Technics

sx-PR305/K sx-PR307/K



ENGLISH

EN MC EP X

QQTG0226A

#### 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-pln plug, marked with the letter E or the Earth Symbol \(\frac{1}{2}\).

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

# Technics

### OWNER'S MANUAL

### Caution

Voltage (except North America, Mexico, New Zealand and Europe excluding United Kingdom) 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 93.



### **CAUTION**

RISK OF ELECTRIC SHOCE 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 exciamation 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, Function Setting and MIDI.

REFERENCE GUIDE (separate booklet)

Reference guide for the contents of the SOUND SELECT and RHYTHM SELECT etc.

## **C**ontents

Before you play
BASIC FUNCTIONS
Getting started 6
Listen to the demonstration
Listen to a particular sound of rhythin demonstration      Listen to the style demonstration performance
Playing the plano9
Selecting other sounds10
Playing automatic rhythms11
Listen to preset rhythms
Control the rhythm
Automatic accompaniment14
PRACTICAL APPLICATIONS
About the display (LCD screen)16
Part I Sounds and effects20
Play Style
Selecting sounds21
Pedals
Effects
Mixing two sounds24
Keyboard Split25
Transpose
Techni-Chord27
Part II Playing the rhythm28
Selecting rhythms
Playing the rhythm
Auto Play Chord
Dynamic Accomp
One Touch Play
Music Style Select
Panel Memory38
Part III Sequencer
Outline of the Sequencer
Easy Record41
Sequencer parts
Step Record
Track Assign
Playback from a specific measure
Editing the recorded performance
Punch Record
Sequencer Medley

Part IV Composer	59
Outline of the Composer	
Setting up to create a rhythm pattern	
Record your rhythm pattern	
Playback	
Creating intro and fill-in patterns	
Part V Disk Drive	
Outline of the Disk Drive function	
Formatting a disk	
Saving data	
•	
Part VI Adjusting the functions	
Outline of procedure	
Sound functions	
Set the pedal functions	
·	
Part VII MIDI	
What is MIDI?	
Outline of MIDI functions	
Setting the MIDI functions	
Setting the Midi tunotons	
Initialize	86
Connections	87
Assembly	88
Symptoms which appear to be signs of trouble	90
Error messages	
Cautions for safest use of this unit	93
Index	94
Specifications	96

### Controls and functions

## **PLAY STYLE RHYTHM SELECT** Choose preset automatic rhythm pat-Select standard plano or one of various other performance styles. (Refer to page terns. (Refer to page 28.) 20.) ONE TOUCH PLAY -**DEMO** Sounds and effects which fit the selected You can listen to programmed demonstrarhythm are automatically selected. (Refer tion tunes which show what your Digital Ensemble can do. (Refer to page 7.) to page 36.) 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

72.)

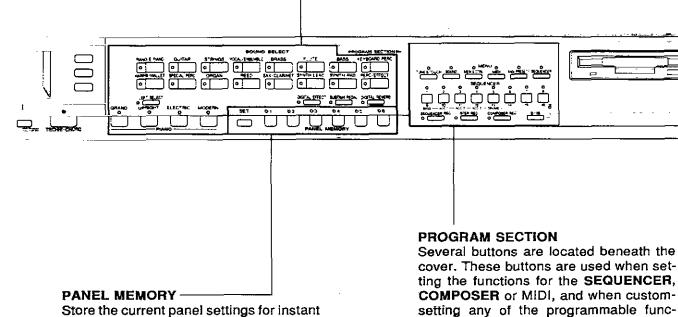
#### DISPLAY (LCD screen)

Displays performance information, function settings and other messages. (Refer to page 16.)

 Use the CONTRAST button to adjust the display so that it is easy to read. (Refer to page 19.)

#### SOUND SELECT

You can select from four piano-type sounds. Or choose the sounds of various instruments. (Refer to page 21.)



#### About the backup memory

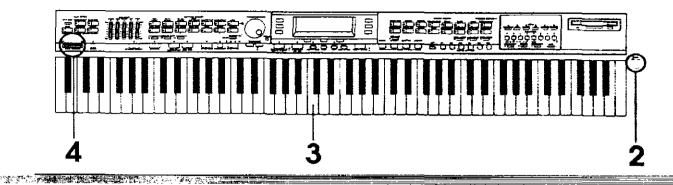
recall. (Refer to page 38.)

The panel settings and stored memories, such as the **SEQUENCER** and **COMPOSER**, are maintained in a backup memory for about 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.

tions.

- The back-up memory does not function unless 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.
   If this occurs, after checking the reminder, press the OK button.

# Getting started

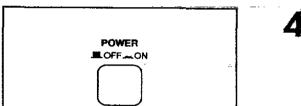


Plug the power cord into an outlet.

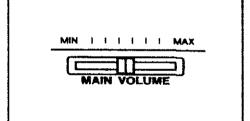
Touch any note on the keyboard. You will hear the GRAND PIANO sound.

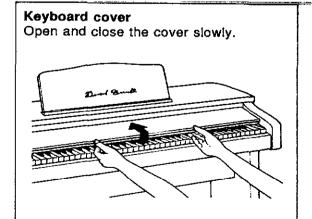
Press the POWER button to turn it

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



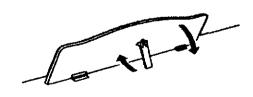
Set the MAIN VOLUME to an appropriate level with the sliding control.





#### **Music Stand**

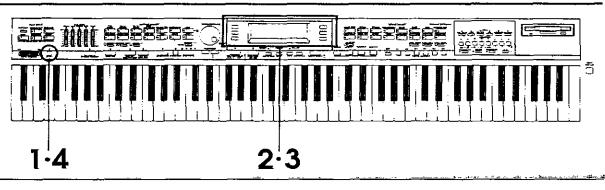
To set up the music stand, gently raise it from its folded down position. To lower the music stand, first fold in the metal support at the rear of the stand, and then lower the stand gently.



### Listen to the demonstration

# Listen to a particular sound or rhythm demonstration.

There are 6 songs to introduce the piano sounds, 6 for the other sounds and 6 for the rhythms, totalling 18 demonstration songs stored in this piano.



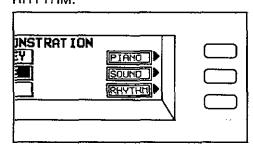
Press the DEMO button.

DEMO

The display changes to the

Use the buttons to the right of the display to select PIANO, SOUND or RHYTHM.

**DEMONSTRATION** display.



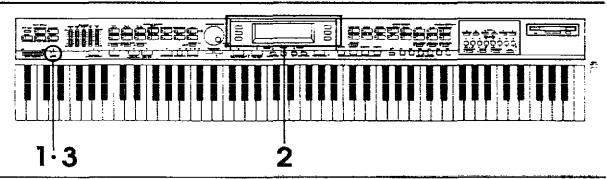
Use the buttons next to the display to select the sound or rhythm demonstration performance you wish to hear.

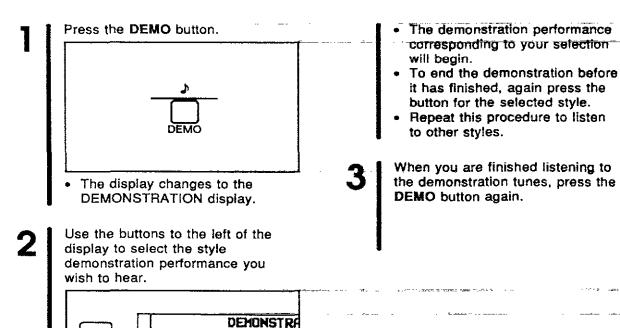
- The demonstration performance corresponding to your selection begins, and the name of the sound or rhythm which is being demonstrated is highlighted (shown in reverse video) on the display.
- To end the demonstration before it has finished, again press the button for the selected sound or rhythm.
- Listen to other sounds and rhythms by pressing the corresponding buttons.
- To change from a SOUND demonstration to a PIANO demonstration, for example, press the EXIT button below the display to return to the DEMONSTRATION display, and then proceed from step 2.

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

# Listen to the style demonstration performance.

One MAIN MEDLEY to introduce the various music styles in order as well as two performances to demonstrate music styles such as FILM SCORE are stored in this piano.





 If you press and hold the DEMO button for a few seconds, or if you press first the DEMO button and then the START/STOP button, the sounds, rhythms and styles are demonstrated in order in a medley performance. The medley performance continues until the START/STOP button or the DEMO button is pressed again.

FILM SCORE

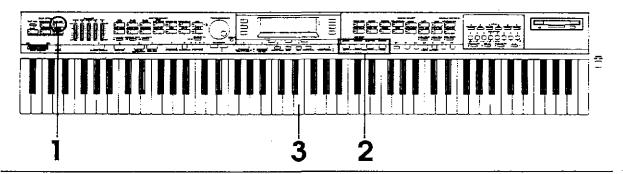
During the medley performance, if you wish to skip from the current song to the next song, press the button for the highnes sounds,

V 11. (28) (815, 2000) 11. (1.2.14.9)

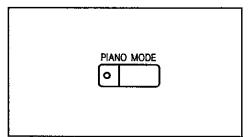
 Some of the buttons do not function while the demonstration performances are being played.

# Playing the piano

Your plano 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 plano. Select one of the plano sounds and enjoy its excellent quality.

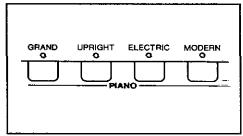


In the PLAY STYLE section, press the PIANO MODE button to turn it on.



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

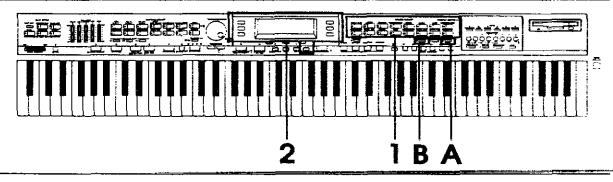
Select one of the four **PIANO** sounds by pressing the corresponding button.



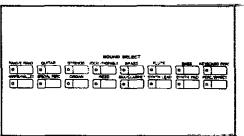
Play anywhere on the keyboard.

# Selecting other sounds

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

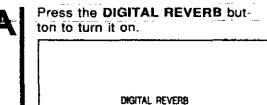


in the **SOUND SELECT** section, select a sound group.



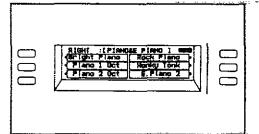
• The display changes.

Add reverb to the sound.



• The indicator lights.

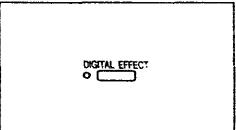
2 Select a sound from the list on the display.



- To view a different part of the list, press the MORE/RETURN button.
- After a few seconds, the display returns to the previous display.

Add a feeling of spacious- ness to the sound.

Press the DIGITAL EFFECT button to turn it on.

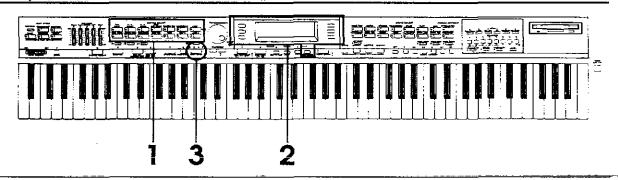


The indicator lights.

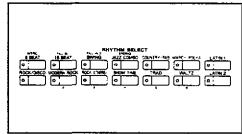
- When one of these sounds is selected, the PIANO MODE indicator in the PLAY STYLE section automatically turns off.
- Other things you can do are mixing sounds and playing different sounds on the left and right areas of the keyboard. (Refer to pages 24 and 25.)

# Playing automatic rhythms

### Listen to preset rhythms.

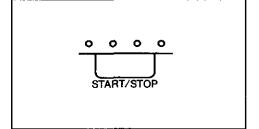


In the RHYTHM SELECT section," select a rhythm group.



The display changes.

Start the rhythm by pressing the START/STOP button.



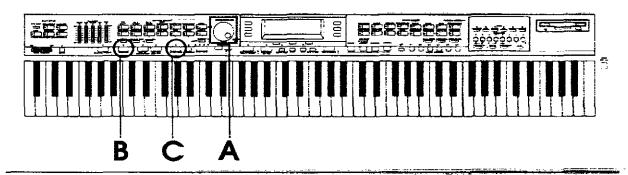
Stop the rhythm by pressing the START/STOP button again.

Select a rhythm from the display.



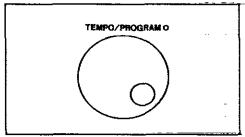
- To view a different part of the list, press the MORE/RETURN button.
- The display returns to the previous display after a few seconds.

### Control the rhythm.



### Adjust the tempo.

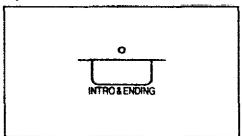
Adjust the tempo with the TEMPO/PROGRAM dial.



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

### Insert an intro pattern.

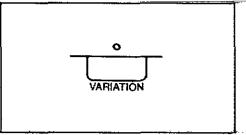
To start your performance with an introduction, press the INTRO & ENDING button before starting the rhythm.



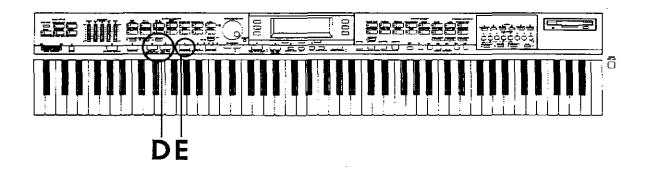
 An intro is played, after which the regular rhythm starts.

### Select a variation pattern.

During the rhythm performance, press the VARIATION button to turn it on.



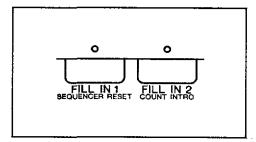
 The rhythm pattern changes to a flashier pattern.



### Insert a fill-in pattern.

D

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

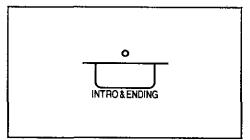


 A fill-in pattern immediately starts to play.

### Insert an ending pattern.

E

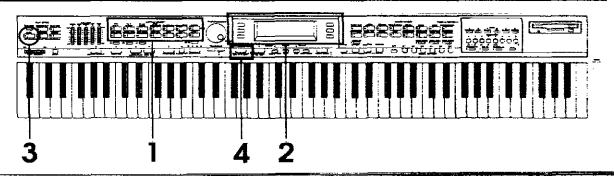
While the rhythm is playing, press the INTRO & ENDING button.



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

# Automatic accompaniment

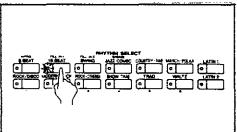
Just by specifying a chord on the keyboard, an accompaniment pattern which matches the selected rhythm is automatically played.



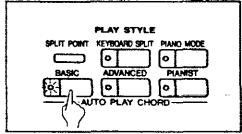
Use the AUTO PLAY CHORD with the following tune.



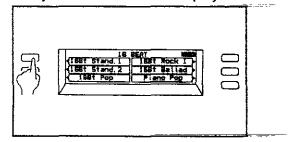
In the RHYTHM SELECT section, press the 16 BEAT button.



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

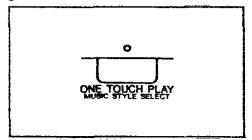


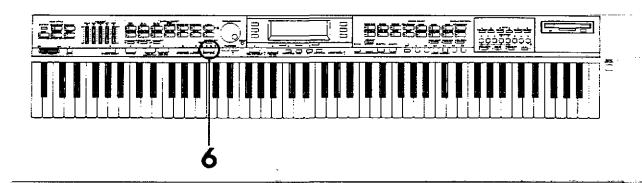
2 Select "16Bt Stand. 1" from the list of rhythms shown on the display.



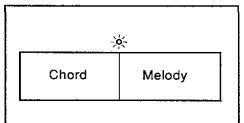
Press and hold the ONE TOUCH PLAY button until the indicator goes out.

The keyboard automatically divides into left and right playing



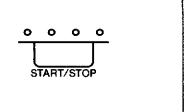


Use your left hand to play the chords and your right hand to play the melody.

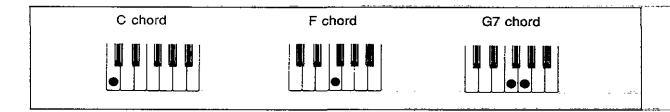


- Pressing a key on the left area of the keyboard will cause the automatic rhythm pattern to start playing (synchro start).
- When the C key is pressed on the left area of the keyboard, an accompaniment begins to play in the C major key.
- Playing the chord key (root note) and the white key to its left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

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



• The automatic accompaniment stops.



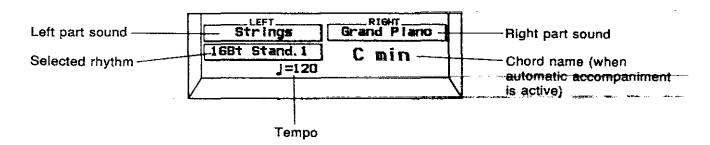
 In this example you played chords by pressing the keys for the "root notes" (one-finger chords). But you can also specify the chord by playing all the notes in the chord. (Refer to page 33.)

## About the display (LCD screen)

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.



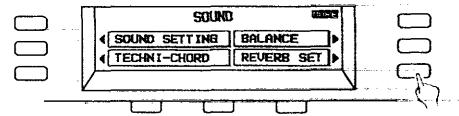
### Menu display

The MENU buttons in the PROGRAM SECTION (under the cover on the right side of the panel) are used to control multiple functions. Pressing one of the buttons will access the corresponding menu display.



#### ■ Example of menu display: SOUND

Select a function from the menu display by pressing the corresponding button to the left or right of the display indicated by the  $\triangleleft$  and  $\triangleright$  arrows.

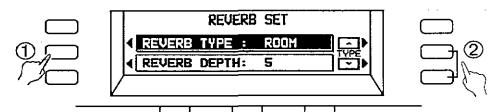


 In this manual, the steps describing how to select a function from a menu display are generally abbreviated as follows, for example: "On the SOUND menu display, select REVERB SET."

#### Setting display

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

#### ■ Example of setting display: REVERB SET



- <Example of procedure to set a function>
- ① In the illustration above, two functions are shown on the setting display: REVERB TYPE and REVERB DEPTH. First, select one of the functions by pressing the corresponding button indicated by the ◀ arrow. (The currently selected function is highlighted.)
- In this manual, the procedure to indicate that you should press a button to select an item from the display is generally written simply as follows: "Select REVERB TYPE."
- ② The ∧ and ∨ buttons on the display are operated by pressing the corresponding buttons indicated by the ▶ arrows. These buttons are used to change the type.
- In this manual, this procedure is written as follows: "Use the ∧ and ∨ buttons to select the type."

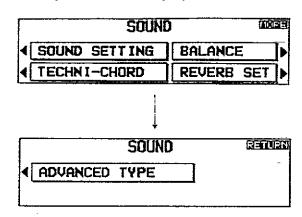
#### MORE/RETURN

When there are additional parts to the current menu (for example, when a list of sounds is too long to be shown on one screen), a MORE indication is highlighted in the upper right corner of the display. Press the MORE/RETURN button below the display to view the next section of the menu.

MODE/DETTION

 When RETURN is shown in the upper right corner of the display, press the MORE/ RETURN button again to view the first section of the menu.

**■ Example of MORE display: SOUND** 



#### **EXIT** button

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



#### **DISPLAY HOLD button**

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



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

#### TEMPO/PROGRAM dial

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



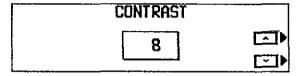
#### CONTRAST

Adjust the contrast of the display.

1. Press the CONTRAST button.



· The following display appears.



- Use the ∧ and ∨ buttons to adjust the setting (1 to 10).
- The higher the number, the lighter the display characters.
- A few seconds after adjusting the setting, the display returns to the previous display.

#### **HELP display**

You can find an explanation of most of the piano functions right on the display.

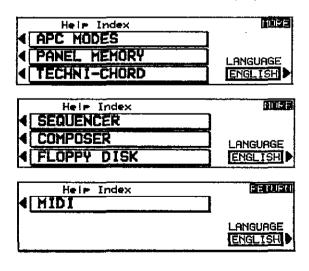
1. Press the HELP button.



The following display appears.



 Each time the MORE/RETURN button is pressed, a different function is displayed.



- Use the LANGUAGE button to select the language in which the messages are displayed.
- The HELP display messages and error messages are shown in the selected language.
- The appearance of the display on your instrument and the illustrated display in this manual may differ depending on the region in which your instrument was purchased and the selected display language.
- 2. Select a function.
- Information about the selected function will appear on the display. There may be several "pages" of information, which you can get by following the instructions on the display.
- If you press the HELP button while you are in the process of setting a function, the display may change directly to the HELP mode.
- For a detailed explanation of each function, please refer to the relevant pages in this manual.

ONE TOUCH PLAY page	e 36
MUSIC STYLE SELECT page	e 37
AUTO PLAY CHORD page	e 32
APC MODES page	e 32
PANEL MEMORY page	e 38
TECHNI-CHORD page	
SEQUENCER page	
COMPOSER page	e 58
FLOPPY DISK page	e 65
MIDI page	

When you have finished reading the message, press the EXIT button.

### Part I Sounds and effects

# **Play Style**



In addition to a standard piano 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 plano.

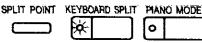
# SPLIT POINT KEYBOARD SPLIT PIANO MODE

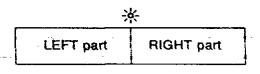
 If sounds other than piano-type sounds have been chosen, the PLAY STYLE indicators all go out.

#### **■ KEYBOARD SPLIT**

The keyboard divides into two playing areas, each with a different sound. (Refer to page 25.)



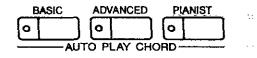


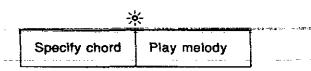


Piano sound

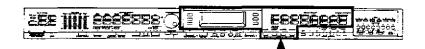
#### **AUTO PLAY CHORD**

These buttons are used when you perform with the automatic accompaniment. (Refer to page 32.)





## **Selecting sounds**

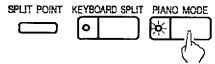


Enjoy trying the sounds of many different instruments.

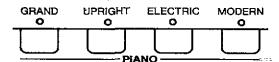
#### **PIANO MODE**

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

#### PLAY STYLE



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.
- 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 25) or the AUTO PLAY CHORD status (refer to page 32). 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 SELECT**

In addition to piano sounds, you can select the sounds of various other instruments.

1. In the **SOUND SELECT** section, select a sound group.



2. Select the desired sound from the list on the display.

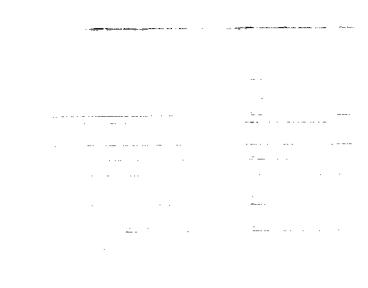
RIGHT	:[PIAND	&E PIANO I IDEE
<b>◆Bright</b>	Piano	Rock Piano
∢ Piano	1 Oct	Honky Tonk
Piano	2 Oct	E.Piano 2

- Use the MORE/RETURN button to view different parts of the list of sounds.
- A few seconds after you make your selection, the display returns to the normal display. The name of the selected sound is shown in the RIGHT part of the display.
- The selected sound is memorized independently for each sound group, so that whenever a SOUND SELECT button is pressed, the sound you chose is automatically available.

#### ■ Percussion sounds

You can create a percussion performance on your keyboard.

- 1. In the SOUND SELECT section, press the KEYBOARD PERC button.
- Select the type of percussion sounds from the list on the display.
- 3. Play the keyboard.
- Percussion instrument sounds are produced by the keyboard keys as indicated by the picture code above each key.
- For details about the arrangement of the percussion sounds, refer to the separate "REFER-ENCE GUIDE" provided. PR307: The arrangement of percussion instruments is different in the "Orche Kit."



### **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.

- For the GRAND PIANO and UPRIGHT PIANO sounds, you will always hear a small amount of sustain on the top 17 keys, just like an acoustic piano.
- If the SUSTAIN PEDAL button is off, the sustain effect does not work.

