12 (12 (12 (12 (12 (12 (12
00H	Dummy data		

n: 0-F

Basic channel

#### All note off

BnH	Changael mode status	10年後・11年	
7BH	All note off		
00H	Dummy data	た変数と 人場等による	131
1. Transition 2	NEW BOOK AND WASHINGTON AND AND ASSESSMENT OF A STATE OF THE ASSESSMENT OF	· 學數/全: 1	

n: 0-F Basic channel Receive only

#### OMNI off

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ſ	Table 1	Change made mater	307
ŀ			-35.5°
ł	TCH	OMNIGIT	2.3
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1			

n: 0-F Basic channel

Processed in same manner as when ALL Note off is received.

#### OMNL on a state state of the st

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	BaH	Channel mode status	ि । <b>=</b> ्री : उ
- 1	7DH	OMNI on	
	00H	Dummy data	
	The second secon		, , , , ,

n: 0-F Basic channel

 Processed in same manner as when ALL Note off is received. Does not change to OMNI on.

#### MONO

	<u> </u>		
	BnH	Channel mode status	
. :	7EH	MONO	그 한 문항을 모르게 하고 보다
-	DOM	Dummy data	

n: 0-F Basic channel

\*Processed in same manner as when ALL Note off is received. Does not change to MONO.

#### POLY

٠.	The second second	1 1 1 1 2 3 Million Control of the C	7 1122
	7.	Andrews and the St. Lat. 17 ( 45 Andrews	
٠,	RaH	Channel mode status	人名法巴尔尔 医二氏反射线线
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i	Acceptable 5	(4) 自然的情况等的表示。	
	00H	Dummy data	and the second of the second
٠,	V	this hand and the second of the second	
		<u> </u>	

n: 0-F Basic channel

 Processed in same manner as when ALL Note off is received.

### System common message

#### Song position pointer

	-
	1
	1
-	3

ll,mm: 00H - 7FH

#### Song select

1	THATT	A Second Second		
J	. r3tt	Song select	- 60	
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_ /	25	Song number		1227
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sub-ID # L = General MUU message		09H	sub-ID #1 = General MIDI message	
sun-11) #7 = Canaral MUDI on	- E	02H	sub-ID #2 = General MIDI off	
	را است	F/H	4 EOX	
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Sics MIDI exclusive Message format				
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#### Explanation of messages

SOX: Indicates the start of exclusive

run	Exclusive status
IDC:	Product manufacturer differentiating ID
50H	Technics ID number

# CMD: Indicates type of transmission data and commands.

21H	HRQ:	Hand shake request	***** * * * * * * * * * * * * * * * * *
22H	HRT:	Hand shake routine	
23H	ACK:	Acknowledge	
24H	NAK:	Negative Acknowledge	
25H	TMP:	Tempo data	
27H	EOK:	End of Block	
28H	END:	End	
29H	ERR:	Error	
2AH	FUL:	Memory full	
2BH	DRQ:	Data request	
2CH	ITR:	Individual data	
2DH	BTR:	Data block	
7EH	CDD:	Continuing data	

#### PC: Technics product category ID

01H	KN
7EH	DMY: Dummy data for ACK, NAK, EOK, END,
	ERR,FUL

#### MD: Model differentiating ID

24H:	KN1500	-	
25H:	KN920		- 1
26H:	KN720	 	

#### VER: Exclusive version control ID

11H	Ver 2.1		
4			

#### [data]: Body of data

•[data] for Individual data, Data dump, and Data

reques	6.	
ADR	ADR(MSB)	ADDRESS MSB (7bit)
	ADR	: (7bit)
	ADR(LSB)	ADDRESS LSB (7bit)
SIZ	SIZ(MSB)	MSB of the address length of
		relevant data from the above
		address. (7bit)
	SIZ	: (7bit)
	SIZ(LSB)	LSB of the address length of
		relevant data from the above
		address. (7bit)
DT		data -
:		:
CN		Continue ID
SM		Checksum

#### ADR

Indicates address length of beginning data. The type of data is recognized by this value. The 21-bit address is divided into 3 bytes of 7 bits each, and is sent in order beginning with the upper end. (Refer to the address map.)

