Technics

sx-PR500/M



ENGLISH

COTGUAZIA

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.

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 SAFELY.

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

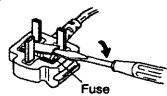
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

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 \pm .

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



Technics

OWNER'S MANUAL

Caution

Voltage (except North America, Mexico, 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 PAGE 2.



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

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



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



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

Before you play

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

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

BASIC FUNCTIONS

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

PRACTICAL APPLICATIONS

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

REFERENCE GUIDE (separate booklet)

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

Cautions for safest use of this unit

Installation location

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

Power source

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

Handling the power cord

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

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

Do not permit metal articles to get inside the unit.

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

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

If water gets into the unit

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

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

if operation seems abnormal

Immediately turn off the power, disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased. Discontinue using the unit at once. Failure to do so may result in additional damage or some other unexpected damage or accident.

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

A word about the power cord

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

Don't touch the inside parts of this unit.

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

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

Maintenance

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

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

SERVICE MUST BE CARRIED OUT BY DEALER OR OTHER QUALIFIED PERSON

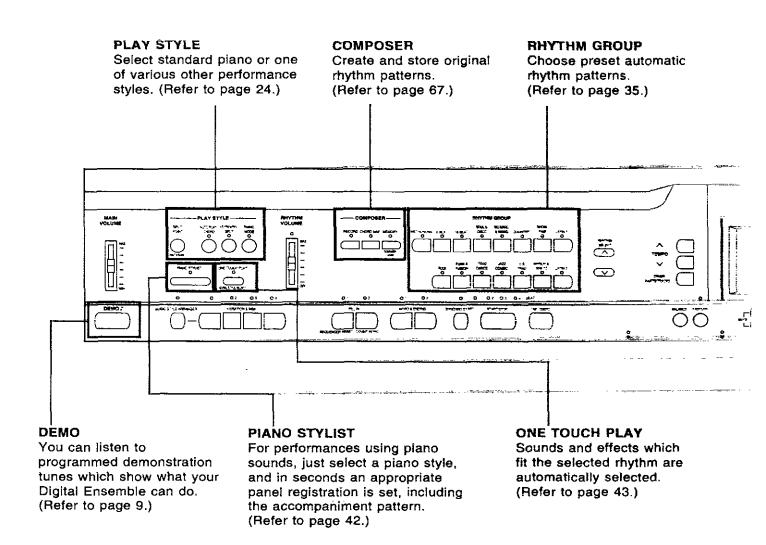
Contents

	Cautions for safest use of this unit2	
	Controls and functions6	· . · · · · · · · · · · · · · · · · · ·
BAS	SIC FUNCTIONS	
	Getting started8	s.,
	Listen to the demonstration	
	Playing the piano10	
	Selecting other sounds	
	Playing automatic rhythms	
	Automatic accompaniment	
	Playing commercial disks	
PRA	ACTICAL APPLICATIONS	
	About the display19	
	Part I Sounds and effects24	
	Play Style24	
	Conductor	
	Selecting sounds	
	Mixing two sounds	
	Keyboard split27	
	Pedals	
	Effects30	
	Transpose32	
	Techni-chord	
	Part II Playing the rhythm35	1
	Selecting rhythms	
	Playing the rhythm	
	Auto Play Chord	

One Touch Play	42
	43
Music Style Select	44
Music Style Arranger	45
Panel Memory	46
Pedal setting	48
Part III Sequencer	
Outline of the Sequencer	
Song	
Easy Record	
Sequencer parts	
Realtime Record	
Sequencer Play	
Step Record	
Track Assign	
Editing the recorded performance	
Sequencer Medley	
Dark M. Campagar	67
Part IV Composer	
Outline of the Composer	67
Edit a preset rhythm pattern: preparation	69
Edit a preset rhythm pattern: preparation	
Edit a preset rhythm pattern: preparation	
Edit a preset rhythm pattern: preparation	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode	
Edit a preset rhythm pattern: preparation	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode Composer Chord Map	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode Composer Chord Map Part V Disk Drive Outline of the Disk Drive function	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode Composer Chord Map Part V Disk Drive Outline of the Disk Drive function Outline of procedure	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode Composer Chord Map Part V Disk Drive Outline of the Disk Drive function Outline of procedure Loading data	
Edit a preset rhythm pattern: preparation Create a completely new rhythm: preparation Record your rhythm pattern Playback Composer mode Composer Chord Map Part V Disk Drive Outline of the Disk Drive function Outline of procedure	

I	
Part VI Adjusting the sounds87.	= = =
Outline of the Sound Setting mode87	
Part Setting	
Touch & Tune89	
 Key Scaling90	
Left Hold91	. <u></u> .
Part VII MIDI	
What is MIDI?92	
Outline of MIDI functions94	
Setting the functions95	
Initialize	
Connections 104	
Assembly	
Symptoms which appear to be signs of trouble 106	
Error messages 109	
Index 111	
Specifications 113	

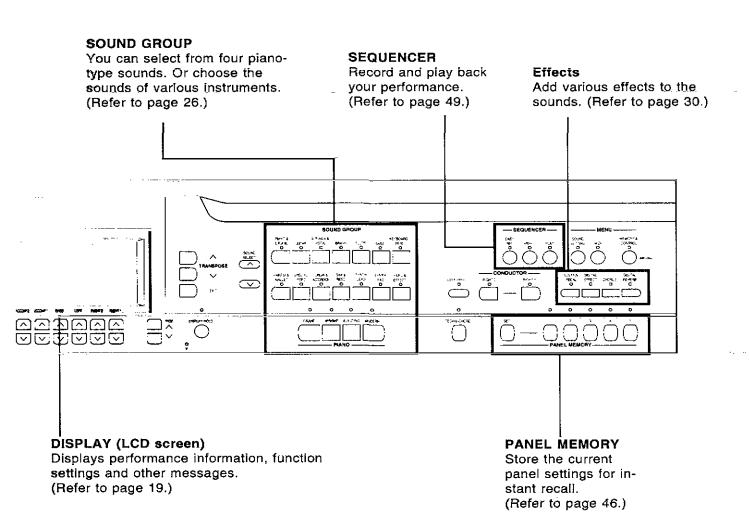
Controls and functions



Tuning

Unlike an acoustic piano, your PR Series Digital Ensemble never needs tuning.

 The pitch of this instrument can be adjusted for when playing along with other instruments. (Refer to page 89.)

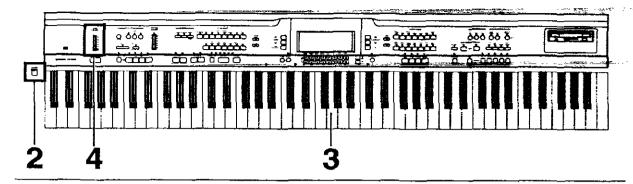


■ About the backup memory

The settings and memories are maintained for approximately 80 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 guit the operating mode, a warning display may appear to remaind you to save the data.

Getting started

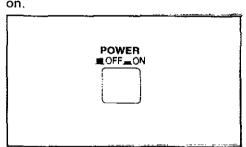


Plug the power cord into an outlet.

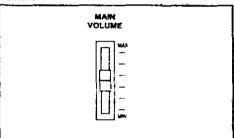
Touch any note on the keyboard. You will hear a PIANO sound.

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

Press the POWER button to turn it on.



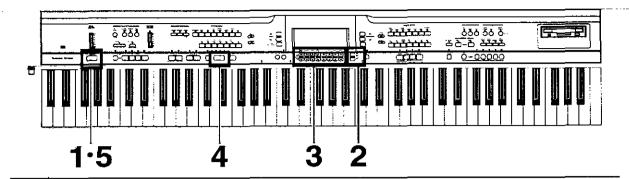
Set the MAIN VOLUME to an appropriate level with the sliding control.



Insert the music stand in the two holes as shown in the diagram.

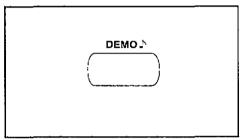
Music Stand

Listen to the demonstration



1

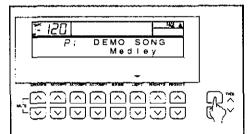
Press the **DEMO** button.



The display changes to the _____
 DEMO display.

2

Use the **PAGE** buttons to select a category.



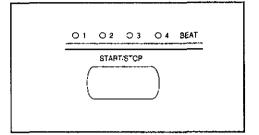
 Select from Medley, PIANO, STYLE, SOUND and RHYTHM.

3

Use the LEFT \wedge and \vee buttons to select a song number.

 For P1 Medley, this step is not necessary. 4

Press the START/STOP button.



- The demonstration performance corresponding to your selection begins.
- 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
- To end the demonstration before it has finished, again press the START/STOP button.
- To listen to other songs, repeat steps 2 to 4.

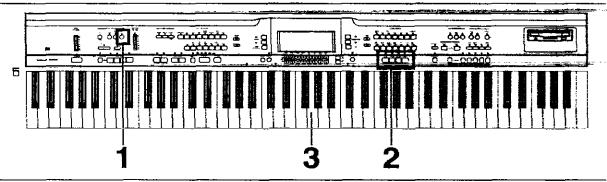
5

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

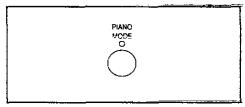
- If you press and hold the DEMO button for a few seconds, or if you press first the DEMO button and then the START/STOP button, you can also ____ begin a medley performance.
- During the medley performance, use the LEFT \(\) and \(\) buttons if you wish to change to a different song.
- Some of the buttons do not function while the demonstration performances are being played.

Playing the piano

Your piano is equipped with various fine functions which make it an extremely versatile instrument. But it should be remembered that it is first of all a fine piano. Select one of the piano sounds and enjoy its excellent quality.

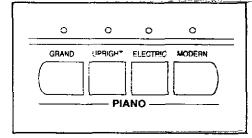


In the PLAY STYLE section, press the PIANO MODE button to turn it on.



- The indicator lights.
- PIANO MODE is the default selection when the instrument is first turned on.

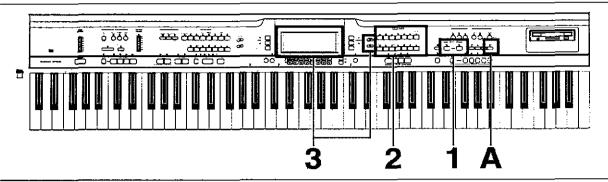
2 Select one of the four PIANO sounds by pressing the corresponding button.



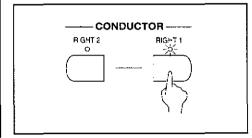
Play anywhere on the keyboard.

Selecting other sounds

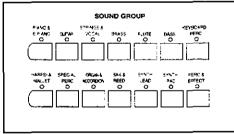
In addition to piano sounds, this instrument is provided with the colorful sounds of various other instruments.



In the CONDUCTOR section, press the RIGHT1 button.

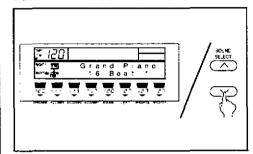


2 In the SOUND GROUP section, select a sound group.



The display changes.

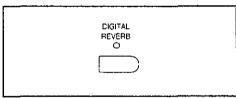
3 Use the SOUND SELECT ∧ and ∨ buttons to select a sound.



- The name of the sound is shown on the display.
- The list of sounds can be found in the separate REFERENCE GUIDE provided.

Add reverb to the sound.

Press the DIGITAL REVERB button to turn it on.

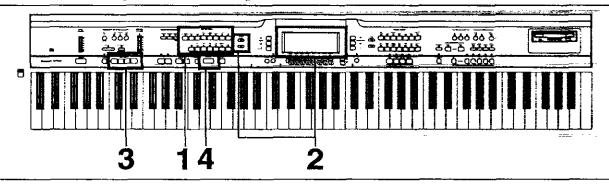


· The indicator lights.

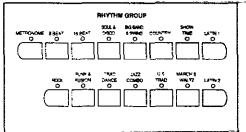
- When one of these sounds is selected, the PIANO MODE indicator in the PLAY STYLE section automatically turns off.
- Other things you can do are mixing sounds and playing different sounds on the left and right areas of the keyboard. (Refer to page 27.)

Playing automatic rhythms

Listen to preset rhythms.

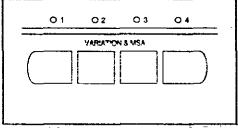


In the RHYTHM GROUP section, select a rhythm group.



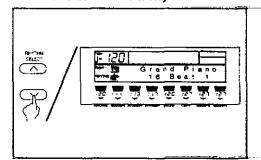
· The display changes.

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



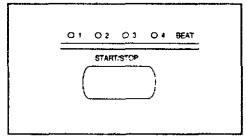
 The nuance of the pattern differs with each variation number.

2 Use the RHYTHM SELECT A and buttons to select a rhythm.



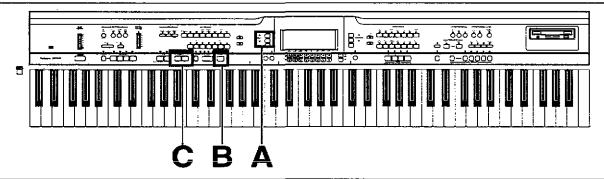
 The name of the rhythm is shown on the display.

 The list of rhythms can be found in the separate REFERENCE GUIDE provided. Start the rhythm by pressing the **START/STOP** button.



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

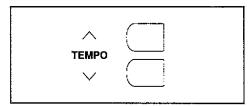
Control the rhythm.



Adjust the tempo.



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

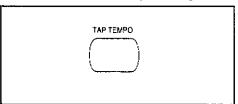


• The tempo is shown in the display as "= ".

Adjust the tempo with your finger.

B

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

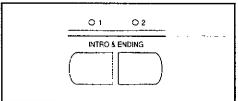


 The tempo at which the button is tapped is detected, and the tempo automatically changes correspondingly.

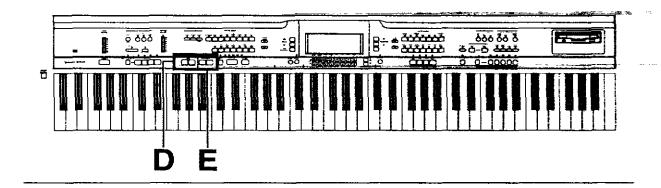
Insert an intro pattern.

C

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

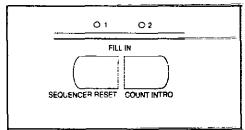


 An intro is played, after which the regular rhythm starts.



Insert a fill-in pattern.

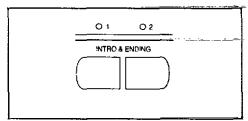
While the preset rhythm pattern is playing, press either the FILL IN 1 or FILL IN 2 button.



 A fill-in pattern immediately starts to play.

Insert an ending pattern.

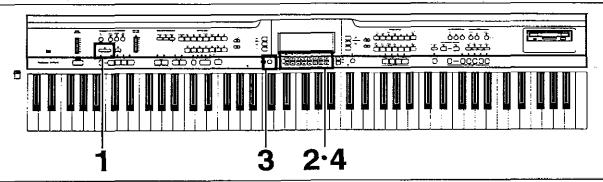
While the rhythm is playing, press the INTRO & ENDING 1 or INTRO & ENDING 2 button.



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

Automatic accompaniment

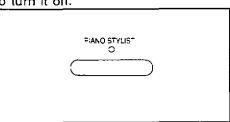
Just by specifying a chord on the keyboard, an accompaniment pattern which matches the selected rhythm is automatically played.



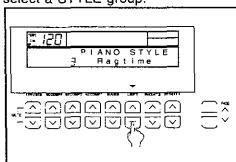
Use the PIANO STYLIST with the following tune.



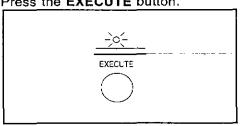
Press the PIANO STYLIST button to turn it on.



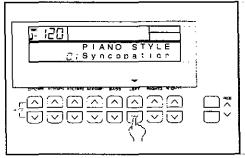
Use the LEFT ∧ and ∨ buttons to select a STYLE group.



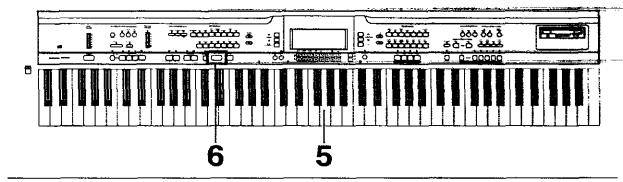
Press the EXECUTE button.



Use the **LEFT** ∧ and ∨ buttons to select a style.

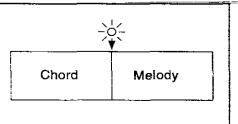


 The panel settings which are best suited for the selected style are automatically set.



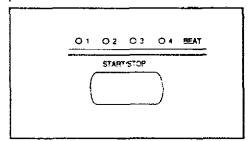
6

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

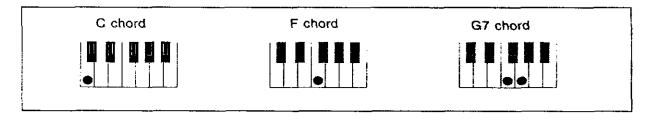


- When you press a key on the left area of the keyboard, an intro is played, after which the automatic rhythm is played (synchro start).
- When the C key is pressed on the left area of the keyboard, an accompaniment begins to play in the C major key.
- Playing the chord key (root note) and the white key to its left will produce a 7th chord.

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



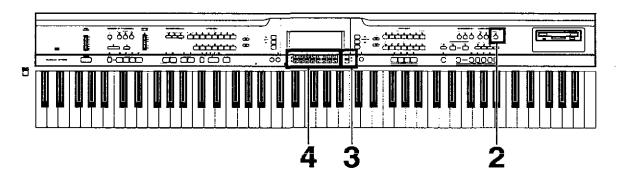
The automatic accompaniment stops.



- The PIANO STYLIST feature explained in this chapter makes it easy to set up a performance, including rhythm, for piano sounds. Other features change the panel settings to automatically match the rhythm and music style you select. (Refer to pages 43 and 44.)
- For a more detailed explanation on how to play chords, etc., refer to the section on the AUTO PLAY CHORD (page 38).

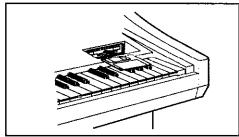
Playing commercial disks

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

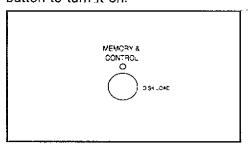


4

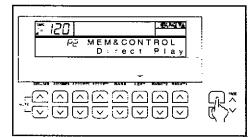
Insert the song disk into the Disk Drive slot. Push it all the way in until you hear a click.



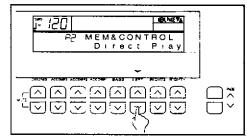
Press the MEMORY & CONTROL button to turn it on.



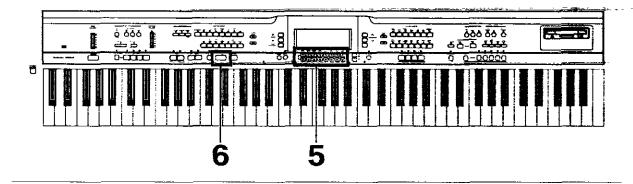
 The display changes to the MEM & CONTROL display. Press the PAGE \(\triangle \) button to select "P2 Direct Play."



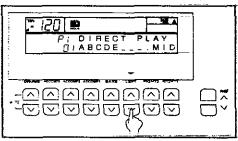
Press the LEFT ∧ or ∨ button.



 The display changes to the DIRECT PLAY display.



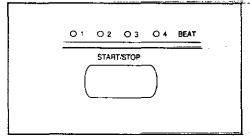
5 Use the LEFT ∧ and ∨ buttons to select the song you wish to play.



 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).

6

Press the START/STOP button.



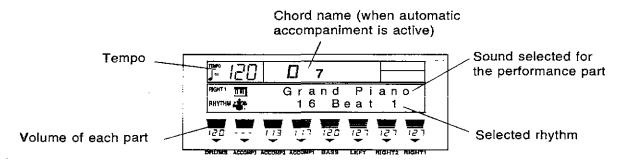
- The selected song is played back.
- To stop playback, press the START/STOP button again.
- You can use the same procedure to play back other songs on the disk.
- Direct play from SMF FORMAT 1 disks is not possible. To play FORMAT 1 disks, follow the SMF LOAD procedure (page 80).
- * DISK ORCHESTRA COLLECTION is a trademark of the YAMAHA Corporation
- * PlanoDisc is a registered trademark of Music Systems Research.

About the display

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

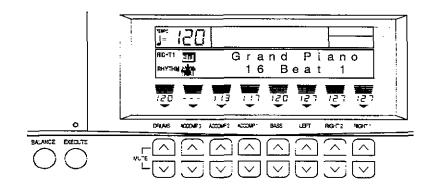
Normal display

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.

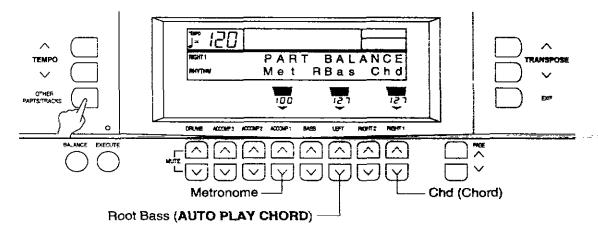
■ MUTE

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

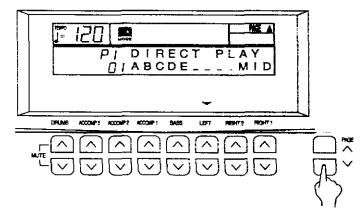
Press the **OTHER PARTS/TRACKS** button to show the PART BALANCE display for [Met (Metronome), RBas (Root Bass), Chd (Chord)], [Part 1 – 8]; press again for [Part 9 – 16].



- 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 timbre sound generator: during SEQUENCER operation, during song disk playback or when external MIDI equipment is connected.

PAGE buttons

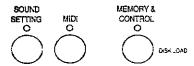
When the current display fills more than one screen, a PAGE indication is shown on the display. For example, if PAGE ▲ is shown on the display, it means that there is a following page or pages. Likewise, PAGE ▼ indicates a previous page, and PAGE ▼ ▲ indicates a previous and a following page. In this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



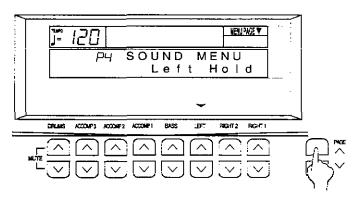
- Press the ∧ button to view the next page of the display, and the ∨ button to view the previous page of the display.
- P1, P2 etc. on the display indicates the page number.

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: SOUND SETTING



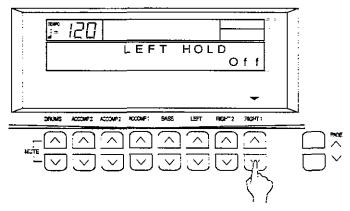
The **PAGE** buttons are also used to select the menu pages. When selecting a menu, a MENU PAGE indication is shown in the upper right part of the screen. For example, to select [Left Hold], use the **PAGE** \land button to select page 4 (P4).

- In this manual, this procedure is written as follows: "Select [P4 Left Hold]."
- 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: Left Hold

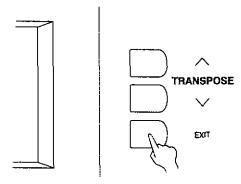


One or more ▼ indications at the bottom of the screen indicate that the corresponding balance buttons below the display are used to change the settings. In this example, the RIGHT 1 ∧ and ∨ buttons are used.

 In this manual, this procedure is written as follows: "Use the RIGHT 1 ∧ and ∨ buttons to set the mode to On or Off."

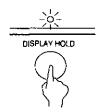
EXIT button

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.