SUSTAIN PEDAL

- The sustain on/off status can be set for the right and left parts independently when the keyboard is split. (Refer to page 25.)
- PR307: This pedal is an eight-stage pedal, and the length of the sustain is controlled by the degree to which the pedal is depressed.

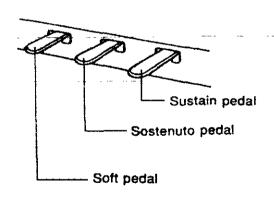
#### ■ Sostenuto pedal

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.

#### ■ Soft pedal

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



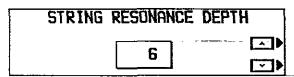
#### String resonance

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.

Press and hold the GRAND button for about 3 seconds.



 The indicator flashes slowly, and STRING RESONANCE DEPTH is shown on the display.  Use the ∧ and ∨ buttons to adjust the amount of resonance (OFF, 1 to 7).



- The higher the number, the greater the amount of resonance.
- When set to OFF, there is no string resonance.
- When you have finished adjusting the string resonance, press the GRAND button again.

### **Effects**



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

#### **DIGITAL EFFECT**

**DIGITAL EFFECT** gives the sound richness and enhances your performance.

Press the **DIGITAL EFFECT** button to turn it on for the selected sound.



- The on or off status of the DIGITAL EFFECT is preset for each sound, so that DIGITAL EF-FECT turns on when certain sounds are selected.
- This effect differs depending on the selected sound.

#### DIGITAL REVERB

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

Press the DIGITAL REVERB button to turn it on.



- This effect works for all generated sounds, including the rhythm patterns.
- The display can be used to select the type of DIGITAL REVERB and to make related fine adjustments. (Refer to page 76.)
- The display can also be used to set this effect to on or off for each part separately (effective when the **DIGITAL REVERB** button is on). (Refer to page 75.)

## Mixing two sounds

You can play two completely different sounds at the same time.

#### **Mixing sounds**

To mix two sounds, simultaneously press the two buttons (from the four PIANO sounds and from the SOUND SELECT section) for the desired sounds.

- The sound selected for the SOUND SELECT buttons should be set beforehand.
- Two sounds from the same SOUND SELECT button cannot be mixed.

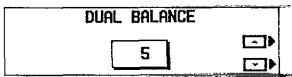
#### **Volume balance**

By adjusting the volume of one of the two mixed sounds, you can regulate the volume balance.

- Press and hold the button for the first sound. While holding down the button for the first sound, press and hold the button for the second sound. The second sound you select is the one whose volume level can be adjusted.
- The indicator for the second sound you selected flashes, and the display changes to the DUAL BALANCE display.
- 2. Use the A and V buttons to adjust the volume.

3. When you have finished setting the volumes, press any sound button.

- The volume level which is set in this manner is recalled only when the sound is selected as the second of two mixed sounds.
- When the DIGITAL EFFECT button is turned on, an effect suitable for the mixed sound is applied.
- To return the volumes to the factory-preset levels, follow the initialization procedure. (Refer to page 86.)



- There are 10 different levels of volume for the selected sound (0 to 9). The selected level is shown on the display.
- You can confirm the volume by playing the keyboard.

## **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 mix two sounds.
- In the PLAY STYLE section, press the KEY-BOARD SPLIT button to turn it on.



SPLIT POINT KEYBOARD SPLIT PIANO MODE

3. In the SOUND SELECT section, press the LEFT SELECT button to turn it on. Now select a sound to be assigned to the left part of the keyboard, and set the effects to on or off.



 A few seconds after making the selection, the LEFT SELECT button turns off.

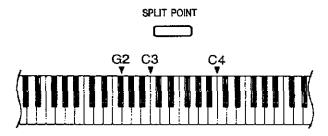
- The name of the selected sound is shown in the LEFT part of the normal performance display.
- You can now play a different sound for each of the left and right keyboard sections.

<del></del>	<del>ار</del>
Left part sound	Right part sound

 If you select the same sound for the left part again, you can turn off the left part. In this case, the left part of the split keyboard does not produce any sound.

#### **SPLIT POINT**

Press this button to change the location of the keyboard split point.



Each time the button is pressed, the split location changes in this sequence: from G2 up → C3 → C4.

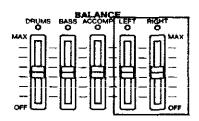
#### ■ Custom split point

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

- Press and hold the SPLIT POINT button for a few seconds.
- The display changes to the SPLIT POINT SET-TING display.
- 2. Press a key on the keyboard to specify the desired split point.
- A split point is set at the location of the pressed key, and is also indicated on the display.
- The key at the split point is the lowest note of the right keyboard section.
- After a few seconds, the display returns to the previous display.
- You can select your custom split point by pressing the SPLIT POINT button until none of the split point indicators is lit.
- The custom split point is erased when the split keyboard status is discontinued, or when the power to this instrument is turned off.

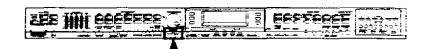
#### BALANCE

The volumes for the left and right parts of the split keyboard are adjusted with the sliding LEFT and RIGHT controls in the BALANCE section.



- When a volume is set to OFF, the corresponding BALANCE indicator goes out.
- In some cases, the actual volume is not in accordance with the position of the sliding control (for example, when using the PANEL MEMORY to recall stored panel settings [refer to page 38]).

### **Transpose**



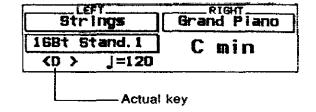
The TRANSPOSE buttons are used to change the key of the entire instrument in semitone steps across an entire octave.

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.

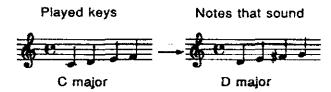
Adjust the key with the TRANSPOSE buttons.



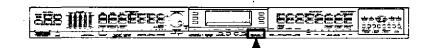
- Each press of the right button changes the key as follows: D<sup>1</sup> → D → E<sup>1</sup> → E → F → F<sup>‡</sup>. Each press of the left button changes the key as follows: B → B<sup>1</sup> → A → A<sup>1</sup> → G.
- If the two buttons are pressed at the same time, the key returns to C.
- When the TRANSPOSE function is active, the transposed key is shown on the display.



<Example: transposed to D>

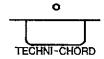


### **Techni-Chord**



**TECHNI-CHORD** transfers the chord notes you play on the left section of the keyboard to each melody note you play on the right section of the keyboard.

- 1. Split the keyboard into left and right sections. (Refer to page 25.)
- 2. 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.
- The TECHNI-CHORD is very effective when used with the BASIC mode or ADVANCED mode of the AUTO PLAY CHORD. However, this feature is not available for the PIANIST mode.
- The display can be used to select the desired harmony style. (Refer to page 76.)



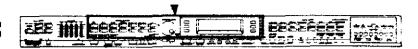
Left hand (chord)

Right hand (melody)



# Part II Playing the rhythm

## **Selecting rhythms**



Select various rhythms and hear how they sound.

### Select a rhythm.

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



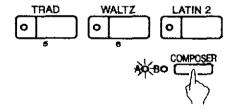
Select the desired rhythm from the list on the display.

16	BEAT BEES
∢16Bt Stand.1	168t Rock 1
∢168t Stand.2	IGBt Ballad
IGBt Pop	Piano Pop

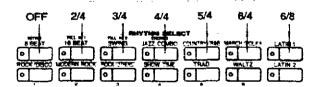
- Use the MORE/RETURN button to view different parts of the list of rhythms.
- A few seconds after you make your selection, the display returns to the normal display. The name of the selected rhythm is shown on the display.
- The selected rhythm is memorized independently for each rhythm group, so that whenever a RHYTHM SELECT button is pressed, the rhythm you chose is automatically available.

#### Metronome

Press the COMPOSER button to turn it on (A or B).



2. Use the upper horizontal row of buttons in the RHYTHM SELECT section to specify the time signature.



- · The indicator of the selected metronome lights.
- When a button is pressed to specify a time signature, the list of time signatures is shown on the display. You can then use the display to change the time signature, if desired. A few seconds after making your selection, the display returns to the previous display.
- To turn off the accented beat of the metronome, select "OFF." (If you are using the display to select the time signature, select "Metronome Off.")
- Press the START/STOP button to start the metronome.

### Start the rhythm

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



- The selected rhythm pattern begins to play.
- If the START/STOP button is pressed again, the rhythm will stop.
- 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.

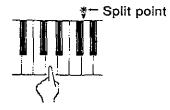
#### SYNCHRO START

When the SYNCHRO START button is on, the rhythm is started by pressing a key on the keyboard.

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



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

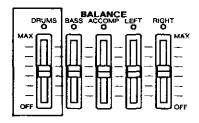


· The selected rhythm starts to play.

 Even when the keyboard is not divided into left and right sections, the indicator at the split position will light while the SPLIT POINT button is depressed. If desired, you can change the split point by pressing the SPLIT POINT button at this time. To start the rhythm, press a key to the left of the indicated split point. (Refer to page 25.)

#### BALANCE

The volume of the rhythm is adjusted with the sliding **DRUMS** control in the **BALANCE** section.



#### **Adjust the tempo**

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



- The tempo is shown on the display as a numerical value (1 = 40 to 300).
- When the TEMPO/PROGRAM indicator is fit, it means that one of the various function-setting modes is active and the TEMPO/PROGRAM dial is not currently available for adjusting the tempo.

# Playing the rhythm Estimates 1



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

#### INTRO

Begin the rhythm performance with an intro pattern.

 Press the INTRO & ENDING button to turn it on.



Press the START/STOP button to start the rhythm.



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

#### **COUNT INTRO**

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

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



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



 A one-measure count is played, after which the normal rhythm pattern begins.

#### **VARIATION**

Each rhythm pattern also has a variation pattern. Add drama to your performance by switching to the variation pattern at climactic points in the melody.

1. Select a rhythm and press the START/STOP button.



2. Press the VARIATION button to turn it on.

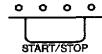


- · The rhythm changes to a flashier pattern.
- Press the VARIATION button again to turn it off and go back to the normal rhythm pattern.

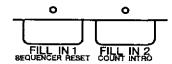
#### **FILL IN**

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 button to turn it on.



- An ending pattern is produced, and then the rhythm performance stops.
- If you accidentally press the 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**

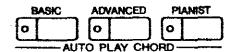


Simply by playing a chord on the keyboard, the AUTO PLAY CHORD function automatically plays an accompaniment pattern which matches perfectly the selected rhythm. With a real accompaniment as a background, you can concentrate on playing the melody.

#### **How the AUTO PLAY CHORD works**

	<del>-</del> %-		
Chord		Melody	
			Į.

You can choose from one of the following three AUTO PLAY CHORD modes.



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.
- When you use VARIATION, FILL IN, INTRO and ENDING, the automatic accompaniment is also used in these patterns.
- When the rhythm is off, if the BASIC mode is on and a chord is specified, the specified root note (ROOT BASS) and chord notes (CHORD) are produced.

#### **BASIC** mode

In the BASIC mode, the chord can be specified either by playing just its root note or by playing the chord itself.

1. Press the BASIC button to turn it on.



- The keyboard automatically divides into left and right sections.
- 2. Start the rhythm playing.

- 3. Play the chord on the left keyboard.
- You can either press one key on the left keyboard to specify the root note (one-finger mode), or play all the notes of the chord (fingered mode).
- The sound selected for the left section of the keyboard cannot be heard. If you select a sound for the left keyboard while in this mode, the left-part sound can then be heard, but the one-finger chord function will not work.
- Touch Response does not work for the left keyboard.
- With the rhythm on, even when the keys are released, the accompaniment continues to play the specified chord until another chord is specified.

#### ■ One-finger

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

Example: C chord

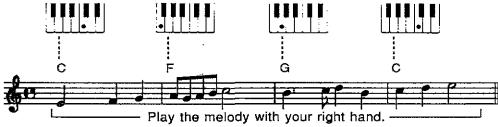


Minor, seventh and minor seventh chords are also easily produced.

minor chord	seventh chord	minor seventh chord	
Play the root note plus a black key to the left of it.	Play the root note plus a white key to the left of it.	Play the root note plus a black key and a white key to the left of it. (Within five notes of the chord key.)	
Example: Cm	Example: C7	Example: Cm7 Within 5 keys	

Example of one-finger accompaniment performance

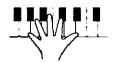




#### ■ Fingered

When you play a chord on the left keyboard, the chord is automatically played in an accompaniment pattern.

In the fingered mode, the AUTO PLAY CHORD recognizes more chord types, and thus the scope of your performance expression is expanded.



- The plano can distinguish the following played chords for each key (C is given as an example):
   C, C7, CM7, Caug, Caug7, Cm, Cm7, Cdim, Cm7<sup>1,5</sup>, CmM7, Csus4, C7sus4, C<sup>1,5</sup>, C7<sup>1,5</sup>, Cm<sup>1,5</sup>, C6, Cm6, CM7<sup>1,5</sup>, CM7<sup>1,5</sup>, CmM7<sup>1,5</sup>.
- if a chord other than these is played, the chord in this group which is most closely related is used.

#### **ADVANCED** mode

in the **ADVANCED** mode, the chord is specified by playing it (fingered mode) on the left part of the keyboard.

1. Press the ADVANCED button to turn it on.



 The keyboard automatically divides into left and right sections.

- 2. Start the rhythm playing.
- 3. Play the chord on the left keyboard.
- The sound selected for the left section of the keyboard is heard.
- You can turn off the left part. (Refer to page 25.)
- The chord is automatically played in an accompaniment pattern.
- · Play chords by pressing at least three keys.
- With the rhythm on, even when the keys are released, the accompaniment continues to play in the specified chord until another chord is specified.
- You can specify the type of chord recognition. (Refer to page 77.)

#### **PIANIST mode**

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

1. Press the PIANIST button to turn it on.



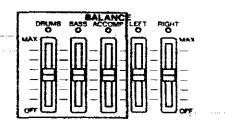
- · The keyboard does not divide.
- 2. Start the rhythm playing.

- 3. Play the chord.
- Chords can be specified anywhere on the keyboard. An accompaniment pattern in the specified chord is automatically produced.
- Play chords by pressing at least three keys.
- 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.
- In this mode, the piano can also distinguish chords such as 9th and 13th chords.
- With the rhythm on, even when the keys are released, the accompaniment continues to play the specified chord until another chord is specified.

#### BALANCE

The volume of each part comprising the AUTO PLAY CHORD is adjusted with the sliding controls in the BALANCE section.

 The ACCOMP control adjusts the total volume of all the accompaniment parts (ACCOMP PART 1, 2 and 3).



# 

### **Modifying the ACCOMP**

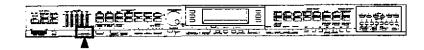
The **ACCOMP** part of the **AUTO PLAY CHORD** is comprised of three separate accompaniment parts.

By turning the ACCOMP PART 1, 2 and 3 buttons on and off, you can modify the way the ACCOMP component of the AUTO PLAY CHORD sounds.

	-ACC	OMP 8	PART-	
10	20		30	

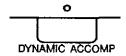
- If all three ACCOMP PART buttons are turned off, the ACCOMP part does not sound.
- The volume of each part of the accompaniment (ACCOMP PART 1, 2 and 3) can be adjusted. (Refer to page 75.)

### **Dynamic Accomp**



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

1. Turn on the DYNAMIC ACCOMP button.



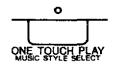
- 2. Play the keyboard in one of the AUTO PLAY CHORD modes.
- Depending on the condition of the performance, each accompaniment part changes.

### **One Touch Play**

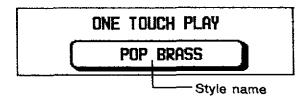


With the ONE TOUCH PLAY feature, the sounds and effects, etc. matching the selected rhythm are easily set in seconds and you are ready to play immediately.

- 1. Select a rhythm pattern.
- Press and hold the ONE TOUCH PLAY button until the indicator light goes out.

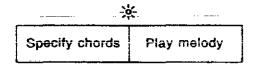


The display looks similar to the following.



- The panel settings are those which are suitable for the rhythm you selected.
- The keyboard automatically splits into left and right parts.

3. Play the keyboard.



The automatic rhythm begins to play immediately when a key on the left keyboard is pressed (SYNCHRO START). Play the melody with your right hand.

### Suggestions for using ONE TOUCH PLAY

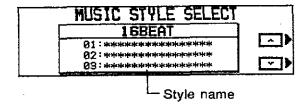
Press the INTRO & ENDING button before you play for a professional-sounding introduction. Use the ONE TOUCH PLAY registration as a starting point for your own registration. Alter the sounds, balance and tempo to your own taste and store your new registration in the PANEL MEMORY for future use. (Refer to page 38.)

# **Music Style Select**



With this feature, the panel settings are set according to the selected music style.

- 1. Select the PLAY STYLE (AUTO PLAY CHORD).
- Select from BASIC, ADVANCED and PIANIST.
- Press the MUSIC STYLE SELECT (ONE TOUCH PLAY) button momentarily.
- If the PLAY STYLE (AUTO PLAY CHORD)
  was not selected in step 1, the message
  "Please select APC mode!" appears on the
  display. At this point you should turn on one
  of the three AUTO PLAY CHORD buttons.
- 3. In the RHYTHM SELECT section, select a rhythm group.
- Use the ∧ and ∨ buttons to select a music style.

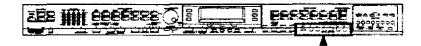


- 5. Play the keyboard.
- When a key on the left section of the keyboard is pressed, the automatic rhythm begins to play immediately (SYNCHRO START). Play the melody with your right hand.

### Suggestions for using MUSIC STYLE SELECT

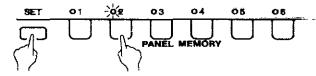
Press the INTRO & ENDING button before you play for a professional-sounding introduction. Use the MUSIC STYLE SELECT registration as a starting point for your own registration. Alter the sounds, balance and tempo to your own taste and store your new registration in the PANEL MEMORY for future use. (Refer to page 38.)

### **Panel Memory**



The PANEL MEMORY buttons allow you to set up the sounds, effects and rhythm and store them in a memory. Then, simply by pressing just one button, the stored panel settings are recalled instantly.

- 1. Set up the desired panel settings.
- With the SET button held down, press one of the number buttons of the PANEL MEMORY.



 The panel settings are stored in the selected number button. You can recall these panel settings any time during your performance just by pressing the same number button.

### **PANEL MEMORY** mode

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

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



2. Select the mode.

NORMAL mode Stores sound and volume balance settings only. EXPAND mode Stores the total setting including rhythm, TRANSPOSE and tempo.

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

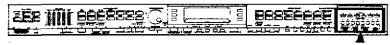
### Suggestions for using PANEL MEMORY

The initial factory setting of the 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 86.) Selecting the EXPAND mode will allow you to make full use of the initial factory settings of the PANEL MEMORY.

 You can change from one PANEL MEMORY to another by using a pedal. (Refer to page 77)

# 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 in a variety of ways. You may want to record your entire performance in one go (especially if you are using the **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 commercially sold disks on your own piano.

 Features and operation of the built-in Disk Drive are explained in Part V: Disk Drive.

### **Recording modes**

### ■ EASY RECORD (Refer to page 41.)

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.
- REALTIME RECORD (Refer to page 43.) Use the REALTIME RECORD function to record your performance in up to 16 tracks and create your own orchestra or band.

### ■ STEP RECORD (Refer to page 46.)

The STEP RECORD can be used to store the notes of the chord progression or rhythm progression one by one.

### **Memory capacity**

Expressed in terms of notes, the total number of notes which can be stored in all the **SEQUENCER** tracks is about 19,000. The remaining memory available for recording is shown on the display (LCD screen) as a percentage (MEM= %).

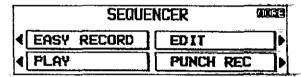
- When "Memory fulli" appears on the display, no more data can be stored in the SEQUEN-CER.
- The recorded contents can be saved on a disk for recall at a later time. (Refer to page 69.)

### **SEQUENCER** menu

In the PROGRAM SECTION, press the SEQUEN-CER button to turn it on.



· The display changes to the following.



 Press the MORE/RETURN button to view the next section of the menu.



### **EASY RECORD** (page 41)

This mode allows you to begin recording quickly without complicated set-up procedures.

### PLAY (page 51)

Adjust the settings related to playback operation.

### EDIT (page 52)

The following editing features are available.

- SONG CLEAR: Erase the recorded contents of all tracks.
- TRACK CLEAR: Erase the contents of a specific track.
- QUANTIZE: Correct the timing of the recorded performance.
- TRACK MERGE: Merge the recorded contents of two tracks and store in a third track.
- MEASURE ERASE: Erase the contents of specific measures.
- MEASURE COPY: Copy the contents of specific measures.

### PUNCH REC (page 55)

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

### TRACK ASSIGN (page 50)

Assign parts to up to 16 different tracks.

### MEDLEY (page 57)

Specify medley playback of songs recorded on a disk.

	•••		

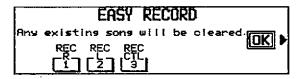
# 

# **Easy Record**

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

### Recording procedure

- 1. Set the desired sounds, effects, rhythms, etc.
- 2. Press the SEQUENCER button to turn it on.
- On the SEQUENCER menu display, select EASY RECORD.
- · The display changes to the following.



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

- The contents of all SEQUENCER tracks are erased (SONG CLEAR).
- Tracks available for recording are selected as follows.
  - 1: RIGHT part
  - 2: LEFT part
  - 3: CONTROL part

- 4. Press the OK button.
- The display changes to the REAL RECORD display.
- 5. Play the keyboard.
- Recording begins as soon as you start the rhythm or play the keyboard.
- 6. When you have finished recording, press the **SEQUENCER REC** button to turn it off.

You can also access the EASY RECORD display by pressing the **SEQUENCER REC** button for a few seconds.

### **Playback**

 Press the SEQUENCER RESET (FILL IN 1) button.



2. Press the START/STOP button.



 Your recorded performance is played back automatically.

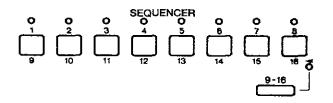
### Sequencer parts

The SEQUENCER has 16 recording tracks to which the various parts are assigned. The table below explains what kind of performance data can be recorded in each part.

Part name [name on display]	Used for	Recorded contents
RIGHT [RT] PART2 [P 2] LEFT [LFT] PART4 [P 4] : PART15 [P15]	ecording the perform- ance of each part (REALTIME)	Keyboard note data     Sound and volume settings     DIGITAL EFFECT, DIGITAL REVERB, SUSTAIN PEDAL on/off     FILL IN 1, 2, INTRO & ENDING on     START/STOP on/off
DRUM [DRM]	Recording the drums performance with the KEYBOARD PERC group sounds (REALTIME)	Keyboard note data Sound (drum KIT) and volume settings FILL IN 1, 2, INTRO & ENDING on START/STOP on/off DIGITAL REVERB on/off
CONTROL [CTL]	Recording changes in the panel button status (REALTIME/STEP)	Sound and rhythm changes, volume settings DIGITAL EFFECT, SUSTAIN PEDAL on/off DIGITAL REVERB on/off AUTO PLAY CHORD status DYNAMIC ACCOMP on/off VARIATION, FILL IN 1, 2, INTRO & ENDING on SPLIT status PANEL MEMORY selection changes TRANSPOSE status TEMPO setting, START/STOP on/off Pedal operation  etc.
CHORD [CHD]	Recording a chord progression for the AUTO PLAY CHORD (STEP)	Rhythm settings and selection changes     VARIATION, FILL IN 1, 2, INTRO & ENDING on     TEMPO setting, TRANSPOSE status     PANEL MEMORY selection changes     Volume of ACCOMP, BASS and DRUMS parts
RHYTHM [RHY]	Settings related to rhythm (STEP)	Rhythm settings and selection changes     VARIATION, FILL IN 1, 2, INTRO & ENDING on     TEMPO setting, START/STOP on/off

- You can use the TRACK ASSIGN function to assign parts to tracks as you wish. (Refer to page 50.)
- During recording, the MEASURE count on the display (M=) 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.
- PR307: In some cases, the recorded sustain pedal effect may have a different nuance during playback.