#### SIZ:

Indicates length of address from ADR. (Refer to the address map.) The 21-bit address length is divided into 3 bytes of 7 bytes each, and is sent in order beginning with the upper and

If a circ not consistent with the data is indicated, data request is ineffective. If the data request concerns the data dump, then dummy data is sent, although it has no significance.

#### DT:

Body of transmitted data. The 8-bit data is divided into 2 bytes of 4 bits each, and is sent in order beginning with the upper end.

Note that SIZ = number of bytes in DT divided by 2.

#### CN: Indicates data continue discontinue

00h STP : End of data 01H CNT : More data follows

(CMD of next packet is CDD)

The number of bytes in one exclusive packet is 256. In a transmission where the number of bytes exceeds one packet, CN = CNT, and the continuing data is transmitted in the continuing data (CMD = CDD) format.

#### SM: Checksum

Checksum for checking data errors.

The lower 7bits of Summation from IDC to SM=0

#### ·[data] for Tempo.

DT1	Deta LSB	
DIS	Data MSB	

DT2, DT1: 02H, 08H-12H, 0Ch (J = 40-300)

Tempo data is 9 bit Binary (= 101000 ~ 100101100). The lower 4 bits is expressed as DT1, and the remaining upper 5 bits as DT2. DT1 is sent first followed by DT2.

#### I ne form of the transmission message

	L EÓX	i idc.	CMD	PC	MD	VER	<u></u>	<del></del>	[data]	<del>-:::::</del>	<del></del>	EOX	
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Fremory	SOX	IDC	BŤR	PC	MD	VER	ADR	SIZ	DT	CN	SM	EOX	
Composer (KN920/1500)	COV		2	200				017					
location Legacy Legacy Derrormance	SOX	IDC	BTR	PC PC	MD MD	VER VER	ADR	SIZ SIZ	DT DT	CN CN	SM	EOX	
	SOX	ipc	BIR	PC	MD	VER	ADR	SIZ	DT	CN	SM SM	EOX	
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	SOX	IDC	ਸਾਬ	PC	MD	VER	ADR	SIZ	DT	CN	SM	EOX	
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Language Committee Committ	\$OX	IDC	COD		, . <del>-</del> .	<b>-</b>	_	. —	DT	CN	SN	EOX	
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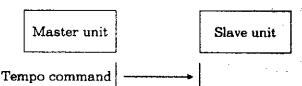
K N 1500 - 24H			 	
<b>X N</b> 920 : 25H				
≅ N720 : 26H				
	-			

#### MIDI exclusive address map

ADDRES	SS (Hex)		30.4 S. L. J. J. L. J		
ADR MSB~LSB	ADDRESS (21bit)	Area	Subares	Sub-subarea	10 11학 - 12 - 12학 12학 기본 - 12학
00 00 00~	000000H~	SYSTEM		REAL TIME	44
01 00 00~	004000H~	PART	COMMON	REAL TIME	
0A 00 00~	028000H~	PART	SPECIAL	REAL TIME	No.
20 00 00~ 24 00 00~	080000H~ 090000H~	PANEL	PANEL DATA PANEL MEMORY	NON-REAL TIME NON-REAL TIME	
38 00 00~	0E0000H~	SOUND	HEADER	NON-REAL TIME	- <del>Y</del>
38 00 10~	0E0010H~	MEMORY (KN920/1500)	PARAMETER	NON-REAL TIME	
48 00 00~ 48 00 20~ 48 02 00~	120000H~ 120020H~ 120100H~	MSP	LOCATION HEADER PERFORMANCE	NON-REAL TIME NON-REAL TIME NON-REAL TIME	
50 00 00~ 50 00 60~ 50 27 40~	140000H~ 140060H~ 1413C0H~	COMPOSER (KN920/1500)	LOCATION HEADER PERFORMANCE	NON-REAL TIME NON-REAL TIME NON-REAL TIME	
60 00 00~ 60 10 00~ 61 30 00~	180000H~ 180800H~ 185800H~	SEQUENCER	LOCATION HEADER PERFORMANCE	NON-REAL TIME NON-REAL TIME NON-REAL TIME	