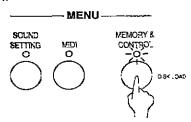


- If you are viewing a setting display which normally turns off automatically, this indicator may flash.
- If any of the MENU buttons, for example, is pressed, the DISPLAY HOLD mode is canceled.

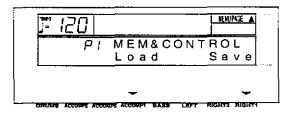
CONTRAST

Adjust the contrast of the display.

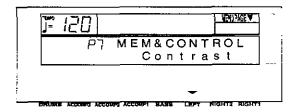
1. Press the MEMORY & CONTROL button to turn it on.



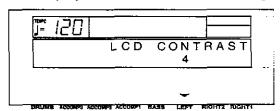
· The display looks similar to the following.



- 2. Use the PAGE buttons to select [P7 Contrast].
- The display looks similar to the following.



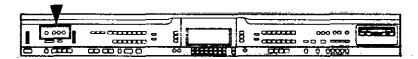
- 3. Press either LEFT button.
- The display looks similar to the following.



- 4. Use the LEFT ∧ and ∨ buttons to adjust the setting (1 to 20).
- Adjust the contrast of the display so that it is easy to read.
- When you have completed making the settings, press the MEMORY & CONTROL button to turn it off.

Part I Sounds and effects

Play Style

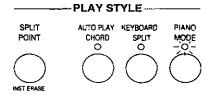


In addition to a standard plano performance, this instrument can be used to play various different performance styles. The type of keyboard is centrally controlled by the PLAY STYLE section.

Normal Play

■ PIANO MODE

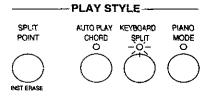
When this button is on, this instrument can be played as a standard piano. (Refer to page 25.)

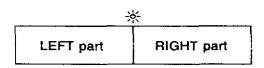


 If sounds other than piano-type sounds have been chosen, the PLAY STYLE indicators all go out.

■ KEYBOARD SPLIT

The keyboard divides into two playing areas, each with a different sound. (Refer to page 27.)

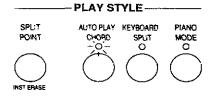


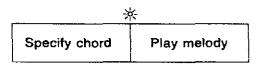


Piano sound

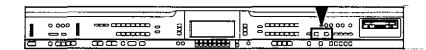
AUTO PLAY CHORD

This button is used when you perform with the automatic accompaniment. (Refer to page 38.)

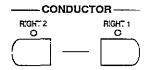




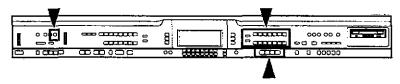
Conductor



Two parts, RIGHT 1 and RIGHT 2, are usually used to select the sounds you play on the keyboard. By using the RIGHT 1 and RIGHT 2 buttons in the CONDUCTOR section, you can quickly change the sound during your performance, or you can even mix two different sounds on the keyboard (page 27).



Selecting sounds



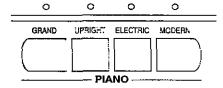
Enjoy trying the sounds of many different Instruments.

PIANO MODE

When playing this instrument as a standard plano, press the **PIANO MODE** button to turn it on.



You can then select one of the piano-type sounds: **GRAND**, **UPRIGHT**, **ELECTRIC**, **MODERN**. Press the button for the desired sound.

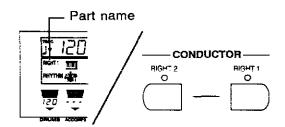


- When the piano is first turned on (initialized mode), the PIANO MODE is on and the default sound is GRAND PIANO.
- The RIGHT 1 part is selected.
- When this button is pressed, the entire keyboard will return instantaneously to the PIANO MODE, regardless of the mode which is currently selected, the KEYBOARD SPLIT status (refer to page 27) or the AUTO PLAY CHORD status (refer to page 38). The sound will be set to the piano-type sound which was selected last.
- Selecting a sound other than one of the four PIANO sounds will cause the PIANO MODE to turn off automatically.

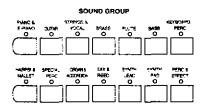
SOUND GROUP

You can select various sounds for the two parts, RIGHT 1 and RIGHT 2.

1. In the CONDUCTOR section, choose RIGHT 1 or RIGHT 2.



- The selected part is shown on the display.
- 2. In the **SOUND GROUP** section, select a sound group.



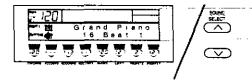
- A list of sounds available for each sound group can be found in the separate REFERENCE GUIDE provided.
- Most of the sounds in the KEYBOARD PERC and PERC & EFFECT sound groups do not have scaled pitches.
- Use the SOUND SELECT buttons to select the desired sound.

- 4. Repeat steps 1 to 3 for the other part.
- The RIGHT 1 and RIGHT 2 parts can be mixed. (Refer to page 27.)

■ Percussion sounds

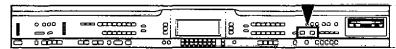
You can create a percussion performance on your keyboard.

- 1. In the SOUND GROUP section, press the KEYBOARD PERC button.
- 2. Select the Kit of percussion instrument.
- 3. Play the keyboard.
- Percussion instrument sounds are produced by the keyboard keys as indicated by the picture code above each key. (For further explanation, refer to the separate REFERENCE GUIDE provided.)
- In the Orch Kit, the arrangement of percussion instruments is different.



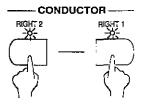
- The name of the sound is shown on the display
- The selected sound is memorized independently for each sound group, so that whenever a SOUND GROUP button is pressed, the sound you chose is automatically available.

Mixing two sounds



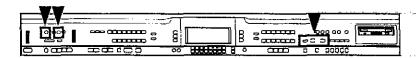
The sounds selected for the RIGHT 1 and RIGHT 2 parts can be mixed and played together on the keyboard.

- Select the sounds for the RIGHT 1 and RIGHT 2 parts.
- 2. In the CONDUCTOR section, press the RIGHT 1 and RIGHT 2 buttons at the same time.



- When you play the keyboard, you hear both the RIGHT 1 part sound and the RIGHT 2 part sound.
- The volume balance of the RIGHT 1 and RIGHT 2 parts can be adjusted. (Refer to page 19.)
- Your mixed sound can be stored in the PANEL MEMORY. (Refer to page 46.)

Keyboard split

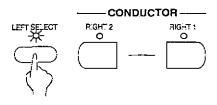


The keyboard can be divided into left and right playing sections, and a different sound played in each section.

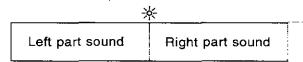
- Select a sound for the right part of the keyboard, and set the effects to on or off.
- You can also turn on the RIGHT 1 and RIGHT
 2 buttons in the CONDUCTOR to mix two sounds.
- 2. in the PLAY STYLE section, press the KEY-BOARD SPLIT button to turn it on.



Press the LEFT SELECT button to turn it on, and select the sounds and effects for the left part.



- A few seconds after you make your selection, the LEFT SELECT button turns off.
- You can now play different sounds for the left and right keyboard sections.



- To mute the LEFT part, press both the corresponding ∧ and ∨ buttons below the display at the same time. In this case, the left section of a split keyboard does not produce any sound.
- Press either of the LEFT ∧ and ∨ buttons to cancel the mute.

SPLIT POINT

When the keyboard is divided into left and right sections, the split point is indicated by the lit indicator.

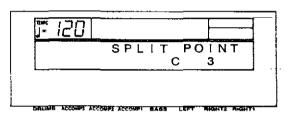


 Each time the SPLIT POINT button is pressed, the indication moves to the next split point in the following order: G2 → C3 → C4.

■ Customized split point

You can set the split point at a location other than G2, C3 or C4.

- 1. Press and hold the **SPLIT POINT** button for a few seconds.
- The following display appears.



- Press a key on the keyboard to specify the desired split point.
- The pressed key is indicated on the display, and 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.

 You can select your customized split point by pressing the SPLIT POINT button until none of the split point indicators is lit.

Pedals

■ Sustain pedal

When a key is released while this pedal is depressed, the sound is sustained so that it lingers and slowly fades out.

If the SUSTAIN PEDAL button is off, the sustain effect does not work.

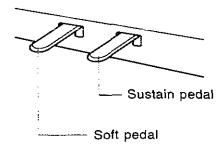


 The sustain on/off status can be set for each part independently. Select a part in the CON-DUCTOR section and turn the SUSTAIN PEDAL button on or off for the part. Repeat for the other part. To select the LEFT part (page 27), turn on the LEFT SELECT button.

■ Soft pedal

When this pedal is depressed, the sound is softer and the volume is slightly lower.

 You can select a different function to control with this pedal. (Refer to page 48.)



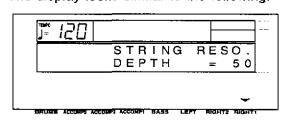
String resonance

String resonance is the sound heard in an acoustic piano when the struck strings produce a sympathetic resonance of the other unstruck strings. For the **GRAND PIANO** and **UPRIGHT PIANO** sounds, string resonance is produced as long as the sustain pedal is depressed. The amount of string resonance can be adjusted.

1. Press and hold the **GRAND** button for about 3 seconds.



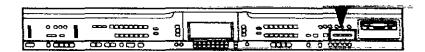
· The display looks similar to the following.



- 2. Use the RIGHT 1 ∧ and ∨ buttons to adjust the amount of resonance (0 to 99).
- The higher the number, the greater the amount of resonance.
- When set to 0, there is no string resonance.
- 3. When you have finished adjusting the string resonance, press the **GRAND** button again.
- This effect does not work when the DIGITAL REVERB is on.



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.

- Select a part to which this effect will be applied; turn on the RIGHT 1 or RIGHT 2 button in the CONDUCTOR section, or the LEFT SELECT button.
- 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

Add breadth to the sound.

- Select a part to which this effect will be applied; turn on the RIGHT 1 or RIGHT 2 button in the CONDUCTOR section, or the LEFT SELECT button.
- Press the CHORUS button to turn it on for the selected part.

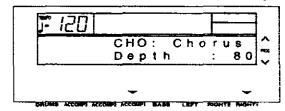


 The CHORUS can be set to on or off for each part.

■ 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.
- 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 88.)
- The display returns to the previous display after a few seconds.

DIGITAL REVERB

DIGITAL REVERB applies a reverberation effect to the sound.

Press the DIGITAL REVERB button to turn it on.

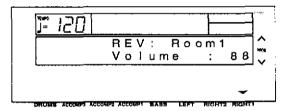


- This effect is applied to all the sounds of this instrument.
- The display can also be used to adjust the depth of the reverb for each part. (Refer to page 88.)

■ Effect setting

You can select the type and volume of this effect.

- 1. 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.
- 3. Use the RIGHT 1 ∧ and ∨ buttons to adjust the volume of the reverb.
- An explanation of the types can be found in the separate REFERENCE GUIDE provided.
- The display returns to the previous display after a few seconds.



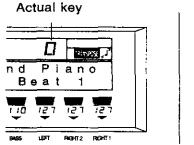
Transpose

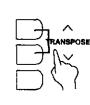


The TRANSPOSE buttons are used to change the key of the entire instrument in semitone steps across an entire octave.

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.

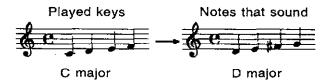
Adjust the key with the TRANSPOSE \wedge and \vee buttons.



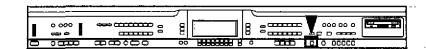


- Each press of the ∧ button raises the key in semitone steps, and each press of the ∨ button lowers the key in semitone steps (G — C — F[‡]).
- If the two buttons are pressed at the same time, the key returns to C.
- When the TRANSPOSE function is active, TRANSPOSE is shown in the upper right part of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

<Example: transposed to D>

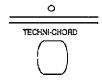


Techni-chord



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 registration, a suitable TECHNI-CHORD type will be selected automatically.

- 1. Split the keyboard into left and right sections. (Refer to page 28.)
- 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:

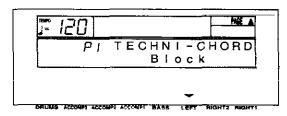


 This feature is very effective when used with the AUTO PLAY CHORD. (This feature does not work in the PIANIST mode.)

■ 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.

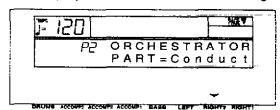


- 2. Use the LEFT ∧ and ∨ buttons to select the harmony type.
- Select from [Close], [Open 1], [Open 2], [Duet], [Country], [Theatre], [Hymn], [Block], [Big Band Brass], [Big Band Reeds], [Octave], [Hard Rock], [Fanfare].
- When the [Octave], [Hard Rock] or [Fanfare] type is selected, the TECHNI-CHORD 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.

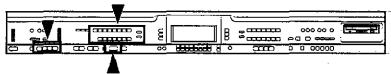


- Use the RIGHT 2 ∧ and ∨ buttons to select the part you wish to generate the harmony notes.
- LEFT and PART 16 cannot be selected.
- If [Conduct] is selected, the CONDUCTOR
 part which is currently selected will be
 specified as the part for the harmony notes.
 However, when RIGHT 1 and RIGHT 2 are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

Part II Playing the rhythm

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

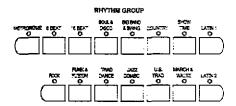
Selecting rhythms



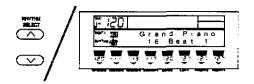
After first selecting a RHYTHM GROUP, choose the desired rhythm from the display.

Select a rhythm

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



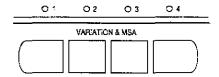
- A list of rhythms available for each rhythm group can be found in the separate REFER-ENCE GUIDE provided.
- A COMPOSER rhythm or COMPOSER CHORD MAP can also be selected as a rhythm. (Refer to pages 73 and 74.)
- 2. Use the RHYTHM SELECT buttons to select a rhythm.



- The rhythm you selected is shown on the display.
- The selected rhythm is memorized independently for each rhythm group, so that whenever a RHYTHM GROUP button is pressed, the rhythm you chose is automatically available.

■ VARIATION

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



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

METRONOME

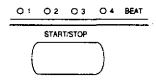
- 1. In the RHYTHM GROUP section, select METRONOME.
- 2. Select the time signature for the metronome.
- Select "Metronome Off" if you do not wish the first beat of the measure to be accented.
- Press the START/STOP button to start the metronome.

Start the rhythm

There are two ways to start the rhythm.

■ Immediate rhythm start

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



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

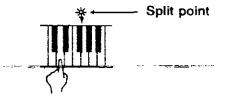
■ Synchronized start

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

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



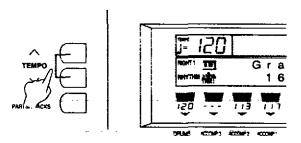
3. Play a key to the left of the keyboard split point.



- · 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 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.

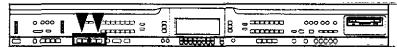
■ TAP TEMPO

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



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

Playing the rhythm

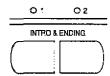


Intro, fill-in and ending patterns fitting each different rhythm pattern are permanently recorded in your instrument, thus allowing a versatile rhythm performance.

INTRO

Begin the rhythm performance with an intro pattern.

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



2. Press the **START/STOP** button to start the rhythm.

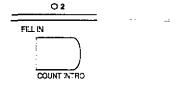


 An intro pattern is played, after which the normal rhythm pattern begins.

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.

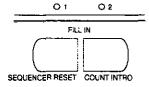


- 2. Press the **START/STOP** button to start the rhythm.
- A one-measure count is played, after which the normal rhythm pattern begins.

FILL IN

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

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

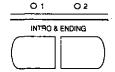


- A fill-in pattern is heard immediately for the remainder of the measure.
- When a FILL IN button is pressed on the last beat of the measure, the fill-in pattern continues to the end of the following measure.

ENDING

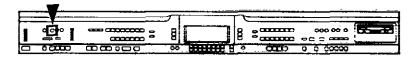
Finish the rhythm performance with an ending pattern.

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



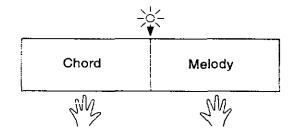
- An ending pattern is produced, and then the rhythm performance stops.
- If you accidentally press an INTRO & ENDING
 button in the middle of the tune, you can press
 the FILL IN 1 or FILL IN 2 button. The ending
 pattern stops, and a fill-in pattern is produced,
 after which the normal rhythm performance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

Auto Play Chord



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

How the AUTO PLAY CHORD works



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

 The accompaniment pattern of the AUTO PLAY CHORD is composed of five parts: DRUMS, BASS, ACCOMP 1, ACCOMP 2 and ACCOMP 3.

How to play chords

There are four different ways to specify chords on the keyboard.

■ BASIC mode [Basic]

For beginning players, a left-hand chord can be specified with just one finger. You can either press one key on the left keyboard section to specify the root note (one-finger), or play all the notes of the chord (fingered).

- The sound selected for the left section of the keyboard is muted. If you cancel the mute for the left keyboard while in this mode, the leftpart sound can then be heard, but the onefinger chord function will not work.
- When the rhythm is on, even if the keys are released, the accompaniment continues to play in the specified chord until you specify another chord.

<One-finger>

Press a key in the left keyboard section to specify the root note. The major chord corresponding to this root note is automatically played in an accompaniment pattern.

Example: C chord



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

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

<Fingered>

Specify the chord by playing all the notes in the chord. When you play chords this way, the AUTO PLAY CHORD recognizes more chord types, and thus the scope of your performance expression is expanded.



- Play chords by pressing at least three keys.
- The AUTO PLAY CHORD can distinguish the following played chords for each key (C is given as an example): C, C7, CM7, Caug, Caug7, Cm, Cm7, Cdim, Cm7, CmM7, Csus4, C7sus4, C,5, C7,5, Cm,5, C6, Cm6, CM7,5, CM7,5, CmM7,5, etc.

■ ADVANCED 1 mode [Advanced 1]

In this mode, the chord is specified by playing it (fingered) on the left part of the keyboard. Chords which the **AUTO PLAY CHORD** does not recognize are ignored.

- The keyboard automatically divides into left and right playing sections.
- The sound selected for the left section of the keyboard is produced, but you can mute this part. (Refer to page 19.)
- · Play chords by pressing at least three keys.
- In this mode, the piano can also recognize chords such as 9th and 13th chords.
- When the rhythm is on, even if the keys are released, the accompaniment continues to play in the specified chord until you specify another chord.

■ ADVANCED 2 mode [Advanced 2]

Chords are specified in the same manner as for the ADVANCED 1 mode. However, if the AUTO PLAY CHORD does not recognize the chord, the automatic accompaniment is based on the pitches of the pressed keys.

■ PIANIST mode [Planist]

In the PIANIST mode, the entire keyboard can be used to specify chords for the automatic accompaniment. This mode is used to add an automatic accompaniment to the performance on a standard piano.

- · The keyboard does not split.
- Chords can be specified (fingered) anywhere on the keyboard.
- Play chords by pressing at least three keys.
- In this mode, the piano can also recognize chords such as 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.
- When the rhythm is on, even if the keys are released, the accompaniment continues to play in the specified chord until you specify another chord.

<ON BASS>

The BASS part is produced in the key of the lowest note of the played chord (except for One-finger). When this button is on, it is possible to specify 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.

<APC HOLD>

During a performance in the PIANIST mode, for example, if you press the pedal to which the APC HOLD function is assigned, the currently specified chord is maintained, allowing you to focus your performance on a solo melody.

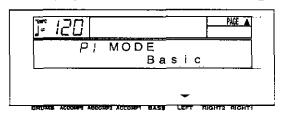
- The accompaniment continues in the same chord as long as the pedal is depressed, and it does not change even if other chords are played.
- To change the pedal assignment, refer to page 48

How to use the AUTO PLAY CHORD

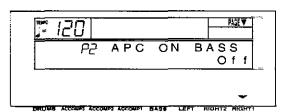
- 1. Select the desired rhythm and sound(s), and set the tempo.
- 2. Press the AUTO PLAY CHORD button to turn it on.



The display looks similar to the following.

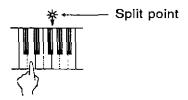


- 3. Use the LEFT ∧ and ∨ buttons to select the AUTO PLAY CHORD mode.
- Press the PAGE ∧ button to show the P2 APC ON BASS display. Use the RIGHT 1 ∧ and ∨ buttons to set ON BASS to on or off.



- After a few seconds, the display returns to the previous display.
- 4. 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 36.)

- 5. Specify a chord.
- If the BASIC, ADVANCED 1 or ADVANCED 2 mode was selected, specify the chord on the keyboard section to the left of the split point.



- An accompaniment pattern in the specified chord is automatically played.
- 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 91.)
- 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 BASIC, AD-VANCED 1 or ADVANCED 2 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 20.)

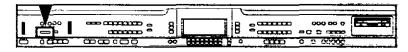
AUTO PLAY CHORD part volume balance

The volume of all the parts comprising the AUTO PLAY CHORD (DRUMS, ACCOMP 1, 2, 3, BASS) can be adjusted with the sliding RHYTHM VOLUME control.



- At the MAX setting, the volume is at its loudest.
 At the OFF setting, the automatic accompaniment parts do not sound.
- You can also adjust the volume of each part. (Refer to page 19.)
- When the actual volume level corresponds correctly to the position of the sliding controller, the indicator is lit. However, when the actual volume level and the controller position differ, the indicator is not lit, for example when a PANEL MEMORY has been recalled to change the panel settings (page 46).

Piano Stylist

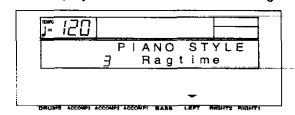


For performances using piano sounds, just select a piano style, and your panel registration, such as the sounds and effects, is set in seconds.

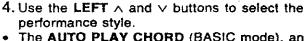
 Press the PIANO STYLIST button to turn it on.



The display looks similar to the following.



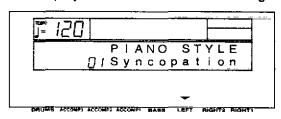
- 2. Use the LEFT \wedge and \vee buttons to select a STYLE group.
- 3. Press the EXECUTE button.



- The AUTO PLAY CHORD (BASIC mode), an INTRO & ENDING button and the SYNCHRO START button turn on, and the rhythm, effects and tempo which are best suited for the selected style are automatically selected. When you press a key on the left section of the keyboard, an intro is played, after which the automatic rhythm is played. Play the melody with your right hand.
- 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 102.)



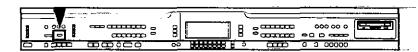
The display looks similar to the following.



Suggestions for using PIANO STYLIST

Use the PIANO STYLIST 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 46.)

One Touch Play

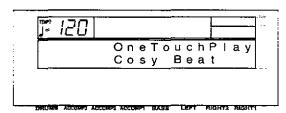


ONE TOUCH PLAY sets up the your instrument with a suitable registration for your chosen rhythm style so that you can make a great sound straight away, even if you are playing this instrument for the first time. Using ONE TOUCH PLAY sets a suggested combination of sounds and balances and an appropriate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

- Select an AUTO PLAY CHORD mode. (Refer to page 41.)
- 2. Select a rhythm pattern.
- Do not select a COMPOSER CHORD MAP or a rhythm from a COMPOSER MEMORY.
- Press the ONE TOUCH PLAY button until its indicator goes out.



The display looks similar to the following.

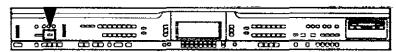


- The AUTO PLAY CHORD button and the SYNCHRO START button are automatically turned on. When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately.
- If an AUTO PLAY CHORD mode was not selected in step 1, the BASIC mode becomes active.
- The octave and stereo balance of the sound may change.
- The function of the left (soft) pedal is automatically set (SOFT PEDAL, GLIDE, etc.).
- To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 102.)

Suggestions for using ONE TOUCH PLAY

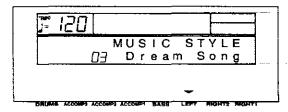
Press the INTRO & ENDING button before you play for a professional sounding introduction. Use the ONE TOUCH PLAY registration as a starting point for your own registration. Alter the sounds, balance and tempo to your own taste and store your new registration in the PANEL MEMORY for future use. (Refer to page 46.)