### ■ Factory-preset track assignment



1: RIGHT	9: PART5
2: PART2	10: PART6
3: LEFT	11: PART7
4: CHORD	12: PART8
5: CONTROL	13: PART9
6: RHYTHM	14: PART10
7: DRUM	15: PART11
8: PART4	16: PART12

### **Realtime Record**

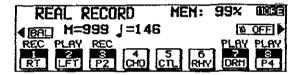
With REALTIME RECORD, your performance is recorded with the timing exactly as you played it on the keyboard.

### Recording

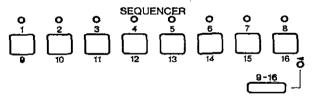
- 1. Set the sounds, effects, volumes, etc. for the parts you are going to record.
- Press the SEQUENCER REC button to turn it on.



The display looks similar to the following.



- Use the SEQUENCER track buttons (1 to 16) to specify the track for the part you are going to record. (For details about track assignment, refer to pages 42 and 50.)
- To select tracks 9 to 16, make your selection while pressing the 9-16 button.



- · The selected track button indicator flashes.
- The selected track numbers are highlighted on the display. Press the MORE/RETURN button to view tracks 9 to 16. In this case, the SE-QUENCER track buttons 1 to 8 become track buttons 9 to 16.
- You can select two or more tracks to record at one time.
- When you select a track, the panel settings in effect at that time are stored.

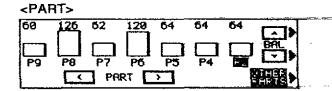
- 4. Use the **TEMPO/PROGRAM** dial to adjust the tempo.
- The tempo is shown on the display as a numerical value ( =).
- Turn the metronome on or off as desired with ON or OFF button.
- The metronome selection alternates between ON and OFF each time the button is pressed.
- · The metronome sound is not recorded.
- 6. Play the keyboard.
- Recording begins. You can also press the START/STOP button to start the rhythm and begin recording.
- On the display, "M=" indicates the current measure number, and "MEM=" indicates the remaining memory (%) available for recording.
- If you make a mistake in recording, you can erase the recording. (Refer to page 52.)
- You can also correct a specific portion of your performance without having to redo the whole part. (Refer to page 55.)
- 7. When you have finished recording, press the **SEQUENCER REC** button to turn it off.

### Volume adjustment

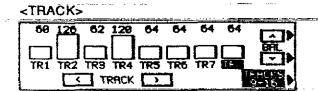
The volume of each part and track can be adjusted during recording.

On the REAL RECORD display, press the BAL button.

- The display looks similar to the following.
- There are several pages of balance display.
   Press the button at the lower right to show other balance displays.



Specify the part with the PART < and > buttons, and adjust the volumes with the BAL \( \triangle \) and \( \triangle \) buttons.



 Specify the track with the TRACK < and > buttons, and adjust the volumes with the BAL A and > buttons.

### **Playback**

- 1. Turn on the track buttons for the parts you wish to play back.
- Tracks whose indicators are not lit will not be played back.
- Press the SEQUENCER RESET (FILL IN 1) button.



· The recorded panel settings are recalled.

3. Press the START/STOP button.



The recorded performance is played back automatically.

### **Multi-track recording**

When recording several tracks, you can record one track while listening to the track or tracks already recorded.

- 1. Follow the procedure to record the first track.
- When you turn the SEQUENCER REC button off, confirm that the indicator for the track you recorded is lit. Turn on the buttons for the tracks you wish to have played back.
- 2. Follow the procedure to record the next track.
- When the START/STOP button is turned on, the track recorded in step 1 is played back. You can record the next track in time with this.
- On the display "REC" indicates tracks which are being recorded, and "PLAY" indicates tracks which are being played back.

Repeat steps 1 and 2 to record all the desired parts.



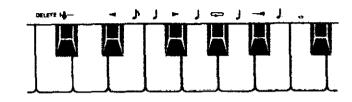


# **Step Record**

The step record mode can be used to store both the chord progression for the automatic accompaniment and the rhythm changes. During playback the chords and rhythms change at exactly the right time.

### Store a chord progression

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



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

### Note value keys

- Whole note
- Half-note
- Dotted guarter-note
- Quarter-note
- Eighth-note

### Reset key

+&— Press to begin storing from the beginning.

### Correction keys

- Move back one chord.
- ▶ Move forward one chord.

DELETE Press to erase recorded data.

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

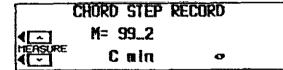
#### Example of storing a chord progression

С	С	F	G7	С	Am
•	•	ا	٦	ال	

1. Press the STEP REC button to turn it on.



- Use the SEQUENCER track buttons to select the track to which the CHORD part is assigned (the factory preset is 4).
- The display changes to the following.



· The display looks similar to the following.

### STEP RECORD PART SELECT

Press the flashing Sequencer Track button on the control manel for the mart that you want to do the STEP RECORD.

#### 3. 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 C major chord of whole-note length is stored.
- The chord name is shown on the display.

<Measure 3>

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



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



- <Measure 4>
- While playing a C chord, press the ∫ key one time
- (2) While playing an Am chord, press the j key one time.
- You can press the INTRO & ENDING button or a FILL IN button on the panel to store the desired pattern at the current position. (An intro can be stored only at the beginning.)
- Store a rest by pressing a note value key without specifying a chord.
- Chords can also be specified with the onefinger method.
- 4. At the end of the chord progression, press the End key ( II ).
- The piano 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 ( — ).
- If you press the INTRO & ENDING button instead of the End key ( —H ), when you play back your performance, an ending pattern will be produced and then the performance will stop.
- When you play back the track for the CHORD part, the chords of the automatic accompaniment change in accordance with the stored chord progression.

#### Correct the recorded chord progression

- 1. Follow the procedure to select the CHORD STEP RECORD display.
- Use the MEASURE buttons to go to the measure you wish to modify. Use the ◀ and ► Correction keys to move to the point you wish to edit.
- The measure number, beat number, chord name and length as well as the stored function (INTRO, FILL, etc.) are shown on the display.
- To go to the end of the chord progression, while pressing the Reset key ( + ♣—), press the key.
- The lengths of rests are indicated as follows.

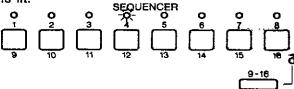
Example:

.....1-beat rest (quarter rest)
y.....1/2-beat rest (eighth rest)
x 10 + y ....10-1/2-beat rest

- You can press the **DELETE** key to erase the data which is displayed.
- The data which is displayed at that place is erased.
- When a chord is erased, the following data shifts to take its place.
- To erase all the data from the current track, while pressing the DELETE key, press the End key (—н ).
   Rests can also be erased. Each time the
- Rests can also be erased. Each time the DELETE key is pressed, the rest is erased in units of t x 1. The rest is erased last.
- 4. Store new chords.
- · You can store chords and fill-ins, etc.
- 5. When you have finished correcting the data, press the STEP REC button to turn it off.

### Playing back your stored chord progression with the AUTO PLAY CHORD

 Confirm that the indicator for the CHORD track is lit



- If the indicator is not lit, press the button to turn it on.
- Press the SEQUENCER RESET (FILL IN 1) button.



#### 3. Press the START/STOP button.



 The chords of the automatic accompaniment change in accordance with the stored chord progression. This means that you can concentrate on playing the melody.

### **■** Store rhythm changes

In addition to chord progressions, you can also store changes in the rhythm by using the STEP REC function.

<Storing the beginning panel settings>

If you wish to have the panel settings at the beginning of the tune stored, select the beginning sounds, rhythm and other panel settings before starting the recording procedure.

### <Storing an intro>

To store a drums-only intro, first turn on the STEP REC button, then turn on the INTRO & ENDING button.

- To store an intro played as part of the accompaniment pattern, first turn on the STEP REC button, then, while pressing the keys for a chord, turn on the INTRO & ENDING button.
- An intro can be stored only at the beginning of the first measure. When an intro is stored, the measure number is incremented by the corresponding number of measures.

### <Storing the count>

If you wish to store the count, first turn on the STEP REC button, then turn on the COUNT INTRO (FILL IN 2) button.

 A count can be stored only at the beginning of the first measure. When a count is stored, the measure number is incremented by the corresponding number of measures. <Storing a rhythm change in the middle of the tune>

Store the chord progression up to the point where the rhythm changes. Select a different rhythm just before the chord where the rhythm changes.

 The new rhythm will be in effect from this point until a different rhythm is specified.

### <Storing a fill-in>

To store a drums-only fill-in pattern, press the FILL IN 1 or 2 button, then use the note unit keys to specify the number of notes in the fill-in.

To store a fill-in played as part of the accompaniment pattern, press the FILL IN 1 or 2 button, then store a chord.

### <Storing a variation>

To store a variation at the desired position, before storing the chord, press the VARIATION button.

<Storing an ending>

If the INTRO & ENDING button is pressed at the end of the tune, an ending pattern is stored.

 If the INTRO & ENDING button is pressed while the keys for a chord are pressed, the ending will be played as part of the accompaniment pattern.

Storing PANEL MEMORY changes in the middle of the tune>

Changes In the PANEL MEMORY selection can be stored in the SEQUENCER. Store the chord progression up to the point where the PANEL MEMORY selection changes. Press the desired PANEL MEMORY button just before the chord where the panel settings change.

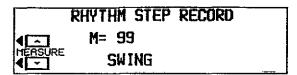
 The new settings will be in effect from this point until a different PANEL MEMORY is specified. <Other settings which are stored in the SEQUEN-CER>

- ACCOMP PART button on/off status
- Balance settings for the DRUMS, BASS and ACCOMP parts
- TEMPO setting, TRANSPOSE setting
- TECHNI-CHORD button on/off status
- DYNAMIC ACCOMP button on/off status
- PLAY STYLE setting

### Store a rhythm progression

Data for the rhythm progression can be stored by measures with the step recording method.

- 1. Press the STEP REC button to turn it on.
- Use the SEQUENCER track buttons to select the track to which the RHYTHM part is assigned (the factory preset is 6).
- The display changes to the following.



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

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

- Be sure to store the START/STOP data in the measure in which the rhythm starts.
- If you are storing a COUNT INTRO or INTRO, store this data before the START/STOP data.

- Repeat steps 3 and 4 to continue storing the rhythm progression.
- 6. At the end of the rhythm progression, press the Repeat key or the End key.

Repeat key ( ) During playback, the recorded rhythm progression is repeated.

End key ( — H )

During playback, playback of the recorded rhythm progression stops at this point.

- · The instrument exits the recording mode.
- If you press the INTRO & ENDING button instead of the End key, when you play back your performance, an ending pattern will be produced and then the performance will stop.

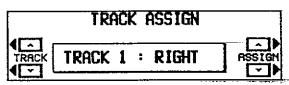
- **■** Correct the recorded rhythm progression
- 1. Follow the procedure to select the RHYTHM STEP RECORD display.
- Use the MEASURE ∧ and ∨ buttons, or ◀ and
   keys to go to the measure you wish to modify.
- 3. Press the DELETE key to erase data.
- To erase all the data from the current track, while pressing the DELETE key, press the Endkey ( — !! ).

- 4. Store the new rhythm, etc.
- 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.
- 5. When you have completed making corrections, turn of the STEP REC button.

### Track Assign

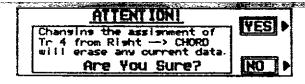
Each SEQUENCER part is already assigned to a track number. However, you can use the TRACK ASSIGN function to assign parts to tracks as you wish. This function is also used to designate the tracks used for the rhythm data and chord progression data.

- On the SEQUENCER menu display, select TRACK ASSIGN.
- The display looks similar to the following.



- Use the TRACK ∧ and ∨ buttons to select the track.
- Use the ASSIGN ∧ and ∨ buttons to select the part for the specified track.
- Select one of the following parts: RIGHT, LEFT, PART2, PART4 to PART15, DRUM, CONTROL, CHORD, RHYTHM. (For an explanation of each SEQUENCER part, refer to page 42.)
- When a part other than the CONTROL, CHORD or RHYTHM part is assigned, the track assign procedure is completed at this point.
- The RHYTHM, CONTROL and CHORD parts cannot be assigned to more than one track.

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



### Playback from a specific measure

You can specify the measure from which you wish playback to begin.

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



- 2. Turn on the buttons for the tracks you wish to have played back.
- The numbers of the selected tracks are highlighted on the display. (To view the display for tracks 9 to 16, press the MORE/RETURN button.)
- Use the MEAS ∧ and ∨ buttons to specify the beginning measure of playback.
- "M=" indicates the current measure number.
- You can quick-search for the desired measure while listening to the recorded performance by holding down the FWD button. (This button does not work during normal playback.)
- You can press the RES button to return to the beginning of the first measure and recall the panel status which was in effect at the beginning of recording. (This button does not work during normal playback.)

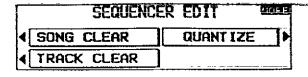
- 4. Press the START/STOP button.
- The recorded performance is played back from the specified measure.
- When playback is begun from a measure in which an INTRO, COUNT INTRO, FILL IN or ENDING is recorded, the corresponding function does not work.
- To stop playback, press the START/STOP button again.
- If the START/STOP button is pressed again, playback will continue from the point it was interrupted.

# **Editing the recorded performance**

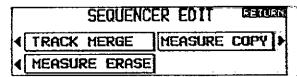
The edit feature allows you to erase or change portions of your performance after it has been recorded.

### Select the edit function

- On the SEQUENCER menu display, select EDIT.
- An edit menu similar to the following appears.



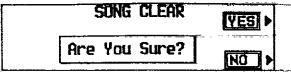
 Press the MORE/RETURN button to view the next part of the edit menu.



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

### **80NG CLEAR**

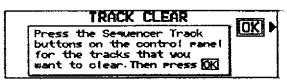
Erase the recorded contents of all tracks.



- Press the YES button to execute the function, or press the NO button to cancel the function.
- When the data has been erased, "Completed!" appears on the display, and the instrument returns to the normal performance mode.

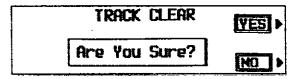
### TRACK CLEAR

Erase the contents of a specific track.



 Use the SEQUENCER track buttons to select the track or tracks you wish to clear.

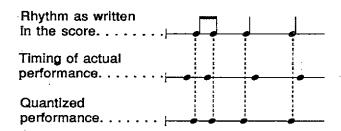
- 2. Press the OK button.
- The following confirmation display appears.
   Press the YES button to execute the function, or press the NO button to cancel the function.

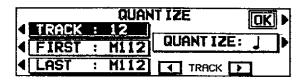


 When the data has been erased, "Completed!" appears on the display.

### **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.



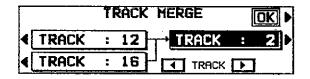


- Select TRACK. Use the < and > buttons to specify the track number.
- This function does not work for the CONTROL, RHYTHM and CHORD tracks.
- 2. Select FIRST. Use the < and > buttons to specify the start point (measure number).
- Select LAST. Use the < and > buttons to specify the end point (measure number).
- 4. Select QUANTIZE. Use the < and > buttons to specify the quantize level.
- Select from J, J, A, J, J3, J3, J3. (A 3 denotes a triplet-type note.)
- 5. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

### TRACK MERGE

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

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



- Select the two source tracks (left half of the display).
- Use the buttons on the left side of the display to select one of the source tracks, and use the < and > buttons to specify the track number.
   Repeat for the other source track.
- This function does not work for the CONTROL, RHYTHM and CHORD tracks.
- If the part assigned to the upper source track ("upper" meaning its position on the TRACK MERGE display) is different from the part assigned to the lower source track, when the parts are merged in the destination track, the new track is assigned the same part as the upper track.

- Select the destination track (right half of the display).
- Press the button on the right side of the display to select the destination track, and use the < and > buttons to specify the track number.
- 3. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.

### **MEASURE ERASE**

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



- Select TRACK. Use the < and > buttons to specify the track number.
- You cannot select the track for the RHYTHM part or CHORD part in which a repeat command has been stored.
- If ALL is selected, data is erased from the specified measures of all the tracks at one time.

- Select FIRST. Use the < and > buttons to specify the start point (measure number).
- 3 Select LAST. Use the < and > buttons to specify the end point (measure number).
- Select ERS DATA. Use the < and > buttons to specify the type of data to be erased.

ALL: All data is erased.

NOTE: Only note data is erased.

CONTROL: Only control data (volume, effect

and other panel settings and selection changes) is erased.

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

### **MEASURE COPY**

Copy measures from one track (source track) to another track (destination track).

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



- 1. Select FROM TRK. Use the < and > buttons to specify the source track.
- You cannot select the track for the RHYTHM part or CHORD part in which a repeat command has been stored.
- If ALL is selected, the specified measures are copied to all tracks at the same time.
- Select FIRST. Use the < and > buttons to specify the start point (measure number) on the source track.

- Select LAST. Use the < and > buttons to specify the end point (measure number) on the source track.
- Select TO TRK Use the < and > buttons to specify the destination track.
- Measures in a track for the CONTROL, RHYTHM or CHORD part can be copied only to the same track.

- Select START. Use the < and > buttons to specify the start point (measure number) on the destination track.
- 6. Press the OK button.

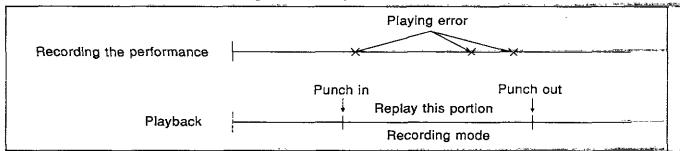
・経過の1・17 を発展では大型の高さい。

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

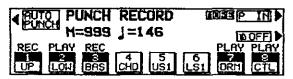
### **Punch Record**

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

"Punch in" means to enter the recording mode, and "punch out" means to exit it.



- In addition to the part(s) you are going to correct, you can also listen to other parts during punch recording. Turn on the track buttons for the parts you wish to play back.
- On the SEQUENCER menu display, select PUNCH REC.
- The display looks similar to the following.



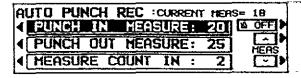
- Select the track which contains the portion you want to correct.
- On the display "REC" indicates tracks which are being recorded, and "PLAY" indicates tracks which are being played back.
- To view the display for tracks 9 to 16, press the MORE/RETURN button.
- Set the metronome to on or off with the ON or OFF button.
- Press the START/STOP button to begin playback of the specified track.

- 5. During playback, press the P IN button at the point you want to begin recording.
- Recording begins as soon as the P IN button is pressed. Begin playing at this point.
- The P IN button switches to the P OUT button.
- Press the P OUT button at the point you want to stop recording.
- Recording stops immediately.
- When you have finished correcting the performance, press the SEQUENCER button to turn it off.
- You can also begin punch-in recording by playing the keyboard. You can specify the punchin/punch-out points with a pedal. (Refer to page 77.)

### **AUTO PUNCH RECORD**

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

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



- Select PUNCH IN MEASURE. Use the MEAS

   ∧ and ∨ buttons to specify the number of the
   punch-in measure.
- 4. Select PUNCH OUT MEASURE. Use the MEAS ∧ and ∨ buttons to specify the number of the punch-out measure.
- The number of the PUNCH OUT MEASURE must be higher than the number of the PUNCH IN MEASURE.
- The specified PUNCH OUT MEASURE is not recorded.
- 5. Select MEASURE COUNT IN. Use the MEAS A and V buttons to specify the number of leadin measures you wish to have played back before the punch-in measure.
- Playback will begin from the measure indicated by CURRENT MEAS on the display.
- Set the metronome to on or off with the ON or OFF button.

- 6. Press the START/STOP button.
- Playback begins from the measure specified in step 5.
- 7. Correct the performance.
- The mode changes automatically to the recording mode at the specified punch-in measure.
   Begin playing at this point. The mode automatically changes back to the playback mode at the specified punch-out measure.
- Note that, even when you have set the punch-in and punch-out measures, you can begin recording before the punch-in measure starts by playing the keyboard or pressing a pedal to which the PUNCH IN/OUT function has been assigned.
- 8. When you have finished correcting the performance, press the SEQUENCER REC button to turn it off.

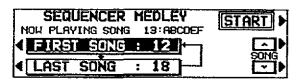
1 (22) Line 2. According to Approximate である。 Line 2. According to Approximate to

Contracting to the contraction of the contraction o

# **Sequencer Medley**

You can have the songs on a disk played back continuously in order.

- 1. Insert the disk into the Disk Drive.
- On the SEQUENCER menu display, select MEDLEY.
- The display changes to the following.



- 3. Select FIRST SONG. Use the ∧ and ∨ buttons to specify the number of the first song you wish to have played.
- Select LAST SONG. Use the ∧ and ∨ buttons to specify the number of the last song you wish to have played.

- 5. Press the START button.
- The songs from the specified range are repeatedly played back in order.
- If you press the START/STOP button during medley play, the song currently playing will stop, and playback continues from the next recorded song on the disk.
- 6. To stop medley play, press the STOP button.
- 7. Press the SEQUENCER button to turn it off.
- The procedure for saving your SEQUENCER performances on a disk is explained in Part V: Disk Drive (page 65).
- Performances which have been saved in the Standard MIDI File format are not played back in this mode.

# 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 3 ACCOMP parts. These parts would form the backing of a song, for example: Drums, Acoustic Bass, Piano, Jazz Guitar and Vibes. You may find it useful at first to copy and edit a preset pattern.



# Rhythm components which can be stored

In the NORMAL mode, you can store up to 12 different rhythms (6 in each memory bank, A and B).

- When you set the COMPOSER mode to the EXPAND mode, you can also create iNTRO, FILL IN and ENDING patterns. (Refer to page 64.)
- The recorded contents can be saved on a disk for recall at a later time. (Refer to page 69.)

#### Memory capacity

Expressed in terms of notes, the total number of notes which can be stored in all the COM-POSER memories is about 8,600. The remaining memory available for recording is shown on the RECORD display as a percentage (MEM= %).

- When "Memory full!" appears on the display no more data can be stored in the COM-POSER.
- It is a good practice to save your completed rhythm patterns on disks before clearing any of the COMPOSER memories. (Refer to page 69.)

### Two ways to record in the COMPOSER

There are two ways to create and record a rhythm.

■ Edit a preset rhythm

Use this method to easily create a new rhythm by modifying part of a preset rhythm.

### ■ Create a completely new rhythm

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

### Setting up to create a rhythm pattern

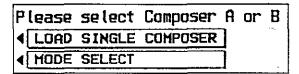
First decide whether you are going to "Edit a preset rhythm pattern" or "Create a completely new rhythm." Below are the instructions for preparing to edit a preset rhythm pattern. If you are going to create a completely new rhythm pattern, follow the instructions on page 60.

### Edit a preset rhythm pattern

- Select a preset rhythm using the RHYTHM SELECT.
- · Do not select a metronome rhythm.
- In the PROGRAM SECTION, press the COM-POSER REC button to turn it on.

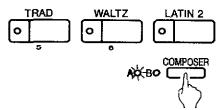
COMPOSER REC

The display looks similar to the following.

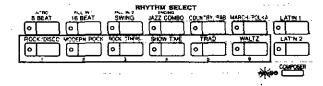


- The LOAD SINGLE COMPOSER option allows you to load recorded COMPOSER data from a disk into your instrument's memory. (Refer to page 68.)
- The MODE SELECT option is used when you are also going to create fill-in and intro patterns. (Refer to page 64.)

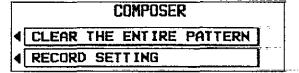
Press the COMPOSER button to select a bank in which to record the rhythm (A or B).



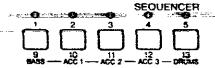
In the lower row of the RHYTHM SELECT section, press one of the numbered buttons (1 to 6) in which to record the rhythm.



- Select one of the six buttons with the flashing indicators.
- "COPY COMPLETED!" appears on the display, and the rhythm you specified in step 1 is copied to the specified number button.
- The display looks similar to the following.



- 5. If necessary, select RECORD SETTING, and make the various recording settings. (Refer to page 61.)
- The TIME SIG. and MEASURE settings can be adjusted only when the pattern has been cleared by the CLEAR THE ENTIRE PATTERN function.
- 6. Press the button for the part of the pattern you want to change first.



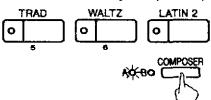
- · The indicator flashes.
- The rhythm you selected in step 1 and the metronome start, and recording begins. (Refer to page 62.)

### Create a completely new rhythm

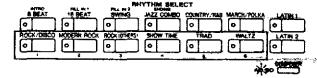
 Press the COMPOSER REC button to turn it an.