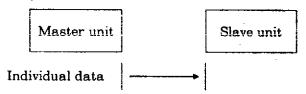
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		[:]				ion – Header	- Performance)
			- THIODSE	- KN920 / 15001		non – Header	
				in kun kun		mm - Header	- Performance !
	ssion and händshake transi	mission			<del></del>		
- one-way transm	ission <u>communication</u> takes ti	969	्राच्या के सम्बद्धाः स्थापः । सम्बद्धाः सम्बद्धाः सम्बद्धाः ।	* *ATTOTIO	יויי	MIDI INI	
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Communitation :	aduencer of handshake	· · · · · · · · · · · · · · · · · · ·		- ETIH   180H   122H	Ishake	routine	
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Communitation	eduericer of handshake	· · · · · · · · · · · · · · · · · · ·		- ETIH   180H   122H		routine	
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-: KLI AAMMana	Aduencer of handshake		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920		routine	
Communitation	Aduencer of handshake		HHI cor	50H 22H 01H 24H (KN150) 25H (KN920) 26H (KN720)		routine	
-: KLI AAMMana	Aduencer of handshake		HRT cor	50H 22H 01H 24H (KN150) 25H (KN920		routine	
-: KLI AAMMana	Aduencer of handshake		HRT cor	50H 22H 01H 24H (KN150) 25H (KN920 26H (KN720) 11H		routine	
-: KLI AAMMana	Aduericar of handshake		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920) 26H (KN720) 11H			
-: RLJ command	Aduericar of handshake		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920 26H (KN720) 11H			
-: RLJ command	HK1 command		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920) 26H (KN720) 11H 1 F7H			
- KLI command	aduericar of handshake  Slave unit  HKT command		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920) 26H (KN720) 11H			
	Aduencar of handshake  Slave unit		HRI cor	50H 22H 01H 24H (KN150) 25H (KN720 26H (KN720 11H F7H cknowledge			
- REJ ASMIMANO	Aduericar of handshaka  Slave unit  Therefore we salk it command		HRI cor	ETTH    22H   22H   24H (KN150)   25H (KN720)   11H   F7H   cknowledge   F0H   50H			
- REJ ASMIMANO	aduericar of handshake  Nava mit  Inandshake request		HRI cor	ETTH    NUH   22H   01H   24H (KN150)   25H (KN920)   12H (KN720)   11H   F7H   Cknowledge   F0H   S0H   23H   7EH			
- RLJ AAMMANA	aduencar of handshake  Slave unit I  andshake request		HRI cor	50H 22H 01H 24H (KN150) 25H (KN920) 26H (KN720) 11H F7H cknowledge F0H 150H 23H 75H			
-RLJ ASMINANCE	Aduencar of handshake  HKT command  Andshake request		HRI cor  IMD  IMD  INC  ACK  ACK  COX  EOX  There	POH 22H 21H 24H (KN150) 25H (KN920) 26H (KN720) 11H 1 F7H Cknowledge F0H K0H 23H 75H 75H F7H is no END co	D)		
-RLJ ASMINANCE	aduencar of handshake  Slave unit I  andshake request		HRI cor  NATION  IMPO  I	22H 22H 22H 21H 24H (KN150) 25H (KN920) 11H 15H 25H 25H 25H 25H 25H 25H 27H 25H 25H 25H 25H 25H 25H 25H 25H 25H 25	mmanonse fro	the slav	e unit to the
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor  NATION  IMPO  I	POH 22H 21H 24H (KN150) 25H (KN920) 26H (KN720) 11H 1 F7H Cknowledge F0H K0H 23H 75H 75H F7H is no END co	mmanonse fro	the slav	e unit to the
- REJ ASMINANCE - REJ ASMINANC	Aduencar of handshake  HKT command  Andshake request		HRI cor	22H 22H 22H 21H 24H (KN150) 25H (KN920) 11H 15H 25H 25H 25H 25H 25H 25H 27H 25H 25H 25H 25H 25H 25H 25H 25H 25H 25	mmanonse fro	l m the slave	e unit to the handshake
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor	PTH    SUH   22H   01H   24H (KN150)   25H (KN920)   11H   FTH   Cknowledge   F0H   SNH   23H   7EH   is no END core is no response unit even a mation routing	mmanonse from the is pe	m the slave cformed t	e unit to the handshake hree times it
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor	FOH  22H  22H  24H (KN150)  25H (KN920)  11H  1 F7H  cknowledge  F0H  50H  23H  7RH  is no END come is no response in response unit even a mation routing	mmano pse fro frer the	I the slave of transmi	e unit to the handshake hree times it t handshake
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor  IMD  IMD  IMD  IMD  IMD  IMD  IMD  IM	POH  22H  22H  24H (KN150)  25H (KN920)  11H  1 F7H  CKNOWledge  FOH  KOH  23H  75H  F7H  is no END come is no response in the	mmanonse from the second secon	l the slave of transmis	e unit to the handshake hree times it t handshake
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor  IMD  IMD  INC  ACK  ACK  COX  INC  ACA  EOX  There  If there  acasin	FOH  CKNOWledge  FOH  Z3H  CKNOWledge  FOH  Z3H  Z3H  Z3H  Z3H  Z3H  Z3H  Z3H  Z	mmano pse fro fier the	l the slave of transmis	e unit to the handshake hree times it t handshake
- REJ ASMINANCE - REJ ASMINANC	andshake request		HRI cor  IMD  IMD  INC  ACK  ACK  COX  IDC  ACA  EOX  There  If there  maste	POH  22H  22H  24H (KN150)  25H (KN920)  11H  1 F7H  CKNOWledge  FOH  KOH  23H  75H  F7H  is no END come is no response in the	mmano pse from firer the second secon	I the slave of transmission I	e unit to the handshake hree times it thandshake sion mode on the case