Music Style Select



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

- Select an AUTO PLAY CHORD mode. (Refer to page 41.)
- 2. Press the MUSIC STYLE SELECT (ONE TOUCH PLAY) button momentarily.
- The display looks similar to the following.



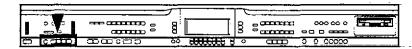
- The name of the style shown on the display may become altered.
- 3. In the RHYTHM GROUP section, select a rhythm group.
- Use the LEFT ∧ and ∨ buttons to select a music style.
- The AUTO PLAY CHORD button and the SYNCHRO START button turn on, and the sounds, effects, rhythm and tempo which are best 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.
- If an AUTO PLAY CHORD mode was not selected in step 1, the BASIC mode becomes active.
- The octave and stereo balance of the sound may change.
- The function of the left (soft) pedal is automatically set (SOFT PEDAL, GLIDE, etc.)
- The type and number of styles that can be selected differs depending on the AUTO PLAY CHORD mode.

 To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 102.)

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 46.)

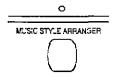
Music Style Arranger



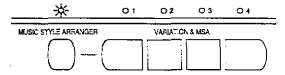
The MUSIC STYLE ARRANGER helps you to make professional registration changes during your performance. Select between four contrasting registrations at the push of a button, or let your instrument change the registration automatically for you when you use FILL IN 1 or 2. The MUSIC STYLE ARRANGER will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

How to use the MUSIC STYLE ARRANGER

- 1. Select a rhythm pattern.
- When the PIANIST mode of the AUTO PLAY CHORD is selected, the MUSIC STYLE AR-RANGER does not work.
- Press the MUSIC STYLE ARRANGER button to turn it on.



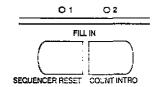
3. Use the VARIATION & MSA buttons to select a style (1 to 4).



- 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 START 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.
- The function of the left (soft) pedal is automatically set (SOFT PEDAL, GLIDE, etc.)
- To return the functions of this instrument to their original settings, perform the INITIAL procedure. (Refer to page 102.)
- During your performance, the style can be changed, but the tempo does not change.

How to change the music style during your performance

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

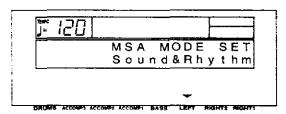


Each time the FILL IN 1 button is pressed, the FILL IN 1 pattern plays, and then the music style changes in the 4 → 3 → 2 → 1 order. And each time the FILL IN 2 button is pressed, the FILL IN 2 pattern plays, and then the style changes in the 1 → 2 → 3 → 4 order.

■ MUSIC STYLE ARRANGER mode

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

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



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

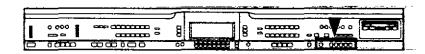
Rhythm: Only the rhythm changes.

Sound & Rhythm: Both the sound and rhythm

Panel Memory: The **PANEL MEMORY** number (1 to 4) changes.

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

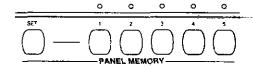
Panel Memory



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

- 1. Set up the desired panel settings (sounds, volumes, etc.).
- 2. With the SET button held down, press one of the numbered buttons of the PANEL MEMORY (1 to 5).

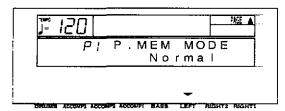


- The panel settings are now stored in the specified number.
- To recall the stored settings, just select the desired PANEL MEMORY number button. (You can then change the sound settings, etc. manually; however, the memory contents of the PANEL MEMORY remain unchanged until you store them again.)
- The PANEL MEMORY settings can be saved on a disk for recall at a later time. (Refer to page 83.)

■ PANEL MEMORY mode

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

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



Use the LEFT \(\times\) and \(\varphi\) buttons to select the mode.

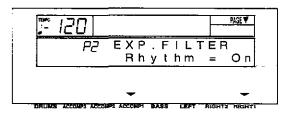
Normal: The sounds and volume balance, effects and CONDUCTOR status are stored. Expand: All the instrument's settings are stored, including the rhythm, TRANSPOSE, tempo, etc.

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

■ EXPAND MODE FILTER

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

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



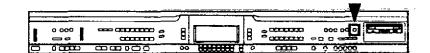
- 2. Use the ACCOMP 1 ∧ and ∨ buttons to select the item.
- Select from [Rhythm], [Tempo], [Split Pt] (SPLIT POINT), [Transpos], [APC] (AUTO PLAY CHORD), [MIDI], [Key Scale], [Reverb], [CHO Set] (CHORUS Setting), [P4-P16 Set] (PART 4 to 16 Setting) and [Pedal Set].
- 3. Use the RIGHT 1 ∧ and ∨ buttons to_recall 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 102.)
- You can change from one PANEL MEMORY to another by pressing the soft pedal.

Pedal setting



You can assign various functions to the soft (left) pedal. The assigned function can then be controlled by pressing the pedal.

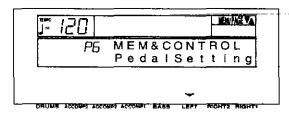
· The sustain pedal function cannot be changed.

Assigning functions

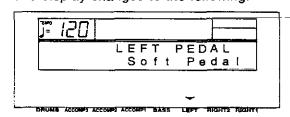
1. Press the **MEMORY & CONTROL** button to turn it on.



- Use the PAGE buttons to select [P6 Pedal Setting].
- · The display changes to the following.



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



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

[Sost. Pedal]: (Refer to the following box.) [Soft Pedal]: (Refer to page 29.) [Start/Stop]: START/STOP button on/off [Fill in 1]: FILL IN 1 button on [Fill in 2]: FILL IN 2 button on [Intro/Endng 1]: INTRO & ENDING 1 button [intro/Ending 2]: INTRO & ENDING 2 button [Glide]: Glide on/off (The glide effect "bends" the pitch down by about one semitone.) [Sustain]: SUSTAIN PEDAL button on/off [Techni-Chord]: TECHNI-CHORD button on/off [Dig Effect]: DIGITAL EFFECT button on/off [Chorus]: CHORUS button on/off [P. Memory inc]: Increment the PANEL MEMORY selection by 1. [P. Memory dec]: Decrement the PANEL MEMORY selectin by 1. [P. Memory 1-5]: The specified PANEL MEMORY number is turned on. [APC Hold]: Maintain the specified chord during an AUTO PLAY CHORD performance. (Refer to page 40.)

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

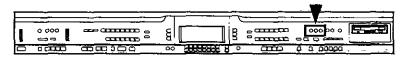
Sostenuto (Sost.) pedal

[Off]: No function

- If this pedal is pressed while the keys are pressed, the sustain effect is applied to those notes only. If the pedal is pressed first and the keys are then pressed, the sustain effect does not work for those notes.
- For continuous-type sounds, such as ORGAN, the notes sound as long as the pedal is pressed.

Part III 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

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 V: Disk Drive (page 76).

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.

m 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 30,000. 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.

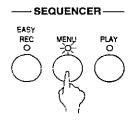
About the measure count

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 61.)

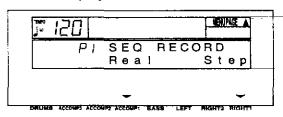
• If you wish to use a time signature not available in the preset rhythms, use the **COMPOSER** to create a new time signature. (Refer to page 67.)

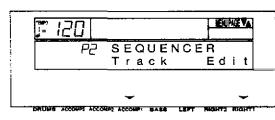
SEQUENCER MENU

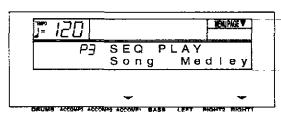
When you press the MENU button in the SE-QUENCER section to turn it on, the display changes to the following.



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

Step (STEP RECORD) (page 58) Store the chord progression for the automatic accompaniment, and the rhythm changes.

[P2 SEQUENCER]

Track (TRACK ASSIGN) (page 62)
Assign parts to up to 16 different tracks.

Edit (page 63)

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 51)

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

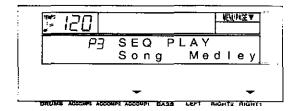
Mediey (page 66)

Specify medley playback of songs.

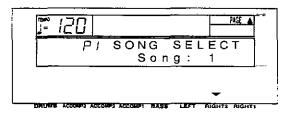
Song

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

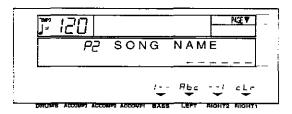
- 1. Press the MENU button in the SEQUENCER section to turn it on.
- 2. Use the **PAGE** buttons to select [P3 SEQ PLAY].
- · The display looks similar to the following.



- 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).
- 5. If you wish to assign a name to the song, press the **PAGE** \wedge 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.
- 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 63.)

Easy Record

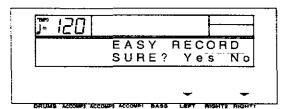
Suppose you are playing your instrument and you wish to record and play back your performance to hear how it sounds. You can bypass the set-up procedures of the full-scale sequencer and begin recording quickly and easily.

Recording procedure

- 1. Select the song number. (Refer to page 51.)
- 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.



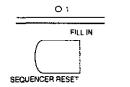
 EASY RECORD is not available if GENERAL MIDI is set to On. (Refer to page 101.)

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.
- 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.

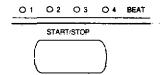
Playback

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

2. Press the START/STOP button.



Sequencer parts

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

Part name [name on display]	Used for	Recorded contents			
RIGHT1 [Right 1] RIGHT2 [Right 2] LEFT [Left] PART4 [Part 4] : PART15 [Part 15]	Recording the perform- ance of each part (REALTIME)	Sound and volume settings Pedal operation (Sustain, Soft, Sostenuto) DIGITAL EFFECT, CHORUS, SUSTAIN PEDAL on/off PITCH BEND, MODULATION, AFTER TOUCH, REVERB DEPTH, CHORUS DEPTH, PAN, KEY SHIFT, BEND RANGE data (when MIDI data is received)			
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 RHYTHM VOLUME setting DIGITAL REVERB on/off PLAY STYLE (PIANO MODE, KEYBOARD SPLIT, AUTO PLAY CHORD) settings ON BASS on/off MUSIC STYLE ARRANGER status FILL IN 1, 2, INTRO & ENDING 1, 2 on PANEL MEMORY selection changes TRANSPOSE status START/STOP on/off TEMPO setting CONDUCTOR status 			
AUTO PLAY CHORD [APC]	Recording chords for the AUTO PLAY CHORD (REALTIME)	• AUTO PLAY CHORD status • ON BASS on/off • FILL IN 1, 2, INTRO & ENDING 1, 2 on • START/STOP on/off			
CHORD [Chord]	Recording the chord progression for the AUTO PLAY CHORD (STEP)	Chord progression FILL IN 1, 2, INTRO & ENDING 1, 2 on			
RHYTHM [Rhythm]	Settings related to rhythm (STEP)	Rhythm settings and selection changes FILL IN 1, 2, INTRO & ENDING 1, 2 on START/STOP on/off TEMPO setting			

- You can use the TRACK ASSIGN function to assign parts to tracks as you wish. (Refer to page 62.)
- For the sake of compatibility when playing disks for older PR models, the RKB and LKB playback parts are also supported. However, these parts cannot be recorded or edited.

■ Default part settings

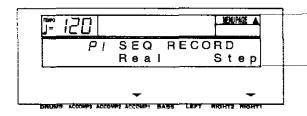
1:	RIGHT1	5:	CONTROL	_	9:	PART5	13:	PART9
2:	RIGHT2	6:	RHYTHM		10:	PART6	14:	PART10
3;	LEFT	7:	DRUM	-	11:	PART7	15:	PART11
4:	APC/CHORD	8:	PART4		12:	PART8	16:	PART12

Realtime Record

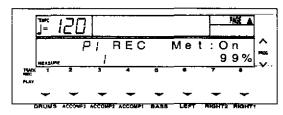
With REALTIME RECORD, your performance is recorded with the timing exactly as you played it on the keyboard. And with the 16 tracks, you can even record your performance one track at a time (multi-track recording).

Recording procedure

- 1. Select a song number. (Refer to page 51.)
- 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 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 61.)
- 7. Turn the metronome on or off (On/Off) as desired with the TRANSPOSE (PROG) \wedge and \vee 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

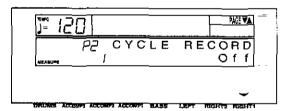
To record the next track immediately after the first track is completed, press the EXIT button. The track you just recorded changes to a "PLAY" track. Use the buttons below the display to specify "REC" for the next track you wish to record, and make the various settings (sound, etc.) for the track. Next, 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 65.)

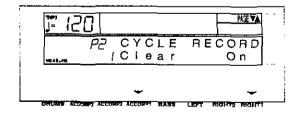
CYCLE RECORD

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

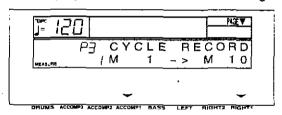
- On the REC display, specify "REC" for the track number you are going to record, and "PLAY" for track numbers you wish to have played back.
- 2. Press the PAGE A button.
- The display looks similar to the following.



- 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** \land and \lor 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.
- When you have finished recording, turn off the MENU button in the SEQUENCER section.
- The display changes to the SEQ PLAY display.

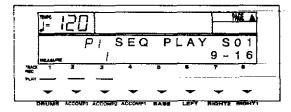
Sequencer Play

Play back your recorded performance.

- 1. Select a song number. (Refer to page 51.)
- In the SEQUENCER section, press the PLAY button to turn it on.



The display looks similar to the following.



- 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 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.

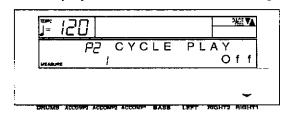
- 7. Press the START/STOP button.
- The recorded performance is played back from the specified measure.
- When playback is begun from a measure in which an INTRO, COUNT INTRO, FILL IN or ENDING is recorded, the corresponding function does not work.
- If you wish to adjust the volume balance of each track 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 record performance.

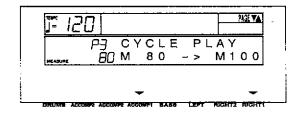
CYCLE PLAY

You can have specified measures played back repeatedly.

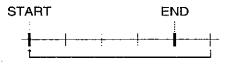
- On the P1 SEQ PLAY display, specify "PLAY" for track numbers you wish to have played back.
- 2. Press the PAGE A button.
- The display looks similar to the following.



- 3. Press the RIGHT 1 A button to select On.
- 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.



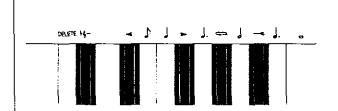
- 7. Press the START/STOP button.
- Cycle playback of the specified measures begins.
- 8. To stop cycle playback, press the **START/STOP** button again.
- During playback stop, if the SEQUENCER RESET (FILL IN 1) button is pressed, the SEQUENCER returns to the measure number specified in step 5. If the 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.

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



Note value keys

- Whole note
- Dotted half-note
- Half-note
- Dotted quarter-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

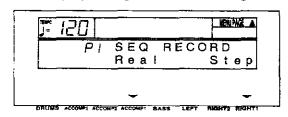
DELETE Press to erase data.

 To erase all the data from the current track, while pressing the DELETE key, press the End key (— 1).

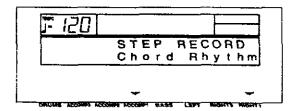
■ Example of storing a chord progression

Measure 1	2	_1	3		4	
c	С	F	G 7	C	Am	
•	ø		ال	J	ا	

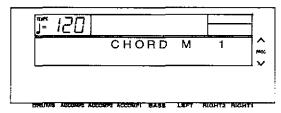
- 1. Select the song number. (Refer to page 51.)
- 2. On the SEQUENCER menu display, select P1.
- · The display changes to the following.



- 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



(2) While playing a G7 chord, press the \(\frac{1}{2} \) key one time.



<Measure 4>

While playing a C chord, press the ! key one time.



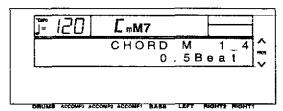
(2) While playing an Am chord, press the , key one time.



- You can press 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 (→ 1).
- 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 (—+1).
- 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 is on, chords such as "C on G" can also be specified. However, the ON BASS indication (on) is not shown on the display during recording.

■ Correct the recorded chord progression

- 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 (¼), 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.

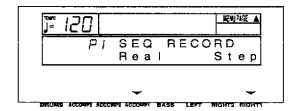
■ TRACK CLEAR

To erase all data from the current track, hold down the **DELETE** key and press the End (— H) key.

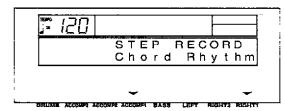
Store a rhythm progression

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 51.)
- 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) \wedge and \vee buttons to go to the measure you wish to record.
- 6. Store the rhythm data.
- Data which can be stored:

START/STOP

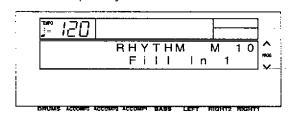
Changes in the rhythm selection Changes in the VARIATION selection COUNT INTRO, INTRO, FILL IN, ENDING Tempo changes

- 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.
- 7. 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

- 1. 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.

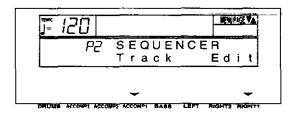
TRACK CLEAR

To erase all data from the current track, while the RHYTHM display is shown, hold down the **DELETE** key and press the End (—) 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 51.)
- 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.
- Use the LEFT ∧ and ∨ 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 53.)
- For the sake of compatibility when playing disks for older PR models, the RKB and LKB playback parts are also supported. These parts can be changed, but the user cannot select them. In addition, when either or both the RKB and LKB parts are active, the [Right 1], [Right 2], [Left] and [APC] parts cannot be selected.
- 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.

- 6. 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 A and V 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.

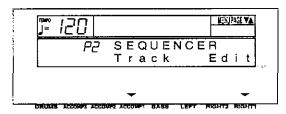
- Press the EXECUTE button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.
- If [Yes] was selected, "COMPLETED!" is shown on the display and the selected track assign mode is enabled.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

Editing the recorded performance

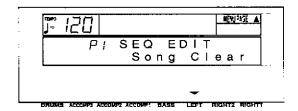
The edit feature allows you to erase or change portions of your performance after it has been recorded.

Select the edit function

- 1. Select the number of the song you wish to edit. (Refer to page 51.)
- 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.



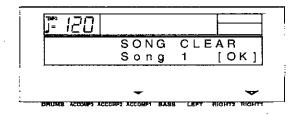
 Use the PAGE ∧ and ∨ buttons to select a menu item.

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.



- 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.
- 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.

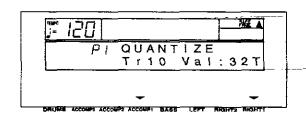


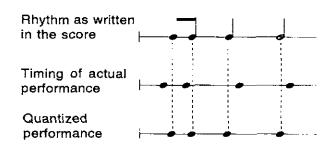
- Use the ACCOMP 1 ∧ and ∨ buttons to select the track you wish to clear.
- If [All] is selected, the data is erased from all the tracks.

- 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

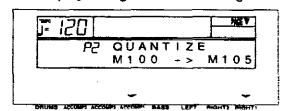
The QUANTIZE function can correct the timing of your performance after it has been recorded. If the rhythm is slightly out of sync or inexact, it will automatically be corrected to the specified quantize level.





- 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.

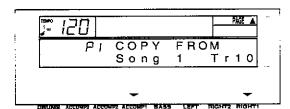
- Use the RIGHT 1 ∧ and ∨ buttons to specify the quantize level.
- This setting specifies the timing (minimum note value) on which the quantizing will be based.
- Select from 4, 8, 16, 32, 8T, 16T, 32T.
 (Example: 16=sixteenth note; T=triplet-type note.)
- 3. Press the PAGE A button.
- The display changes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



- 4. 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).
- 6. Press the EXECUTE 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.

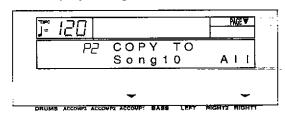
SONG COPY

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.

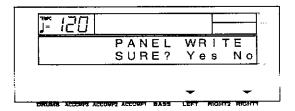
- 3. Press the PAGE A button.
- · The display changes to the following.



- 4. Use the ACCOMP 1 ∧ and ∨ buttons to specify the song number to copy to.
- 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.
- 6. Press the EXECUTE 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 SEQUENCER 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.

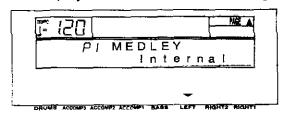
Sequencer Mediey

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.

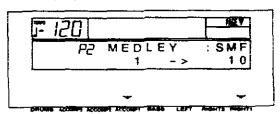


- 2. Press either RIGHT 1 (Medley) button.
- The display looks similar to the following.

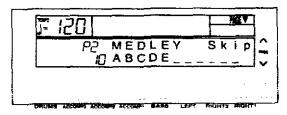


- 3. Use the LEFT ∧ and ∨ buttons to specify which songs you wish to have played.
 - Internal: Play back song data from this instrument's **SEQUENCER** memories.
 - FD Technics: Play back Technics format song data saved on the floppy disk in the disk drive.
 - Other FD: Play back Standard MIDI File (SMF) (Format 0), DISK ORCHESTRA COLLECTION™ (DOC) and PianoDisc™ (PDS) song data saved on the floppy disk in the disk drive.
- Note that if [FD Technics] is selected and medley play is executed, all song data (SONG 1-10) currently stored in the SEQUENCER memory is destroyed.

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



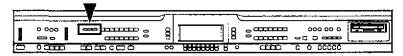
- For [Other FD], the disk type is indicated in the upper right part of the display (SMF/DOC/PDS).
- 5. Use the ACCOMP 1 ∧ and ∨ buttons to specify the first song you wish to have played.
- Use the RIGHT 1 ∧ and ∨ buttons to specify the last song.
- 7. Press the START/STOP button.
- The songs are played back in the specified order.
- The display looks similar to the following.



- You can use the TRANSPOSE (PROG) ∧ and ∨ buttons to skip to the next song.
- To stop medley play, press the START/STOP button.
- Features and operation of the Disk Drive are explained in "Part V Disk Drive" (page 76).

Part IV Composer

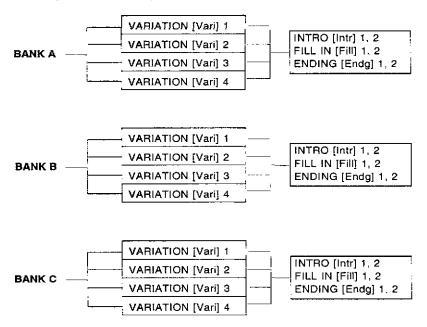
Outline of the Composer



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 73.)

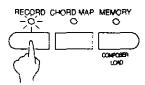
Memory capacity

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=%).

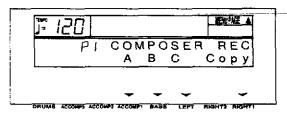
- When "MEMORY FULL!" appears on the display no more data can be stored in the COM-POSER.
- The recorded COMPOSER data can be saved to a disk and later quickly recalled (COM-POSER LOAD) (Refer to page 79.)

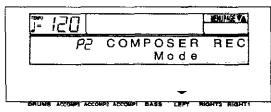
COMPOSER RECORD menu

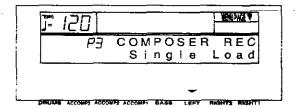
When you press the RECORD button in the COM-POSER section to turn it on, the display changes to the following.



 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 69 and 70)

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

Copy (page 69)

Copy a preset rhythm pattern into a memory.

[P2 COMPOSER REC]

Mode (page 73)

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

[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 80).

Two ways to record in the COMPOSER

There are two ways to create and record a rhythm.