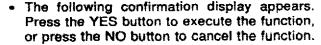
2. Press the **COMPOSER** button to select a bank in which to record the rhythm (**A** or **B**).



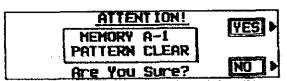
In the lower row of the RHYTHM SELECT section, press one of the numbered buttons (1 to 6) in which to record the rhythm.



- Select one of the six buttons with the flashing indicators.
- After "COPY COMPLETED!" is shown, the display changes to the following.



4. Press the CLEAR THE ENTIRE PATTERN but-



- When you press the YES button, "Completed!" is shown, and then the display returns to the COMPOSER display.
- Press the RECORD SETTING button and make the various recording settings.
- The display of recording settings changes in order as follows (the MORE/RETURN button is used to view the different pages of the display):

	COMPOSER					
4	CLEAR THE ENTIRE PATTERN	-				
4	RECORD SETTING					

### ■ Time signature, number of measures



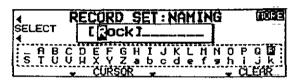
#### TIME SIG.

Select TIME SIG. and use the  $\wedge$  and  $\vee$  buttons to specify the time signature (from 1/4 to 8/4).

### **MEASURE**

Select MEASURE and use the  $\wedge$  and  $\vee$  buttons to specify the number of measures in your repeating rhythm pattern (from 1 to 8).

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



- Use the CURSOR buttons to highlight the character position in the name box. Use the SELECT buttons to select the character. Repeat these steps to type the whole name (up to 13 characters).
- · To erase the name, press the CLEAR button.

### ■ Key, chord type



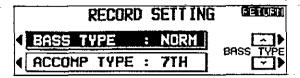
### **KEY**

Select KEY and use the  $\land$  and  $\lor$  buttons to specify the root note of the chords you wish to record.

### CHORD

Select CHORD and use the  $\wedge$  and  $\vee$  buttons to specify the type of chord you wish to record (MINOR or MAJOR).

### ■ Bass and accomp phrase progression



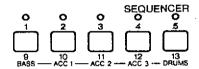
#### **BASS TYPE**

Select BASS TYPE and use the  $\land$  and  $\lor$  buttons to specify the type of phrase progression for the BASS part (NORMAL or 7TH).

#### ACCOMP TYPE

Select ACCOMP TYPE and use the  $\land$  and  $\lor$  buttons to specify the type of phrase progression for the **ACCOMP** parts (NORMAL or 7TH).

6. Press the button for the part you want to record first.



- The indicator flashes.
- The metronome sound starts and recording begins. (Refer to page 62.)

# Record your rhythm pattern

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

### Recording procedure

M= 2	MEM= 99 %	PART CLR
<b>◆</b> BAL	J=120	ALL ERASE
<b>■ GUANTIZE=0</b>	ed edio	INST ERASE
	w	

- 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 sound group.
- For the ACCOMP 1, ACCOMP 2, ACCOMP 3 and BASS parts, select sounds from groups other than the KEYBOARD PERC sound group.
- 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, follow the RECORD SETTING procedure to specify a KEY and CHORD. (Refer to page 61.)

- When you have finished recording one part, use the part buttons to select the next part to record.
- 5. Repeat steps 1 through 4 to record all the parts of the rhythm.
- When you have finished recording the rhythm, press the COMPOSER REC button to turn it off.

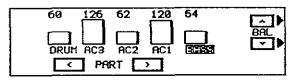
### ■ Maximum simultaneous tones

The maximum number of notes which can sound simultaneously for each part is 8. Even if you record more notes at one timing, only 8 are produced when the pattern is played back.

### The display during recording

#### RAI

Press this button during recording to access the following display if you wish to adjust the volume of each part during recording. (These settings are not recorded).



- Use the PART < and > buttons to select the part, and the BAL ∧ and ∨ buttons to adjust the volume (0 to 127).
- If you press the EXIT button, the display returns to the previous display.

### **QUANTIZE**

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

#### SOLO

When you press this button while you are recording, only the part which is currently being recorded is played back.

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

### PART CLR

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

### **ALL ERASE**

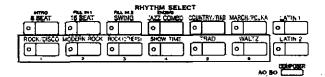
The performance recorded in the selected part is erased for as long as this button is pressed.

#### **INST ERASE**

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

### Playback

- Press the COMPOSER button to select the bank in which the rhythm pattern is stored (A or B).
- In the RHYTHM SELECT section, press the button in which the rhythm is recorded.



- · The indicator of the selected button lights.
- Adjust the tempo.

3. Press the START/STOP button.



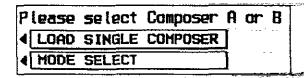
- The **DRUMS** part begins to play back.
- The BASS and ACCOMP parts are played back when you use the AUTO PLAY CHORD.
- The ACCOMP PART 1, 2 and 3 buttons should be on.

# **Creating intro and fill-in patterns**

You can create and play back your original intro, fill-in and ending patterns.

### Composer mode

- Press the COMPOSER REC button to turn it on.
- If you wish to use the patterns from a preset rhythm, select the rhythm beforehand from the RHYTHM SELECT section.



- 2. Press the MODE SELECT button.
- The display looks similar to the following.



3. Select the mode.

### NORMAL mode

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

#### **EXPAND** mode

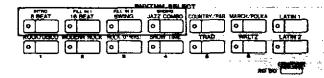
When a FILL IN button or the INTRO & ENDING button is pressed during playback, the corresponding pattern you created is played back.

 Select the EXPAND mode when you wish to create your own fill-ins and intros, etc.

### Recording

After setting the MODE SELECT, perform the following procedure.

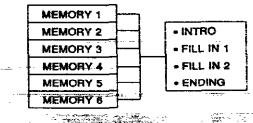
- 1. Press the EXIT button.
- Press the COMPOSER button to select the bank into which to record the pattern (A or B).
- Select one of the four leftmost buttons in the upper row of the RHYTHM SELECT in which to record your pattern.



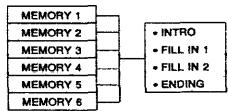
- The indicators for the INTRO, FILL IN 1, FILL IN 2 and ENDING buttons flash. Select the one corresponding to the pattern you are going to record.
- 4. Make the appropriate recording settings. (Refer to page 61.)
- The pattern cannot be named.

- 5. Record the pattern. (Refer to page 62.)
- The newly recorded intro and fill-in patterns are used with all the COMPOSER rhythms (1 to 6) in the same bank (A or B).





<Bank B>



### Part V Disk Drive

### **Outline of the Disk Drive function**

The Disk Drive enables you to store **COMPOSER** memories and **SEQUENCER** data etc. for future use. You can save (and load) the entire setup of the piano or individual sections. You can also save and load in Standard MIDI File format, which is the international standard format for **SEQUENCER** data.

### **Internal memory and Disk Drive**

The storable internal memory is fixed at a limited capacity, but this external memory device expands the storable memory infinitely. By recording performance data, one simple procedure lets you load the recorded settings into the plano's memory at any time.

- Only 3.5 inch 2DD or 2HD disks can be used.
- Specific formats are handled as follows.

		SAVE	LOAD
TECHNICS	File FORMAT	0	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 channels.

FORMAT 1: There is an unlimited number of tracks on the disk, each of which can contain the 16 MIDI channels.

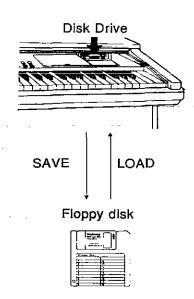
### ■ Playback of commercial software

Disks recorded using the Disk Drive of this instrument can, of course, be played back on your plano. But this instrument also reads song data from 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.

### **About Standard MIDI Files**

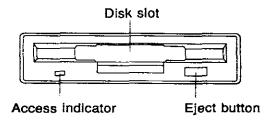
"Standard MIDI File" is a standardized data format which makes it possible for music data to be exchanged among different sequencers. Data stored in this format on sequencers of different models can be played back on this instrument, and vice versa.

- Only files with the ".MID" extension can be loaded.
- No more than 128 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 Disk Drive



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

### **Eject button**

Press to remove the disk from the Disk Drive.

#### **Access Indicator**

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

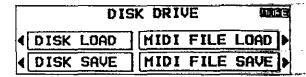
### **Cutline** of procedure



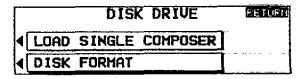
1. Press the DISK DRIVE button to turn it on.



The display changes to the following.



 Press the MORE/RETURN button to see the next page of the menu.



### **DISK LOAD** (page 67)

Load data from a disk into your instrument's memory.

### DISK SAVE (page 69)

Save data from your instrument's memory to a disk.

### MIDI FILE LOAD (page 67)

Load song data which was stored in the Standard MIDI File format into your instrument's memory.

### MIDI FILE SAVE (page 70)

Save data from your instrument's memory in the Standard MIDI File format to a disk.

LOAD SINGLE COMPOSER (page 68)

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

### DISK FORMAT (page 68)

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

- 2. Select the desired menu and follow the procedures on the corresponding display.
- Press the EXIT button to go back to the previous display. To go to another menu, use the EXIT button to go back to the menu display.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- When you have finished setting the functions, press the DISK DRIVE button to turn it off.

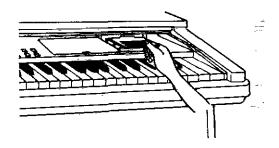
75-54 AM-11 1 11

### **Loading data**

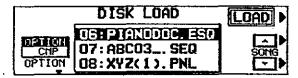
Recall (load) the data from the disk to your Instrument's memories. Please note that the load procedure causes any data which is currently stored in the relevant memories to be erased.

### DISK LOAD

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



- On the DISK DRIVE menu display, select DISK LOAD.
- The display looks similar to the following.



- 3. Use the SONG ∧ and ∨ buttons to select the number of the song file to load.
- Files in which data is currently stored are indicated by the file name following the file number.

- Use the OPTION buttons to specify the kind of data you wish to load from the disk to your instrument.
- The OPTION which was specified during the SAVE procedure is automatically selected.
   Skip this step if you do not wish to change the selection. (Refer to page 69.)
- 5. Press the LOAD button.
- The DISK 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.

### ■ Loading data from another manufacturer's disk

Data from another manufacturer's disk can be loaded into your instrument's memory.

- There may be some file data that cannot be loaded.
- Data which has been loaded from another manufacturer's disk cannot be saved to a disk.
- The arrangement of percussion instruments may be different from this instrument, or the settings on this instrument may change.

You can also access the DISK LOAD display by pressing the **DISK DRIVE** (**DISK LOAD**) button for a few seconds.

### MIDI FILE LOAD

Data which has been saved in the Standard MIDI File format can be loaded into this instrument's **SEQUENCER**.

- Insert the disk on which data is saved in Standard MIDI File format into the Disk Drive.
- On the DISK DRIVE menu display, select MIDI FILE LOAD.
- The display looks similar to the following.

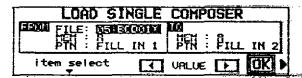


- Use the SONG ∧ and ∨ buttons to select the name of the file with the desired data.
- 4. Press the LOAD button.
- The MIDI FILE LOAD operation begins.
- When the operation has been successfully completed, "Completed!" is shown on the display.
- Press the START/STOP button to begin playback of the song data.

### **LOAD SINGLE COMPOSER**

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

- Insert the disk with the stored COMPOSER data into the Disk Drive.
- On the DISK DRIVE menu display, select LOAD SINGLE COMPOSER.
- The display looks similar to the following.



- 3. Select a pattern to load from the disk (FROM).
- Use the item select button to specify the type of data.

FILE: Use the < and > buttons to select the number.

MEM: Use the < and > buttons to select the memory name (A or B).

PTN: Use the < and > buttons to select the pattern name.

4. Select the load destination pattern (TO).

 Use the item select button to specify the type of data.

MEM: Use the < and > buttons to select the memory name (A or B).

PTN: Use the < and > buttons to select the pattern name.

5. Press the OK button.

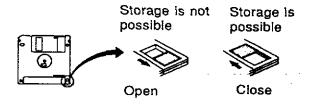
- When the operation has been successfully completed, "Completed!" is shown on the display.
- The LOAD SINGLE COMPOSER procedure can also be begun from the COMPOSER REC menu display. (Refer to page 59.)

# Formatting a disk

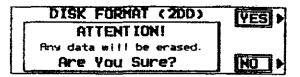
New disks can be used only after they have been formatted. Follow the procedure below to format a new disk or erase the contents of a recorded disk.

### DISK FORMAT

- This procedure clears the entire contents of the disk.
- You can use 3.5 Inch 2DD or 2HD disks; however, 2HD disks formatted as 2DD cannot be used.
- Reformat a disk if it cannot be saved to or loaded from properly because of exposure to a magnetic field.
- To format the disk, the write-protect Window must be closed, as illustrated.



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



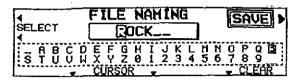
- Press the YES button to format the disk, or press the NO button to cancel the format.
- After about one minute, formatting is completed and "Completed!" is shown on the display.

### Saving data

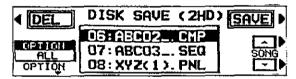
Use the Disk Drive to save the recorded data and panel settings on a disk. A formatted disk should be in place in the Disk Drive.

### **DISK SAVE**

- On the DISK DRIVE menu display, select DISK SAVE.
- · The display changes to the following.



- 2. Type a name for the new data file (up to 6 characters).
- Use the CURSOR buttons to highlight the character position in the name box. Use the SELECT buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- To erase the name, press the CLEAR button.
- 3. Press the SAVE button.
- The display looks similar to the following.



- Use the SONG ∧ and ∨ buttons to select the file number in which to save the data (01 to 20).
- Files in which data is currently stored are indicated by the file name following the file number.
- The maximum number of songs which can be saved may be less than 20 if you are saving many songs which use a lot of memory.
- The maximum number of songs which can be saved is 10 if you are saving only songs with the OPTION set to ALL.

Use the OPTION buttons to specify the kind of data you wish to store in the data file on the disk.

ALL <ALL>
All the data from this instrument.

SEQUENCER <SEQ>
Data from the SEQUENCER

COMPOSER <CMP>
Data from the COMPOSER

PANEL MEMORY <PNL>
Data stored in the PANEL MEMORY

- The abbreviated indication (in < > brackets) for the selected item appears after the file name.
- 6. Press the SAVE button.
- When the operation has been successfully completed, "Completed!" is shown on the display.
- If you attempt to save data to a file number in which data is currently saved, the display changes to the confirmation display. Press the NO button if you wish to cancel the procedure.
   When the YES button is pressed, the DISK SAVE operation begins.

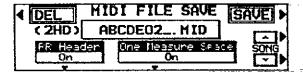
#### ■ FILE delete

To erase a song from a disk, after selecting the number of the song you wish to erase, press the DEL button. The display changes to the confirmation display. Press the YES button to erase the song, or press the NO button to cancel the procedure.

### **MIDI FILE SAVE**

The data from this instrument's **SEQUENCER** can be saved in the Standard MIDI File format.

- What you can save in the Standard MIDI File format is ordinary performance data, such as note data. Data which is specific to Technics instruments (such as SEQUENCER data for the chord and rhythm parts, COMPOSER data, PANEL MEMORY data, etc.) Is not saved. If you wish to also save the special Technics data, first use the DISK SAVE procedure to save the data to a disk in the Technics format, and then follow the MIDI FILE SAVE procedure below.
- 1. On the **DISK DRIVE** menu display, select **MIDI** FILE SAVE.
- The display changes to the FILE NAMING display.
- 2. Type a name for the new data file (up to 8 characters).
- Use the CURSOR buttons to highlight the character position in the name box. Use the SELECT buttons to select the alphanumeric character. Repeat these steps to type the whole name.
- · To erase the name, press the CLEAR button.
- 3. Press the SAVE button.
- The display looks similar to the following.



- At this time, if you use the SONG A and V buttons to select the name of a different file that was stored previously, you can replace that file with the new file when you save the data.
- 4. Press the SAVE button.
- When the operation has been successfully completed, "Completed!" is shown on the display.
- If you attempt to save data to a name of the file name in which data is currently saved, the display changes to the confirmation display.
   Press the NO button if you wish to cancel the procedure. When the YES button is pressed, the MIDI FILE SAVE operation begins.

#### ■ PR Header

You can save the sound, volume and other settings for each part as data at the beginning of the file. Select YES to save the data, or NO if you do not wish to have the data saved at the file beginning.

#### ■ One Measure Space

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 YES to insert a one-measure space, or NO if you do not wish to insert the space.

 When set to YES, a space is added each time a file is saved. Therefore, if you have already saved a file once with this option set to YES, please set it to NO each time the file is subsequently saved.

#### FILE delete

To erase a song from a disk, after selecting the name of the file you wish to erase, press the DEL button. The display changes to the confirmation display. Press the YES button to erase the song, or press the NO button to cancel the procedure.

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# Part VI Adjusting the functions

Various functions on your instrument can be custom-set to match your personal tastes and style of play, giving you maximum versatility and control of your instrument.



# **Outline of procedure**

### **TUNE & TOUCH**

The tuning of this instrument for when playing with other instruments, the touch response and other functions can be adjusted.

 In the PROGRAM SECTION, press the TUNE & TOUCH button to turn it on.



· The display changes to the following.



### MASTER TUNE (page 72)

Fine-tune the pitch of the entire instrument.

# PIANO TUNING (page 73) Select the type of tuning.

### TOUCH SENSE (page 73)

Adjust the keyboard touch response.

### MINIMUM RANGE (page 73)

Select whether or not sound is generated when the keys are pressed very softly.

- 2. Select the desired menu and follow the procedures on the corresponding setting display.
- Press the EXIT button to go back to the previous display. To go to another menu, use the EXIT button to go back to the menu display.
- When you have finished setting the functions, press the TUNE & TOUCH button again to turn it off.

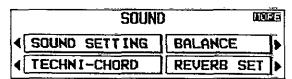
### SOUND

Functions related to the sounds can be adjusted.

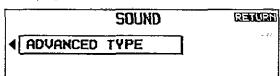
1. In the **PROGRAM SECTION**, press the **SOUND** button to turn it on.



· The display changes to the following.



 Press the MORE/RETURN button to view the next page of the menu.



### **SOUND SETTING** (page 74)

Set the various sound attributes for each part.

 SOUND SELECT Select the sound for each part.

- KEY SHIFT
   Adjust the key of each part in semitone Increments.
- PAN SETTING
   Adjust the stereo balance of each part.
- PART REVERB
   Set the reverb to on or off for each part.
- P. BEND RANGE
   Set the pitch range when MIDI pitch bend data is received.

### BALANCE (page 75)

Adjust the volume of each part.

### **TECHNI-CHORD** (page 76)

Select the desired harmony style for the TECH-NI-CHORD.

### **REVERB SET** (page 76)

Select the type and depth of the DIGITAL REVERB.

### ADVANCED TYPE (page 77)

Specify the type of chord recognition for the AD-VANCED mode of the AUTO PLAY CHORD.

- Select the desired menu and follow the procedures on the corresponding setting display.
- Press the EXIT button to go back to the previous display. To go to another menu, use the EXIT button to go back to the menu display.
- 3. When you have finished setting the functions, press the SOUND button again to turn it off.

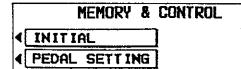
### **Pedals**

You can assign different functions to the pedals.

In the PROGRAM SECTION, press the MEM & CTRL button to turn it on.



The display changes to the following.



PEDAL SETTING (page 77)

Change the pedal settings to the desired functions.

- For details about the INITIAL setting, refer to page 86.
- Select PEDAL SETTING, and follow the procedures on the corresponding setting display.
- When you have finished setting the functions, press the WEW & CTRL button again to turn it off.

# **Tune & Touch functions**

Select the item and perform the setting procedures.

### **MASTER TUNING**

You can fine-tune the pitch of the entire instrument. This is convenient when this instrument is played with other instruments or with a recorded performance.

- 1. On the **TUNE & TOUCH** menu, select MASTER TUNE.
- The display looks similar to the following.

MASTER TUNING	
440.3 Hz	
 440.5 112	

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

# ...

### **PIANO TUNING**

Select from two types of tuning.

- On the TUNE & TOUCH menu, select PIANO TUNING.
- The display looks similar to the following.



Use the ON and OFF buttons to select the type of tuning.

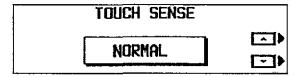
ON: Standard acoustic plano tuning, in which the lower pitches are tuned slightly lower and the higher pitches are tuned slightly higher (default setting).

OFF: One octave is divided into pitches of 12 equally spaced intervals.

### **TOUCH SENSE**

Adjust the amount of keyboard touch response.

- 1. On the TUNE & TOUCH menu, select TOUCH SENSE.
- The display looks similar to the following.



- Use the ∧ and ∨ buttons to select the touch sensitivity.
- Select from HEAVY 2, HEAVY 1, NORMAL, LIGHT 1 and LIGHT 2.

### **MINIMUM RANGE**

For piano sounds, no sound is generated when the keys are played very softly. However, you can change the setting so that sound is produced no matter how softly the keys are pressed.

- On the TUNE & TOUCH menu, select MINI-MUM RANGE.
- The display looks similar to the following.



2. Use the ON and OFF buttons to change the setting.

ON: No sound is produced when a key is pressed extremely softly.

OFF: Sound is produced regardless of how softly the keys are pressed.

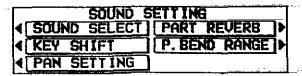
# **Sound functions**

Select the item and perform the setting procedures.

### **SOUND SETTING**

Set the various sound attributes for each part.

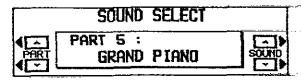
- On the SOUND menu, select SOUND SET-TING.
- The display looks similar to the following.



- 2. On the display, select the attribute you wish to adjust.
- 3. Make each setting (see below).

### **■ SOUND SELECT**

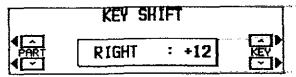
Select the sound for each part.



- Use the PART ∧ and ∨ buttons to select the part.
- 2. Use the SOUND A and V buttons to select the sound.
- You can also use the SOUND SELECT buttons to select the sound.

### **■ KEY SHIFT**

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

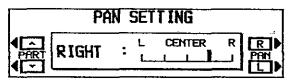


 Use the PART ∧ and ∨ buttons to select the part.

- 2. Use the KEY ∧ and ∨ buttons to specify the amount of key shift (-24 to +24).
- A value of 1 means a shift of one semi-tone.
   To raise (or lower) the pitch one octave, set the value to +12 (or -12).
- The ∨ button is used to lower the pitch, and the ∧ button to raise the pitch.
- The pitch for PART 16 (DRUM) cannot be shifted.

### **■ PAN SETTING**

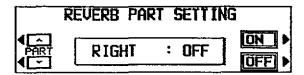
Adjust the stereo balance of each part.



- Use the PART A and V buttons to select the part.
- Use the PAN R and L buttons to adjust the balance.
- The stereo balance can be set to one of 5 positions, indicated by a thick vertical line on the display.

### **■ PART REVERB**

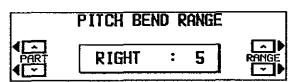
Set the **DIGITAL REVERB** to on or off for each part.



- Use the PART ∧ and ∨ buttons to select the part.
- 2. Use the ON and OFF buttons to set the reverb to on or off for the part.
- When the reverb is set to OFF for a part, the reverb does not work for the part even when the DIGITAL REVERB button is on.
- When the power is turned on, the PART REVERB is automatically set to on for all parts.

### P. BEND RANGE

Set the pitch range when MIDI pitch bend data is received.

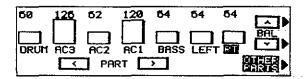


- Use the PART ∧ and ∨ buttons to select the part.
- 2. Use the RANGE ∧ and ∨ buttons to specify the range (0 to 12).
- Increments are in semitones.
- The higher the number, the greater the change in pitch when pitch bend data is received.

### BALANCE

Adjust the volume for each part.

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



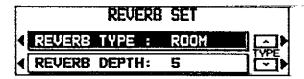
- Use the PART < and > buttons to select the part.
- Use the button to the lower right of the display to view the next page of the balance-setting display.
- 3. Use the BAL  $\land$  and  $\lor$  buttons to set the desired  $\lor$  volume (0 to 127).
- 4. Repeat steps 2 and 3 for each part, as desired.