#### Sequencer of tempo data communication



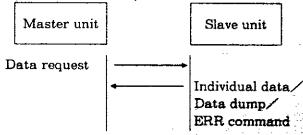
 Transmission/reception of TEMPO exclusive data can be enabled or disabled by the NOTE ONLY setting of the MIDI settings.

#### Sequencer of individual data communication

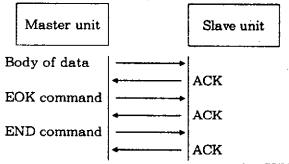


 Transmission/reception of REALTIME exclusive data can be enabled or disabled by the COMMON SETTING setting of the MIDI settings.

#### Sequencer of data request communication



#### Sequencer of data dump communication



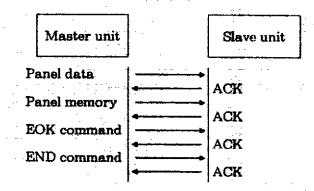
 Data dump is possible only while the SYSEX BULK DUMP display is selected during MIDI function setting.

Data is divided into five types: TOTAL KEYBOARD, PANEL MEMORY, MANUAL SEQUENCE PADS (MSP), SOUND MEMORY(KN920/1500), COMPOSER (KN920/1500), and SEQUENCER. After the above handshake routine is concluded and communication link is established, the various kinds of data are respectively transmitted as described below.

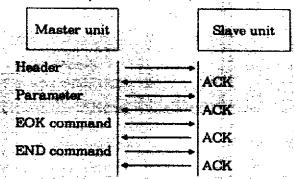
For one-way transmission, the transmission interval between packets is more than 50 msec.

The number of bytes in one exclusive packet is 256. In a transmission where the number of bytes exceeds one packet, the continuing data is transmitted in the continuing data(CMD=CDD) format.