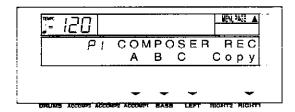
- Edit a preset rhythm (pages 69 and 72) Use the copy function to copy a preset rhythm to a memory, change parts of it, and then store it as a new rhythm.
- Create a completely new rhythm (pages 70 and 72)

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

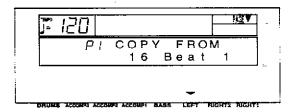
Edit a preset rhythm pattern: preparation

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.

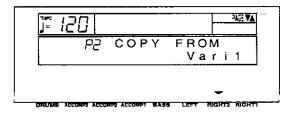
- 1. On the **COMPOSER RECORD** menu display, select P1.
- · The display looks similar to the following.



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

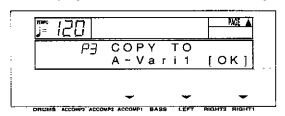


- 3. Use the RHYTHM GROUP and RHYTHM SELECT buttons to select a rhythm to copy.
- You can use the LEFT ∧ and ∨ buttons to switch to another rhythm within the group.
- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.

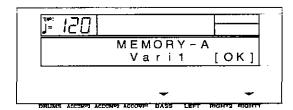


- 5. Use the RIGHT 2 ∧ and ∨ buttons to select the name of the section to copy from.
- Select from Vari (VARIATION) 1-4, Intr (INTRO) 1, 2, Endg (ENDING) 1, 2, V (VARIA-TION) 1FI (FILL IN) 1, 2, V2FI 1, 2, V3FI 1, 2, V4FI 1, 2.

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



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

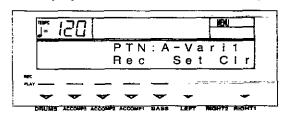


12.Use the **BASS** ∧ and ∨ buttons to select the section name to which you copied the section (the section name you selected in step 8).

13. Press either RIGHT 1 (OK) button.

Part IV

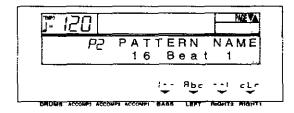
· The display looks similar to the following.



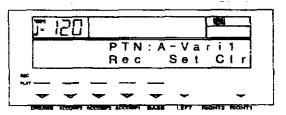
- 14. If you wish to name your new rhythm pattern (except for FILL IN, INTRO and ENDING), press either LEFT (Set) button.
- If you do not input a name for your rhythm pattern, the name becomes the same as the original rhythm from which you copied. Skip to step 18.
- The display looks similar to the following.



- 15. 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) \(\text{and } \vert \) 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.
- 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.

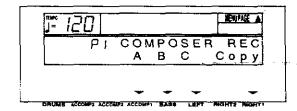
ACCOMP 1 ACCOMP 2 ACCOMP 3 DRUMS

 The pattern you copied and the metronome sound start, and recording begins. (Refer to page 72.)

Create a completely new rhythm: preparation

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

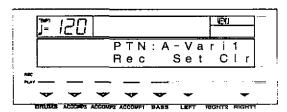
- 1. On the COMPOSER RECORD menu display, select P1.
- The display looks similar to the following.



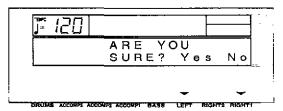
- Select a bank in which to record the rhythm (A, B or C).
- The display looks similar to the following.



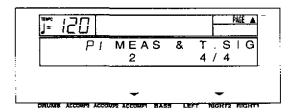
- 3. Use the BASS ∧ and ∨ buttons to specify the section you are going to create.
- Select from Vari 1-4, Intr 1, 2, Fill 1, 2, Endg 1, 2.
- 4. Press either RIGHT 1 (OK) button.
- · The display looks similar to the following.



- 5. Press either RIGHT 1 (Cir) 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.

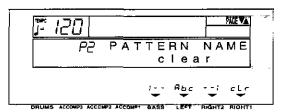


- If [Yes] was selected, "COMPLETED!" appears on the display, and the contents of all parts are cleared.
- 6. Press either LEFT (Set) button.
- · The display looks similar to the following.

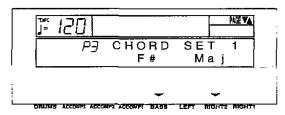


- 7. Use the ACCOMP 1 \(\triangle \) and \(\triangle \) buttons to specify the number of measures in your repeating rhythm pattern (1 to 8).
- 8. Use the RIGHT 2 ∧ and ∨ buttons to specify the time signature (1/4 to 8/4).
- The settings for the number of measures and the time signature can be changed only if all the parts of the pattern were cleared in step 5.

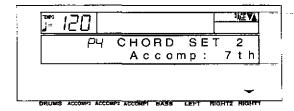
- Press the PAGE
 button to view the P2 PAT-TERN NAME display (except for FILL IN, INTRO and ENDING).
- · The display looks similar to the following.



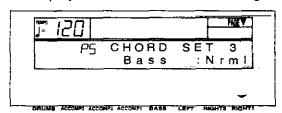
- 10. Type a name for your rhythm pattern (up to 12 characters).
 - Use the BASS or RIGHT 2 \(\times\) and \(\times\) buttons to highlight the character position. Use the LEFT (Abc) \(\times\) and \(\times\) buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To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

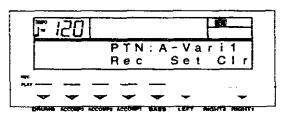


- 14. Use the RIGHT 1 ∧ and ∨ buttons to specify the type of phrase progression for the AC-COMP parts (Normal [Nrml], or 7th).
- 15. Press the **PAGE** ∧ button to view the P5 CHORD SET 3 display.
- · The display looks similar to the following.



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

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.

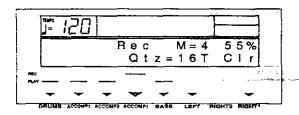
BASS ACCOMP 1 ACCOMP 2 ACCOMP 3 DRUMS

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 71.
- The SUSTAIN PEDAL 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.
- 5. 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.

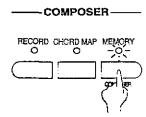
Qtz (QUANTIZE)

Set the desired quantize level to smooth out any unevenness in the timing of your performance. Use the LEFT \land and \lor 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

 In the COMPOSER section, press the MEMORY button to turn it on.

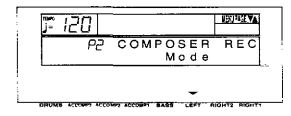


- 2. Use the **RHYTHM SELECT** buttons to select the desired playback rhythm on the display.
- During setting, the bank name and rhythm name are shown on the display.
- You can also use VARIATION & MSA buttons to select the variation.
- 3. Press the START/STOP button.
- The DRUMS part begins to play back.
- The BASS and ACCOMP parts are played back when you use the AUTO PLAY CHORD.

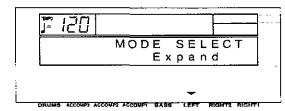
Composer mode

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

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



- Press either LEFT 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

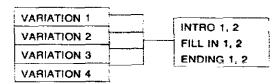
When a FILL IN button or an INTRO & ENDING button is pressed during playback, the corresponding pattern you created is played back.

- 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.

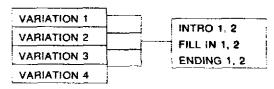
<BANK A> VARIATION 1



<BANK B>



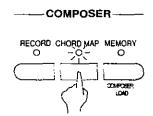
<BANK C>



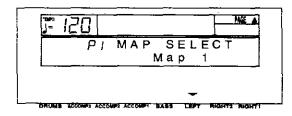
Composer Chord Map

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.

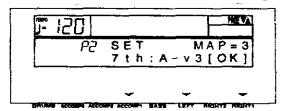


The display looks similar to the following.



2. Use the LEFT ∧ and ∨ buttons to select a map number (Map 1 to 5).

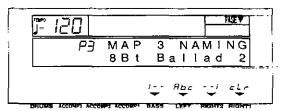
- 3. Press the **PAGE** A button.
- The display looks similar to the following.



- 4. Use the ACCOMP 1 buttons to select a chord type.
- Select from [Maj] (major), [Min] (minor), [7th], and [Dim] (diminished).

- Use the LEFT ∧ and ∨ 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 [Mai] 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 A 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) \(\times\) and \(\times\) buttons to select the aiphanumeric 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 RHYTHM SELECT \wedge and \vee buttons to select the number of the desired map (1 to 5).
- The selected map number and map name are shown on the display.
- 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.

Part V Disk Drive

Outline of the Disk Drive function

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

Internal memory and Floppy Disk Drive

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

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

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

FORMAT 0: There is one track on the disk,

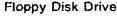
and it contains the 16 MIDI chan-

nels.

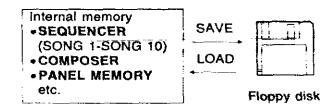
FORMAT 1: There is an unlimited number of

tracks on the disk, each of which can contain the 16 MIDI chan-

neis.







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) PianoDisc™

■ About Standard MIDI Files

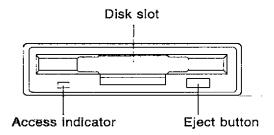
"Standard MIDI File" is a standardized data format which makes it possible for music data to be exchanged among different sequencers. Data stored in this format on sequencers of different models can be played back on this instrument, and vice versa.

- 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

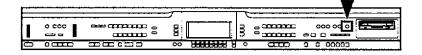
Press to remove the disk from the Disk Drive.

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



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



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

P1 Load (page 78)

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

P1 Save (page 83)

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 81)

Immediate playback of commercial song disks.

P4 FD Format (page 82)

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

- [P3 Medley] is explained on page 66.
- [P5 Initial] is explained on page 102.
- [P6 Pedal Setting] is explained on page 48.
- [P7 Contrast] is explained on page 23.

- 3. 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.

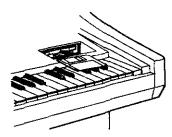
Loading data

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

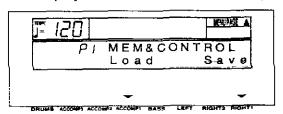
WARNING: The load procedure causes any data which is currently stored in the relevant memories to be erased.

DISK LOAD

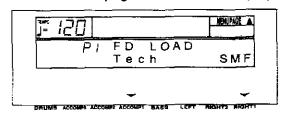
 Insert the disk with the stored data into the Disk Drive. Push it all the way in until you hear a click.

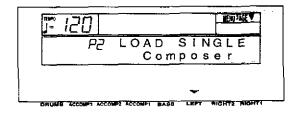


- 2. On the **MEMORY & CONTROL** menu display, select P1.
- The display looks similar to the following.



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

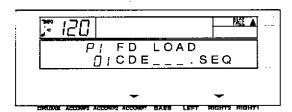




- 4, Select the type of data load you want.
- [Tech]: Load data which was saved in the Technics File format (TECHNICS LOAD).
- [SMF]: Load data which was saved in the Standard MIDI File format (SMF LOAD).
- [LOAD SINGLE Composer]: Load COMPOSER data from a disk into a specified memory number
- 5. Perform the selected disk load procedure. (Refer to the following sections.)

■ TECHNICS LOAD

Load data which was saved in the Technics File format.

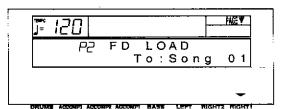


- Use the ACCOMP 1 ∧ and ∨ buttons to select the file on the floppy disk you wish to load (copy) to this instrument's memories.
- The file name is shown next to each file number.
- Use the RIGHT 2 ∧ and ∨ buttons to specify the kind of data you wish to load from the disk to your Instrument.

ALL: All the following data is loaded.

SEQ: Only SEQUENCER data CMP: Only COMPOSER data PNL: Only PANEL MEMORY 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 \wedge 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.

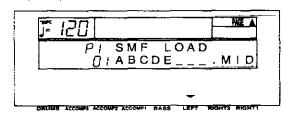
Press the EXECUTE button.



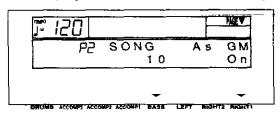
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- If song data was loaded, you can press the START/STOP button to begin playback when the PLAY button of the SEQUENCER is on.
 - You can quickly load just the COMPOSER data by pressing and holding the COM-POSER LOAD (MEMORY) 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 A button.
- · The display looks similar to the following.



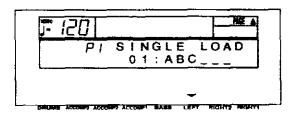
- Use the BASS ∧ and ∨ buttons to select the song.
- · Data is loaded one song at a time.
- Use the RIGHT 1 ∧ and ∨ buttons to specify whether or not to load the song as GENERAL MIDI (GM) (On/Off).
- If the GM setting you specify is different from the setting in the file, the sounds, the octave, and the arrangement of percussion sounds on the keyboard will be different.
- Information about GENERAL MIDI can be found on page 93.
- 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 button.



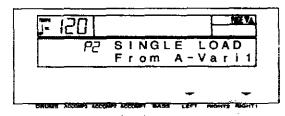
- · The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- Press the START/STOP button to begin playback.

■ LOAD SINGLE COMPOSER

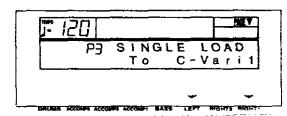
Load the desired COMPOSER data from a disk into a specific COMPOSER memory.



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



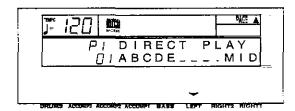
- 5. Select the section to load to.
- Use the LEFT ∧ and ∨ buttons to specify the bank name, and the RIGHT 1 ∧ and ∨ buttons to specify the section name.
- 6. Press the EXECUTE button.
- The LOAD operation begins.
- When the operation has been successfully completed, "COMPLETED!" is shown on the display.
- This procedure can also be accessed from the COMPOSER menu display. (Refer to page 68.)

Playing commercial disks

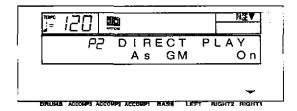
Commercial song disks can be played back directly from a disk. The usual LOAD operation is not necessary, so playback is quicker.

DIRECT PLAY

- 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.
- 4. 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 93.
- 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.

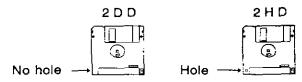
- 5. Press the START/STOP button.
- The selected song begins to play.
- Press the START/STOP button if you wish to stop playback before it has finished.
- You can use the same procedure to play back other songs on the disk.
- The song stops if you exit this display during playback.
- DIRECT PLAY can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

Formatting a disk

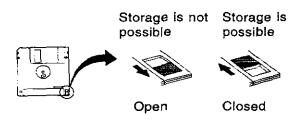
New floppy disks can be used only after they have been formatted. Follow the procedure below to format a new disk or erase the contents of a recorded disk.

FLOPPY DISK FORMAT

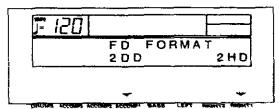
- This procedure clears the entire contents of the disk.
- Reformat a disk if it cannot be saved to or loaded from properly because of exposure to a magnetic field.
- You can use 3.5 inch 2DD (720KB) or 2HD (1.44MB) floppy disks.
- Be sure to specify the type of format which is suitable for the disk.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



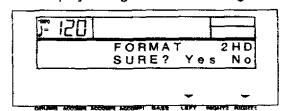
- Although 2HD floppy disks can hold more data and are convenient for quick loading and saving, 2DD disks are generally used for musical instruments. Therefore, you may not be able to use your 2HD disk data with other musical instrument models.
- To format the floppy disk, the write-protect window must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



- 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 [P4 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

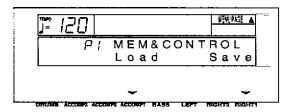
The recorded data and panel settings of this instrument can be saved on a disk.

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

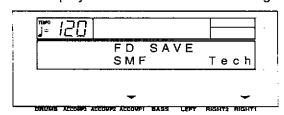
DISK SAVE

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.



4. Select the type of data save you want.

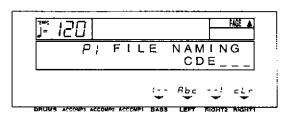
[Tech]: Save data in the Technics File format (TECHNICS SAVE).

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

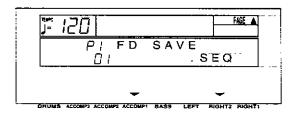
5. Perform the selected disk save procedure. (Refer to the following sections.)

■ 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.
- 2. Press the EXECUTE button.
- · The display looks similar to the following.

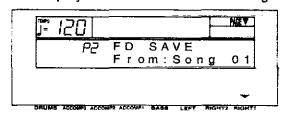


- 3. Use the ACCOMP 1 ∧ and ∨ buttons to select a file number (01 to 20).
- Files in which data is currently stored are indicated by the file name following the file number.
- The maximum number of files which can be saved may be less than 20 if you are saving many songs which use a lot of memory.
- · More data can be saved using 2HD floppy disk.

 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 PNL: Only PANEL MEMORY data

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

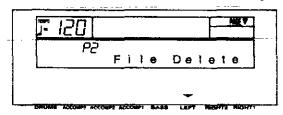


- Use the RIGHT 1 ∧ and ∨ buttons to select the song number in this instrument's memories you wish to have saved to the floppy disk.
- SEQUENCER data is saved one song at a time. However, if ALL is selected, the contents of SEQUENCER songs 1 to 10 are saved at once. In this case, you can conserve memory by deleting songs you do not wish to save.
- 6. Press the EXECUTE 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.

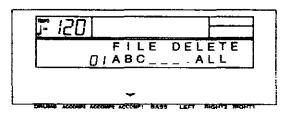
FILE delete

Use the following procedure to clear a specific file.

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



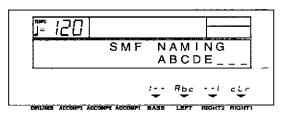
- 2. Press either LEFT button.
- The display looks similar to the following.



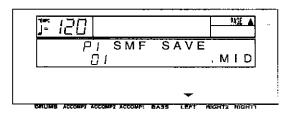
- Use the ACCOMP 1 ∧ and ∨ buttons to specify the file to erase.
- 4. Press the EXECUTE button.
- The ARE YOU SURE? display appears. Press either LEFT (Yes) button to execute the function. Or press either RIGHT 1 (No) button if you wish to cancel the procedure.

■ 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.

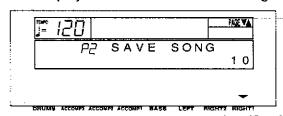


- What you can save in the Standard MIDI File format is ordinary performance data, such as note data. Data such as SEQUENCER data for the chord and rhythm parts, COMPOSER data, PANEL MEMORY data, etc. is not saved. If you wish to also save the special Technics data, first use the TECHNICS SAVE procedure 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 button.
- · The display looks similar to the following.

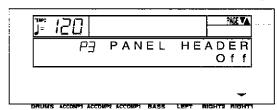


- 3. Use the LEFT ∧ and ∨ buttons to select the name of the file in which to save the data.
- · To save in a new file, select a blank line.

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



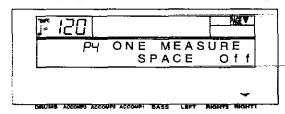
- 5. Use the RIGHT 1 \(\times\) and \(\times\) buttons to select the song number in this instrument's memories you wish to have saved to the floppy disk.
- Data is saved one song at a time.
- 6. Press the PAGE ∧ button.
- · The display looks similar to the following.



- 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 \wedge button.
- · The display looks similar to the following.

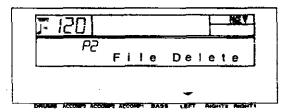


- 9. Use the RIGHT 1 ∧ and ∨ buttons to select ONE MEASURE SPACE On/Off.
- When there is various data other than performance data stored at the beginning of a file, the start of playback may be delayed. This can be avoided by inserting a one-measure space before the beginning of the performance. Select 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 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.

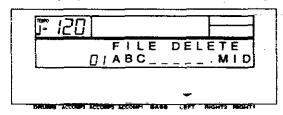
FILE delete

Use the following procedure to clear a specific file.

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



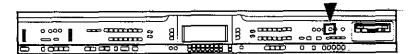
- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to specify the file to erase.
- 4. Press the EXECUTE 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 VI Adjusting the sounds

Outline of the Sound Setting mode



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

80UND menu

1. 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.

■ 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.

 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 88)

Set the various sound attributes for each part.

P2 Touch & Tune (page 89)

Set the keyboard sensitivity, and adjust the tuning.

P3 Key Scaling (page 90) Select the type of scaling (tuning).

P4 Left Hold (page 91)

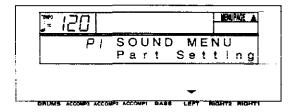
Set the mode which determines how the LEFT part sounds during an AUTO PLAY CHORD performance.

- [P5 Techni-Chord] is explained on page 34.
- [P6 Reverb] is explained on page 31.
- [P7 Chorus] is explained on page 30.

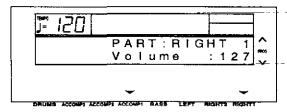
Part Setting

Set the various sound attributes for each part.

- 1. 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 41.
- 4. Assign a sound to the selected part.
- During setting, 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 and DRUMS 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: Adjust the depth of the chorus for the part (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 (On/Off).

For glide pedal setting, refer to page 48.

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

The sustain function works in conjunction with the SUSTAIN PEDAL button.

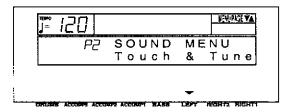
Key Scale: Enable or disable key scaling (On/Off)

- For key scaling, refer to page 90.
- 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]), 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.

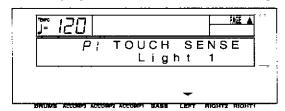
Touch & Tune

Select the keyboard touch response mode (TOUCH SENSE), fine-tune the pitch of the entire instrument (TUNING), and specify whether or not sound is generated when the keys are pressed very softly (MINIMUM RANGE).

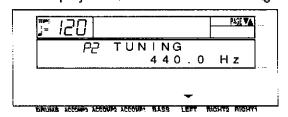
- 1.On the **SOUND** menu display, select [P2 Touch & Tune].
- The display looks similar to the following.



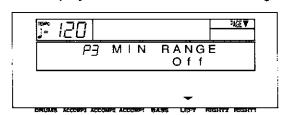
- 2. Press either LEFT button.
- · The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to select the touch mode.
- Select from Heavy 1, 2, Normal, Light 1, 2.
- 4. Press the PAGE ∧ button.
- · The display looks similar to the following.



- 5. Use the LEFT \wedge and \vee 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.
- Press the PAGE ∧ button.
- The display looks similar to the following.

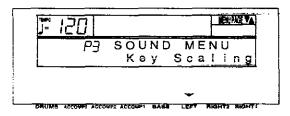


- Use the LEFT ∧ and ∨ buttons to select minimum range On or Off.
- On: No sound is produced when the keys are pressed very softly (acoustic piano type).
- Off: Sound is produced even when the keys are pressed very softly.

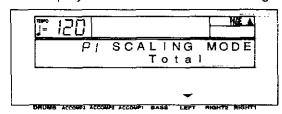
Key Scaling

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.



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



 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.



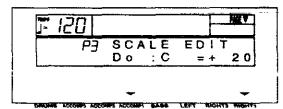
- 5. Use the LEFT ∧ and ∨ buttons to select the type.
- Select from [Off], [Random], [Piano], [Orchestra], [Pythagorean], [Werckmeister], [Kirnberger], [Arabic 1] to [Arabic 5], [Slendro], [Pelog], [User].
- [Off] is standard (equal temperament) tuning.
- Select [User] if you wish to use a customized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

- Use the TRANSPOSE (PROG) ∧ and ∨ 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.