### **REVERB SET**

Select the type and depth of the **DIGITAL REVERB**.

On the SOUND menu, select REVERB SET.

· The display looks similar to the following.



### **X** Type

- 1. Select REVERB TYPE.
- 2. Use the  $\wedge$  and  $\vee$  buttons to select the type.
- · Select from ROOM, STAGE and HALL.

### ■ Depth

THE FREE STATE OF THE STATE OF

- 1. Select REVERB DEPTH.
- Use the ∧ and ∨ buttons to adjust the depth of the reverb (1 to 8).
- The higher the number, the greater the reverb depth.

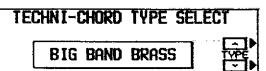
You can also access this display by pressing the **DIGITAL REVERB** button for a few seconds.

 When this method is used to access the display, a few seconds after you have made the setting, the display returns to the previous display.

### **TECHNI-CHORD**

Select the desired harmony style for the TECH-NI-CHORD.

- On the SOUND menu display, select TECHNI-CHORD.
- The display looks similar to the following.



- Use the TYPE ∧ and ∨ buttons to select the harmony style.
- Select from CLOSE, OPEN 1 and 2, DUET, COUNTRY, THEATER, HYMN, BLOCK, BIG BAND BRASS, BIG BAND REEDS, OCTAVE, HARD ROCK and FANFARE.
- When the OCTAVE, HARD ROCK or FAN-FARE style is selected, the TECHNI-CHORD functions for right-part sounds even when the keyboard is not split.
- For a detailed explanation of the different harmony styles, refer to the separate "REFER-ENCE GUIDE" provided.

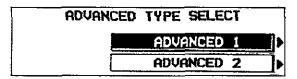
You can also access this display by pressing and holding the **TECHNI-CHORD** button for a few seconds.

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

### **ADVANCED TYPE**

Select the type of ADVANCED mode for the AUTO PLAY CHORD.

- 1: On the **SOUND** menu, select ADVANCED TYPE.
- The display looks similar to the following.



2. Select the type on the display.

### ADVANCED 1

When a chord that the piano does not recognize is played, the AUTO PLAY CHORD ignores it.

### **ADVANCED 2**

When a chord that the piano does not recognize is played, the **AUTO PLAY CHORD** performance follows the pitch of the chord notes.

# Set the pedal functions

You can assign a different function to the sostenuto pedal and soft pedal. (Note: The function of the right [sustain] pedal cannot be changed.)

### PEDAL SETTING

- On the MEM & CTRL menu, select PEDAL SETTING.
- The display looks similar to the following.



- Select the pedal whose function you wish to change (LEFT or CENTER).
- The function currently assigned to the pedal is shown on the display.

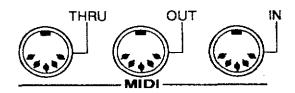
- Use the SET ∧ and ∨ buttons to select the function.
- Select from the following functions: SOSTENUTO, SOFT, INTRO & ENDING on/off, FILL IN 1, COUNT & FILL 2 on, START/STOP on/off, GLIDE\*, TECHNI-CHORD on/off, P.MEM INCR (PANEL MEMORY increment)\*\*, SUSTAIN on/off, PUNCH IN/OUT.
- \* GLIDE: When the pedal is depressed, the sound of the entire instrument slides down by approximately one semitone.
- \*\* P.MEM INCR: The PANEL MEMORY number changes to the next number each time the pedal is depressed.
- The function of the pedal you selected in step 2 changes to the function shown on the display.

# Part VII MIDI

# 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.

### **About the MIDI terminals**



IN: The terminal by which this instrument receives data from other equipment.

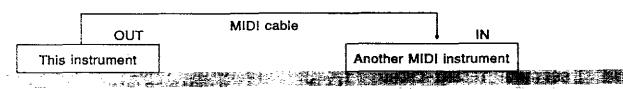
OUT: The terminal that transmits data from this instrument to other equipment.

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

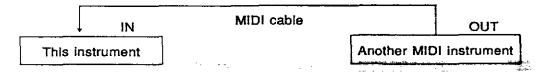
 For these connections, use a commercially available MIDI cable.

### **Connection examples**

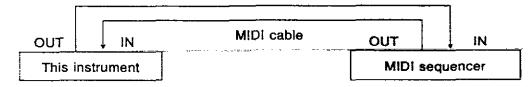
■ To generate sound from a connected instrument by playing this instrument



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

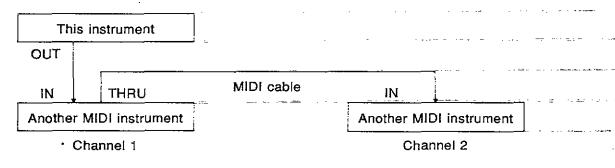


To connect with a MIDI sequencer or a personal computer



### **MIDI Channel**

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 (C4) 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.

### **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.



# **Setting the MIDI presets**

Establish the optimum settings depending on how this instrument is connected to other equipment.

1. In the PROGRAM SECTION, press the MIDI PRESETS button to turn it on.

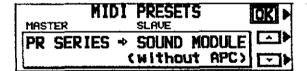


3. Press the OK button.

resolution of the second

 When the settings have been successfully stored, "Completed!" appears on the display.

· The display chages to the following



2. Use the  $\wedge$  and  $\vee$  buttons to select the setting.

### MASTER

This instrument is used as the master (transmit data side).

### SLAVE

This instrument is used as the slave (receive data side).

### WITH APC

Performance Includes **AUTO PLAY CHORD** performance.

### WITHOUT APC

AUTO PLAY CHORD is not used.

# **Outline of MIDI functions**

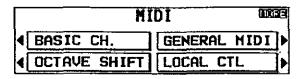


Select the various settings which are used for MIDI operation of this instrument.

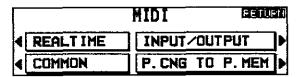
 In the PROGRAM SECTION, press the MIDI button to turn it on.



The display changes to the following.



 Press the MORE/RETURN button to view the next page of the menu.



### BASIC CH (page 82)

Assign a MIDI channel to each part.

### **OCTAVE SHIFT** (page 82)

Shift the pitch of transmitted sound by octaves.

### **GENERAL MIDI** (page 82)

Specify whether this instrument is compatible with GENERAL MIDI standard instruments.

### LOCAL CTL (page 83)

Specify whether sound is generated from this instrument when MIDI data is transmitted.

### REALTIME (page 83)

Settings for realtime data, such as tempo, START/STOP, etc.

### COMMON (page 83)

Functions which are common to all parts.

### INPUT/OUTPUT (page 84)

Various settings related to transmission and reception of data.

### P.CNG TO P.MEM (page 85)

Specify how PANEL MEMORY operation affects program change data.

- Select the menu and perform the setting procedures.
- Press the EXIT button to go back to the menu display.
- When the TEMPO/PROGRAM indicator is lit, it indicates that the dial is available for setting the current function.
- 3. When you have finished adjusting the settings, press the **MIDI** button to turn it off.

### MIDI Implementation Chart

Although MIDI makes it easy for you to connect various instruments for an enhanced performance, it does not necessarily follow that all MIDI data can be exchanged. For example, if the transmitting instrument handles data that the receiving instrument cannot, then such data cannot be successfully sent. For data to be exchanged, both instruments must be able to handle it. You can find out what kind of data can be sent or received by each instrument by referring to the MIDI Implementation Chart for each instrument. The MIDI Implementation Chart for this instrument can be found in the separate "REF-ERENCE GUIDE" provided.

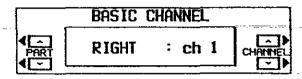
### MIDI data format

A detailed explanation of how MIDI data of this instrument is organized can be found in the separate "REFERENCE GUIDE" provided.

# **Setting the MIDI functions**

### **BASIC CH**

Assign a MIDI channel to each part.

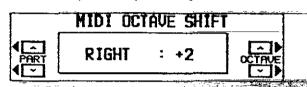


 Use the PART ∧ and ∨ buttons to select the part.

- Use the CHANNEL ∧ and ∨ buttons to select a basic channel for the part (OFF, 1 to 16).
- A part which has been set to OFF cannot be used to transmit or receive MIDI data.
- 3. Repeat steps 1 and 2 for each part as desired.

### **OCTAVE SHIFT**

Set the octave shift value for transmitted key note data of each part independently.

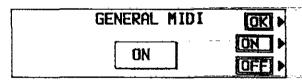


 Use the PART ∧ and ∨ buttons to select the part.

- Use the OCTAVE ∧ and ∨ buttons to set the octave shift value (-2 to +2).
- 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.

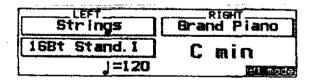
### **GENERAL MIDI**

Specify whether this instrument is compatible with GENERAL MIDI standard instruments.



- Use the ON and OFF buttons to specify whether this instrument is compatible (ON) or not compatible (OFF) with GENERAL MIDI standard instruments.
- This setting is automatically set to OFF when the power is turned on.
- This setting is automatically set to ON if disk data other than Technics data is loaded.
- 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. (Refer to the separate "REFER-ENCE GUIDE" provided.)
- If GENERAL MIDI on/off data is received from connected MIDI equipment, the received data has priority.

- 2. Press the OK button.
- The confirmation display appears. Press the YES button to execute the function, or press the NO button to cancel the function.
- When this instrument's GENERAL MIDI mode is set to ON, a "GM mode" indication is shown in the lower right of the display.

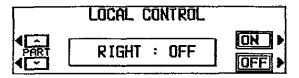


### Warning

- The SEQUENCER memory is cleared when the GENERAL MIDI mode is changed.
- If the power is turned off while the GENERAL MIDI mode is ON, the setting is automatically set to OFF and the SEQUENCER memory is cleared.

### **LOCAL CTL**

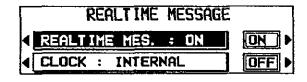
Specify whether sound is generated from this instrument when MIDI data is transmitted.



- Use the PART ∧ and ∨ buttons to select the part.
- 2. Use the ON and OFF buttons to specify whether the performance from this instrument sounds from this instrument (ON) or not (OFF).
- 3. Repeat steps 1 and 2 for each part as desired.

### REALTIME

Enable or disable the exchange of start/stop data (realtime commands), and select the CLOCK mode.



- Select the function (REALTIME MES. or CLOCK).
- 2. Use the ∧ and ∨ buttons, or the ON and OFF buttons, to change the setting.

### REALTIME MES.

### ON

Rhythm and **SEQUENCER** start/stop, continue, and song position pointer data can be transmitted/received.

### OFF

This data cannot be transmitted/received.

### **■** CLOCK

### INTERNAL

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

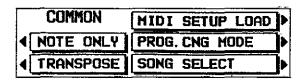
### MIDI

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

- When MIDI is selected, the tempo is displayed as "--" and the rhythm and SEQUENCER are disabled until the CLOCK signal is received from the connected instrument.
- 3. Repeat steps 1 and 2 as desired.

### COMMON

Set the functions which are common to all parts.



- 1. Select the function.
- The display changes to the setting display for the selected function.
- 2. Make the settings as desired.

### ■ NOTE ONLY

Of the performance data, specify whether or not only note data is exchanged.

ON: Only note on/off data is exchanged.

OFF: Other data is also exchanged.

### **■ TRANSPOSE**

Specify how note number data is exchanged when the TRANSPOSE function is active.

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

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

### **■ MIDI SETUP LOAD**

Enable or disable the recall of MIDI settings when disk data is loaded.

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

OFF: MIDI settings stored on the disk are not recalled.

### **■ PROG.CNG MODE**

Specify how program change numbers are interpreted during data exchange.

NORMAL: The program change numbers follow the order of the sound buttons as they are lined up on the panel.

TECH: Program change numbers are standardized among all Technics models which are set to this mode. The program change number assigned to a given sound on one model is assigned to the same sound on all models which are set to the same mode.

GM: Program change numbers follow the GENERAL MIDI standard.

 The program change numbers for each mode can be found in the separate "REFERENCE GUIDE" provided.

### **SONG SELECT**

Enable or disable the exchange of song number data (song number on a disk).

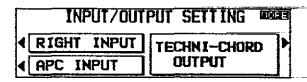
ON: Song number data can be exchanged.

OFF: Song number data cannot be exchanged.

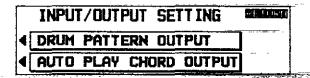
Repeat steps 1 and 2 for the other settings as desired.

### INPUT/OUTPUT

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



 Use the MORE/RETURN button to display more items.



- Select the function.
- The display changes to the setting display for the selected function.
- 2. Make the settings as desired.

### **M RIGHT INPUT**

Specify how received note data is handled.

SINGLE: Data for the RIGHT part channel only is received.

DIRECT: Select this

Select this mode when this instrument is to be used as the sound generator. Performance data for all parts is received on their respective channels.

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### M APC INPUT

Enable or disable the reception of AUTO PLAY CHORD data.

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.

### **■ TECHNI-CHORD OUTPUT**

Specify how TECHNI-CHORD data is handled.

ON: Key notes generated by the **TECHNI- CHORD** are also transmitted.

OFF: Only key note data of the played keys is transmitted.

### **■ DRUM PATTERN OUTPUT**

Enable or disable the transmission of DRUMS part data.

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

OFF: Data from the DRUMS part is not trans-

mitted.

### **AUTO PLAY CHORD OUTPUT**

Enable or disable the transmission of AUTO PLAY CHORD data.

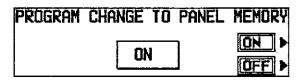
ON: The data for the ACCOMP 1, 2, 3, BASS and CHORD parts is transmitted.

OFF: Data for the above parts is not transmitted.

3. Repeat steps 1 and 2 for the other functions as desired.

### P.CNG TO P.MEM

Specify how PANEL MEMORY operation affects transmission or reception of program change data.



Use the ON and OFF buttons to enable (ON) or disable (OFF) transmission/reception of data.

# Initialize

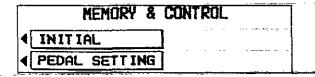
This instrument has many settable functions and storable memories. However, you can return the settings and memories to the factory-preset status.

### INITIAL

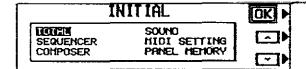
1. Press the MEM & CTRL button to turn it on.



· The display changes to the following.

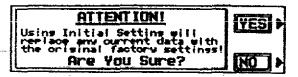


- 2. Select INITIAL.
- · The display changes to the following.



 Use the ∧ and ∨ buttons to select the desired type of initialization.

- 4. Press the OK button.
- The display changes to the confirmation display. Press the YES button if you wish to execute the initialization. Press the NO button if you wish to cancel the procedure.



- When you press the YES button, initialization begins. When initialization is completed. "Completed!" is shown on the display and the 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 SELECT section at the same time, turn the POWER button on again.

### About the backup memory

The panel settings and stored memories, such as the SEQUENCER and COMPOSER, are maintained in a backup memory for about 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 back-up memory does not function unless 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. If this occurs, after checking the reminder, press the OK button.

### m Power on settings

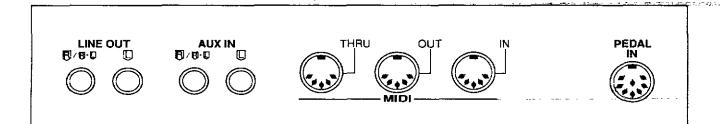
When the **POWER** button of this instrument is turned on, the settings below are automatically set to those sultable for plano performance.

PLAY STYLE: PIANO MODE Sound: GRAND PIANO TRANSPOSE: C SUSTAIN PEDAL: On DIGITAL EFFECT: Off SYNCHRO START: Off MINIMUM RANGE: On PART REVERB: All parts on

 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 78.)

### **PEDAL IN**

Connect the included pedal.

AUX IN (input level 0.5 Vrms, 6 kΩ)

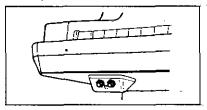
Other instruments such as a rhythm machine or sound module can be connected to the piano so that the sound is output from the piano. To receive monaural sound, connect instruments to the R/R+L terminal.

**LINE OUT** (output level 1.0 Vrms,  $600 \Omega$ ) 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 ( ∩ ) × 2

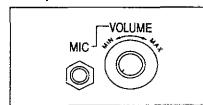
(Beneath the keyboard, on the left side)

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.



MIC (PR307) (input level 7.5 mV, 10 k $\Omega$ ) (Beneath the keyboard, on the right side)

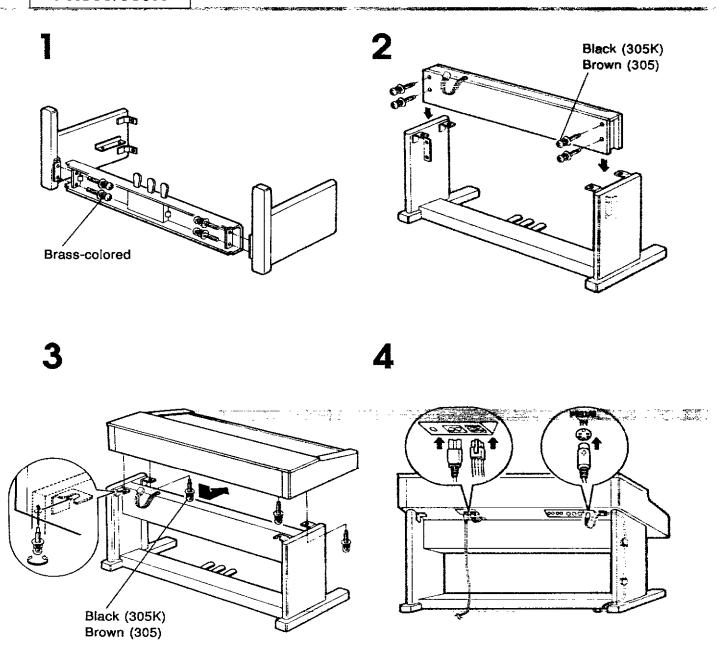
The piano will accept a microphone of the unidirectional type. This type of microphone reduces feedback to a minimum. **VOLUME** balances instrumental or vocal sounds fed into the microphone with the loudness of the piano.



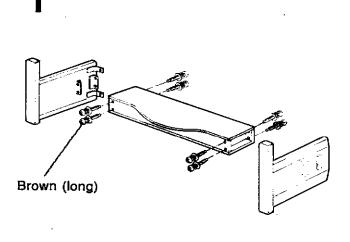
# **Assembly**

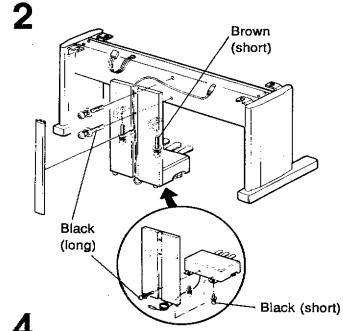
- Assemble your Technics plane as shown in the following diagrams.
  To disassemble the plane, reverse the procedure.
  To prevent the plane from falling off the stand, secure it firmly with the bolts.

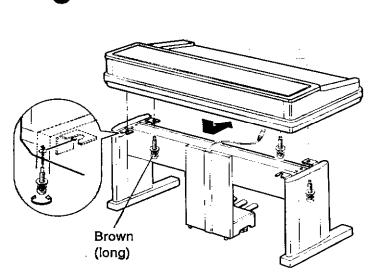
### PR305/305K

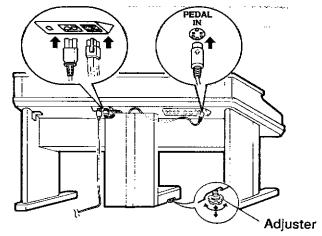


### PR307/307K









 Use two adjusters to stabilize the pedal box.

# Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics Plano but do not indicate trouble.

	Phenomenon	Remedy		
	The buttons, keys, etc. malfunction.	<ul> <li>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 SELECT section         (ROCK/DISCO, MODERN ROCK and ROCK         [OTHERS]) 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.)</li> </ul>		
Sounds and effects	No sound is produced when the keys are pressed.	<ul> <li>The MAIN VOLUME is at the minimum setting. Adjust the volume with the MAIN VOLUME control.</li> <li>The volumes for the selected parts are set to the minimum levels. Use the sliding BALANCE control to set the volumes of the relevant parts to appropriate levels. (Refer to page 26.)</li> <li>The LOCAL CONTROL for a part performed on the keyboard is set to OFF. Set the LOCAL CONTROL to ON. (Refer to page 83.)</li> </ul>		
Š	Only percussion instrument sounds are produced when the keyboard is played.  The sustain does not work even when the sustain pedal is depressed.	PERC button is on.		
=======================================	The sostenuto pedal and soft pedal do not operate properly. For example, when the soft pedal is depressed, the rhythm starts or a fill-in is played.	Different functions can be programmed in these pedals. You can return the pedals to their original functions by turning off the instrument once, or by using the PEDAL SETTING mode. (Refer to page 77.)		
Rhythm	The rhythm does not start.	<ul> <li>The DRUMS volume is set to the minimum level. Use the sliding BALANCE control to set the DRUMS volume to an appropriate level.</li> <li>In the RHYTHM SELECT section, a COMPOSER rhythm in bank A or bank B with no stored pattern was selected. Select a different rhythm.</li> <li>A SEQUENCER track button is on. When you are not playing back the SEQUENCER performance, turn off the track buttons.</li> <li>CLOCK is set to MIDI. Set CLOCK to INTERNAL. (Refer to page 83.)</li> </ul>		
CHORD	No sound is produced for the automatic accompaniment.	<ul> <li>In the RHYTHM SELECT section, a COMPOSER rhythm in bank A or bank B with no stored pattern was selected. Select a different rhythm.</li> </ul>		
AUTO PLAY CHORD	No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced.			

	Phenomenon	Remedy	
	Storage is not possible.	<ul> <li>The remaining memory capacity of the SEQUENCER is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory. (Refer to page 52.)</li> </ul>	
SEQUENCER	Multi-track storage is not possible.	• The playback track has been selected, but the START/STOP button has not been pressed. A flashing track indicator shows the track which is ready for recording, and a lit track indicator shows a track which is ready for playback. To record one track while listening to another (playback) track, press the START/STOP button to begin playback. (Refer to page 45.)	
	Storage is not possible.	• The remaining memory capacity of the COMPOSER is 0.	
COMPOSER	Setting the time signature and number of measures is not possible.	The time signature and number of measures cannot be changed for a pattern which is currently recorded in the COMPOSER. If you wish to change the time signature and/or measure data, first follow the procedure to clear the memory. (Refer to page 60.)	
ŏ	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 63.)	
63	The Disk Drive produces a noise during recording or playback.	This occurs when the Disk Drive is reading a disk. It does not indicate a problem.	
Disk Drive	When the procedure to load from a disk is performed, the contents of the piano memory are erased.	<ul> <li>When performing the load operation from a disk, the plano memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in the piano memory, save it on a disk before performing the load procedure. (Refer to page 69.)</li> </ul>	
Other	Noise from a radio or TV can be heard.	<ul> <li>This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument.</li> <li>The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center.</li> </ul>	
	The cabinet becomes warm during use.	<ul> <li>This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.</li> </ul>	

# **Error messages**

No.	Contents		
00	The data on the disk that you are using is for a different product.		
01	An error has occurred while the disk was loading. Please try again!		
02	There is no disk in the Disk Drive.		
03	The file that you tried to load is empty.		
05	An error has occurred while the disk was saving. Please try again!		
06	The disk that you are using is write protected.  Please remove the write protection and try again.		
07	The disk that you are using is full. Please use another disk.		
08	An error has occurred while the disk was formatting. The disk that you are using may be faulty.  Please try formatting another disk.		
10	The data is already copy protected.		
11	The password that you entered is incorrect.		
20	A problem has occurred with your SEQUENCER data. This might be due to a damaged or faulty disk.		
21	Memory full		
22	It is necessary to press PUNCH OUT to complete this procedure.		
23	It is impossible to change the time signature because it has already been set in the existing tracks.		