#### **●**Panel



#### Sound memory (KN920/1500)



# ●Composer data (KN920 / 1500), Sequencer data, MSP data

Master unit	Slave unit
Location	- ACK
Header Performance	ACK
EOK command	- ACK
END command	- ACK - ACK

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# SYSTEM AND PART PARAMETER

ADR(HEX)	SIZ(HEX)	PARAMETER	DATA(HEX)	DISCRIPTION		NOTE
MSB LSB	MSB LSB	PARAMETER	RANGE			•1
YSTEM REA	AL TIME		#			***************************************
	<u> </u>				1 ×	
00 00 00	00 00 01	MASTER TUNING	C0-00-3F	427-9-440.0-453.0	- 1. The second	ORT
00 00 02 00 00 03	00 00 01	TRANSPOSE OVERALL TOUCH SENSITIVITY	00-05-0B	G-C-F# 1		QR
00 00 03	00 00 01	OVENALL IOOCH SENSITIATIT				1.50
00 00 10	00 00 01	PANEL MEMORY NUMBER	00-18	Off. 1-1, 1-2; ***,3-4		- ORT
00 00 11	00 00 01	PANEL MEMORY EXPAND MODE	00-01	80H:Normal, 01H:Expend		QR :
00 00 12	00 00 01	MUSIC STYLE ARRANGER STYLE	00-04	90H:ON, 01H-04H:1-4		ORT
00 00 13	00 00 01	MUSIC STYLE ARRANGER MODE	01-03	01 H: Rhythin 62H: Sound& Minrithm		G11
				03H:Panel Memory		
	)			함께 전체 하루고 있는데	1	
00 00 20	00 00 02	MANUAL SEQUENCE PADS	00-7F	80-127		RT.
		CNG&BANK SELECT	00-FF	00-255		
PART COMM	MON REAL TIM	lE .		And the wife curious and the state of	10	
	1	TOTAL EVERTALISM		4.44	<del>a Tije de de de</del> Land (1984)	RT
01 00 00 01 00 08	00 00 01	TOTAL EXPRESSION TECHNI-CHORD ON/OFF	66-7F	6-127 90H:Off, 91 H:On	Tana	ORT
01 00 00	00 00 01	TECHNI-CHORD TYPE	60-6C	- 00H:Close 07H:Block		QR .
				01H:Open1 08H:Big Band Br		
				02H:Opin2 09H:Big Band R	1000	
				83H:Dust SAH:Ostave 04H:Country 88H:Hard Rook	10 g - 10	
				05H:Theetre OCH:Fanfare	i graji	-3
				04H3tymn		1.12
01 00 10	00 00 01	REVERB TOTAL ON OFF	00-7 F	SSH:Off 7FH:On		ORT
01 00 11	00 00 01	REVERB TYPE (KN720)	10-16	19H:Room Reverbi		QR .
	[			12H:Plate Reservi	45 "	
	ł			13H:Plate Royerbi	Line in	· 14
	1			14H:Concert Reverbs	47 A 1.1.	
as as 11	00 00 01	DEVEDO TVOS /VNSO /4866)		15H:Consert Reverbs 17H:Dark Rever		œ# <sup>÷</sup>
01 00 11	00 00 01	REVERS TYPE (KN820/1600)	10-18	11H:Room Reverb2 18H:Bright Rave		un
			<u> </u>	12H:Plate Reverb! 18H:Bright Reve		
			]	13H:Piete Reverb2 1AH:Wave Rever	roi _	
	1			14H:Concert Reverb1 1BH:Wave Rever	<b>93</b>	
	1		}	16H:Concert Reverb2 18H:Dark Reverb1	.:	
				1411.042 1104.51		
01 00 21	00 00 01	CHORUS TYPE (KN720)	01-61	91 H:Chorus	<del>-</del>	
				92H:Modulated Chorus 94H:Flanger		
	[		1	2 CH: Calesta		•
		_	Jan Land	2 DM: Modulated Calesta	المحادات الأعيال وا	
				22H Villenda		4 N
01 00 21	99 90 Q1	DSP EFFECT TYPE (KN\$20/1600)		61H:Chorus SAH:Auto Wah	a least a return a return a	
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				64 H. Brassable 62 H. Single Date:	* Flanger	
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	i .			#1M Crandilla GAM Blanta Date:	at Distortion	. 6
	1			28H:Expirer 51 H:Bingle Dele	* OverOrive	-1.04
				27H:Peremetrie Equalizar		
				30H:Auto Pan	51 1 1 2	4. 3
	•			32H:Vibrato	- 5-	100
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_	1	& Bank Select	00-FF	0.286	F	GH T
0A 00 02	00 00 01	APC TYPE -	00-03	96H:0ff		ORT
				01H:Ore Finger		<b>3</b> 117
	1			62H:Fingered	1 P	
	1			08H:Planist 08H:Off, 8 f H:On	1 -	
0A 00 03	00 00 01	APC MEMORY ON/OFF	00-01	OBH-OW, BIH-ON		
0A 00 08	00 00 01	SYNCHRO/BREAK	00-01	eoH:Off, 01 H:On		ORT
0A 00 09	00 00 01	VARIATION	00-03	00H:Vari1, 61H:Vari2, 02H:Vari3, 03H:Vi	uri4::	ORT
0A 00 0A	00 00 01	INTRO .	00-02	00H:Off, 01H:Intro1 On, 02H:Intro2 On		OH:
0A 00 0B	00 00 01	COUNT INTRO	00-01	BOH:Off, \$1 H:On	a faller are	A7
0A 00 0C	00 00 01	FILL IN ENDING	00-82	80H:Off, 81H:Fill Int On, 82H:Fill In2 On 80H:Off, 61H:Endingt On, 62H:Ending2 On	37.1-	P.T
0A 00 0E	00 00 01					A1