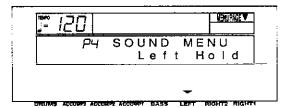


- 3. Adjust the key scaling.
- Use the ACCOMP 1 ∧ and ∨ buttons to specify the keyboard key, and use the RIGHT 1 ∧ and ∨ buttons to adjust the pitch of the key.
- Increments are in cents (one hundredth of an equal-tempered semitone). A + value raises the pitch and a - value lowers the pitch in relation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

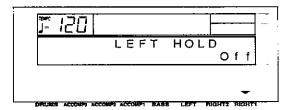
Left Hold

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

	BASIC	ADVANCED	PIANIST	
When rhythm is stopped The specified chord sounds in the CHOR 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

·	BASIC	ADVANCED	PIANIST
When the rhythm is stopped or playing	The specified chord sounds in the LEFT 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).

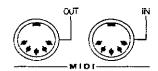
 In the BASIC and ADVANCED modes, you can use the muterfunction to specify whether the LEFT part sounds or not.

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.

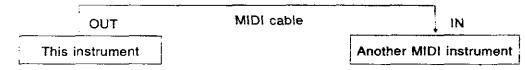
OUT:

The terminal that transmits data from this instrument to other equipment.

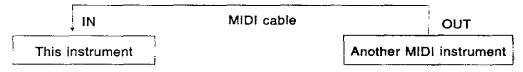
 For these connections, use a commercially available MIDI cable.

Connection examples

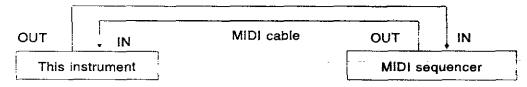
■ To generate sound from a connected instrument by playing this instrument



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



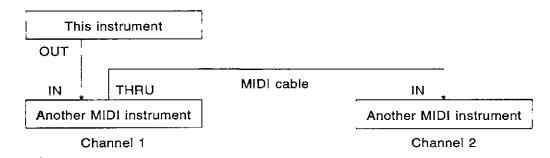
■ To connect with a MIDI sequencer or a personal computer



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.



- When you have finished setting the functions, press the MIDI button to turn it off.
- 2. Use the PAGE buttons to select the menu.
- · There are nine pages of the menu display.
- 3. 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.

Summary of the MIDI menu Items

P1 Channel (page 95)
Assign a MIDI channel to each part.

P2 Part Setting (page 96)

Make the OCTAVE and LOCAL CONTROL settings for each part.

P3 Common Set (page 97)
Set the following functions which are common to all parts.

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

P4 Control Msg (CONTROL MESSAGE) (page 98)

Enable or disable the exchange of various control data.

P5 IN/OUT Set (INPUT/OUTPUT SETTING) (page 99)

Various settings related to transmission and reception of data

P6 Realtime Msg (REALTIME MESSAGE)
(page 100)
Make the REALTIME COMMANDS and

P7 MIDI Presets (page 100)
Optimum MIDI settings according to the connected equipment

P8 GM Mode (page 101) GENERAL MIDI settings

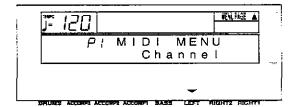
CLOCK settings.

Setting the functions

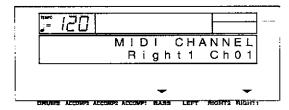
MIDI CHANNEL

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



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



- 3. Use the BASS \wedge and $\stackrel{\cdot}{\vee}$ buttons to select the part.
- 4. 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.

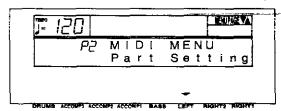
■ Default part settings

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
	· .		l i			P .	

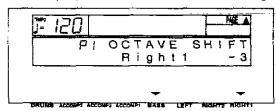
PART SETTING

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).

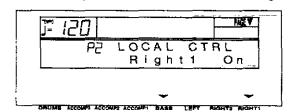
- 1. On the MIDI menu display, select [P2 Part Setting].
- · The display looks similar to the following.



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



- 3. 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.
- 5. 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.

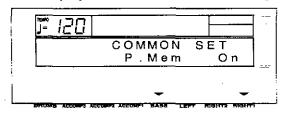
COMMON SETTING

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 ∧ and ∨ buttons to select the item.
- 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).
 - For this setting, the PANEL MEMORY 1 to 5 program change numbers correspond to 0 to 4 setting numbers.
 - [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 ex-

changed.

[Setup Ld] (MIDI SETUP LOAD)

On: When disk data is loaded, the MIDI settings stored on the disk are automatically recalled.

Off: MID1 settings stored on the disk are not recalled.

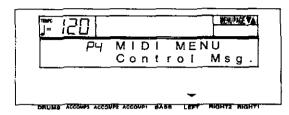
[Intro]: Enable or disable the exchange of intro, fill-in and ending data (On/Off).

- 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 BASIC, ADVANCED 1, 2 and PIANIST modes (On/Off).
- Data is exchanged on the channel for the ACCOMP 1 part.
- Repeat steps 3 and 4 for the other settings as desired.

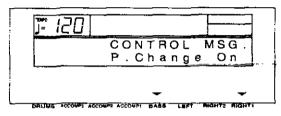
CONTROL MESSAGE

Enable or disable the exchange of various control data.

- 1. On the **MIDI** menu display, select [P4 Control Msq].
- 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 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).
- Use the RIGHT 1 ∧ and ∨ buttons to specify on or off for the control message.

On: Data for the control operation is exchanged.

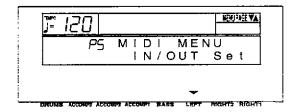
Off: Data for the control operation is not exchanged.

- 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.

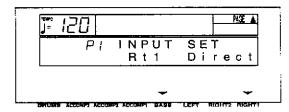
INPUT/OUTPUT SETTING

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.



- Use the BASS ∧ and ∨ buttons to select the item.
- 4. 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 and PLAY STYLE determine 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.

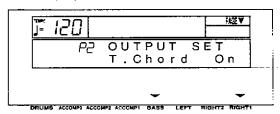
.[APC] (APC INPUT)

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



- 6. Use the BASS ∧ and ∨ buttons to select the output item.
- 7. Use the RIGHT 1 \(\times\) and \(\times\) 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)

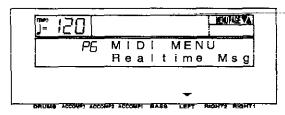
On: The note number of the transposed note is transmitted/received.

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

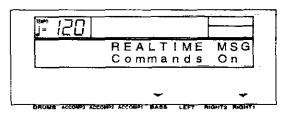
REALTIME MESSAGE

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

- On the MIDI menu display, select [P6 Realtime Msq].
- 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.

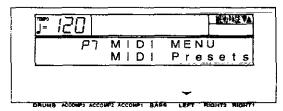
Mid: The clock of the connected equipment is used to control the performance. This instrument's clock is disabled. (The tempo is displayed as [] = --].)

- 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.

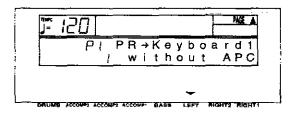
MIDI PRESETS

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.

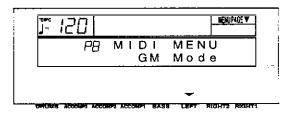


- 3. Use the LEFT ∧ and ∨ buttons to select the connection setup.
- There are two pages to this display. Use the PAGE buttons to change the page.
- The P1 display shows connection setups for when the AUTO PLAY CHORD is not used (without APC). And the P2 display shows connection setups for when the AUTO PLAY CHORD is used (with APC).
- 4. Press the **EXECUTE** 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.

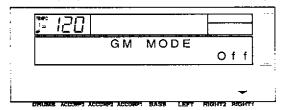
GENERAL MIDI

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.

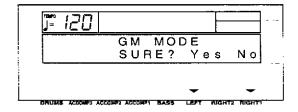
- 1.On the MIDI menu display, select [P8 GM Mode].
- · The display looks similar to the following.



- 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** 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.

Initialize

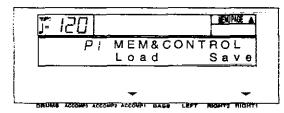
This instrument has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

INITIAL

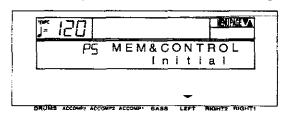
1. Press the MEMORY & CONTROL button to turn it on.



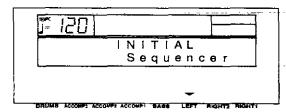
· The display changes to the following.



- 2. Use the PAGE ∧ and ∨ buttons to select [P5 initial].
- · This display looks similar to the following.

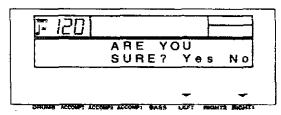


- 3. Press either LEFT button.
- · The display looks similar to the following.



- Use the LEFT ∧ and ∨ buttons to select the desired type of initialization.
- Select from [Total] (includes all the following data), [Composer], [Sequencer], [Part Setting], [MIDI Setting] or [Panel Memory].

- 5. Press the EXECUTE 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
 POWER button once. Then, while pressing the
 three lower left buttons in the RHYTHM
 GROUP section (ROCK, FUNK & FUSION
 and TRAD DANCE) at the same time, turn the
 POWER button on again.
- All the instrument settings may be initialized when the power is turn on, for example, if the effective time of the backup memory has been exceeded.

■ About the backup memory

The settings and memories are maintained for approximately 80 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.

Power on settings

When the **POWER** button of this instrument is turned on, the settings below are automatically set to those suitable for piano performance.

PLAY STYLE: PIANO MODE

Sound: GRAND PIANO

TRANSPOSE: C SUSTAIN PEDAL: On SYNCHRO START: Off MINIMUM RANGE: On

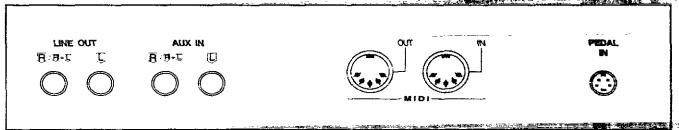
All PART SETTING items for the RIGHT 1 part:

Appropriate values PEDAL SETTING: Left: SOFT

 When you turn the power on, you can recall all the settings which were in effect at the time you turned the instrument off: while depressing the sustain (right) pedal, turn on the power.

Connections

(On the back of the plano)



MIDI

These terminals are for connection to another MIDI instrument. (Refer to page 92.)

PEDAL IN

Connect the included pedal.

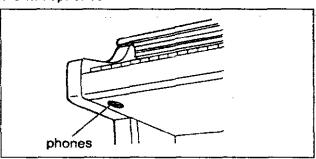
AUX IN (input level 0.5 Vrms, 6 $k\Omega$)

Other instruments such as a rhythm machine or sound module can be connected to the piano so that the sound is output from the piano. To receive monaural sound, connect instruments to the R/R+L terminal.

LINE OUT (output level 1.5 Vrms, 600 Ω) By plugging into a high-power amplifier, the sound can be reproduced at a high volume. (Use the R/R+L terminal when outputting monaural sound.)

phones \times 2 (Beneath the keyboard, on the left side)

For silent practice, headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.



Assembly

Follow the steps below to assemble your Technics plano. Make sure you are using the correct parts and that they are in the correct direction.

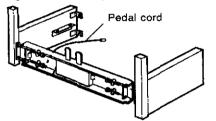
- At least 2 people are required for assembly.
- *To disassemble the piano, reverse the procedure.
- 1. Remove the packing and take the parts out of the carton. Confirm that all the parts on the printed list are present.



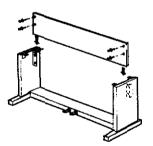
2. The following parts are in the screw kit.

	Brass-colored screws4
	Black screws8
1	Clamps3

3. Affly the right and left side planks to the pedal box.



- (1) Use the 4 brass-colored screws to secure the planks.
- (2) Loosen the pedal cord, stowed on the inner side of the pedal box, and extend it.
- 4. Affix the cross bar.
 - Use 4 black screws to affix the cross bar to the side planks.



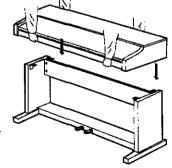
5. Place the piano body on the stand.

WARNING:

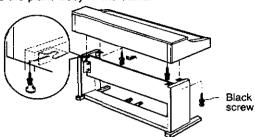
Avoid pinching your fingers.

Holding the piano body at least 10 cm in from the edge, place it on the stand so that it does not fall off.

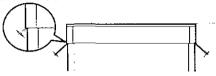
If the piano body is placed too far to the right or left, or to the front or back, it will become unstable.



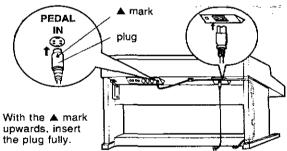
6. Secure the piano body to the stand.



- (1) Insert 2 black screws in the 2 rear screw holes on the underside of the plano body, and turn each screw 5 or 6 times. Push the piano body forward so that the screws are fully inserted in the cutout of the metal piece on either side plank. (This enables you to easily position the piano body on the stand.)
- (2) Adjust the piano body so that the right and left sides project evenly over the stand.



- (3) Positioning the piano body on the stand, confirm that the 4 screws can easily be inserted.
- (4) Tighten the 4 black screws securely.
- 7. Connect the pedal cord and power cord to the terminals.



- (1) Plug the pedal chord and power cord into the terminals on the rear of the piano.
- (2) Remove the backing from the clamps and affix them as shown in the figure. Secure the pedal cord to the clamps.

Confirm: After assembling, check these points.

• Are any parts left over?

- Check the assembly procedure again.
- Does the piano rattle when it is rocked?
 - → Make sure all the screws are securely tightened.
- is the power cord firmly inserted?
 - → Check again.
- Is the plug of the pedal cord inserted as far into the connector terminal as it will go?
 - → If it is not completely inserted, the sustain and other pedal functions may not work.
- When the piano has been moved or transported, retighten the screws securely.

Symptoms which appear to be signs of trouble

The following changes in performance may occur in this instrument but do not indicate trouble.

Phenomenon	Remedy
The buttons, keys, etc. malfunction	 Turn off the POWER button once, then turn it on again. If this procedure is not successful, turn off the POWER button once. Then, while pressing the three lower left buttons in the RHYTHM GROUP section (ROCK, FUNK & FUSION, TRAD DANCE) at the same time, turn the POWER button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.)
No sound is produced when the pressed.	keys are • The MAIN VOLUME is at the minimum setting. Adjust the volume with the MAIN VOLUME control. • The volumes for the selected parts are set to the minimum levels. Use the balance buttons to set the volumes of the relevant parts to appropriate levels. (Refer to page 19.) • The part is muted. (Refer to page 19.) • The local control for a part performed on the keyboard is set to OFF. Set the local control to ON. (Refer to page 96.)
Only percussive instrument so produced when the keyboard is pla	
The volume is very low when the kinds	eyboard is • The volume setting in the SEQUENCER contents is very low. Follow the INITIAL procedure to rese the settings. (Refer to page 102.)
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 101.)
The sound you hear is different from you selected.	the sound • This sometimes occurs when you play back SEQUENCER or COMPOSER data which was created on a different model, or when MIDI data is received from a connected instrument. Select the desired sounds again.
The sustain does not work even sustain pedal is depressed.	when the The sustain pedal is not connected. Connect the pedal cord firmly to the PEDAL IN terminal or the back of the instrument. When the SUSTAIN PEDAL button is off, the sustain does not work even when the pedal is depressed. Turn on the SUSTAIN PEDAL button
The soft pedal does not operate pro example, when the soft pedal is of the rhythm starts or a fill-in is play	depressed, pedal. You can return the pedal to its origina

	Phenomenon	Remedy
Rhythm	The rhythm does not start.	 The RHYTHM VOLUME sliding controller is set to OFF. Set the volume to an appropriate level. The DRUMS volume is set to the minimum level. Use the balance buttons to set the DRUMS volume to an appropriate level. A rhythm in COMPOSER MEMORY with no stored pattern was selected. Select a different rhythm. The PLAY button in the SEQUENCER section is on. When you are not playing back the SEQUENCER performance, turn off the PLAY button. CLOCK is set to MIDI. Set CLOCK to INTERNAL. (Refer to page 100.) 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. (Refer to page 101.)
AUTO PLAY CHORD	accompaniment.	 The RHYTHM VOLUME sliding controller is set to OFF. Set the volume to an appropriate level. A rhythm in COMPOSER MEMORY with no stored pattern was selected. Select a different rhythm. An ACCOMP part does not sound if its
	Storage is not possible.	• The remaining memory capacity of the SEQUENCER is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory. (Refer to page 63.)
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.	• 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 61.)

Phenomenon		Remedy		
COMPOSER	Storage is not possible.	• The remaining memory capacity of the COMPOSER is 0.		
	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 70.) 		
	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 73.) 		
	The Disk Drive produces a noise during recording or playback.	 This occurs when the Disk Drive is reading a disk. It does not indicate a problem. 		
Disk Drive	When the procedure to load from a disk is performed, the contents of this instrument's memory are erased.	is • When performing the load operation from a disk, this instrument's memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in this instrument's memory, save it on a disk before performing the load procedure. (Refer to page 83)		
Other	Noise from a radio or TV can be heard.	 This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument. The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center. 		
	The cabinet becomes warm during use.	This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.		

Error messages

	Display	Contents
00	WRONG DISK!	The data on the disk that you are using is for a different product.
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.
03	FILE EMPTY!	The file that you tried to load is empty.
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.
06	DISK FULL!	The disk that you are using is full. Please use another disk.
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.
80	DATA IS COPY PROTECTED!	The data on this disk is copy protected.
09	ALREADY COPY PROTECTED!	The data on this disk is already copy protected.
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.
14	TIME SIG MISMATCHI	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.
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.
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 SEQUENCER memory has been cleared.
22	"ALL" OPTION ONLY AVAIL	To load data which was saved on an older model Technics instrument, set the load option to "ALL".
23	NO SEQUENCER DATA!	There is no data in the SEQUENCER.
24	SMF CONVERT ERROR!	An error occurred in the SMF conversion.
25	NOT STANDARD MIDI FILE!	This disk is not in the Standard MIDI File data format.
26	SMF CONVERT ERROR!	SMF conversion is possible only for files with a time base (PPQ resolution) of 24/48/96/192/288/384.

	Display	Contents
27	SMF FORMAT ERROR!	FORMAT 2, 3, 4 SMF data cannot be used.
28	RHYTHM & CHORD ONLY!	Step record can be activated only for tracks to which the RHYTHM or CHORD part has been assigned.
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 MISMATCHI	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.
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 SEQUENCER 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.
34	THIS FILE IS SMF FORMAT1!	This is an SMF FORMAT 1 file. Direct Play and Sequencer Medley are not available for this file.
36	RKB/LKB: REC IMPOSSIBLE!	RKB and LKB are special tracks for compatibility with sequencer data from previous PR products. They cannot be edited or recorded on.
37	RE-ASSIGN RKB/LKB!	RKB and LKB are special tracks which cannot be used in conjunction with RIGHT 1, RIGHT 2, LEFT and APC tracks. Please re-assign RKB and LKB to any other part and try again.
38	NO CHORD TRACK!	[Chord] was selected in the Step record mode of the SEQUENCER, 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 SEQUENCER, but there is no track to which the [Rhythm] part has been assigned.

Index

A	Н
ADVANCED 1, 2 40	Headphones104
APC CONTROL, MIDI97	
AUTO PLAY CHORD	
AUTO PLAY CHORD INPUT, MIDI99	INITIAL102
AUTO PLAY CHORD OUTPUT, MIDI	INPUT/OUTPUT SETTING, MIDI99
AUX IN	INST ERASE73
	INTRO & ENDING37
В	INTRO, MIDI97
Backup memory	
BALANCE 19	K
BASIC CHANNEL, MIDI95	KEY SCALING90
BEAT36	KEY SHIFT88
DEAT	KEYBOARD PERC
	KEYBOARD SPLIT
	RETBUARD SPLIT
CHORUS	i
CLOCK, MIDI	. L
COMMON SETTING, MIDI	LEFT HOLD91
COMPOSER	LEFT SELECT27
COMPOSER CHORD MAP74	LINE OUT104
COMPOSER COPY	LOAD SINGLE COMPOSER PATTERN80
CONDUCTOR	LOCAL CONTROL, MIDI96
Connections 104	N 4
CONTRAST	M
CONTROL MESSAGE, MIDI	MAIN VOLUME8
COUNT INTRO	MASTER TUNING
	MEASURE & TIME SIGNATURE71
U	MEMORY & CONTROL77
DEMO	MENU21
DIGITAL EFFECT 30	METRONOME36
DIGITAL REVERB31	MIDI92
DIRECT PLAY81	MIDI PRESETS100
Disk Drive	MIDI SETUP LOAD97
DISK LOAD78	Music stand8
DISK SAVE 83	MUSIC STYLE SELECT44
Display 19	MUSIC STYLE ARRANGER45
DISPLAY HOLD	MUTE19
DRUMS OUTPUT, MIDI	
DRUMS TYPE, MIDI	N
r	NOTE ONLY, MIDI
Ε	
EASY RECORD 52	0
EDIT, SEQUENCER	OCTAVE SHIFT, MIDI96
ENDING 38	ON BASS40
Error messages109	ONE FINGER39.
EXIT22	ONE TOUCH PLAY43
	OTHER PARTS/TRACKS20
F	
FILL IN	Р
FINGERED 39	PAGE2020
FLOPPY DISK FORMAT 82	PAN
!	PANEL MEMORY
G	PART SETTING
GENERAL MIDI (GM)	Pedal29
GLIDE	PEDAL SETTING48
GLIDE	PIANIST40
	FIMNOT40

PIANO MODE	25
PIANO STYLIST	42
PITCH BEND RANGE	88
PLAY STYLE	24
POWER	
PROGRAM CHANGE MODE, MIDI	97
Q	
QUANTIZE, COMPOSER	73
QUANTIZE, SEQUENCER	ē.ī
GOANTIZE, SEQUENCER	V -T
R	
= • • • • • • • • • • • • • • • • • • •	
REALTIME COMMANDS, MIDI	
REALTIME RECORD	
RHYTHM GROUP	
RHYTHM VOLUME	
RIGHT 1 INPUT, MIDI	99
S	
SET	46
SEQUENCER	
SEQUENCER EDIT	-
SEQUENCER MEDLEY	
SEQUENCER PLAY	
SEQUENCER RESET	
SMF LOAD	
SMF SAVE	
SONG CLEAR	
SONG SELECT/NAME	
SOUND GROUP	
Specifications	
SPLIT POINT	
START/STOP	
STEP RECORD: CHORD	-
STEP RECORD: RHYTHM	
SUSTAIN PEDAL	
SYNCHRO START	36
Ψ	
Т	
TAP TEMPO	37
TECHNI-CHORD	
TECHNI-CHORD OUTPUT, MIDI	99
TECHNI-CHORD TYPE	34
TEMPO	36
TOUCH & TUNE	89
TRACK ASSIGN	62
TRACK CLEAR	64
TRANSPOSE	32
Troubleshooting	106
TUNING	89
V	
VARIATION & MSA	35
VOLUME	
Volume belower	40