No.	Contents	
24	A RHYTHM track already exists. It is impossible to assign two tracks to RHYTHM.	
26	It is only possible to merge melody tracks. Tracks such as RHYTHM, CHORD and CONTROL cannot be merged.	
27	It is only possible to copy melody tracks.  Tracks such as RHYTHM, CHORD and CONTROL cannot be copied.	
28	This song is too long to be saved as a MIDI file.	
29	The MIDI file that you have tried to load exceeds the memory capacity of this PR and cannot be played. The SEQUENCER memory has been cleared.	
30	It is not possible to change the time signature or measure length of a COMPOSER pattern after it has been recorded. If you want to proceed, you must first clear the entire COMPOSER pattern.	
32	Memory full	
43	The file that you are trying to load was saved on a previous PR. It is only possible to load using the "ALL" option.	
45	This software format is not supported by the PR and cannot be loaded.	

# Cautions for safest use of this unit

### **Installation location**

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

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

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

# Index

Α
ACCOMP PART35
ADVANCED34
ADVANCED TYPE
Assembly
AUTO PLAY CHORD
AUX IN
AOX III
В
_
Backup memory
BALANCE 24, 26, 29, 34, 71, 75
BASIC 14, 32
Beat indicators
C .
Cautions for safest use of this unit
CHORD STEP RECORD
COMPOSER58-64
ACCOMP TYPE
ALL ERASE 63
BAL
BASS TYPE61
CHORD
INST ERASE 63
LOAD SINGLE COMPOSER 59
KEY 61
MEASURE
MODE SELECT 59, 64
PART CLR 63
QUANTIZE 63
RECORD SETTING
SOLO 63
TIME SIG 61
COMPOSER REC
Connections 87
CONTRAST19
COUNT INTRO 30
D
2
DELETE
DEMO
DIGITAL EFFECT
DIGITAL REVERB
Disk Drive
DISK FORMAT
DISK LOAD
DISK SAVE 66, 69
Floppy Disk
LOAD SINGLE COMPOSER 66, 68
MID! FILE LOAD
MIDI FILE SAVE
Display
DISPLAY HOLD 18
DRUMS 29
DYNAMIC ACCOMP35
<b>E</b>
EXIT18
Error message
Enumessage

F	
FILL IN	31
Fingered chords	33
. Highlad silates statement	•
Н	
	40
HELP	19
•	
l	
INITIAL	86
INITIAL INTRO & ENDING	31
K	
KEY SHIFT71,	74
Keyboard cover	
KEYBOARD PERC	22
KEYBOARD SPLIT	
REYBOARD SPLIT 20,	25
•	
L	
LANGUAGE	19
LEFT SELECT	
LINE OUT	87
	—
M	
MAIN VOLUME	. 6
MASTER TUNING	
MEM & CTRL	
MENU	
Metronome	
MIC	
MIDI78-85,	
APC	
APC INPUT	
AUTO PLAY CHORD OUTPUT	
BASIC CH 81.	
CLOCK	
COMMON	
DRUM PATTERN OUTPUT	
GENERAL MIDI	. 82
INPUT/OUTPUT	
LOCAL CTL	
MASTER	
MIDI PRESETS	80
MIDI SETUP LOAD	
NOTE ONLY	83
OCTAVE SHIFT 81,	
P.CNG TO P.MEM	, 85
PROG.CNG MODE	84
REALTIME 81	
REALTIME MES	83
RIGHT INPUT	84
SLAVE	80
SONG SELECT	
TECHNI-CHORD OUTPUT	
MINIMUM RANGE	
Mixing two sounds	
MORE/RETURN	
Music Stand	
MI ICIO CTVI E CEI ECT	27

0
ONE TOUCH PLAY 14, 36 One-finger chords 33
P
P. BEND RANGE       71, 75         PAN SETTING       71, 75         PANEL MEMORY       38         PART REVERB       71, 75         PEDAL IN       87         PEDAL SETTING       72, 77         Pedals       22, 72         PHONES       87         PIANIST       34         PIANO MODE       9, 10, 20, 21         PIANO TUNING       71, 73         PLAY STYLE       9, 14, 20         POWER       6         PROGRAM SECTION       5, 16
R
REVERB SET       71, 76         RHYTHM SELECT       11, 28         RHYTHM STEP RECORD       49
\$
SEQUENCER       39-57         EASY RECORD       39, 41         EDIT       40, 52         MEASURE COPY       54         MEASURE ERASE       54         MEDLEY       40, 57         Multi-track recording       45         PLAY       40, 51         PUNCH REC       40, 55         QUANTIZE       53         REALTIME RECORD       39, 43         SONG CLEAR       52         STEP RECORD       39, 46         TRACK ASSIGN       40, 42, 50         TRACK MERGE       53         SEQUENCER REC       41, 43         SEQUENCER RESET       41, 44         SET       38         Soft pedal       22         Sostenuto pedal       22         SOUND       71, 74         SOUND SELECT       10, 21, 71, 74         SOUND SETTING       71, 74         Specifications       96         SPLIT POINT       25, 29         Standard MIDI Files       65         START/STOP       29         STEP REC       46         STRING RESONANCE       23         Sustain pedal       22         SYNCHRO START
T TECHNI-CHORD 27, 71, 76 TEMPO/PROGRAM 12, 18, 30 Touch Response .6 TOUCH SENSE 71, 73 TRANSPOSE 26, 84

Troubleshooting 90 TUNE & TOUCH	.71
V	
VARIATION 12	, 31

# **Specifications**

		SX-PR305	SX-PR307	
KEYBO	ARD	88 KE	/s	
SOUN	GENERATOR	PCM		
MAXIMUM NUMBER OF NOTES PRODUCED SIMULTANEOUSLY		32 NOT	ES .	
PLAY STYLE		PIANO MODE, KEYBOARD SE	PLIT, AUTO PLAY CHORD	
w	PIANO	4 SOUNDS: GRAND, UPRIGHT, ELECTRIC, MODERN		
SOUNDS		176 SOUNDS	196 SOUNDS	
SOUND SELECT		GROUP: PIANO/E.PIANO, HARPSIMALLET, GUITAR, SPECI/ BRASS, SAXCLARINET, FLUTE, SYNTH LEAD, BASS	AL PERC, STRINGS, ORGAN, VOCAL/ENSEMBLE, REED, , SYNTH PAD, KEYBOARD PERC, PERC/EFFECT	
ŒY S	PLIT	O (62, C3, C4)		
PEDAL		SUSTAIN, SOSTE	ENUTO, SOFT	
DIGITA	L EFFECT		W	
DIGITA	AL REVERB			
TRANS	SPOSE	<u></u> <u>○ (G-C</u>	;-F <b>h</b>	
		84 RHYTHMS	100 RHYTHMS	
PHYTH	iM .	GROUP: 8 BEAT, ROCK/DISCO, 16 BEAT, MODERN SHOW TIME, COUNTRY/R & B. TRAD, MAI		
METR	ONOME	0		
CONT	ROL	MAIN VOLUME, BALANCE, START/STOP, SYNCH INTRO & ENDING, TEM		
	OUCH PLAY/ STYLE SELECT	0	-	
TECHI	NI-CHORD	0		
AUTO	PLAY CHORD	BASIC, ADVANCED, PIANIST, ACCOMP 1-3, DYNAMIC ACCOMP		
PANEL MEMORY SET, 1-6		I <del>-8</del>		
SEQU	ENCER	16 TRACKS STORAGE CAPACITY: APPROX. 19000 NOTES INPUT MODES: REAL TIME, STEP (CHORD RHYTHM ONLY) FUNCTIONS: TRACK ASSIGN, EDIT (TRACK CLEAR, SONG CLEAR, QUANTIZE, TRACK MERGE, MEASURE ERASE, MEASURE COPY), PUNCH RECORD, PLAY, MEDLEY		
COMP	OSER	STORAGE CAPACITY: APPROX. 8800 NOTES, 5 PARTS (8 INPUT MODE: REALTIME, FUNCTIONS: MC		
DISPL	AY	LCD (240 × 64 DOTS), CONTRAST, EX	IT, MORE/RETURN, DISPLAY HOLD	
DEMO		0		
HELP		O		
DISK	DRIVE	DISK LOAD, DISK SAYE, MIDI FILE LOAD, MIDI FILE SAYE, LOAD SINGLE COMPOSER, DISK FORMAT		
SOUN	D	SOUND SETTING (SOUND SELECT, KEY SHIFT, PAN SET TECHNI-CHORD TYPE, REVE		
TUNE	& TOUCH	MASTER TUNING, PIANO TUNING, 1	TOUCH SENSE, MINIMUM RANGE	
MEMO	RY & CONTROL	INITIAL, PEDA	IL SETTING	
MIDI		MIDI PRESETS, BASIC CHANNEL, OCTAVE SHIFT, GEN COMMON SETTING, INPUT/OUTPUT, PRI		
EXTE	RNAL MEMORY	DISK DRIVE I	x 2HD, 2DD	
TERM	FIMINALS HEADPHONE TERMINALS × 2, LINE OUT, AUX IN, MIDI (IN, THRU, OUT), MIC (PR307 ONLY)		IN, MIDI (IN, YHRU, OUT), MIC (PR307 ONLY)	
OUTP	UTPUT 50 W × 2 60 W × 2		60 W × 2	
SPEA	KERS	16 cm × 2, 6.5 cm × 2, M	ONITOR SPEAKER × 2	
POWER REQUIREMENT  AC120 V 80 Hz (NORTH AC230 V 50/80 Hz (NEW ZEALAND AND 8		290 W, 195 W (NORTH AMERICA AND MEXICO)		
		AC120/220/240 AC120 V 60 Hz (NORTH / AC230 V 50/60 Hz (NEW ZEALAND AND E) AC230-240 V (UNI	AMERICA AND MEXICO) UROPE EXCEPT FOR UNITED KINGDOM)	
DIME! (WxH	NSIONS ×D)			
NET V	VEIGHT	58 kg (149.9 lbs.)	76 kg (167.6 lbs.)	
ACCE	CCESSORIES STAND, AC CORD		C CORD	

<sup>\*</sup> Specifications are subject to change without notice for further improvement.

# SX-PR305 / SX-PR307 REFERENCE GUIDE

# **Contents**

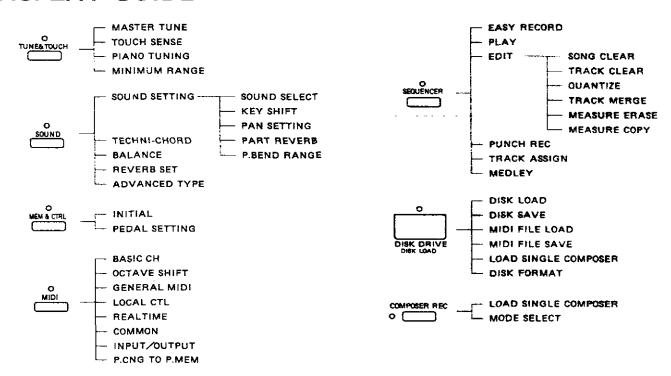
■DEMO PERFORMANCE	2
DISPLAY GUIDE	2
■EASY SETTING	2
SOUND(PR305)	3
SOUND(PR307)	5
■RHYTHM(PR305)	7
■RHYTHM(PR307)	8
■KEYBOARD PERCUSSION	10
TECHNI-CHORD TYPE	11
■MIDI Implementation Chart	12
■MIDI DATA FORMAT	14

### **DEMO PERFORMANCE**

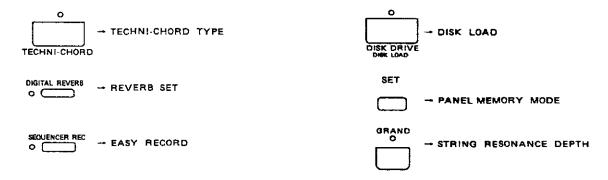
Style Demo	MAIN MEDLEY	Sound	E.PIANO
Ī	FILM SCORE		GUITAR
Ī	CONCERT		STRINGS
	(Rachmaninoff : Piano Concert No.2)		SOLO BRASS
Piano Sound	MOZART		PIPE ORGAN
	(Mozart: Piano Sonata A major K. No.331)		SYNTH
	LISZŤ	Rhythm	8BT BALLAD
	(Liszt : Love's Dream No.3 )		SAMBA ROCK
	CHOPIN		JAZZ BALLAD
	(Chopin : Grande Valse Brillante Opus34 No.1)		COUNTRY
	JOPLIN		FOXTROT
	(Joplin : Maple Leaf Rag)		BROADWAY SHOW
Merci appel	QUARTET		
	PIANO COMBO		

<sup>•</sup>Demonstration performances for which no source is indicated are Technics original compositions.

### **DISPLAY GUIDE**



### EASY SETTING (Press and hold)



SOUND	MIDI PROG NORM	_ TECH	GE DATA	SOUND	NORM	TECH	GE DA
G	RAND PIANO			U	PRIGHT PIANO	)	
Grand Piano	1 (0)	0 (0)	1	Upright Piano	2 (0)	2 (32)	
EL.	ECTRIC PIANO	<del>.</del>			ODERN PIANO	)	
E.Piano 1	3 (0)	5 (0)	5	Modern E.P.1	4 (0)	6 (0)	6
	ANO/E.PIANO	0 (07 1	<u>_</u>	MIGGETTI E.T.	STRINGS		
	· · · · · · · · · · · · · · · · · · ·	4 (0)				. 400 (0)	40
Bright Piano	13 (0)	1 (0)	2	Strings	15 (0)	100 (0)	49
Piano 1 Oct. Piano 2 Oct.	13 (1) 13 (2)	0 (16)		Soft Strings OctaveStrings	15 (1) 15 (2)	101 (32)	<u>-</u>
Rock Piano	• • • • • • • • • • • • • • • • • • • •	3 (32)		Pizzicato		<b></b>	
	13 (3)			Violin	15 (3)	99 (0)	46
Honky Tonk E.Piano 2	13 (4) 13 (5)	1 (16) 5 (32)	4	······	15 (4)	96 (0) 96 (32)	41
Midi Grand	13 (5) 13 (6)	0 (32)		CountryFiddle	15 (5) 15 (6)	96 (32)	111
E.Grand				Slow Strings		100 (32)	50
	<del></del>		3	TremoloString	···- <b>*</b> ·· <b>·</b> ·-···		45
Modern E.P.2 Modern E.P.3	13 (8)	i	<del>-</del>	Synth Strings Viola	15 (8) 15 (9)	103 (0)	51
MOUETT E.F.3	13 (9)	6 (48)		Cello		97 (32) 97 (0)	42 43
				Bowed Bass			
	<del></del>			DOWEG DASS	15 (11)	98 (0)	44
	RPSI / MALLE				ORGAN		
Harpsichord	5 (0)	16 (0)	7	Jazz Organ	7 (0)	88 (0)	18
Cembalo	5 (1)	18 (0)		Full Drawbars	7 (1)	89 (0)	17
Synth Clavi	5 (2)	115 (0)		Jazz Drawbars	7 (2)	93 (0)	
Glockenspiel	5 (3)	9 (0)	10	Pop Organ 1	7 (3)	90 (0)	<del></del>
Vibraphone	5 (4)	8 (0)	12	Pipe Organ 1	7 (4)	84 (0)	20
Marimba	5 (5)	10 (0)	13	Pipe Flute	7 (5)	85 (32)	
Clavi	5 (6)	17 (0)	8	16' & 1'	7 (6)	91 (0)	<u> </u>
Celesta	5 (7)	12 (0)	9	Pop Organ 2	7 (7)	89 (32)	<del></del>
Xylophone	5 (8)	11 (0)	14	Rock Organ	7 (8)	92 (32)	19
Tubular Bells	5 (9)	14 (0)	15	TheatreOrgan1	7 (9)	87 (32)	
Tinkle Bell	5 (10)	14 (32)	113	Pipe Organ 2	7 (10)	85 (0)	
	GUITAR		-:- <u></u> [_	VOC	AL / ENSEME	BLE	
Classic Gtr	14 (0)	20 (0)	_ :	Choir Ah	16 (0)	104 (0)	53
Bright Ac.Gtr	14 (1)	21 (0)	25	Pop Vocal Ah	16 (1)	104 (48)	_
Jazz Guiter	14 (2)	25 (0)	27	Vocal Och	16 (2)	104 (32)	
Bright Solid	14 (3)	26 (0)	28	Vocal Doo	16 (3)	109 (0)	54
Country Gtr	14 (4)	31 (16)		Humming	16 (4)	105 (0)	·-
Hawaiian Gtr	14 (5)	31 (0)		Mellow Ens.	16 (5)	107 (16)	90
Folk Guitar	14 (6)	22 (0)	26	Synth Vocal	16 (6)	107 (0)	55
12 String Gtr	14 (7)	23 (0)	<u> </u>	Air Vox	16 (7)	106 (16)	86
Mellow Solid	14 (8)	28 (0)	<u> </u>	Halo Vox	16 (8)	107 (48)	95
Mute Guitar	14 (9)	29 (0)	29	Click Vox	16 (9)	106 (48)	103
DistortionGtr	14 (10)	30 (0)	31				
Overdrive Gtr	14 (11)	27 (32)	30				
S	PECIAL PERC		- i.		REED		
Banjo	6 (0)	33 (0)	106	Oboe	8 (0)	66 (0)	69
Mandolin	6 (1)	35 (0)	- :	English Horn	8 (1)	67 (0)	70
Harp	6 (2)	32 (0)	47	Bassoon	8 (2)	70 (0)	71
Music Box	6 (3)	7 (0)	11	Bri.Accordion	8 (3)	80 (0)	22
Steel Drum	6 (4)	15 (0)	115	Musette	8 (4)	82 (0)	
Timpani	6 (5)	126 (0)	48	Harmonica	8 (5)	83 (0)	23
Orchestra Hit	6 (6)	127 (16)	56	Bagpipe	8 (6)	73 (0)	110
. Kalîmba	6 (7)	39 (0)	109	Shanai	8 (7)	73 (16)	11:
Sitar	6 (8)	38 (0)	105	Bandoneon	8 (8)	80 (16)	24
Dulcimer	6 (9)	38 (16)	16	Harmonium	8 (9)	86 (32)	21
Koto	6 (10)	37 (0)	108				
Shamisen	8 (11)	36 (0)	107				

SOUND PR 305

SOUND	MIDI PROG NORM	RAM CHAN	IGE DATA	SOUND	MIDI PROGRAM CHANC	SE DATA
······································	BRASS				SYNTH LEAD	
Brass	17 (0)	56 (0)	62	Square Lead	10 (0) 117 (0)	81
Octave Brass	17 (1)	56 (16)	_	Saw Lead	10 (1) 118 (16)	82
Trumpet	17 (2)	48 (0)	57	Chiffer Lead	10 (2) 117 (32)	84
Mute Trumpet	17 (3)	50 (0)	50	Charang	10 (3) 27 (48)	85
Flugel Horn	17 (4)	<b>51 (0)</b>		Pluck Organ	10 (4) 112 (0)	
Trombone	17 (5)	53 (0)	58	Gtr Harmonics	10 (5) 27 (18)	32
Bress & Synth	17 (6)	56 (48)		5th Wave	10 (6) 119 (0)	87
Close Fr. Horn	17 (7)	54 (0)		Chopper Flute	10 (7) 112 (32)	<del>-</del>
Open Fr. Horn	17 (8)	54 (16)	61	Synth Glocken	10 (8) 9 (32)	99
Tuba	17 (9)	55 (0)	59	<del></del>	<u> </u>	<u> </u>
Synth Brass	17 (10)	60 (0)	64			
Syn.BrassEns.	17 (11)	61 (16)	63		•	
	X / CLARINE	T			BÁSS	
Sopreno Sax	9 (0)	76 (0)	85	Acoustic Bass	19 (0) 43 (0)	33
Alto Sax	9 (1)	77 (0)	<b>66</b>	Mellow A.Bass	19 (1) 43 (16)	_
Mellow Alto	9 (2)	77 (16)		Electric Bass	19 (2) 40 (0)	<del>-</del>
Tenor Sax	9 (3)	78 (48)	_	Mute Bass	19 (3) 47 (0)	<del>-</del>
Breathy Tenor	9 (4)	78 (16)	67	Slap Bass 1	19 (4) 41 (0)	37
Jazz Clarinet	9 (5)	68 (0)	72	Fretiess Bass	19 (5) 40 (32)	36
Rock Tenor	9 (6)	79 (0)		Picked E.Bass	19 (6) 42 (0)	35
Baritone Sax	9 (7)	79 (16)	68	Bright E.Bass	19 (7) 40 (16)	34
Soft Clarinet	9 (8)	68 (16)	_	Synth Chopper	19 (8) 45 (0)	40
Clas.Clarinet	9 (9)	69 (0)	<del>-</del>	Slap Bass 2	19 (9) 41 (16)	38
		L	·	Smack Bass	19 (10) 45 (48)	39
				Bass & Lead	19 (11) 46 (32)	88
	FLUTE				YBOARD PERC	
Píccolo	18 (0)	84 (0)	73	Rock Kit 1	20 (0) 112 (128)	
Jazz Flute	18 (1)	85 (0)	74	Rock Kit 2	20 (1) 115 (128)	
Classic Flute	18 (2)	65 (16)		LightRock Kit	20 (2) 126 (128)	-
Alto Flute	18 (3)	84 (16)		Soul Kit	20 (3) 121 (128)	
Pan Flute	18 (4)	72 (0)	76	Jezz Kit	20 (4) 113 (128)	_
Shakuhachi	18 (5)	75 (0)	78	Brush Kit	20 (5) 117 (128)	<del>-</del>
Recorder	18 (6)	74 (0)	75	27.00	1 25 (0) 111 (125)	<del></del>
Ocarina	18 (7)	74 (16)	80			
Blown Bottle	18 (8)	72 (32)	77			
Whistle	18 (9)	111 (0)	79			
SynthCalliope	18 (10)	72 (48)	83			
	SYNTH PAD		L	P	ERC / EFFECT	<del></del>
Fantasia	11 (0)	116 (32)	00		<del> </del>	122
Polysynth	<b></b>		89	Seashore		123
Spacy Pad	11 (1) 11 (2)	102 (32) 107 (32)	91	Bird Tweet	12 (1) 125 (32)	124
	· • • • • • • • • • • • • • • • • • • •		92	Telephone	12 (2) 123 (0)	125
Crystal Ens. Metal Pad		120 (0)	93 94	Applause	12 (3) 125 (48)	127
***************************************	11 (4)	106 (32)		Agogo	12 (4) 122 (0)	114
Dream Sweep Pad	11 (5)	108 (32) 62 (32)		Wood Block	12 (5) 122 (16)	116
Mist			96	Taiko Drum	12 (6) 123 (48)	117
***************************************	11 (7)	108 (48)	101	Melodic Tom	12 (7) 122 (32)	118
Star Theme	11 (8)	120 (16)	104	Synth Drum	12 (8) 124 (0)	119
String Pad	11 (9)	103 (16)	52	ReverseCymbal	12 (9) 122 (48)	120
Ice Rain	11 (10)	121 (48)	97	Fret Noise	12 (10) 124 (16)	121
Soundtrack	11 (11)	119 (16)	98	Breath Noise	12 (11) 124 (32)	122
Goblins	11 (12)	106 (0)	102	Helicopter	12 (12) 123 (16)	126
Atmosphere	11 (13)	21 (48)	100	Gun Shot	12 (13) 123 (32)	128