When Data Request is received, the relevant data is sent.
 Data reception possible.
 Data transmission possible.

<sup>\*2</sup> Corresponds to Technics numbers on the rhythm map.

<sup>\*3</sup> Not transmitted/received when APC MODE ENABLE = 0 (disable) .
\*4 Not transmitted/received when FILL IN, INTRO ENABLE = 0(disable) .

#### NERAL MIDI SETTINGS

	м	

SEMUNICIAME TECHGE	SOUND NAME	P.CNG#	SOUND NAME	P.CNG#	SOUND NAME
THE SECOND SECON	I Acoustic Bass		Soprano Sax	<b></b>	ICA HAIR
	Bright Bass	<b>56</b>	Alto Sex	98 [	Soundtreck
Elect Grand	Picked Bass	<b>[</b> 67 .]	Tenor Sax	. 99	Crystal
BREIR	Fretiess Hass	1 <b>63</b>	Baritone Sax	<u>" 100 †</u>	Atmosphere
The second secon	T. Sien Rass 1	69	Ωbge	I 101 I	Mist.
	Slap Bass 2	70	English Horn	102	Goblins
TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER	Wow Bass	.   . 71	Bassoon	103	Echo Drops
	Plastic Bass	72.	Jz Clarinet	104	Ster Theme
	Violin	<b>!</b> 73 ]	Piccolo	105	Sitar
	Viola	1. 4	Jazz Flute	108	Banjo
music BOX T 44	Cello	75	Recorder	107	Shamisen
Vibreohone 44	Bowed Bess	76	Pan Flute	108	Koto
Marimba 45	Tremolo Str	77	Blown Bottle	109	Kalimba
- Xylaphone 46	Pizzicato Str	78	Shakuhachi	110	Bagpipe
Tubular Bells 47	Harp	79	Whistle	111	Cntry Fiddle
- Dulcimer 48	Timpani	80	Ocarina	112	Shanai
Full Drawbars 49	Strings	81	Square Lead	113	Tinkle Bell
Jazz Organ 50	Slow Strings	82	Saw Lead	114	Agogo
Hock Organ 51	Syn String 1	83	Syn Calliope	115	Steel Drum
i P)pa Organ I 52	Syn String 2	84	Chiffer Lead	116	Wood Block
The second secon	Vocal Ah	85	Charang	. 117	Taiko Drum
Brt Accordion 54	Vocal Doo	86	Air Vox	118	Melodic Tom
Harmonica 1 55	Synth Vocal	87	5th Wave	119	Synth Drum
2 27 Carlos Carl	† Orchestra Hit	<b>1 88</b>	Bass & Lead	120	Rev Cymbal
	Trumpet	89	Fantasia	121	Fret Noise
THE THE PARTY IN T	Brt Trombone	90	Miw Ensemble	122	Breath Noise
see par grastâth ,	i Marchind Juba	<u> </u>	Poly Synth	123	Seashore
seri Solid !! Bi	Muta Trumpet	92	Spacy Pad	124	Bird Tweet
Mute Guttar 1 51	Open Fr.Horn	93	Bowed Glass	125	Telephone
10 - Overdrive Gry 82	Brass	94	Metal Pad	126	Helicopter
Diet Gunar 63	Synth Bress 1	95	Halo Pad	127	Applause
ne versitik Harmonic I 64	Synth Brass 2/3	96	Sweep Pad	128	Gun Shot