Specifications

	SX-PR500/SX-PR500M	
KEYBOARD	88 KEYS	
SOUND GENERATOR	PCM	
MAXIMUM NUMBER OF NOTES PRODUCED SIMULTANEOUSLY	32 NOTES	
PLAY STYLE	PIANO MODE, KEYBOARD SPLIT, AUTO PLAY CHORD	
PIANO	4 SOUNDS: GRAND, UPRIGHT, ELECTRIC, MODERN	
SOUND GROUP	181 SOUNDS GROUP: PIANO & E PIANO, HARPSI & MALLET, GUITAR, SPECIAL PERC, STRINGS & VOCAL, ORGAN & ACCORDION, BRASS, SAX & REED, FLUTE, SYNTH LEAD, BASS, SYNTH PAD, KEYBOARD PERC, PERC & EFFECT	
CONDUCTOR	RIGHT 1, RIGHT 2, LEFT SELECT	
PEDAL	SUSTAIN, SOFT	
DIGITAL EFFECT	. 0	
CHORUS	0	
DIGITAL REVERB	0	
TRANSPOSE	G-C-F‡	
RHYTHMS	128 RHYTHMS × 4 VARIATIONS GROUP: 8 BEAT, ROCK, 16 BEAT, FUNK & FUSION, SOUL & DISCO, TRAD DANCE, BIG BAND & SWING, JAZZ COMBO, COUNTRY, U.S.TRAD, SHOW TIME, MARCH & WALTZ, LATIN 1, LATIN 2	
METRONOME	0	
CONTROLS	MAIN VOLUME, RHYTHM VOLUME, BALANCE/MUTE, START/STOP, INTRO & ENDING 1, INTRO & ENDING 2, FILL IN 1, FILL IN 2, COUNT INTRO, SYNCHRO START, TEMPO, TAP TEMPO, SPLIT POINT, EXECUTE, SOUND SELECT, RHYTHM SELECT	
AUTO PLAY CHORD	BASIC, ADVANCED 1, ADVANCED 2, PIANIST, ON BASS, MUSIC STYLE ARRANGER	
ONE TOUCH PLAY	○ (ONE TOUCH PLAY/MUSIC STYLE SELECT)	
PIANO STYLIST	0	
TECHNI-CHORD		
PANEL MEMORY	1-5, SET	
SEQUENCER	16 TRACKS RESOLUTION: 96 PULSES PER QUARTER-NOTE STORAGE CAPACITY: APPROX.30000 NOTES (10 SONGS MAX.) INPUT MODES: EASY RECORD, REALTIME RECORD, STEP RECORD (CHORD, RHYTHM) FUNCTIONS: TRACK ASSIGN, EDIT, SONG SELECT/NAME, MEDLEY	

	SX-PR500/SX-PR500M
COMPOSER	5 PARTS: BASS, ACCOMP 1, ACCOMP 2, ACCOMP 3, DRUMS STORAGE CAPACITY: APPROX.10000 NOTES INPUT MODES: REALTIME RECORD FUNCTIONS: COMPOSER CHORD MAP, MODE SELECT, PATTERN COPY, LOAD SINGLE COMPOSER PATTERN MEMORY: 3 BANKS × 10 (VARIATION 1-4, INTRO 1, 2, FILLIN 1, 2, ENDING 1, 2)
MEMORY & CONTROL	INITIAL, DISK LOAD, DISK SAVE, DIRECT PLAY, MEDLEY, PEDAL SETTING, FLOPPY DISK FORMAT, CONTRAST
SOUND SETTING	PART SETTING, TOUCH & TUNE, KEY SCALING, LEFT HOLD, TECHNI-CHORD, REVERB, CHORUS
MIDI	CHANNEL, CONTROL MESSAGE, PART SETTING REALTIME MESSAGE, COMMON SET, MIDI PRESETS, IN/OUT SET, GM MODE
EXTERNAL MEMORY	BUILT-IN 3.5 inch FLOPPY DISK DRIVE FOR 2HD (1.44 MB), 2DD (720 KB)
DISPLAY	LCD PAGE, BALANCE, EXIT, DISPLAY HOLD, OTHER PARTS/TRACKS
DEMO	0
TERMINALS	PHONES, LINE OUT (R/R+L, L), AUX IN (R/R+L, L), MIDI (IN, OUT), PEDAL IN
OUTPUT	40 W × 2
SPEAKERS	16 cm × 2, 6.5 cm × 2
POWER REQUIREMENT	180 W, 110 W (NORTH AMERICA AND MEXICO)
	AC120/220/240V 50/60 Hz AC120V 60 Hz (NORTH AMERICA AND MEXICO) AC230-240V 50/60 Hz (EUROPE, AUSTRALIA, NEW ZEALAND, SINGAPORE AND PHILIPPINES)
DIMENSIONS (W × H × D)	138.5 cm × 105.1 cm × 61.1 cm (54-17/32" × 41-3/8" × 24-1/16")
NET WEIGHT	57 kg (125.7 lbs.)
ACCESSORIES	STAND, AC CORD, MUSIC STAND

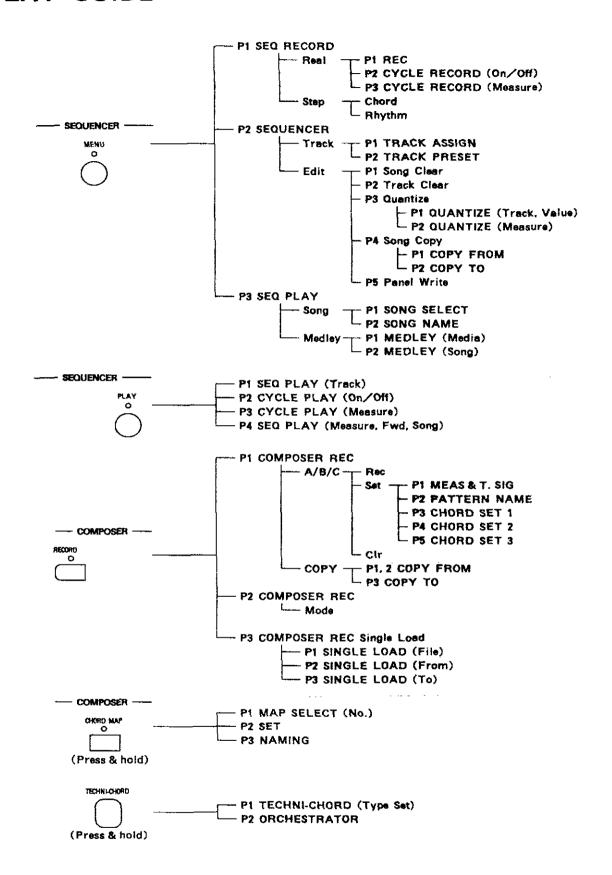
ACCESSORIES STAND, AC CORD, MUSI
 Design and specifications are subject to change without notice.

SX-PR500 REFERENCE GUIDE

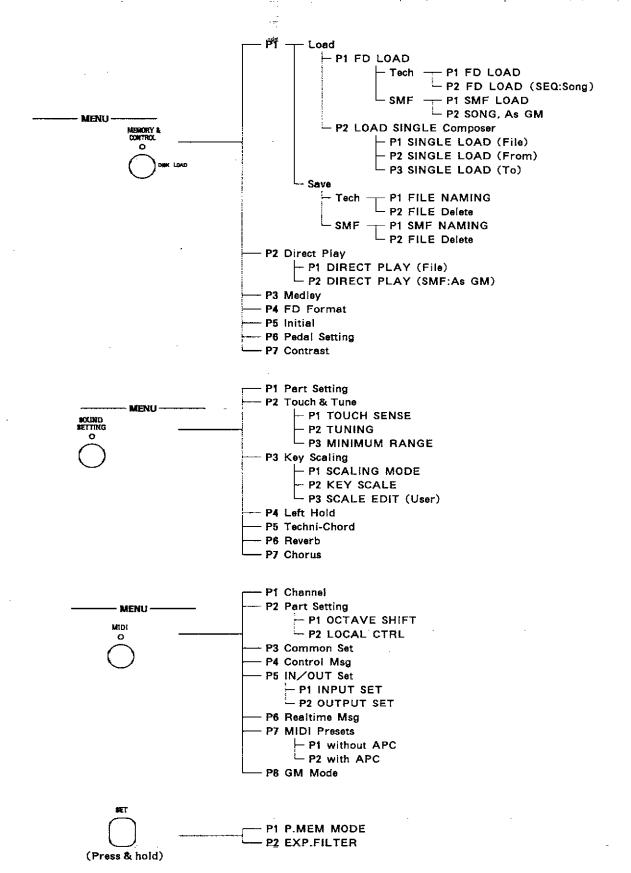
Contents

DISPLAY GUIDE	······2
EASY SETTING	4
■ SOUND ······	5
■RHYTHM ······	8
KEYBOARD PERCUSSION	10
■PIANO STYLIST ······	12
TECHNI-CHORD TYPE	13
■REVERB ·····	13
■CHORUS ······	14
■ MIDI Implementation Chart ······	15
MIDI DATA FORMAT	17
■ Playback of Technics disks ······	27

DISPLAY GUIDE



DISPLAY GUIDE



EASY SETTING (Press & hold)

DIGITAL REVERB O	→REVERB (Type & Set)	RI O	→PANEL MEMORY MODE
CHORUS O	→CHORUS (Type & Set)	TECHHILOHORO	→TECHNI-CHÓRD (Type)
SPLIT POINT	→SPLIT POINT (Set)	MUNIC STYLE ARRANG	→MUSIC STYLE ARRANGER MODE
GRAND	→RESONANCE DEPTH	MEMORY & CONTINUA.	, →FLOPPY DISK LOAD
		MEMORY O Courcement Lond	→FLOPPY DISK LOAD (COMOPOSER)

SOUND

<BUTTON No.>

SOUND GROUP

PIANO A E PIANO GUITAR O O	STRINGS & VOCAL	BRASS O	FLUTE	EASS O	KEYBOARD PERC 'O
[11 12	13	14	15	16	17
HARPSI & SPECIA MALLET PERC O O	DISCAN BE ACCORDION	SAX & REED O	SYNTH LEAD O	SYNTH PAD O	PERC & EFFECT O

0	. 0	0	О		
GRAND	UPRIGHT	ELECTRIC	MODERN		
0	1	2	3		
PIANO					

	equals.	MIDI PROG	RAM CHAN	GE DATA		SOUND	MIDI PROC	RAM CHÂN	GE DATA			
	SOUND	NORM	TECH	GM		200ND	NORM	TECH	GM			
	G	RAND PIANO			UPRIGHT PIANO							
	Grand Piano	0 (0)	0 (0)	1		Upright Piano	2 (32)					
	EL	ECTRIC PIANO)				MODERN PIAN	10				
	E.Piano 1	2 (0)	4 (32)			Modern E.P.1	3 (0)	6 (0)	6			
_	HAI	RPSI & MALLE	T		,	S	PECIAL PERC					
1	Harpsichord	4 (0)	16 (0)	7	1	Hawaiian Gtr 1	5 (0)	31 (48)				
2	Cembalo	4 (1)	18 (0)		2	Hawaiian Gtr 2	5 (1)	31 (0)				
3	Clavi	4 (2)	17 (0)	8	3	Banjo	5 (2)	33 (0)	106			
4	Glockenspiel	4 (3)	9 (0)	10	4	Mandolin	5 (3)	35 (0)				
5	Vibraphone	. 4 (4)	8 (0)	12	5	Harp	5 (4)	32 (0)	47			
6	Vibes & JzGtr	4 (5)	8 (64)		6	Orchestra Hit	5 (5)	127 (16)	56			
7	Marimba	4 (6)	10 (0)	13	7	Timpani	5 (6)	126 (0)	48			
8	Xylophone	4 (7)	11 (0)	14	8	Music Box	5 (7)	7 (0)	11			
9	Celesta	4 (8)	12 (0)	9	9	Koto	5 (8)	37 (0)	108			
10	Steel Drum	4 (9)	15 (0)	115	10	Shamisen	5 (9)	36 (0)	107			
11	Tubular Bells	4 (10)	14 (0)	15	11	Kalimba	5 (10)	39 (0)	109			
12	Tinkle Bell	4 (11)	14 (32)	113	12	Sitar	5 (11)	38 (0)	105			
					13	Dulcimer	5 (12)	38 (16)	16			
	ORG	AN & ACCORDI	ON				SAX & REED	•				
1	Jazz Organ	6 (0)	88 (0)	18	1	Soprano Sax	7 (0)	76 (0)	65			
2	Full Drawbars	6 (1)	89 (0)	17	2	Alto Sax	7 (1)	77 (0)	66			
3	Jazz Drawbars	6 (2)	93 (0)		3	Mellow Alto	7 (2)	77 (16)				
4	16' & 1'	6 (3)	91 (0)		4	Tenor Sax	7 (3)	78 (48)	67			
5	Miw Drawbars	6 (4)	91 (32)		5	Breathy Tenor	7 (4)	78 (16)				
6	Pop Organ	6 (5)	90 (0)		6	Baritone Sax	7 (5)	79 (16)	68			
7	Rock Organ	6 (6)	92 (32)	19	7	Jz Clarinet 1	7 (6)	68 (0)	72			
8	Pipe Organ 1	6 (7)	84 (0)	20	8	Jz Clarinet 2	7 (7)	68 (32)				
9	Pipe Organ 2	6 (8)	85 (0)		9	Clas Clarinet	7 (8)	69 (0)				
10	Theatre Organ	6 (9)	87 (32)		10	Oboe	7 (9)	: 66 (0)	69			
11	Harmonium	6 (10)	86 (32)	21	13	English Horn	7 (10)	67 (0)	70			
12	Brt Accordion	6 (11)	80 (0)	22	12	Bassoon	7 (11)	70 (0)	71			
13	Mlw Accordion	6 (12)	81 (0)		13	Harmonica	7 (12)	83 (0)	23			
14	Musette	6 (13)	82 (0)		14	Bagpipe	7 (13)	73 (0)	110			
15	Bandoneon	6 (14)	80 (16)	24	15	Shanai	7 (14)	73 (16)	112			

SOUND

	SOUND	NORM	TECH	NGE DATA		SOUND	NORM	TECH	GE DAT	
-	S	YNTH LEAD			SYNTH PAD					
1	Square Lead	8 (0)	117 (0)	81	1	Miw Ensemble	9 (0)	107 (18)	90	
2	Saw Lead	8 (1)	118 (16)	82	2	Synth Vocal	9 (1)	107 (0)	55	
3	Sine Lead	8 (2)	94 (0)		3	Spacy Pad	9 (2)	107 (32)	92	
4	Air Vox	8 (3)	106 (16)	86	4	Metal Pad	9 (3)	106 (32)	94	
5	Chiffer Lead	8 (4)	117 (32)	84	5	Star Theme	9 (4)	120 (16)	104	
6	Charang	8 (5)	27 (48)	85	6	Bowed Glass	9 (5)	120 (0)	93	
7	5th Wave	8 (6)	119 (0)	87	7	Atmosphere	9 (8)	21 (48)	100	
8	Bass&Lead	8 (7)	46 (32)	88	8	Fantasia	9 (7)	116 (48)	89	
9	Synth Harp	8 (8)	32 (64)		9	Dream	9 (8)	108 (32)	· · · · · · · · · · · · · · · · · · ·	
0	Crystal	8 (9)	9 (32)	99	10	Mist	9 (9)	108 (48)	101	
	·,/,/,/				11	Sweep Pad	9 (10)	62 (32)	96	
					12	Halo Pad	9 (11)	107 (48)	95	
					13	Echo Drops	9 (12)	106 (48)	103	
					14	Poly Synth	9 (13)	102 (32)	91	
	PE	RC & EFFECT					ANO & E.PIAN			
1	Ice Rain	10 (0)	121 (48)	97	1	Bright Plano	11 (0)	1 (0)		
2	Soundtrack	10 (1)	119 (16)	98	2	Mellow Piano	11 (1)	2 (0)	-	
3	Goblins	10 (2)	106 (0)	102	3	Piano 1 Oct	11 (2)	0 (16)		
4	Agogo	10 (3)	122 (0)	114	14	Piano 2 Oct	11 (3)	2 (16)		
; 5	Wood Block	10 (4)	122 (16)	116	5	Rock Plano	11 (4)	3 (32)	• • • • • • • • • • • • • • • • • • • •	
5	Taiko Drum	10 (5)	123 (48)	117	6	Honky Tonk	11 (5)	1 (16)	4	
7	Melodic Tom	10 (8)	122 (32)	118	7	Elect Grand	11 (6)	3 (0)	3	
8	Synth Drum	10 (7)	124 (0)	119	8	Midi Grand	11 (7)	8 (32)		
	*******************************	10 (8)	122 (48)	120	9	E.Pieno 2	11 (8)	5 (0)	·····	
9	Rev Cymbal Fret Noise	10 (8)	124 (16)	121	10	Tremolo EP		4 (84)	5	
· j · ·			124 (32)	122	11					
!!!	Breath Noise	10 (10)			11.	Modern E.P.2	11 (10)	4 (0)		
12	Seashore	10 (11)	124 (48)	123	1					
13	Bird Tweet	10 (12)	125 (32)	124	.					
14	Telephone	10 (13)	123 (0)	125						
15	Helicopter	10 (14)	123 (16)	126	1					
16	Applause	10 (15)	125 (48)	127	-1					
17	Gun Shot	10 (16)	123 (32)	128	╂					
		GUITAR				ŚT	RINGS & VOCA	AL .	_	
1	Classic Gtr	12 (0)	20 (0)		1	Strings	13 (0)	100 (0)	49	
2	Spanish Gtr	12 (1)	20 (16)	25	2	Slow Strings	13 (1)	101 (0)	50	
3	Folk Guitar	12 (2)	22 (0)	26	3	Soft Strings	13 (2)	101 (32)		
4	12 String Gt	12 (3)	23 (0)		4	Oct Strings	13 (3)	102 (0)		
5	Electro Ac Gtr	12 (4)	25 (32)		5	Bass Strings	13 (4)	98 (16)		
6	Jazz Guitar	12 (5)	25 (0)	27	6	Tremolo Str	13 (5)	100 (32)	45	
7	Bright Solid	12 (6)	26 (D)	28	7	Pizzicato Str	13 (6)	99 (0)	46	
8	Mellow Solid	12 (7)	28 (0)		8	Syn String 1	13 (7)	103 (0)	51	
9	Mute Guitar	12 (8)	29 (0)	29	9	Syn String 2	13 (8)	103 (16)	52	
0	Dist Guitar	12 (9)	30 (0)	31	10	Violin	13 (9)	96 (0)	41	
	Overdrive Gtr	12 (10)	27 (32)	30	11	Cntry Fiddle	13 (10)	96 (32)	111	
11	Rock Harmonic	12 (11)	27 (16)	32	12	Viola	13 (11)	97 (32)	42	
2		· · · · · · · · · · · · · · · · · · ·	31 (16)	1	13	Cello	13 (12)	97 (0)	43	
	Country Gtr	12 (12)	31 (10)							
2		12 (12)	31 (10)		14	Bowed Bass	13 (13)	98 (0)	44	
2		12 (12)) 31 (10)		14 15			98 (0) 104 (48)		
2		12 (12)	31 (10)		#	Bowed Bass Vocal Ah Vocal Ooh	13 (13) 13 (14) 13 (15)	· • · · · · · • • • • • • • • • • • • •	44 53	

SOUND

	SOUND	MIDI PROG	RAM CHAN	GE DATA		SOUND	MIDI	PROC	RAM	CHAN	GE DAT		
	200MD	NORM	TECH	GM	NORM TECH						GM		
		BRASS			FLUTE								
1	Bress	14 (0)	56 (0)	62	1	Piccolo	15	(0)	64	(0)	73		
2	Brass & Synth	14 (1)	56 (48)		2	Jazz Flute	15	(1)	65	(0)	74		
3	Octave Brass	14 (2)	56 (16)		3	Clas Flute	15	(2)	65	(16)			
4	Synth Brass 1	14 (3)	60 (0)	63	4	Pan Flute	15	(3)	72	(0)	76		
5	Synth Brass 2	14 (4)	63 (48)		5	Syn Calliope	15	(4)	72	(48)	83		
6	Synth Brass 3	14 (5)	62 (64)	64	6	Recorder	15	(5)	74	(0)	75		
7	Trumpet	14 (6)	48 (0)	57	7	Ocarina	15	(6)	74	(16)	80		
8	Solo Trumpet	14 (7)	48 (64)		8	Blown Bottle	15	(7)	72	(32)	77		
9	Mute Trumpet	14 (8)	50 (0)	60	9	Whistle	15	(8)	111	(0)	79		
10	Flugel Horn	14 (9)	51 (0)		10	Shakuhachi	15	(9)	75	(0)	78		
11	Brt Trombone	14 (10)	52 (0)	58	j								
12	Mlw Trombone	14 (11)	53 (0)										
13	Cisd Fr.Horn	14 (12)	54 (0)										
14	Open Fr.Horn	14 (13)	54 (16)	61									
15	Marching Tuba	14 (14)	55 (16)	59		· · · · · · · · · · · · · · · · · · ·							
		BASS				KE	YBOARE	PER	C	· ·			
1 [Acoustic Bass	16 (0)	43 (0)	33	1	Jazz Kit	17	(0)	241	(0)			
2	Elect Bass	16 (1)	40 (0)		2	Brush Kit	17	(1)	245	(0)			
3	Bright Bess	16 (2)	40 (16)	34	3	Standard Kit	17	(2)	240	(0)			
4	Fretless Bass	16 (3)	40 (32)	36	4	Room Kit	17	(3)	243	(0)			
5	Picked Bass	16 (4)	42 (0)	35	5	Light Rock Kit	17	(4)	254	(0)			
6	Slap Bass 1	16 (5)	41 (0)	37	6	Power Kit	17	(5)	247	(0)			
7	Siap Bass 2	16 (6)	41 (16)	38	7	Soul Kit	17	(6)	249	(0)			
8	Analog Bass	16 (7)	48 (16)		8	Electric Kit	17	(7)	242	(0)			
9	Wow Bass	16 (8)	46 (0)	39	9	Orch Kit	17	(8)	252	(0)			
10	Plastic Bass	16 (9)	46 (80)	40									

[•]The numbers in parentheses () are bank data.