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

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

SOUND	NORM	TECH	NGE DATA	SOUND	NORM	RAM CHAN	GE DA GM
(	GRAND PIANO			UP	RIGHT PIANO		
Grand Piano	1 (0)	0 (0)	1 1	Upright Piano	2 (0)	2 (32)	<del></del>
	ECTRIC PIAN		<del>                                     </del>		DERN PIANO	<del></del>	
E.Piano 1	3 (0)	5 (0)	5	Modern E.P 1	4 (0)		6
				MODERN E.F 1	<u> </u>	6 (0)	0
	IANO/E.PIANO				STRINGS		
Bright Piano	13 (0)	1 (0)	2	Strings	15 (0)	100 (0)	49
Piano 1 Oct.	13 (1)	0 (16)	<u> </u>	Soft Strings	15 (1)	101 (32)	
Piano 2 Oct.	13 (2)	2 (16)	<u> </u>	OctaveStrings	15 (2)	102 (0)	
Rock Piano	13 (3)	3 (32)	ļ <u>-</u>	Pizzicato	15 (3)	99 (0)	46
Honky Tonk	13 (4)	1 (16)	4	Violin	15 (4)	96 (0)	41
E.Piano 2	13 (5)	5 (32)	<del></del>	CountryFiddle	15 (5)	96 (32)	111
Midi Grand	13 (6)	0 (32)	i — —	Slow Strings	15 (6)	101 (0)	50
Jangle Piano	13 (7)	1 (48)	ļ <u>.</u>	TremoloString	15 (7)	100 (32)	45
E.Grand	13 (8)	3 (0)	3	Synth Strings	15 (8)	103 (0)	51
Modern E.P.2	13 (9)	4 (0)	ļ	Viola Cello	15 (9)	97 (32)	42
Modern E.P.3	13 (10)	6 (48)	ļ	Bowed Bass	15 (10)	97 (0) 98 (0)	43 44
Piano&Strings	13 (11)	58 (32)		Dowed bass	15 (11)	98 (0)	44
	RPSI / MALLE				ORGAN		
Harpsichord	5 (0)	16 (0)	7	Jazz Organ	7 (0)	88 (0)	18
Cembalo	5 (1)	18 (0)	<u> </u>	Full Drawbars	7 (1)	89 (0)	17
Synth Clavi	5 (2)	115 (0)		Jazz Drawbars	7 (2)	93 (0)	
Glockenspiel	5 (3)	9 (0)	10	Pop Organ 1	7 (3)	90 (0)	<del></del>
Vibraphone	5 (4)	8 (0)	12	Pipe Organ 1	7 (4)	84 (0)	20
Marimba	5 (5)	10 (0)	13	Pipe Flute	7 (5)	85 (32)	
Clavi	5 (6)	17 (0)	8	16' & 1'	7 (6)	91 (0)	<del>-</del>
Celesta	5 (7)	12 (0)	9	Pop Organ 2	7 (7)	89 (32)	<del>.</del>
Xylophone	5 (8)	11 (0)	14	Rock Organ	7 (8)	92 (32)	19
AfricanMallet	5 (9)	113 (0)		TheatreOrgan1	7 (9)	87 (32)	<del>-</del> -
Tubular Bells	5 (10)	14 (0)	15	TheatreOrgan2	7 (10)	87 (48)	<del>-</del> -
Tinkle Bell	5 (11)	14 (32)	113	Pipe Organ 2	7 (11)	85 (0)	
	GUITAR	<del>,</del>	·,—·-	VOCA		BLE	
Classic Gtr	14 (0)	20 (0)		Choir Ah	16 (0)	104 (0)	53
Bright Ac.Gtr	14 (1)	21 (0)	25	Pop Vocal Ah	16 (1)	104 (48)	
Jazz Guitar	14 (2)	25 (0)	27	Vocal Ooh	16 (2)	104 (32)	<del>_</del>
Bright Solid	14 (3)	26 (0)	28	Vocal Doo	16 (3)	109 (0)	54
Country Gtr	14 (4)	31 (16)	-	Mellow Ens.	16 (4)	107 (16)	90
Hawaiian Gtr	14 (5)	31 (0)		Orch.Pad	16 (5)	58 (0)	-
Folk Guitar	14 (6)	22 (0)	26	Synth Vocal	16 (6)	107 (0)	55
12 String Gtr	14 (7)	23 (0)	<u> </u>	Humming	16 (7)	105 (0)	<del>.</del>
Mellow Solid	14 (8)	28 (0)	<u> </u>	Air Vox	16 (8)	; 106 (16)	86
Mute Guitar	14 (9)	29 (0)	29	Halo Vox	16 (9)	107 (48)	95
DistortionGtr	14 (10)	30 (0)	31	Click Vox	16 (10)	106 (48)	103
Overdrive Gtr	14 (11)	27 (32)	30	Orch.Ensemble	16 (11)	58 (16)	
	SPECIAL PERC		: 		REED		
Banjo	6 (0)	33 (0)	106	Oboe	8 (0)	66 (0)	69
Mandolin	6 (1)	35 (0)	·	English Horn	8 (1)	67 (0)	70
Harp	6 (2)	32 (0)	47	Bassoon	8 (2)	70 (0)	71
Music Box	6 (3)	7 (0)	11	Bri. Accordion	8 (3)	80 (0)	22
Steel Drum	6 (4)	15 (0)	115	Musette	8 (4)	82 (0)	
Timpani	6 (5)	126 (0)	48	Harmonica	8 (5)	83 (0)	23
Orchestra Hit	6 (6)	127 (16)	56	Wood Wind Ens	8 (6)	64 (32)	
Kalimba	6 (7)	39 (0)	109	Bagpipe	8 (7)	73 (0)	110
Sitar	6 (8)	38 (0)	105	Shenai	8 (8)	73 (16)	112
Dulcimer	6 (9)	38 (16)	16	Bandoneon	8 (9)	80 (16)	24
Koto	6 (10)	37 (0)	108	Harmonium	8 (10)	86 (32)	21
Shamisen	6 (11)	36 (0)	107	Mel. Accordion	8 (11)	81 (0)	

BRASS   17 (10)   56 (10)   57   Square Lead   10 (10)   11   11   12   13   13   13   13   13	12 12 12							ξ			
BRASS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						102	)	38	11 (16)	Goblins
BRASS   CLAPINET   Synth Lead   Di (1)   Di (1	Z Z Z						88	(16)	118	11 (15)	Soundtrack
BRASS   15	12 22		Ì				97	8	121	11 (14)	ice Rain
BRASS   Square Lead   10 (2)   17 (2)   60 (6)   62   Square Lead   10 (2)   11 (2)   12 (2)   13 (2)   14 (2)   15 (2)   14 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2)   17 (2)   18 (2	<u> </u>		ន	3	- 3	Gun Shot	1:	6	62	11 (13)	Mellow Brass
BRASS	122		123	3		Helicopter	1	(16)	Ę	11 (12)	Glitter
BRASS   Square Lead   10 (0)   11 (1)   12 (1)   13 (1)   14 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (1)   17 (2)   18 (2)			124	(11)	12	Breath Noise	23	(16)	i03	11 (11)	String Pad
BRASS   Square Lead   10 (0)   11   17 (1)   66 (0)   62   Square Lead   10 (0)   11   17 (2)   48 (0)   57   Lead Voice   10 (2)   17 (2)   48 (0)   59   Pluck Organ   10 (2)   17 (2)   50 (0)   59   Pluck Organ   10 (3)   17 (2)   50 (0)   59   Pluck Organ   10 (3)   17 (2)   50 (0)   59   Pluck Organ   10 (3)   17 (2)   50 (0)   59   Pluck Organ   10 (4)   17 (2)   50 (4)	121		124	(10)	12	Fret Noise	1	(48)	ū	10)	Synthensemble
BRASS   Square Lead   10 (0)   11   17 (1)   66 (0)   62   Square Lead   10 (0)   11   17 (2)   68 (0)   57   Lead Voice   10 (2)   17 (2)   68 (0)   59   Plusk Organ   10 (2)   17 (2)   68 (0)   59   Plusk Organ   10 (3)   17 (2)   68 (4)   Plusk Organ   10 (4)   17 (7)   54 (6)   56 (4)   Plusk Organ   10 (6)   17 (7)   54 (6)   56 (4)   Plusk Organ   10 (6)   17 (7)   54 (6)   56 (4)   Plusk Organ   10 (6)   17 (7)   54 (6)   Square Lead   10 (10)   17 (10)   56 (4)   Plusk Organ   10 (6)   17 (7)   54 (6)   Plusk Organ   10 (7)   The plusk Organ   10 (8)   17 (10)   17 (10)   18 (10)   Plusk Organ   10 (10)   Plusk Organ   Plusk Organ   10 (10)   Plusk Organ   P	ž		122	9	12	ReverseCymbal	Ē	(0)	24	[1]	otar i neme
BRASS   6(0)	SEL -		14	(8)	7	Synth Drum		É	ફ	(0)	Cicy noise
BRASS   SQUART Lead   10 (0)   17 (1)   66 (6)   67   Saw Lead   10 (0)   11 (1)   17 (1)   48 (0)   57   Lead Voices   10 (2)   12 (2)   17 (2)   48 (0)   60   Fluck Organ   10 (1)   11 (1)   17 (2)   48 (0)   60   Fluck Organ   10 (2)   12 (2)   17 (3)   58 (46)   -	7 10		+	3		Midiodic 1 Ohi		3 (	Š	1 (0)	0
BRASS 17 (0) 66 (0) 62 Square Lead (10 (0) 11 (0) 11 (1) (1) 66 (0) 57 Lead Voice (10 (0) 11 (1) (1) (1) (1) (1) (1) (1) (1) (1)			ĵ	3	3 1	Pariodic Hom	2	(40)	<b>3</b>	11 (7)	Mist
BRASS   SQUART Lead   10 (0)   17 (1)   66 (6)   67   Saw Lead   10 (0)   11 (1)   17 (1)   48 (0)   57   Lead Voices   10 (2)   17 (2)   48 (0)   59   Charteng   10 (2)   17 (2)   48 (0)   59   Charteng   10 (3)   17 (4)   51 (0)   58   Gir Harmonics   10 (6)   17 (7)   54 (6)   59   Charteng   10 (2)   17 (1)   51 (16)   58 (46)	117		123	6	12	Taiko Drum	<b>8</b>	(32)	62	11 (6)	Sweep Pad
BRASS  17 (0) 66 (0) 57 Saw Lead 10 (0) 11 (0) 11 (1) 17 (1) 66 (6) 59 Lead Voices 10 (2) 12 (2) 17 (2) 48 (0) 59 Fluck Organ 10 (3) 11 (1) (2) 17 (2) 48 (0) 59 Fluck Organ 10 (3) 11 (1) (2) 17 (2) 48 (0) 59 Fluck Organ 10 (3) 11 (1) (2) 17 (2) 50 (3) 50 (4) 50 Fluck Organ 10 (4) 11 (5) 51 (1) (6) 51 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	116		12	6	z	Wood Block		(32)	108	11 (5)	Dream
BRASS   10   65 (0)   62   Square Lead   10 (0)   11   11   11   17 (0)   66 (0)   60   Square Lead   10 (0)   11   11   11   11   17 (1)   66 (16)   5   Lead Voice   10 (0)   11   11   17 (1)   60 (0)   60   Pluck Organ   10 (0)   11   17 (1)   60 (1)   60 (1)   60   Pluck Organ   10 (0)   11   17 (1)   60 (1)   60 (1)   60   Pluck Organ   10 (0)   11   17 (1)   60 (1)   60   Grand Flure   10 (1)   11   17 (1)   60 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   11   17 (1)   60 (1)   60   Chirpper Flure   10 (1)   60   Chirpper Flure   10 (1)   60   Chirpper Flure   10 (1)   60   Chirpper   10 (1)   60	114		ž	£	73	Agogo	2	(32)	106	11 (4)	Metal Pad
BRASS   17 (0)   66 (0)   62   Square Lead   10 (0)   11   11   17 (1)   66 (16)   57   Ladd Vicine   10 (2)   11   11   17 (2)   66 (16)   59   Ladd Vicine   10 (2)   11   17 (3)   50 (0)   50   Pluck Organ   10 (4)   11   17 (4)   51 (0)   55 (0)   55 (0)   59   Pluck Organ   10 (4)   11   17 (6)   56 (48)	127		125	3	12	Applause	8	9	120	11 (3)	Crystal Ens.
BRASS   17 (0)   65 (0)   62   Square Leed   10 (0)   11   11   17 (1)   66 (16)	1.00		3	3	16	automonia i	22	(34)	10/		Chack are
BRASS   SQUARE Lead   10 (0)   11   17 (0)   56 (0)   62   Square Lead   10 (0)   11   17 (1)   56 (16)			3	3	31	Telephone	9	3	7	11 (2)	Space Pad
BRASS   10   65 (0)   62   Square Leed   10 (0)   11   11   17 (1)   66 (0)   65   Square Leed   10 (1)   11   11   17 (1)   56 (16)   5   Laad Voice   10 (1)   11   11   17 (1)   56 (16)   50   Pluck Organ   10 (3)   11   17 (3)   50 (0)   50   Pluck Organ   10 (3)   11   17 (3)   50 (0)   50   Pluck Organ   10 (3)   11   17 (3)   50 (0)   50   Pluck Organ   10 (4)   11   17 (5)   54 (0)   54   Start Name   10 (4)   11   17 (6)   54 (4)   - Charang   10 (6)   11   17 (6)   55 (10)   55 (1	15.0		<b>3</b> 1	3	3 :	Rind Tweet	2 8	(32)	<b>3</b> 2	- (a)	Polysynth
BRASS   SYNTHLEAD   17 (0)   56 (0)   62   Squere Lead   10 (0)   11   17 (1)   56 (16)   57   Saw Lead   10 (0)   11   17 (1)   56 (16)   57   Lead Voice   10 (2)   11   17 (3)   50 (0)   50   Pluck Organ   10 (3)   11   17 (4)   51 (0)   55 (40)   56 (40)   57   Charang   10 (4)   17 (7)   56 (40)   56 (40)   56 (40)   57 (40)   5	•	(40)	1	3	1		8	(25)	 	11 (0)	Partesia
BRASS 17 (0) 56 (0) 62 Square Lead 10 (0) 11 17 (1) 56 (16)				FEC	\	ָּטַר.				NTH PAD	SY
BRASS 17 (0) 56 (0) 62 Square Lead (10 (0) 111 17 (1) 59 (18) — Saw Lead Voice (10 (0) 111 17 (1) 59 (18) — Saw Lead Voice (10 (0) 111 17 (1) 59 (18) — Synthynet (10 (4) 111 17 (1) 53 (8) 55 (9) 55 (10) — Synthynet (10 (4) 111 17 (1) 54 (1) — Chareng (10 (7) 2 17 (1) 55 (0) 55 (10) 55							23	(48)	72	18 (11)	SynthCelliope
BRASS  BRASS  17 (0) 66 (0) 62 Square Lead 10 (0) 11  17 (1) 66 (18) — Saw Lead 70 (0) 11  17 (1) 66 (18) — Saw Lead 10 (2) 11  17 (1) 56 (18) — Synthynet 10 (3) 11  17 (1) 51 (0) — Synthynet 10 (3) 11  17 (1) 53 (0) 59 Pluck Organ 10 (3) 11  17 (1) 54 (16) — Chareng 10 (3) 11  17 (1) 65 (0) 64 Synth Glocken 10 (0) 11  17 (1) 65 (0) 64 Synth Glocken 10 (0) 11  17 (1) 65 (1) 65 Sh Weve 10 (1) 12  SAX / CLARINET  SAX / CLARINET  SAX / CLARINET  SAX / CLARINET  B (2) 77 (6) — Electric Bass 19 (2) 4  9 (1) 77 (0) 65 Mellow A. Bass 19 (2) 4  9 (1) 77 (1) 77 (1) 65 Mellow A. Bass 19 (2) 4  9 (1) 77 (1) 77 (1) 65 Mellow A. Bass 19 (2) 4  9 (1) 78 (1) 77 (1) 67 Fretless Bass 19 (2) 4  9 (1) 79 (2) — Floked E. Bass 19 (2) 4  9 (1) 79 (2) — Synth E. Bass 19 (2) 4  9 (1) 79 (2) — Synth E. Bass 19 (2) 4  18 (1) 65 (0) 73 Rock Bass 19 (1) 4  18 (1) 65 (0) 73 Rock Bass 19 (1) 4  18 (1) 65 (0) 73 Rock Bass 19 (1) 4  18 (2) 66 (1) 73 Rock Bass 19 (1) 4  18 (2) 77 (1) 78 Bass 8. Lead 19 (1) 4  18 (2) 77 (1) 78 Bass 8. Lead 19 (1) 11  18 (3) 74 (16) — Smack Bass 8. Lead 19 (1) 11  18 (4) 72 (0) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 78 Bass 8. Lead 19 (2) 11  18 (2) 74 (16) 78 Bass 8. Lead 19 (2) 11  18 (2) 74 (16) 78 Bass 8. Lead 19 (2) 11  18 (1) 74 (16) 78 Bass 8. Lead 19 (2) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (2) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (16) 77 (16) 78 Bass 8. Lead 19 (1) 11  18 (1) 74 (10) 78 Bass 8. Lead 19 (1) 11  18 (1) 75 (1) 78 (1) 79 (1) 11  18 (1) 74 (1) 77 (1) 78 Bass 8. Lead 19 (1) 11  19 (1) 74 (1) 77 (1) 78 Bass 8. Lead 19 (1) 11  19 (1) 79 (1) 79 (1) 79 (1) 79 (1) 11  19 (1) 79 (1) 79 (1) 79 (1) 79 (1) 11							ď	9	1 -	- 1	2
BRASS  BRASS  17 (0) 66 (0) 62 Square Lead (10 (0) 11 (1) 17 (1) 56 (16) — Saw Lead Voice (10 (2) 17 (2) 56 (16) — Synthyrat (10 (4) 11 (1) 17 (4) 51 (0) 52 (1) 53 (0) 56 (48) — Chareng (10 (2) 17 (4) 55 (0) 56 (48) — Chareng (10 (3) 17 (4) 55 (0) 56 (48) — Chareng (10 (4) 17 (7) 56 (48) — Chareng (10 (7) 57 (17 (8) 55 (1							3	3 (	•		
BRASS   SQUARE Lead   10 (0)   11   17 (0)   56 (0)   62   Square Lead   10 (0)   11   17 (1)   56 (10)							1 1	3	- 1		Blown Bottle
BRASS   SQUARE Lead   10 (a)   11 (b)   17 (c)   56 (d)   62   Square Lead   10 (d)   11 (d)   17 (d)   56 (d)   57   Lead Voice   10 (a)   11 (d)   17 (d)   58 (d)   59   Lead Voice   10 (a)   11 (d)   17 (d)   58 (d)   59   Charler Lead   10 (a)   11 (d)   17 (d)   58 (d)							29	6	74		Ocarina
BRASS   SYNTHLEAD   10 (0)   11   17 (1)   56 (0)   62   Square Lead   10 (0)   11   17 (1)   56 (16)			=======================================	3	용	Trad Kit	15	9	7,4		Recorder
BRASS   SYNTHLEAD   10 (0)   11   17 (1)   56 (16)	-	( <u>8</u>	12	e	8	OrchestralKit	١	(48)	œ		Alto Ensemble
BRASS   SYNTHLEAD   10 (0)   11   17 (1)   56 (16)	<del> </del>		117	(5)	28	Brush Kit	2	ε	Ġ		onexunecni
BRASS   SYNTHLEAD   10 (0)   11   17 (1)   56 (0)   52   Square Lead   10 (0)   11   17 (1)   56 (16)	+		112	(4)	2	7022 7 T	là	9	1 2	1	9111100
BRASS   SQUERY LEAD   10 (0)   11   17 (1)   56 (16)	+		;	(	3 8		3	3	3 5		0
BRASS    17 (0)   66 (0)   627   Square Lead   10 (0)   11 (0)   17 (1)   56 (16)	1		3	(2)	3 !	Quit K +	1	3	2		Alto Fluite
BRASS   SYNTH LEAD   17 (0) 56 (0) 67   Square Lead   10 (0) 11   17 (1) 58 (18)		<u> </u>	3	3	8	LightRock Kit	1	(1 6	8		Classic Flute
BRASS   SYNTH LEAD   17 (0) 56 (0) 62   Square Lead   10 (0) 11   11   17 (1) 56 (18)   —   Sew Lead   10 (1) 11   11   17 (1) 56 (18)   —   Sew Lead   10 (1) 11   11   17 (2) 48 (0) 57   Lead Voice   10 (2) 12   17 (3) 50 (0) 50   Pluck Organ   10 (3) 11   17 (1) 55 (48)   —   Synthynet   10 (4) 11   17 (7) 54 (1)   —   Charang   10 (5) 17   17 (8) 54 (16) 61   Sth Wave   10 (8) 11   17 (10) 60 (0) 64   Synth Glocken   10 (10) 11   17 (11) 61 (16) 63   Nylon Synth   10 (11) 2   17 (10) 60 (0) 65   Acoustic Bess   19 (1) 2   18 (1) 6 (1) 78 (16) 65   Mellow A, Bass   19 (1) 4   19 (1) 6 (1)		(EE	=======================================	Ξ	8	Rock Kit 2	74	9	65		Jazz Flute
BRASS    Square Lead   10 (3)   11   17 (0)   56 (0)   62   Square Lead   10 (3)   11   11   17 (1)   56 (16)		(128)	112	6)	23	Rock Kit 1	2	9	2		Piccolo
BRASS   SYNTH LEAD   117 (0)			ถึ	PEH	YBOARD	XE	- <del> </del>			UTE	
BRASS   SYNTH LEAD   17 (0)   56 (0)   52   Square Lead   10 (0)   11 (1)   11 (1)   56 (16)	8	(X	8	E					8	ď	Cido, Cidi iliet
BRASS   SYNTH LEAD   177 (0)   56 (0)   62   Square Lead   10 (0)   11   17 (1)   56 (18)   — Saw Lead   10 (1)   11   17 (1)   56 (18)   — Saw Lead   10 (1)   11   17 (2)   48 (0)   57   Lead Voice   10 (2)   12   17 (3)   50 (0)   50   Pluck Organ   10 (3)   11   17 (4)   51 (0)   — Synthynet   10 (3)   11   17 (5)   53 (0)   58   Gtr Harmonics   10 (5)   2   17 (6)   56 (48)   — Chiffer Lead   10 (6)   11   17 (7)   54 (16)   — Chareng   10 (7)   2   17 (10)   61 (16)   59   Chareng   10 (10)   11   17 (10)   61 (16)   59   Chareng   10 (10)   11   17 (11)   61 (16)   59   Chareng   10 (10)   11   17 (11)   61 (16)   59   Chareng   10 (10)   11   17 (11)   61 (16)   59   Chareng   10 (10)   11   17 (11)   61 (16)   59   Chareng   10 (10)   11   17 (10)   61 (16)   63   Nylon Synth Glocken   10 (10)   11   17 (11)   61 (16)   65   Acoustic Bass   19 (1)   4   4   4   4   4   4   4   4   4	8	8	. 8	Ē	1	SINGUA DOSS		3 5	3 8		
BRASS   SYNTH LEAD   17 (1)   56 (0)   62   Square Lead   10 (1)   11   17 (1)   56 (16)	8 8		<b>.</b>	3	_	Smark Base	l	3	1	9 (10)	Soft Clarinat
BRASS   SYNTH LEAD   17 (0)	8	•	<u>.</u>	9		Sien Base 7	ı	<b>&amp;</b>		9 9	Synth Sax
BRASS         SYNTH LEAD           BRASS         Synth Lead         10 (0)         17 (1)         566 (0)         522         Square Lead         10 (0)         11         10 (1)         11           17 (1)         56 (16)         -         Sew Lead Voices         10 (1)         11         10 (1)         11           17 (2)         48 (0)         57         Lead Voices         10 (2)         12         11         10 (3)         11           17 (3)         50 (0)         58         Gtr Harmonics         10 (3)         11         10 (3)         11           17 (5)         53 (0)         58         Gtr Harmonics         10 (5)         7         11         10 (5)         7         7         10 (5)         7         7         11         10 (5)         7         7         11         10 (1)         11         11         11         11 (1)         11         11         11 (1)         11	8	9	ði:	æ	3	Synth Chopper	1:	33	78	9 (8)	DistortionSax
BRASS         SYNTH LEAD           BRASS         Square Lead         10 (0)         17 (1)         56 (6)         52         Square Lead         10 (0)         11         10 (1)         11         10 (1)         11         10 (1)         11         10 (1)         11         11         10 (1)         11         11         11         10 (1)         11         11         10 (1)         11         11         10 (1)         11         11         11         10 (2)         11         11         11         10 (2)         11         11         11         10 (2)         11         11         11         11         10 (3)         11         11         11         10 (3)         11         11         11         10 (3)         11         11         11         10 (3)         11         11         11         11         11         11         11         11         11         11         11         11         11         11         12         11         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         13         12         12	2	<b>3</b>	8	(7)	- 16	Bright E.Bess	88	6	79		Baritone Sax
BRASS     SYNTH LEAD       17 (0)     56 (0)     62     Square Lead     10 (0)     11       17 (1)     56 (16)     —     Saw Lead Voice     10 (1)     11       17 (1)     56 (16)     —     Saw Lead Voice     10 (2)     12       17 (2)     48 (0)     57     Lead Voice     10 (3)     11       17 (3)     50 (0)     53 (0)     58     Gtr Harmonics     10 (3)     11       17 (6)     56 (48)     —     Synthynet     10 (6)     11       17 (7)     54 (16)     61     Str Harmonics     10 (8)     11       17 (1)     55 (0)     59     Chareing     10 (8)     11       17 (1)     61 (16)     61     Str Harmonics     10 (10)     11       17 (1)     61 (16)     63     Synth Glocken     10 (10)     11       17 (10)     60 (0)     59     Chopper Flure     10 (10)     11       SAX / CLARINET     BASS     19 (1)     4       8 (2)     77 (16)     65     Acoustic Bass     19 (1)     4       9 (1)     78 (19)     65     Acoustic Bass     19 (1)     4       19 (1)     78 (16)     67     Step Bass     19 (1)	 **	9	12	(6)	19	Picked E. Bass	I	(g)	78	:	Rock Tenor
SYNTH LEAD       BRASS     SQUISTO Lead     SYNTH LEAD       17 (0)     66 (0)     62     Squisto Lead     10 (0)     11       17 (1)     58 (18)     —     Saw Lead Voice     10 (1)     11       17 (2)     48 (0)     57     Lead Voice     10 (2)     12       17 (3)     50 (0)     60     Pluck Organ     10 (3)     11       17 (5)     53 (0)     58     Gtr Harmonics     10 (5)     2       17 (1)     54 (0)     —     Synthynet     10 (5)     2       17 (1)     54 (16)     61     5th Wave     10 (8)     11       17 (1)     61 (16)     61     5th Wave     10 (9)     11       17 (1)     61 (16)     63     Nylon Synth Glocken     10 (10)     1       SAX / CLARINET     8     Acoustic Bass     19 (1)     4       9 (1)     77 (16)     68     Mellow A. Bass     19 (1)     4       9 (1)     77 (16)     68     Mutte Bass     19 (2)     4       9 (4)     78 (48)     —     Mutte Bass     19 (3)     4       9 (4)     78 (16)     67     Step Bass     19 (3)     4	8	(%)	ē	9	ä	Freciess Dass	1/2	É	8	1	Part Clarinet
BRASS  17 (0) 56 (0) 67 Square Lead  17 (1) 58 (16) — Saw Lead 10 (1) 11  17 (1) 58 (16) — Saw Lead Voice 10 (2) 12  17 (3) 50 (0) 57 Lead Voice 10 (3) 11  17 (4) 51 (0) — Synthynet 10 (5) 2  17 (5) 53 (0) 58 Gtr Harmonics 10 (5) 2  17 (7) 54 (0) — Chareng 10 (7) 7  17 (1) 55 (0) 59 Chapper Flute 10 (8) 11  17 (1) 60 (0) 64 Synth Glocken 10 (9) 11  SAX / CLARINET SAX / CLARINET Bass 19 (0) 4  9 (1) 77 (16) 65 Acoustic Bass 19 (1) 4  9 (2) 78 (16) 67 Step Bass 19 (2) 4  O (4) 78 (16) 67 Step Bass 19 (3) 4	} €	Ì	3 :	3	Šű	Crap coss .	3 5	9 (	ò		
BRASS         SYNTH LEAD           17 (0)         56 (0)         627         Squere Lead         10 (0)         11           17 (1)         56 (16)         —         Saw Lead         10 (1)         11           17 (1)         56 (16)         —         Saw Lead         10 (1)         11           17 (2)         48 (0)         57         Lead Voice         10 (2)         12           17 (3)         50 (0)         90         Pluck Organ         10 (3)         11           17 (4)         51 (0)         —         Synthynet         10 (4)         11           17 (5)         53 (0)         58         Gtr Harmonics         10 (5)         2           17 (7)         54 (0)         —         Chiffer Lead         10 (5)         2           17 (8)         54 (16)         61         5th Wave         10 (6)         11           17 (10)         60 (0)         64         Synth Glocken         10 (10)         1           17 (11)         61 (16)         63         Nylon Synth         10 (11)         2           SAX         CLARINET         BASS         19 (0)         4           9 (1)         77 (16)	3	3 3		3	å	OF DATE OF T	2	(15)	70		Breathy Tanor
BRASS         SYNTH LEAD           BRASS         SYNTH LEAD           17 (0)         56 (0)         627         Square Lead         10 (0)         11           17 (1)         58 (18)         —         Sew Lead         10 (1)         11           17 (1)         58 (18)         —         Sew Lead Voice         10 (2)         12           17 (2)         48 (0)         57         Lead Voice         10 (2)         12           17 (3)         50 (0)         60         Pluck Organ         10 (3)         11           17 (4)         51 (0)         —         Synthynet         10 (4)         11           17 (8)         56 (48)         —         Chiffer Lead         10 (6)         11           17 (8)         54 (16)         61         5th Wave         10 (8)         11           17 (10)         60 (0)         59         Chapper Flute         10 (8)         11           17 (11)         61 (16)         63         Nylon Synth         10 (10)         2           5AX / CLARINET         BASS         19 (1)         4           8 (2)         77 (16)         Mellow A. Bass         19 (1)         4	1	5	0	2	i	Mirro Dage	1	8	78	e (3)	Tenor Sax
BRASS         SYNTH LEAD           BRASS         Square Lead         10 (0) 11           17 (0)         56 (0)         62         Square Lead         10 (0)         11           17 (1)         58 (18)         —         Saw Lead Voice         10 (1)         11           17 (2)         48 (0)         57         Lead Voice         10 (2)         12           17 (3)         50 (0)         60         Pluck Organ         10 (3)         11           17 (4)         51 (0)         —         Synthynet         10 (3)         11           17 (6)         56 (48)         —         Chiffer Lead         10 (6)         11           17 (7)         54 (16)         61         Sth Wave         10 (6)         11           17 (1)         55 (0)         59         Charreng         10 (8)         11           17 (1)         61 (16)         61         Sh Wave         10 (8)         11           17 (1)         61 (16)         63         Nylon Synth         10 (10)         1           17 (1)         61 (16)         65         Acoustic Bess         19 (1)         4           8 (1)         77 (0)         65 <td></td> <td>9</td> <td>8</td> <td>િ</td> <td>10</td> <td>Electric Bass</td> <td>ļ</td> <td>(<del>6</del>)</td> <td>77</td> <td>8 (2)</td> <td>Mellow Airo</td>		9	8	િ	10	Electric Bass	ļ	( <del>6</del> )	77	8 (2)	Mellow Airo
BRASS         SYNTH LEAD           BRASS         Square Lead         10 (0) 11           17 (1)         56 (0)         62         Square Lead         10 (1) 14           17 (1)         58 (18)         —         Saw Lead Voice         10 (2) 12           17 (3)         50 (0)         50         Pluck Organ         10 (3) 11           17 (4)         51 (0)         —         Synthynet         10 (3) 11           17 (6)         53 (0)         58         Gtr Harmonics         10 (3) 11           17 (6)         56 (48)         —         Chiffer Lead         10 (6) 11           17 (7)         54 (0)         —         Chiffer Lead         10 (6) 11           17 (1)         56 (48)         —         Chiffer Lead         10 (6) 11           17 (1)         54 (16)         61         Sth Wave         10 (8) 11           17 (1)         61 (16)         59         Chareng         10 (8) 11           17 (1)         61 (16)         63         Nylon Synth         10 (10)         1           17 (1)         61 (16)         65         Acoustic Bess         19 (0)         4 <td>1</td> <td>(<b>16</b>)</td> <td>ಹಿ</td> <td><math>\widehat{\boldsymbol{\epsilon}}</math></td> <td>ő</td> <td>Mellow A. Bass</td> <td>8</td> <td>9</td> <td>77</td> <td><b>9</b> (3)</td> <td>Alto Sax</td>	1	( <b>16</b> )	ಹಿ	$\widehat{\boldsymbol{\epsilon}}$	ő	Mellow A. Bass	8	9	77	<b>9</b> (3)	Alto Sax
BRASS     SYNTH LEAD       BRASS     Square Lead     10 (0)     11 (1)       17 (1)     56 (0)     62     Square Lead     10 (1)     11       17 (1)     56 (16)     —     Saw Lead Voice     10 (1)     11       17 (2)     48 (0)     57     Lead Voice     10 (2)     12       17 (3)     50 (0)     60     Pluck Organ     10 (3)     11       17 (4)     51 (0)     —     Synthynet     10 (4)     11       17 (6)     53 (0)     58     Gtr Harmonics     10 (5)     2       17 (6)     56 (48)     —     Chiffer Lead     10 (6)     11       17 (7)     54 (0)     —     Chareng     10 (6)     11       17 (1)     55 (0)     59     Chareng     10 (6)     11       17 (1)     61 (16)     63     Nylon Synth Glocken     10 (10)     1       17 (1)     61 (16)     63     Nylon Synth     10 (11)     2       SAX / CLARINET     BASS	8	e	ದ	9	€	Acoustic Bass	8	e	76	8 (0)	Soprano Sex
BRASS         SYNTH LEAD           17 (0)         56 (0)         62         Square Lead         10 (0)         117 (0)           17 (1)         56 (16)         —         Saw Lead         10 (1)         118 (16)           17 (2)         48 (0)         57         Lead Voice         10 (2)         121 (32)           17 (3)         50 (0)         60         Pluck Organ         10 (3)         112 (0)           17 (4)         51 (0)         —         Synthynet         10 (4)         115 (16)           17 (5)         53 (0)         58         Gtr Harmonics         10 (5)         27 (18)           17 (6)         56 (48)         —         Chiffer Lead         10 (8)         117 (32)           17 (8)         54 (16)         61         5th Wave         10 (8)         117 (32)           17 (1)         61 (16)         63         Nylon Synth         10 (11)         20 (48)           17 (1)         61 (16)         63         Nylon Synth         10 (11)         20 (48)					OASS				-	, CLX0.340	
BRASS     SYNTH LEAD       17 (0) 56 (0) 62     Squere Lead     10 (0) 11       17 (1) 56 (16) —     Saw Lead Voice     10 (1) 11       17 (2) 48 (0) 57     Lead Voice     10 (2) 12       17 (3) 50 (0) 60     Pluck Organ     10 (3) 11       17 (4) 51 (0) —     Synthynet     10 (4) 11       17 (5) 53 (0) 58     Gtr Harmonics     10 (5) 2       17 (7) 54 (0) —     Chareng     10 (7) 7       17 (8) 54 (16) 61     Sth Wave     10 (9) 11       17 (10) 60 (0) 64     Synth Glocken     10 (10) 1       17 (11) 61 (16) 63     Nylon Synth     10 (11) 2									֓֟֟֟֝֟֟֟֝֟֟֟֟ ֓֓֞֓֓֞֞֓֓֓֞֓֓֞֩֓֓֓֞֩֞֓֓֞֩֞֓֓֓֞֩֞֡֓֓֓֞֡֓֓֡֓֡	CIADINE	ı
BRASS  17 (0) 56 (0) 57 Square Lead 10 (0) 11  17 (1) 58 (18) — Saw Lead 10 (1) 11  17 (1) 58 (18) — Saw Lead 10 (1) 11  17 (2) 48 (0) 57 Lead Voice 10 (2) 12  17 (3) 50 (0) 50 Pluck Organ 10 (3) 11  17 (4) 51 (0) — Synthynet 10 (4) 11  17 (5) 53 (0) 58 Gtr Harmonics 10 (5) 2  17 (7) 54 (0) — Chareng 10 (7) 7  17 (1) 55 (0) 59 Chopper Flute 10 (9) 11  17 (10) 60 (0) 64 Synth Glocken 10 (10) 1		(E	3	=	- 1	Nylon Synth	සි	(6)	61	17 (11)	ovn.BrassEns.
BRASS Square Lead 10 (0) 11:  17 (0) 56 (0) 57 Square Lead 10 (0) 11:  17 (1) 58 (16) — Saw Lead 10 (1) 11:  17 (2) 48 (0) 57 Lead Voice 10 (2) 12:  17 (3) 50 (0) 50 Pluck Organ 10 (3) 11:  17 (4) 51 (0) — Synthynet 10 (4) 11:  17 (5) 53 (0) 58 Gtr Harmonics 10 (5) 2:  17 (8) 54 (16) 61 5th Wave 10 (8) 11:  17 (9) 55 (0) 59 Chopper Flute	8	8	<b>.</b>	6	- 1	Synth Glocken	2	9	8	17 (10)	Synth Brass
SPASS         SYNTH LEAD           17 (0)         56 (0)         52         Square Lead         10 (0)         11           17 (1)         58 (16)         —         Saw Lead         10 (1)         11           17 (1)         58 (16)         —         Saw Lead         10 (1)         11           17 (2)         48 (0)         57         Lead Voice         10 (2)         12           17 (3)         50 (0)         60         Pluck Organ         10 (3)         11           17 (4)         51 (0)         —         Synthynet         10 (4)         11           17 (5)         53 (0)         58         Gtr Harmonics         10 (6)         11           17 (6)         56 (48)         —         Charang         10 (7)         7           17 (8)         54 (16)         61         5th Wave         10 (8)         11	t	සි	112	9	ö	Chopper Flute	5	9	얡	17 (9)	Tuba
BRASS Square Lead 10 (0) 11:  17 (0) 56 (0) 57 Square Lead 10 (0) 11:  17 (1) 58 (18) — Saw Lead 10 (1) 11:  17 (2) 48 (0) 57 Lead Voice 10 (2) 12:  17 (3) 50 (0) 50 Pluck Organ 10 (3) 11:  17 (4) 51 (0) — Synthynet 10 (4) 11:  17 (5) 53 (0) 58 Gtr Harmonics 10 (6) 11:  17 (7) 54 (0) — Chareng 10 (7) 7	<b>87</b>	9	119	8	ð	5th Wave	<u>o</u>	( <del>1</del> 6)	ጀ	17 (8)	Open Fr. Horn
BRASS Square Lead 10 (0) 11:  17 (0) 56 (0) 57 Square Lead 10 (0) 11:  17 (1) 58 (16) — Saw Lead 10 (1) 11:  17 (2) 48 (0) 57 Lead Voice 10 (2) 12:  17 (3) 50 (0) 50 Pluck Organ 10 (3) 11:  17 (4) 51 (0) — Synthynet 10 (4) 11:  17 (5) 53 (0) 58 Gtr Harmonics 10 (5) 2:  17 (6) 56 (48) — Chiffer Lead 10 (6) 11:	<b>8</b> 8	8	27	9	<b>ತ</b>	Chareng		9	Ľ	17 (7)	Close Fr. Horn
BRASS Square Lead 10 (0) 11: 17 (0) 56 (0) 57 Square Lead 10 (1) 11: 17 (1) 58 (16) — Saw Lead 10 (1) 11: 17 (2) 48 (0) 57 Lead Voice 10 (2) 12: 17 (3) 50 (0) 60 Pluck Organ 10 (3) 11: 17 (4) 51 (0) — Synthynet 10 (4) 11: 17 (5) 53 (0) 58 Gtr Harmonics 10 (5) 7	92	<b>3</b>	117	3	õ	Chiffer Lead		(48)	S	17 (6)	Brass & Synth
BRASS Square Lead 10 (0) 11:  17 (0) 56 (0) 57 Square Lead 10 (1) 11:  17 (1) 58 (16) — Saw Lead 10 (1) 11:  17 (2) 48 (0) 57 Lead Voice 10 (2) 12:  17 (3) 50 (0) 60 Pluck Organ 10 (3) 11:  17 (4) 51 (0) — Synthynet 10 (4) 11:	H	(E	27	(5)	10	Gtr Harmonics	85	. 6	8	17 (5)	rombone
BRASS Square Lead 10 (0) 11: 17 (0) 56 (0) 57 Square Lead 10 (1) 11: 17 (1) 58 (16) — Saw Lead 10 (1) 11: 17 (2) 48 (0) 57 Lead Voice 10 (2) 12: 17 (3) 50 (0) 60 Pluck Organ 10 (3) 11:	 I	(16)	115	: 3	2	Synthynet		; E	; 9	1/ (4)	-lugel Horn
BRASS Square Lead 10 (0) 11: 17 (1) 58 (16) — Saw Lead 10 (1) 11: 17 (2) 48 (0) 57 Lead Voice 10 (2) 12:	1	ε	=	٤	: ē	riccx Organ	8	3	2	1/ (3)	wing triller
BRASS SQUERO Lead SYNTH LEAD  17 (0) 56 (0) 62 Squero Lead 10 (0) 11:  17 (1) 58 (16) — Sew Lead 10 (1) 111  17 (7) 48 (0) 57		í		É	č	Leady & Olca	3 5	3 5	5 8	(2)	
BRASS Squere Leed 10 (0) 11 (1		3	3 8	3 3	5 2	Land Voice	1	€ 6	à	17 (2)	rumnet
BRASS Square Lead (0) (0) (1)	3 !	3		3	<b>5</b> i	Saw pact	1	18)	<u>.</u>		Octave Bress
BRASS SYNTHLEAD	B9	ê	117	9	õ		23	9	8		Bress
I WOUNT TOO!				ÄD	SYNTHE	•	·			BRASS	
	MO	LKI.		NA.	1 120		011			14000	