===rin						_							
MIDI	5	6	7	8	8	10	11	12	13	14	15	16	
	På	P8	P7	P8	Pg	DRUM (P16)	P11	P12	P13	P14	P15	P10	
SEQUENCER 1 -1 -1 -3 4	5	<b>1</b>	7	8	9	10	11	12	13	14	15	16	

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. MO: RHYTHM. ONE TOUCH PLAY/MUSIC STYLE SELECT (KN1500).

LISIC STYLE ARRANGER (KN970 / 1500). PANEL MEMORY, TECHNI-CHORD, AUTO PLAY CHORD.

\_\_\_\_FOSER (KN920 / 1500). SOUND ARRANGER (KN920 / 1500). SOUND EDIT(KN920 / 1500) atc. .

#### **HOW TO USE MIDI PRESETS**

The KN Keyboard can be connected to any MIDI equipped musical instrument.

To connect the KN Keyboard 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 KN Keyboard quickly and easily for use with various other instruments.

There are two pages of MIDI Presets, the first page with settings for use without Auto Play Chord and the second page with settings for use with Auto Play Chord.

Select the preset which matches your MIDI set up and press EXECUTE.

Many applications are very simple, but the following guidelines should be helpful with more complicated setups.

#### IMMIDI PRESETS FOR CONNECTING AN ORGAN TO THE KN USING AUTO PLAY CHORD.

MASTER	RUNIT	MIDI P	RESET
EQUIPMENT	PLAY STYLE	TYPE	APC
ORGAN (ALL)	FINGERED	Organ 1→KN	WITH APC
ORGAN (ALL)	ONE FINGER *	Organ 2→KN	WITH APC

<sup>\*</sup> TURN ON ONE FINGER(FA/GA/EA) OR FINGERED1(OTHERS) AND TURN DOWN APC VOLUME ON THE ORGAN.

#### **MIDI PRESETS FOR CONNECTING AN ORGAN TO THE KN WITHOUT AUTO PLAY CHORD.**

MASTER	UNIT	MIDI PRESET						
EQUIPMENT	PLAY STYLE	TYPE	APC					
ORGAN (FA/GA/EA)	***	Organ 2→KN	WITHOUT APC					
ORGAN (OTHERS)	***	Organ 1→KN	WITHOUT APC					

#### IMMIDI PRESETS FOR CONNECTING THE KN TO AN ORGAN USING / WITHOUT AUTO PLAY CHORD.

SLAVE	UNIT	MIDIF	RESET
EQUIPMENT	PLAY STYLE	TYPE	APC
ORGAN (FA/GA/EA)	USING APC	KN->Organ 2	WITH APC
ORGAN (OTHERS)	USING APC	KN->Organ 1	WITH APC
ORGAN (FA/GA/EA)	WITHOUT APC	KN->Organ 2	WITHOUT APC
ORGAN (OTHERS)	WITHOUT APC	KN->Organ 1	WITHOUT APC