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

RHYTHM

	пнтуни	CHANG	OGRAM E DATA		ян үтнм	MIDI PR CHANGI	DATA				
		NORM	TECH	-		NORM TE					
	RO	CK		FUNK & FUSION							
1	Rock'n' Roll	0 (0)	80 (64)	1	Funk	1 (6)	110 (48)				
2	Piano R&Roll	0 (1)	80 (96)	2	Swingy Funk	1 (1)	65 (32)				
3	Twist	0 (2)	76 (32)	3	Jazz Funk 1	1 (2)	112 (48)				
4	Shuffle R&R	0 (3)	76 (16)	4	Jazz Funk 2	1 (3)	113 (64)				
5	Sfufl Boogle	0 (4)	76 (0)	5	Carib, Rock	1 (4)	118 (49)				
5	Shufi Ballad	0 (5)	78 (32)	8	Jazz Rock 1	1 (5)	113 (96)				
7	Rock Ballad	0 (6)	74 (80)	7	Jazz Rock 2	1 (6)	113 (80)				
8	R&B Ballad	0 (7)	75 (64)	8	Semba Rock 1	1 (7)	116 (48)				
9	Rhythm & Blues	0 (8)	123 (80)	8	Samba Rock 2	1 (8)	117 (18)				
10	Hard Rock	0 (9)	92 (32)	10	Salsa Piano	1 (9)	68 (64)				
	TRAD	DANCE			JAZZ C	ОМВО					
1	Ballroom Fox	2 (0)	29 (16)	1	Jazz Combo	3 (0)	34 (80)				
2	Quick Fox	2 (1)	29 (48)	2	Euro Combo	3 (1)	34 (64)				
3	Euro Fox	2 (2)	29 (32)	3	Jazz Quartet	3 (2)	32 (64)				
4	Paris Ballad	2 (3)	74 (95)	4	Jazz Quintet	3 (3)	34 (96)				
5	Chanson Fox	2 (4)	29 (64)	5	Jazz Balled	3 (4)	44 (16)				
6	Quickstep	2 (5)	28 (16)	6	Lounge Piano	3 (5)	44 (32)				
7	Jive	2 (6)	29 (0)	7	Jazz Trio	3 (6)	32 (80)				
8	Roaring 20's	2 (7)	24 (112)	8	BoogieWoogie	3 (7)	31 (0)				
l			J	8	Modern Jazz	3 (8)	40 (80)				
	U.S.	TRAD	<u> </u>		MARCH						
1	Haweilen	4 (0)	22 (16)	1	US March 2/4	5 (0)	0 (80)				
2	DixiePianist	4 (1)	24 (0)	2	Grmn March 2/4	5 (1)	1 (48)				
3	Dixie Bend	4 (2)	24 (96)	3	US March 6/8	5 (2)	2 (16)				
4	Slow Ragtime	4 (3)	27 (16)	4	Pop March	5 (3)	4 (64)				
5	, Fast Ragtime	4 (4)	27 (0)	5	Polka 2/4	5 (4)	4 (32)				
6	Gospel Shufl	4 (5)	77 (64)	6	Waltz	5 (5)	8 (112)				
7	Gospel Ballad	4 (6)	75 (112)	7	Ballroom 3/4	5 (6)	13 (32)				
8	Gospei 4/4	4 (7)	77 (96)	8	ChansonWaltz	5 (7)	11 (32)				
9	Gospel 3/4	4 (8)	19 (16)	9	Vienna Waltz	5 (8)	9 (32)				
10	Slow Blues	4 (9)	75 (32)				I 1 1				
<u></u> -	···	TIN 2		1	8BE	AT	 				
1	Bessenova 1	6 (0)	48 (0)	1	8Bt Stendard	7 (0)	90 (0)				
2	Bossanova 2	6 (1)	48 (112)	2	8 Beat Rock	7 (1)	90 (112)				
3	Piano Bossa	6 (2)	48 (16)	3	8Bt Balled	7 (2)	91 (32)				
4	Samba	6 (3)	51 (96)	4	8Bt Pop Ballad	7 (3)	91 (64)				
 5	Merengue	6 (4)	67 (16)	5	8 Beet Pop	7 (4)	84 (64)				
6	Tango Piano	6 (5)	53 (80)	6	70's Piano Rock	7 (5)	84 (96)				
7	Tango Argent	6 (6)	53 (48)	7	60's Pop	7 (6)	96 (48)				
8	Tango Europe	6 (7)	53 (64)	8	Pieno Pop	7 (7)	99 (32)				
9	Keroncong	6 (8)	60 (80)			L					
10	Dangdut	6 (9)	60 (64)								

	RHYTHM	MIDI PE CHANG				RHYTHM			ROGRAM E DATA	
		NORM		СН	┨		NO			. CH
	16B	EAT	•			SOUL	& DISCO	•	•	
1	16 Beat 1	8 (0)	96	(96)	1	Soul	9	(0)	81	(32)
2	16 Beat 2	8 (1)	96	(64)	2	8 Beat Soul	9	(1)	87	(16)
3	16Bt Ballad1	8 (2)	99	(16)	3	Soul Shuffle	9	(2)	77	(80)
4	16Bt Ballad2	8 (3)	99	(112)	4	Soul Rock	9	(3)	102	(64)
5	E.P. Ballad	8 (4)	99	(0)	5	Soul Ballad	9	(4)	75	(0)
6	16 PopBallad	8 (5)	107	(80)	6	16 Beat Soul	9	(5)	103	(32)
7	H.Rock Ballad	8 (6)	100	(32)	7	Euro Disco	9	(6)	124	(112)
8	Swing Rock 1	8 (7)	72	(80)	8	Disco Samba	9	(7)	120	(84)
9	Swing Rock 2	8 (8)	72	(64)	9	Dance	9	(8)	124	(96)
					10	House	9	(9)	125	(32)
	BIG BAN	D & SWING				cou	NTRY			
1	Swing Combo	10 (0)	25	(32)	1	Country2step	11	(0)	17	(112)
2	BigBand Fast	10 (1)	36	(64)	2	Country Piano	11	(1)	75	(48)
3	BigBand Mid	10 (2)	38	(80)	3	Country Swing	11	(2)	17	(80)
4	Dance Band	10 (3)	39	(48)	4	Bluegrass	11	(3)	20	(48)
5	BigBand Slow	10 (4)	38	(112)	5	Saloon Bar	11	(4)	21	(16)
6	Orch.Swing	10 (5)	37	(32)	6	Country Pop	11	(5)	85	(48)
7	Jazz Weltz1	10 (6)	46	(48)	7	Country Rock1	11	(6)	85	(64)
8	Jazz Waltz2	10 (7)	46	(64)	8	Country Rock2	11	(7)	85	(32)
9	Swingy Weltz	10 (8)	12	(16)	9	Country Rock3	11	(8)	18	(16)
	show	TIME				LA	TIN 1			•
1 }	Broadway Show	12 (0)	15	(32)	11	Rhumba	13	(0)	58	(64)
2	Hollywood	12 (1)	30	(16)	2	Rumba Pianist	13	(1)	58	(80)
3	Soft Shoe	12 (2)	24	(80)	3	Beguine	13	(2)	59	(32)
4	Cabaret	12 (3)	15	(48)	4	Bolero	13	(3)	58	(32)
5	Vagas Pianist	12 (4)	74	(112)	5	Cha Cha	13	(4)	57	(48)
6	Broadway Strd	12 (5)	30	(32)	6	Mambo	13	(5)	56	(64)
7	PianoShowman	12 (6)	28	(32)	7 [Modern Membo	13	(6)	56	(32)
					8	Carib	13	(7)	118	(64)
					9	Swing Reggae	13	(8)	71	(32)
				<u>,</u>	10	Modern Reggae	13	(9)	71	(48)
	METR	ONOME								
1	Metronome Off	14 (0)	6	(32)	1					
2	Metronome 2/4	14 (1)	6	(48)						
3	Metronome 3/4	14 (2)	7	(0)	The second secon					
4	Metronome 4/4	14 (3)	6	(0)	<u>J</u>					
5	Metronome 5/4	14 (4)	6	(16)						
6	Metronome 6/4	14 (5)	7	(16)						
7	Metronome 6/8	14 (6)	7	(32)	ì					

•The numbers in parentheses () are bank data.

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

KEYBOARD PERCUSSION

		Other kits		NOTE ABER	Orch(Orchestral)kit		NOTE ABER
			NORM	TECH		NORM	TECH
		<u> </u>	-	-	<u> </u>		_
	(C)	Bess Drum	36	35	Orchestral Bass Drum	36	36
	₽`	Rim Shot	37	47	Rim Shot	37	47
	9.	Snere Drum 1	38	38	Orchestral Snare Drum 1	38	38
	6 "	Special Snare Drum	39	31	Castanets	39	55
	Q1	Snere Drum 2	40	32	Orchestral Snare Drum 2	40	32
	A	Floor Tom	41	95	Triangle	41	57
	49	Splash Cymbal	42	24	Cymbal Soft Mallet	42	24
	8	Tom Low	43	41	Ohchestral Tambourine	43	21
	49.	Crash Cymbal Low	44	51	Orchestral Cymbal 1	44	51
	€.	Tom Mid	45	43	Tam-Tam	45	30
	φ.	Crash Cymbal High	45	25	Orchestral Cymbal 2	46	25
	8-	Tom High	47	45	Rattle	47	58
	_ _	Hi Hat Close 1	48	48	Tublar Bells C	48	84
	Ç_2	Hi Hat Close 2	49	49	Tubler Bells C*	49	85
<u> </u>		Hi Hat Open	50	50	Tubiar Bells D	50	86
	12	Ride Bell	51	28	Tubiar Bells D ⁴	51	87
	R	Ride Cymbal	52	52	Tubler Bells E	52	88
	10.	Conga Low	53	53	Tubler Bells F	53	89
	0.	Small Conga Low	54	54	Tubler Bells F'	54	90
	0-	Conga High	55	55	Tublar Bells G	55	91
	0 ~	Small Conga High	56	56	Tublar Bells G'	56	92
	1	Conga Crash	57	57	Tubler Bells A	57	93
	00	Metal Cabasa	58	58	Tublar Bells A'	58	94
	Q	· · · · · · · · · · · · · · · · · · ·	59	99			
	- - 	Timbales Low		 	Tubiar Bells B	59	95
	- 5°G	Timbales High	60	100	Tublar Bells c	60	96
	0	Cowbell Low	61	66	Tublar Bells c*	61	97
	Q.	Cowbell High	62	62	Tublar Bells d	62	98
	CF.	Agogo Low	63	102	Tublar Belis d'	63	99
	GP.	Agogo High	64	101	Timpeni E	64	64
	-€-	Samba Whistle Low	65	65	Timpeni F	65	65
	-40-⊩	Samba Whistle High	66	66	Timpani F*	86	66
	~	Claves	67	67	Timpani G	67	67
<u> </u>	*	Slap	68	68	Timpani G'	68	68
	وم ا	Hand Claps	69	69	Timpani A	69	69
	0	Tambourine	70	74	Timpani A*	70	70
	0	Shaker	71	96	Timpeni B	71	71
	<u></u>	Triangle Mute	72	108	Tîmpenic	72	72
	B	Maracas	73	105	Timpeni c*	73	73
	<i>™.</i>	Triangle Open	74	107	Timpanid	74	74
	Q	Guiro Short	75	77	Timpeni d*	75	75
	*&	Guiro Long	76	76	Timpanie	76	76
	Œ	Orchestral Bass Drum	77	85	Timpani f	77	77
	₽	Orchestral Snare Drum	78	86	Wood Block Low	78	115
	-0-	Orchestral Cymbal	79	87	Wood Block Mid	79	116
	ille:	Wind Chime	80	29	Wood Block High	80	117
		_	1 -	-	-	T -	-
	_	-	1 -	-	-	 -	-
		····		↓			

^{*}Sounds in SEQUENCER and MID! function.

KEYBOARD PERCUSSION

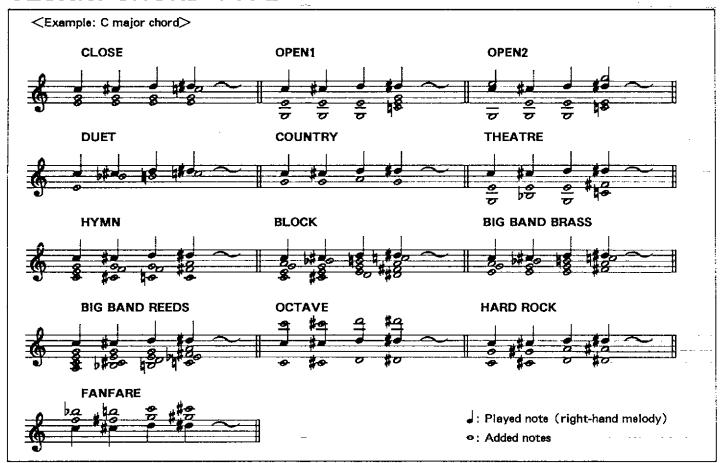
		General MIDI	MIDI NOTE NUMBER
		Bass Drum 2*	35
	Œ	Bass Drum 1	36
	₽`	Rim Shot	37
	9,	Snare Drum 1	38
	Q ==	Hand Claps	39
	6 2	Snare Drum 2	40
	P	Floor Tom Low	41
	49	Hi Hat Close	42
	8.	Floor Tom High	43
	φ.	Hi Hat Pedal	44
	8~	Tom Low	45
	φ.	Hi Hat Open	46
	6 84	Tom Mid	47
1	<u></u>	Tom High 1	48
	⊅_ ²	Crash Cymbal 1	49
	\$	Tom High 2	50
	12	Ride Cymbal 1	51
	a	China Cymbal	52
	O.	Ride Bell	53
	0,	Tambourine	54
	Ö.	Spiash Cymbal	55
	0-	Cowbell	56
	0:	Crash Cymbal 2	57
	æ.	Vibraslap	58
	28°	Ride Cymbal 2	59
	- -	Bongo High	60
	9.	Bongo Low	61
	Q .	Conga Mute Crash	62
	78°.	Conga High	63
	7 6 7 H	Conga Low	64
		Timbales High	65
	- 0	Timbales Low	66
	(f) H		
	×	Agogo High	67
	14¢	Agogo Low Cabasa	68
	6 >		69
	0	Maracas	70
	2	Samba Whistle Short	71
	<u>^- </u>	Samba Whistle Long	72
	Qq.	Guiro Short	73
	* <u></u>	Guiro Long	74
	Ø	Claves	75
	82	Wood Block Mid	76
	<u>@</u>	Wood Block Low	77
	-	Cuica High	78
	⊕	Cuica Low	79
	fillur.	Triangle Mute	80
	_	Triangle Open*	81
		Shaker *	82
	_ [_	Sleigh Bell *	83

^{*} Sounds in SEQUENCER and MIDI function.

PIANO STYLIST

Rock & Pop	Jazz	Regtime
Piano R & Roll	Jazz Quintet	Slow Regtime
01 Jerry Lee's	01 Meliow Jazz	01 Syncopation
02 Let's Rock	02 Plano & Bass	02 Piano Rag
03 50's Bend	03 Sheer Class	03 Entertainer
04 Up To Date	04 Good Vibes	04 The Stingl
70's Piano Rock	Jazz Trio	Fast Ragtime
05 Crec Rock	05 Oscar's Way	05 Joplin Mood
06 Elton's Rock	06 Peterson 3	06 Maple Leaf
07 To The 70's	07 Hot Chops	07 Up Tempo Reg
08 Reptilian	08 Unison Licks	06 River Boat
Piano Pop	Jazz Waltz	Dixie Pianist
09 Ballade Pour	09 Waltz For ?	09 Old Upright
10 Clayder Piano	10 Evans Mood	10 Speak Easy
11 French Piano	11 Bill's Jazz	11 Old Jangler
12 Many Octaves	12 Bass Solo	12 Put Another ?
Rock'n' Roll		Roaring 20's
13 Domino Piano		13 Boop De Boop
14 Cruisin' Keys		14 Charleston!
15 Fat Octaves		15 20's Club
16 Break Down		16 Chicago Joe
Country	Gospei / Blues	EZ Listening
Country Piano	Gospel Ballad	Lounge Piano
01 South Grace	01 On Sunday	0t Lete Night
02 Floyd's Song	02 Inspiration!	02 One For My
03 Cramer Mood	03 Congregation	03 in The Lobby
04 Partners	04 Sing Praises	D4 Last Cell
Country Pop	Soul Balld	Quick Fox
05 Top Of The ?	05 On Your Mind	05 Cocktails
06 Karen's Way	06 Ray's Ballad	06 High Society
07 Wood Carvers	07 Georgia Road	07 Laid Back
08 Singin Along	08 Soul Chords	08 Hotel Combo
Saloon Bar	Slow Blues	Veges Pianist
09 Bar Pianist	09 The Stripper	09 Lee in Vegas
10 Silent Movie	10 Feelin' Blue	10 Cabaret Star
11 Way Out West	11 Down & Dirty	11 On The Strip
12 Stage Coach!	12 Just Woke Up	12 Casino Time
	Boogie Woogie	E.P. Ballad
	13 Just Boogie	13 Billy J.
	14 Jive Time	14 Just The Way
	15 Walkin' Hands	15 Up Town E.P.
	16 Don't Fret	16 Solo Romance
Showtime		Letin
Broadway Stride	Selsa Piano	Piano Bossa
01 Grand Evening	01 Salsa Sauce	09 Mellow Jobirn
02 Break A Legi	02 Hot Octaves	10 Light Latin
03 Curtain Call	03 Cuban Spice	11 Bossa 88
04 Star Artist	04 Picantel	12 Old Suitcase
Piano Showman	Rhumba Pianist	Tango Piano
05 By The Left	05 Spanish Keys	13 Close Dance
06 Piano Show	06 Cope Octaves	14 Buenos Oct
07 Piano Band	07 Cavelleros	15 Argenpiano
o, . 19110 -9114	O, OMEQUIO	in all Anibiana

TECHNI-CHORD TYPE



REVERB

Room 1, 2	Reverberations sound as if produced in a room (indoors).	Volume	0 — 99
Plate 1, 2	A type of reverberation obtained from a reverb unit which utilizes the vibrations of a metal plate.	Volume	0 — 99
Concert 1, 2	Reverberations sound as if produced in a concert hall.	Volume	0 - 99

Volume

: Volume of the reverb.

CHORUS

Chorus	A natural fullness and richness is achieved by adding a sound of a slightly different pitch to the original sound.	Volume Depth LFO Spd	0 99 0 99
Volume Depth LFO Spd	: Volume of the sound to the effect is applied. : Depth of the effect. : Transmission frequency of the LFO (low frequency osci	illator) modulator.	
Mod Chor (MODULATED) CHORUS	A differently modulated chorus in which the swell is emphasized.	Volume Depth Slow LFO Fast LFO	0 - 99 0 - 99 0 - 99
Slow LFO Fast LFO	: Speed of the Slow LFO. : Balance of the Fast LFO.		planted Aleman handles
Celeste	A Beautiful wide effect of many instruments playing in unison.	Volume Depth LFO Spd	0 99 0 99 0 90
ModCeles (MODULATED) CELESTE	A differently modulated celeste in which the swell is emphasized.	Volume Depth Slow LFO Fest LFO	0 99 0 99 0 99
Flanger	An undulation is added, giving an intensity to sounds having many overtones (harmonics).	Volume LFO Spd Resonanc Manual	0 99 0 99 99 +- 99 0 99
Resonanc Manual	: Feedback volume (inverted when a minus value). : Center frequency to whitch the effect is applied.		
Vibrato	Modulates frequency in a vibrato pattern.	Volume Depth LFO Spd	0 - 99 0 - 99 0 - 90

MIDI Implementation Chart

Digital Ensemble [SX-PR500]

(Transmitted)

Fu	Inction	RIGHT1,2,LEFT, PART4~15	PART16	ACMP1	ACMP2,3	BASS	DRUMS	CHORD	CONTROL	Remarks
Basic	Default	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	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
Mode	Messages	×	×	×	×	×	×	×	×	
	Altered	-	-	_	_	_	_	_	_	
Note		0-119	0-119	0-119	0-119	0-119	0-119	0-119	_	Changes depending on the position of the transpose
Number	True voice		_	_	-	_	_	_	_	control, octave shift, and drums type.
	Note ON	0	0	0	0	0	0	0	_	<u> </u>
Velocity	Note OFF	×	×	×	×	×	×	×	_	
After	Key's	×	×	×	×	×	×	×		Transmitted during
Touch	Ch's	O×*	×	×	×	×	×	×	<u> </u>	SEQUENCER playback.
Pitch Bend		O×*	×	O×.	oו	Oו	×	O×-	×	Transmitted during SEQUENCER play back and during thythm performance.
Control Change Prog Change System ex		00000000000000000000000000000000000000	Ox. Ox. Ox. Ox. Ox. Ox.	Ox. Ox. Ox. Ox. Ox. Ox. Ox. Ox.	Ox. Ox. Ox. Ox. Ox. Ox. Ox. Ox.	Ox. × × × × × × × × × × × × ×	Ox. X OX. X X X X X X	Ox. Ox. Ox. X	× × × × × × × × × × × × × × × × × × ×	bank select MSB, LSB modulation data entry MSB, LSB volume panpot expression sustain sostenuto soft auto play chord intro, fill in, ending reverb Chorus digital effect RPN LSB, MSB all sound off reset all cotrollers Changes depending on program change mode and prog.cng to p.mem. General MIDI on/off, tempo
System	Song Pos				0×*					
common	Song Sel			(O×* (0-19	∌)				
	Tune				×					
System	Clock									
rieal i ime	Commands		T		O×*		·	•	•	start/stop,continue
	Locel ON / OFF	×	× ×	×	×	×	×	×	_	
Aux	All notes OFF	×	×	×	×	×	×	<u> </u>		
Messages					0					;
	Reset				×					\$1.00
Notes		O×*V	Vhether or	not the	data for e	ach of the	ese items	is transm	itted can	be set.

Mode 1:

OMNI ON, POLY

Mode 2:

OMNI ON, MONO

O:Yes

Mode 3:

OMNI OFF, POLY

Mode 4:

OMNI OFF, MONO

×:No

MIDI Implementation Chart

Digital Ensemble [SX-PR500]

(Recognized)

Fu	nction	RIGHT1,2,LEFT, PART4~15	PART18	ACMP1	ACMP2,3	BASS	DRUMS	CHORD	CONTROL	Remarks
Basic	Default	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	memorized
hannel	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
fode	Messages	×	×	×	×	×	×	×	×	
	Altered		_	_	_	_	_	_	_	
lote		0-127	0-127	0-127	0-127	0-127	0-127	0-127	-	Changes depending on the position of the transpose
lumber	True voice	0-127	0-127	0-127	0-127	0-127	0-127	0-127	-	control octave shift, and drums type.
_	Note ON	0	0	0	0	0	0	0	_	
elocity	Note OFF	×	×	×	×	×	×	×	_	
fter	Key's	×	×	×	×	×	×	×		
Touch	Ch's	oו	×	×	\	×	×	×	_	
itch Ben	d	Ox.	×	O×*	Ox.	Oו	×	ox.	×	
	0,32	0×*	o×.	Ox.	Oxt	O×*	o×.	O×.	×	bank select MSB, LSB
	1	٥×٠	×	O×.	Ö×*	Ox.	×	٥×٠	×	modulation
	6,38 7	O×*	o×.	o×.	ox.	oו	ox.	ox.	×	data entry MSB, LSB volume
	10	ŏ×*	×	Öx.	Ŏ×.	٥×٠) ×) ×	×	panpot
	11	Ox.	Ox.	×	×	X	×	×	×	expression
\ .	64 66	O×*	×	Ox.	ox.	ox.	×	×	×	sustain sostenuto
Control	67	ŏ	×	×	×	×	×	×	×	soft
Change	80	×	X	Ox.	×	×	X	×	×	auto play chord
	82 91	o×.	o×.	ox.	ox.	ox-	Ox.	Ox.	O×.	intro, fill in, ending reverb
	93	٥×٠	o×.	×	×	×	×	×	×	Chorus
	94	ox.	×	Ox.	Ox.	Ox*	X	Ox.	×	digital effect
	100,101 120	ox,	l . ŏ	ŏ	ŏ	o O	ŏ	ŏ	×	RPN LSB, MSB
	121	o×.	oו	O×.	ox.	ox.	O×.	Ox.	×	reset all cotrollers
тоg		ox.	Ox.	Ox.	Ox.	Ox.	Ox-	Ox.	×	Changes depending on program change mode
Change	True #	0-127	0-127	0-127	0-127	0-127	0-127	0-127		and prog.cng to p.men
System e	kciusi ve				0					General MIDI on / off, tempo
	Song Pos				Ox.			"		
System common	Song Sel			(O×* (0-1	9)				
	Tune				×					
System	Clock				0					
Real Time	• Commands				Ox•					start/stop,continue
	Local ON / OFF	×	×	×	×	×	×	×	_	
Aux	All notes OFF	0	0	0	0	0	0	0		
Viessages	Active Sense				0					
	Reset				x					<u> </u>
Notes		O×*v	Whether o	r not the	deta for e	ach of th	esø items	is receive	d can be :	set

Mode 1:

OMNI ON, POLY

Mode 2:

OMNI ON, MONO

O:Yes

Mode 3:

OMNI OFF, POLY

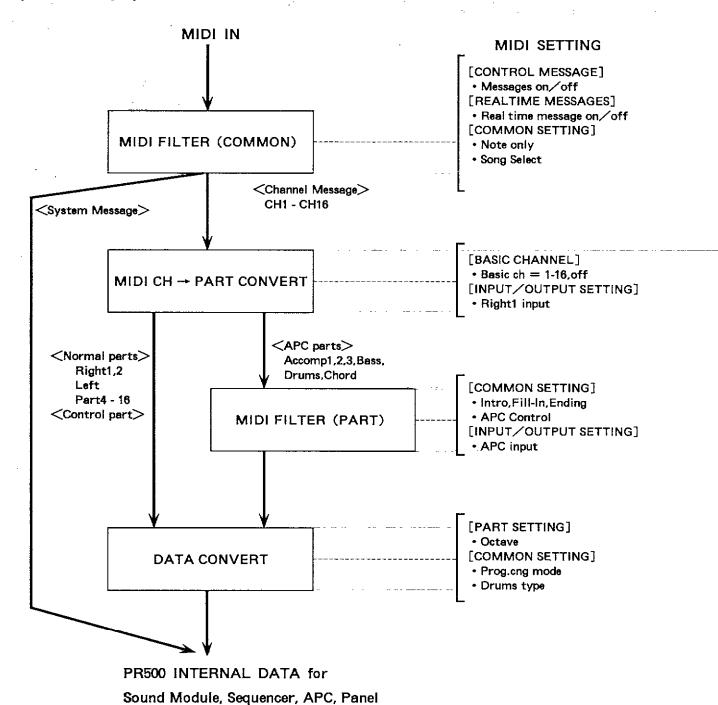
Mode 4:

OMNI OFF, MONO

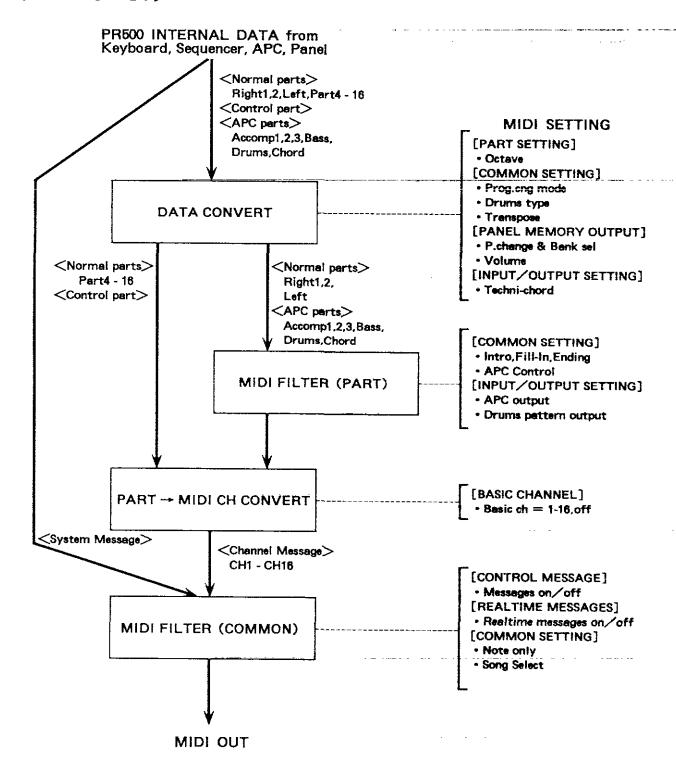
X:No

MIDI DATA FORMAT MIDI DATA FLOWCHART

<MIDI INPUT>



<MIDI OUTPUT>



Message format

Channel voice message

Note off

umber	
ty	
į	.y

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
ΨV	Velocity

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

Control change

Bank select

Control change status
Bank select (MSB)
Bank select value (MSB)
Control change status
Bank select (LSB)
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.