#### MIDI PRESETS FOR CONNECTING A PR PIANO TO THE KN USING AUTO PLAY CHORD.

MASTER	UNIT	MIDLPF	ESET
EQUIPMENT	PLAY STYLE	TYPE	APC
PR (307 and later)	FINGERD	PR Plano 1→KN	WITH APC
PR (370 and previous )	FINGERD	Organ 1→KN	WITH APC
PR (ALL)	ONE FINGER	PR Plano 2->KN	WITH APC
PR (ALL)	PIANIST	PX Plano KN	WITH APC

# PRESETS FOR	CONNECTING A PRIPIA	NO TO THE KN WI	THOUT AUTO PLA	Y CHORD
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PA 370 and previous			WITHOUT APC	
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THE PART IN	PLAYSTYLE	TYPE	APC	
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Fin i3/0 and previous)	USING APC	KN→PR Plano 1	WITH APC	s. somm in the same of
Pff (307 and later)	WITHOUT APC	KN->PR Plano 2	WITHOUT APC	no ni kolabo ili loco ne laborato ne laborato ni se materiari il estimato di sa
PR (370 and previous )	WITHOUT APC	KN→PR Plano 1	WITHOUT APC	
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En sed 'Aller	CHORD	KN→Ext SEQ 2	WITH APC	
	1" and " Kevhoard 2"	AVE MIL) procets		
	English Wilch has MIDI I		KN2000 KN1500 K	N1200 KN920 etc.)
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	eset to connect any off			
-më KN Kevboard wi	il be set to MIDI clock.	This means that the	ie KN's Rhvthm w	ill start & stop from the
USIDE DUTION OF	the master unit and the	tempo will be con	trolled by the mas	ter unit. It is preferable
ine Rhythm a	and Accompaniment ba	lances of the mas	ter unit to zero to	avoid anv unpleasant
shes with the KN	's Rhythm & Accompar	niment.		
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# MIDI PRESETS DATA

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	Part14	14	14	14	14	14	14	off	14	. 14	14	14	- 14	14	14	14	14	14	14	14
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# Playback of Technics disks (KN920/KN1500)

#### The PR920 / KN1500 can play back data from the following instrument models:

KN2000	KN1200	KN901	KN3000
}	i .	1	

#### The following data is compatible:

COMPOSER data	
SEQUENCER data	
Registration data (pane	and PANEL MEMORY data)
SOUND MEMORY date	
MANUAL SEQUENCE PAI	DS User bank data

#### Caution

- Functions of other models which are not incorporated in the KN920/KN1500 are not compatible.
   Moreover, if such functions are included in the COMPOSER, SEQUENCER or registration data on the disk, they will not be reproduced correctly.
- Because KN920/KN1500's sound module and DSP part configuration are different from those of other
  models, the nuance of the reproduced sounds may be different.
   Moreover, the sound will be different if you use a sound module weveform of a SOUND MEMORY
  sound which is not available in this instrument. In addition, the sound output of the performance may
  also differ due to the difference in the maximum number of notes which can be reproduced simultaneously.
- Preset rhythm pattern and MANUAL SEQUENCE PADS phrase change to those of the KN920/KN1500.
- The LOAD SINGLE COMPOSER function is disk compatible only between models KN920 and KN1500.

#### Campatibility with KN3000 disk data:notable items

- DIGITAL DRAWBAR sounds are reproduced as preset organ sounds on the KN920/KN1500.
- Drums sounds from the USER KIT are reproduced as Standard Kit sounds on the KN920/KN1500.
- REVERB and DSP EFFECT types which are not available on the KN920/KN1500 are changed to this
  instrument's default settings. Even when the type is the same, the effects may sound different.
- Sequencer data which exceeds the SEQUENCER capacity of this instrument (30,000 notes) cannot be played back.

#### Campatibility with KN2000/KN1200/KN901 disk data:notable items

- Some of the intro, fill-in etc. patterns in the COMPOSER Expand mode may be different, due to model differences in the memory configuration.
- The hard configurations of the REVERB and DSP EFFECT in the KN920 / KN1500 are different from those of the other models, and therefore only the effect type is matched.
- MANUAL PERCUSSION performances are not played back.