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

Modulation

BnH	Control change status
01H	Modulation
vv	Modulation depth value

n: 0-F Basic channel

▼v: 00H-7FH

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

Data entry

		<u> </u>
	BnH	Control change status
	0 6 H	Data entry (MSB)
i	mm	Data entry value (MSB)
	(BnH)	Control change status
	26H	Data entry (LSB)
	11	Data entry value (LSB)
	l	·

n: 0-F Basic channel

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

Volume

BnH	Control change status
07H	Part volume
vv	Part volume value

n: 0-F Basic channel

vv: 00H-7FH

Panpot

BnH	Control change status
0AH	Panpot
vv	Panpot value

n: 0-F Basic channel

vv: 00H-7FH

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

Expression

BnH	Control change status	
0BH	Expression	
vv	Expression value	

n: 0-F Basic channel

vv: 00H-7FH

Sustain

BnH	Control change status	
40H	Sustain	
vv	Sustain on/off	

: 0-F Basic channel

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

•Transmitted data is indicated by parentheses().

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

Sostenuto

BnH	Control change status
42H	Sostenuto
٧v	Sostenuto on/off

n: 0-F Basic channel vv: 00H-3FH (00H) Off 40H-7FH (7FH) On

•Transmitted data is indicated by parentheses().

Soft pedal

BnH	Control change status
43H	Soft
vv	Soft on/off

n: 0-F Basic channel vv: 00H-3FH (00H) Off 40H-7FH (7FH) On

•Transmitted data is indicated by parentheses () .

Auto Play Chord

BnH	Control change status
50H	APC message
vv	APC message value

n: 0-F Basic channel
vv: 00H = Off
01H = ADVANCED1
02H = BASIC
03H = PIANIST
04H = ADVANCED2

 Transmitted / received on the basic channel for the ACCOMP 1 part.

Rhythm control

BnH	Control change status
52 H	Rhythm control message
vv	Rhythm control data

0-FBasic channel n: 00H = off vv: 01H = FILL IN 1 02H =ENDING 1 03H =INTRO105H = FILL IN 2 06H = ENDING 2 = COUNT INTRO 07H 0BH =INTRO 2

•Transmitted / received on the basic channel for the DRUMS part.

Reverb

BnH	Control change status	
5BH	Reverb	
VV	Reverb on/off	

n: 0-F Basic channel
vv (CONTROL part): 00H-3FH (00H) Off
40H-7FH (7FH) On
vv (Other parts): 00H-7FH

- •Transmitted data is indicated by parentheses().
- •The Reverb for the CONTROL part is the total reverb.

Digital effect

BnH	Control change status	
5EH	Digital effect	
VV	Digital effect on/off	

n: 0-F Basic channel vv: 00H-3FH (00H) Off 40H-7FH (7FH) On

- •Transmitted data is indicated by parentheses().
- Transmission/reception of the DIGITAL EFFECT for ACCOMP 1,2,3 and BASS is possible only during COMPOSER record.

Chorus

BnH	Control change status
5DH	Chorus
VV	Chorus on / off

n: 0-F

Basic channel

vv: 00H-7FH

•Transmitted data is indicated by parentheses().

RPN

BnH	Control change status
	_
65H	RPN (MSB)
mm	RPN data number (MSB)
(BnH)	Control change status
64H	RPN (LSB)
11	RPN data number (LSB)

n: 0-F Basic channel

mm,ll: The most significant byte (MSB) and least significant byte (LSB) of the parameter number specified for the RPN.

The RPN which can be transmitted/received are Pitch Bend Sensitivity, Fine Tuning, Coarse Tuning (corresponding respectively to the Pitch bend Range, Tuning and Key Shift of the PR500), and RPN reset.

RPN

-		<u>ا</u>	70	
		Data	, <u>-</u> -	
MSB	LSB	MSB	LSB	
00H	00H	mm	 -	Pitch Bend Sensitivity mm:00H - 0CH (0 - 12semi-tones) ll:igored •Up to 1 octave can be specified in semi-tone increments.
00H	01H	mm	11	Fine Tuning mm,ll:00H,00H - 40H,00H -7FH,7FH (-128*100/128-0-127*100/128cents) *11:00H or40H (lower 6 bits ignored) *Can be specified in 100/128 cent increments.
00H	02H	mm		Coarse Tuning mm,34H - 40H - 4CH(-12 - 0 - +12semitones) ll:ignored •Up to 1 octave can be specified insemitone increments.
7FH	7FH			RPN Reset mm,ll:ignored •For when the RPN number is not specified. •The internal set value doesnot change.

Program change

CnH	Program change status
рр	Program change value

n: 0-F

Basic channel

pp: 00H-7FH Program change value Normal mode: Numbers are correspond to the SW of the SOUND GROUP(the variation is indicated by the Bank Select).

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.
- Reception of ACCOMP 1,2,3,BASS and DRUMS program change is possible only during COMP-OSER record.

Channel pressure (After Touch)

DnH	Channnel pressure status
VV	Channnel pressure value

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)

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.
- •Reception of accomp 1,2,3 and BASS pitch bend change is possible only during COMPOSER record.

Channel mode message

All sound off

BnH	Channel mode status	
78H	All sound off	
00H	Dummy data	

n: 0-F

Basic channel

Reset all controllers

ſ	BnH	Channel mode status
	79H	Reset all controllers
	00H	Dummy data

n: 0-F

Basic channel

All note off

BnH	Channel mode status
7BH	All note off
100H	Dummy data

n: 0-F

Basic channel

Receive only

OMNI off

nel mode status	:
I off	:
ny data	-
	ny data

n: 0-F Basic channel

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

OMNI on

BnH	Channel mode status
7DH	OMNI on
00H	Dummy data

n: 0-F Basic channel

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

MONO

E	BnH	Channel mode status
7	'EH	MONO
0	10H	Dummy data

 $0 - \mathbf{F}$ Basic channel n:

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

POLY

BnH	Channel mode status
7FH	POLY
00H	Dummy data

Basic channel

0-F

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

System common message

Song position pointer

F2H	Song position pointer
11	Least significant
mm	Most significant

ll,mm: 00H - 7FH

Song select

F3H	Song select
ss	Song number

ss: 0-19

System real time message

Timing Clock

F8H	Timing clock	
Start		
FAH	Start	

Continue

FBH	Continue
Stop	

-			
FCH	Stop		
1 011	0.00		

Active Sense

FEH	Active sense
<u> </u>	i

System exclusive

F0H	System exclusive status
ii	ID number
dd	data
:	:
dd	data
F7H	End of exclusive status
1	}

7EH(universal non-real time ID),

50H(Technics ID)

dd: 00H-7FH

About the PR500 MIDI exclusive

Outline of PR500 MIDI exclusive

MIDI exclusive	Universal system exclusive — GM on GM off
5.0	Technics MIDI exclusive ——— transmission/reception of tempo date

Universal system exclusive Message format

Turn General MIDI System On:

F0H	Exclusive status
7EH	Universal Non-Real Time SysEx
7FH	ID of target device (7F:Broadcast)
09H	sub-ID #1 = General MIDI message
01H	sub-ID #2 = General MIDI on
F7H	EOX

Turn General MIDI System Off:

Exclusive status
Universal Non-Real Time SysEx
ID of target device (7F:Broadcast)
sub-ID #1 = General MIDI message
sub-ID #2 = General MIDI off
EOX

Technics MIDI exclusive Message format

Tempo data:

F0H	Exclusive status
50H	Technics ID number
25H	Command ID (TMP=Tempo data ID)
DT1	Tempo data LSB
DT2	Tempo data MSB
F7H	End of exclusive

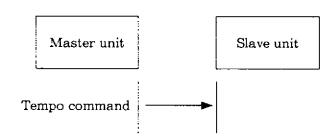
- [data] for Tempo.

DT1	Data LSB
DT2	Data MSB

DT2, DT1: 02H, 08H-12H, 0Ch

(J = 40-300)

Tempo data is 9bit 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.



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

GENERAL MIDI SETTINGS

SOUND

P.CNG #	SOUND NAME	P.CNG#	SOUND NAME	P.CNG #	SOUND NAME	P.CNG #	SOUND NAME
1	Grand Piano	33	Acoustic Bass	65	Soprano Sax	97	ice Rein
2	Bright Piano	34	Bright Bass	66	Alto Sax	98	Soundtrack
3	Elect Grand	35	Picked Bass	67	Tenor Sax	99	Crystal
4	HonkyTonk	36	Fretless Bass	68	Baritone Sax	100	Atmosphere
5	E.Pieno	37	Siap Bass 1	69	Oboe	101	Mist
6	Modern E.P.1	38	Siap Bass 2	70	English Horn	102	Goblins
7	Harpsichord	39	Wow Bass	71	Bassoon	103	Echo Drops
8	Clavi	40	Plastic Bass	72	Jz Clarinet	104	Ster Theme
9	Celesta	41	Violin	73	Piccolo	105	Sitar
10	Glockenspiel	42	Viola	74	Jazz Flute	106	Banjo
11	Music Box	43	Cello	75	Recorder	107	Shamisen
12	Vibraphone	44	Bowed Bass	76	Pan Flute	108	Koto
13	Marimba	45	Tremolo Str	77	Blown Bottle	109	Kelimbe
14	Xylophone	46	Pizzicato Str	76	Shakuhachi	110	8agpipe
15	Tubular Bells	47	Harp	79	Whistle	111	Cntry Fiddle
16	Dulcimer	48	Timpeni	80	Ocerina	112	Shenai
17	Full Drawbars	49	Strings	81	Square Lead	113	Tinkle Bell
18	Jazz Organ	50	Slow Strings	82	Saw Lead	114	Agogo
19	Rock Organ	51	Syn String 1	83	Syn Calliope	115	Steel Drum
20	Pipe Organ	52	Syn String 2	84	Chiffer Lead	116	Wood Block
21	Harmonium	53	Vocal Ah	85	Cherang	117	Taiko Drum
22	Brt Accordion	54	Vocal Dog	86	Air Vox	118	Metodic Tom
23	Harmonica	55	Synth Vocal	87	5th Wave	119	Synth Drum
24	Bandoneon	56	Orchestra Hit	88	Basa & Lead	120	Rev Cymbal
25	Spanish Guitar	57	Trumpet	89	Fantasia	121	Fret Noise
26	Folk Guitar	58	Brt Trombone	90	Mlw Ensemble	122	Breath Noise
27	Jazz Guitar	59	Marching Tuba	91	Poly Synth	123	Seashore
28	Bright Solid	60	Mute Trumpet	92	Spacy Pad	124	Bird Tweet
29	Mute Guitar	61	Open Fr.Horn	93	Bowed Glass	125	Telephone
30	Overdrive Gtr	62	Brass	94	Metal Pad	128	Helicopter
31	Dist Guitar	63	Synth Brass 1	96	Halo Pad	127	Applause
32	Rock Hermonic	64	Synth Brass 3	96	Sweep Pad	128	Gun Shot

Parts

MIDI CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PART	R1	R2	Ļ	P4	P5	P6	P7	P8	P9	DRUM (P16)	P11	P12	P13	P14	P15	P10
SEQUENCER TRACK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

■Non-working Function

DEMO, RHYTHM GROUP, ONE TOUCH PLAY/MUSIC STYLE SELECT, PIANO STYLIST,
MUSIC STYLE ARRANGER, PANEL MEMORY, TECHNI-CHORD, AUTO PLAY CHORD, COMPOSER, etc.

HOW TO USE MIDI PRESETS

The PR piano can be connected to any MIDI equipped musical Instrument.

To connect the PR piano 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 PR piano 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.

■MIDI PRESETS FOR CONNECTING THE PRIPIANO TO AN ORGAN USING AUTO PLAY CHORD.

SLAVE UNIT	MIDI PRESET	•
EQUIPMENT	TYPE	APC
ORGAN (FA/GA/EA)	PR→Organ 2	WITH APC
ORGAN (OTHERS)	PR→Organ 1	WITH APC

■MIDI PRESETS FOR CONNECTING THE PRIPIANO TO AN ORGAN WITHOUT AUTO PLAY CHORD.

SLAVE UNIT	MIDI PRESET	
EQUIPMENT	TYPE	APC
ORGAN (FA/GA/EA)	PR→Organ 2	WITHOUT APC
ORGAN (OTHERS)	PR→Organ 1	WITHOUT APC

■MIDI PRESETS FOR CONNECTING THE PRIPIANO TO AN EXT, SEQUENCER USING AUTO PLAY CHORD.

	SLAVE UNIT	MIDI PRESET						
EQUIPMENT	APC OUTPUT	ТУРЕ	APC					
EXT. SEQ	ACCOMPANIMENT PATTERN	PR→Ext SEQ 1	WITH APC					
EXT. SEQ	CHORD	PR→Ext SEQ 2	WITH APC					

INOTESI

- 1. About "Keyboard1 / Organ1" and "Keyboard2 / Organ 2".
 - 1: Equipment which does not have MIDI presets.
 - 2: Equipment which has MIDI presets. (= KN3000, KN2000, KN1200, KN700, KN901, etc.)
- 2. If you use a MIDI preset to connect any other instrument to the PR piano using Auto Play Chord, the PR piano will be set to MIDI clock. This means that the PR's Rhythm will start & stop from the start/stop button of the master unit and the tempo will be controlled by the master unit. It is preferable to set the Rhythm and Accompaniment balances of the master unit to zero to avoid any unpleasant clashes with the PR's Rhythm & Accompaniment.

MIDI PRESETS DATA

		Without APC								Vith APC										
Mast	er			P	Rser	88		1	MPq	Ext				PR	201100				Nbd	Ext
↓ Slaa		Va.L	oerd	Org	†	Sound	Vocal-	Ext	type2	SEC	W	oerd	Ors		1 Sound	Voca1-	 E4	SEQ	type2	380
Ola	¥6	typel	type2		type2		ist	SEQ	PR se		typel		typel	type2		ist	case	case2	PR se	
Basic	Right1	1	1	1	Ī	1	1	1	ī	î	1	1	1	1	1	off	1	1	ĭ	1
channel	Right2	2	2	3	3	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2
	Left	4	3	2	2	3	3	3	3	3	4	3	2	2	3	3	3	3	3	3
	Part4	3	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4
	Part5	5	5	5	5	5	5	5	5	5	off	off	off	off	5	5	off	5	off	off
	Pert6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Part7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Part8	8	8	8	8	8	8	8	8	8	8	. 8	8	8	8	8	8	8	8	8
	Part9	9	9	9	9	9	9	9	9	3	9	9	3	9	9	9	9	9	9	9
	Part10	10	10	10	10	16	10	10	10	10	10	10	10	10	off	10	10	10	10	10
	Part11	11	13	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	Part12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	off	12	12
	Part13	13	13	13	13	13	13	13	13	13	13	13	13	13	off	13	13	off	13	13
	Part14	14	14	14	14	14	14	14	14	14	14	14	14	14	off	14	14	off	14	14
	Part15	16	15	16	15	15	15	15	15	15	off	15	off	15	off	15	15	off	15	15
	Part16	15	16	15	16	10	16	16	16	16	16	off	16	off	off	16	off	off	off	off
····	Control Accompl	off	off	off	off off	off	off off	off	off off	off	off off	off	off	off off	off	off	off	off	off	off
	Accomp2	off off	off off	off off	off	off off	off	off off	off	off off	off	off off	off off	off	13 14	off off	off off	12 13	off off	off off
	Accomp2	off	off	off	off	off	off	off	off	off	off	off	off	off	15	off	off	14	off	off
	Bass	off	off	off	off	off	off	off	off	off	off	off	off	off	16	off	off	15	off	off
	Orums	off	off	off	off	off	off	off	off	off	15	16	15	16	10	off	15	16	16	16
	Chord	off	off	off	off	off	off	off -	off_	off_	5	5	5		off		- 5-	e aff		
Octave a		0	0	0	0	0	0	0	0_	0	0	0	0	0	٥	0	C	Ω	0	_0_
Localal		on	on	on	ση	90	on	off	Øn.	OD.	on	00	σn	ρħ	on .		2 0	on	on.	an.
Prog. ch	ange	on	on	οn	on	O/I	on	on	on	on	QΠ	on	σn	On.	On	on	OE?	QF)	on	on.
Bank se	ect	00	on	on	on	on	on	ΩR	on	on	on	on	on	on	QM.	O/1	on	on	90	on
Pitch be	end	on	on	οñ	on	on	on	on	on	on	on.	on	σn	on	on	on	σn	on	on	on
Volume		on	on	00	on	on	on	90	on	on	on	on	ØΠ	on	on	on	on	90	on	Qft
Expressi	on	on	on	OG.	on	on	on	OR	on	on	on	on	OΠ	on	on	on	on.	on	on	on
Panpot		on	on	ort	Off	on	on	on	o n	on	o n	on	on	on	on.	on	Q D	90	on .	Ç IN
Sustain		on	on	φn	on	on	on	on	on	on	on	On	QΠ	OU	on	on	on	On	on .	OΠ
Eff&Rev		Off	on	on	on	on	on	on	on	œ	on.	on	φħ	on	on	on	on	on	on	Off.
Modulati	on	on	on	οn	on	on	on	OR	OF?	on	on	on	on	on	on	OIL:	0 0	Эn	on	on
Tuning		on	on	οn	on	on	Off	on	on	on	on	on	φn	on	on	on	90	on	on	٥n
Bend ran	-	on	on	Ori	on	on	on	on	on	on	OR	QII	OΠ	on	on	on	on	QIN	on .	Œ
After to		on	on	on	on	on	on	on	on	on	on	on	đΩ	Off	on	on	on	ĠP.	on	QN
Reset al		on	on	on	on	on	ON .	90	an .	<u>on</u>	on.	<u>on</u>	- 00	- 00	OPL_		<u> </u>	<u> </u>		400
Clock	ansy.	Qn :_4	on	on :t	no 	no !_A	on :	on:	on.	off	on	ON.	OR Lat	on :	OR.	on. :_+	on:	on :	96	aff MIDI
Right1 i	nout	int dir	<u>int</u> dir	int dir	int dir	<u>int</u> dir	<u>int</u> dir	int_ dir	int.	MUDI dir	int dir	<u>int</u> dir	int dir	<u>int</u> dir	<u>int</u> dir	<u>⊹int</u> dir	int dir	dir	dir	dir
APC in	Прис	off	off	off	off	off	off	off	off	off	I				off	off			Ī	
Technich	nord out	on	on	on on	on	on	on	יינט	off	off	on on	on on	on on	on on		0N	on on	on on	on off	on off
Drums ou		off	off	off	off	off	off	off	off	off	off	off	off	off	on on	off	off	on on	off	off
APC out	'	off	off	off	off	off	off	off	off	off.	on.		pn .	on		0A	9 73		90	on.
P. cng to	P. mem	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off
Note on		off	off	off	off	off	off	off	off	off	off	off	off	aff	off	off	off	off	off	off
Intro/Fi		on	on	on.	on	on	on	on	On	on	on	on.	on.	on	on.	on.	on	on	on.	on
APC cont		off	off	off	off	off	off	off	off	off	on	on	on on	on.	off	off	OR.	off	on	on
Transpos	-	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off
Prog. one		TECH	TECH	TECH	TECH	GM	NORM	TECH	TECH	TECH	TECH	TECH	TECH	TECH		NORM	TECH	TECH	TECH	TECH
Drums to	_	TECH	TECH	TECH	TECH		NORM	TECH	TECH	TECH	TECH	TECH	TECH	TECH		NOTEN	TECH	TECH	TECH	TECH
Song sel	-	on	on	00	on	off	off	off	DR.	on	on	on	DF1	on	off	off	DR1	on	on	on on

Playback of Technics disks

The PR500 can play back data from the following instrument models:

PR250/PR350	PR270/PR370	PR305/PR307	PR Series	KN3000	

The following data is compatible:

COMPOSER data	
SEQUENCER data	
Registration data (panel and PANEL MEMORY data)	

- Functions of other models which are not incorporated in the PR500 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.
- For some sounds, the playback octave may be different from the recorded octave.
- The parameters of DIGITAL REVERB and CHORUS are different from those of other models, therefore only the effect type will be matched.

Compatibility with KN3000 disk data:notable items

These functions are not available on the PR500 and will not be reproduced correctly.	MEMORY SOUND, USER DRUMS as well as data which uses these functions •MEMORY SOUND is reproduced as the Grand Piano sound, USER DRUMS as the Standard KIT.
	MANUAL SEQUENCE PADS, SOUND ARRANGER as well as data which uses these functions
The configuration of this feature on the PR500 is different from the KN3000 so it will not be reproduced correctly.	MUSIC STYLE ARRANGER
Due to the smaller number of banks and memory size of the PR500, the following data cannot be loaded.	KN3000:B-3 to C-8 of the PANEL MEMORY
	SEQUENCER data which exceeds the capacity of the PR500 SEQUENCER (30,000 notes)

Compatibility with PR250 / PR350, PR270 / PR370, PR207 / PR307 and PR Series disk data: notable items

These functions not available in the PR500	Recorded dual balance settings of each sound
will not be reproduced correctly.	

• The RKB and LKB playback parts are provided on the PR500 for compatibility with the RIGHT and LEFT SEQUENCER tracks of previous models. However, these parts cannot be recorded or edited.

528