<sup>•</sup>The numbers in perentheses ( ) are bank data.
Program change number = Program change data+1 / Bank number = Bank data+1

RHYTHM	MIDI PR CHANG		RHYTHM		I PROGRAI NGE DAT	
·	NORM	TECH		NORM	TE	СН
8B	EAT	- i:	show	TIME		
8Bt Standard 1	10 (0)	90 (96)	Broadway Show	6 (0	)) 15	(32
8Bt Standard 2	10 (1)	90 (80)	Cabaret	6 (	1) 15	(48
8Bt Soft Rock	10 (2)	90 (48)	Hollywood	6 (2	2) 30	(16
8Bt Ballad	10 (3)	91 (32)	Vaudeville	6 (3	3) 24	(64
Folk Rock	10 (4)	85 (0)	Soft Shoe	6 (4	24	(80
Country Rock	10 (5)	85 (32)	Paris Ballad	6 (!	5) 74	(96
ROCK	/DISCO		COUNTE	RY/R&B		
Rock'n'Roll 1	3 (0)	80 (64)	Country 2step	14 ((	)) 17	(112
Rock'n'Roll 2	3 (1)	80 (32)	Country Folk		1) 16	(16
Disco Pop	3 (2)	123 (48)	Country Waltz	14 (		(0
8Bt Soul 1	3 (3)	87 (32)	Bluegrass	14 (3	. <del></del>	(48
8Bt Soul 2	3 (4)	87 (0)	R&B 8 Beat	14 (4		(16
Disco	3 (5)	123 (64)	R&B Ballad	14 (!		(64
<u> </u>	IEAT	·		AD	·	
16Bt Stand, 1	. 11 (0)	96 (64)	Foxtrot	7 ((	)) 29	(96
16Bt Stand, 2	11 (1)	96 (48)	Chanson Fox	7 (	······	(64
16Bt Pop	11 (2)	107 (48)	Modern Fox	7 (	• • • • • • • • • • • • • • • • • • • •	(0
16Bt Rock	11 (3)	99 (112)	GospelShuffle	7 (		(64
16Bt Ballad	11 (4)	99 (96)	Gospel 16Beat	7 (	· · · · · · · · · · · · · · · · · · ·	(16
Piano Pop	11 (5)	101 (0)	Hawiien	7 (!		
	RN ROCK			/POLKA	.	
Jazz Rock	4 (0)	113 (80)	U.S.March 2/4		) D	(32
Soul Rock	4 (1)	102 (48)	GermanMrch2/4	15 (		(48
Soul Ballad	4 (2)	103 (32)	Polka 2/4	15 (		(32
Carib. Rock	4 (3)	118 (48)	U.S.March 6/8	15 (		(16
Samba Rock	4 (4)	117 (16)	Orch.March2/4	<b>-</b>	1) 0	(48
Saisa	4 (5)	68 (48)	Polka 6/8		5) 5	(32
	VING	30 (407		LTZ	,,   0	(01
Stand, Swing	12 (0)	25 (0)	Simple Waltz	· <b>-</b> .	0) 13	(0
B.Bend Ballad	12 (1)	39 (16)	StandardWaltz	8 (		(16
Dixie	12 (2)	24 (32)	Swingy Waltz	8 (		(16
Big Band Mid	12 (3)	36 (48)	Vienna Waltz	• • • • • • • • • • • • • • • • • • •	3) 9	
Big Band Fast	12 (4)	36 (32)	Chanson Waltz			(32
Big Band Slow	12 (5)	38 (80)	Orch.Waltz			(64
	OTHERS)					
Shuffle R&R	5 (0)	76 (48)	Rhumba		0) 58	(32
ShuffleBoogie	5 (1)	70 (48)	Beguine		1) 59	
Swing Rock	5 (2)	73 (16)	Paso Doble	••••	2) 69	(18
Rock Ballad 1	5 (3)	74 (80)	Mambo	•	3) 56	(32
Rock Ballad 2	5 (4)	75 (96)	Cha Cha		4) 57	
Soul R.Ballad	5 (5)	75 (32)	Swingy Reggae		5) 71	(32
	COMBO	73 (32)		TIN 2	- 1 11	(32
		24 (10)	<del></del>	<del></del>	1) 40	/01
Jazz Combo	13 (0)	34 (16)	Bossanova 1		0) 48	
Jazz Ballad 1	13 (1)	44 (16)	Bossanova 2		1) 48	
Jazz Ballad 2	13 (2)	35 (16)	Jazz Bossa		2) 49	(16
Mod.Jazz Mid	13 (3)	40 (48)	Samba		3) 51	(48
Mod.Jazz Fast	13 (4)	40 (80)	Tango Contin.		4) 53	(64
Jazz Waltz	13 (5)	46 (48)	Tango Haban.	i 9 (!	5)   55	(16

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

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

RHYTHM PR 307

RHYTHM	MIDI PR CHANGI		RHYTHM	MIDI PR				
	NORM	TECH	<u> </u>	NORM	TECH			
8B	EAT		ROCK (O	THERS)				
8Bt Standard 1	10 (0)	90 (96)	Shuffle R&R	5 (0)	76 (48)			
8Bt Standard 2	10 (1)	90 (80)	ShuffleBoogle	5 (1)	77 (32)			
8Bt Soft Rock	10 (2)	90 (48)	Swing Rock	5 (2)	73 (16)			
8Bt Ballad 1	10 (3)	91 (32)	Rock Balled 1	5 (3)	74 (80)			
Folk Rock	10 (4)	85 (0)	Rock Ballad 2	5 (4)	75 (96)			
Country Rock	10 (5)	85 (32)	Soul R.Balled	5 (5)	75 (32)			
8Bt Ballad 2	10 (6)	91 (16)						
British Rock	10 (7)	86 (16)			<del></del>			
ROCK	/DISCO	i i	JAZZ (	сомво				
Rock'n'Roll 1	3 (0)	80 (64)	Jazz Combo 1	13 (0)	34 (16)			
Rock'n'Roll 2	3 (1)	80 (32)	Jazz Ballad 1	13 (1)	44 (16)			
Disco Pop	3 (2)	123 (48)	Jazz Ballad 2	13 (2)	35 (16)			
8Bt Soul 1	3 (3)	87 (32)	Mod.Jazz Mid	13 (3)	40 (48)			
8Bt Soul 2	3 (4)	87 (0)	Mod.Jazz Fast	13 (4)	40 (80)			
Disco	3 (5)	123 (64)	Jazz Waltz	13 (5)	46 (48)			
Disco 70's	3 (6)	121 (16)	Jazz Combo 2	13 (6)	34 (32)			
Euro Beat	3 (7)	120 (48)	Jazz Blues	13 (7)	38 (96)			
168	BEAT		SHOW	TIME				
16Bt Stand. 1	11 (0)	96 (64)	Broadway Show	6 (0)	15 (32)			
16Bt Stand. 2	11 (1)	96 (48)	Cabaret	6 (1)	15 (48)			
16Bt Pop	11 (2)	107 (48)	Hollywood	6 (2)	30 (16)			
16Bt Rock 1	11 (3)	99 (112)	Vaudeville	6 (3)	24 (64)			
168t Ballad	11 (4)	99 (96)	Soft Shoe	6 (4)	24 (80)			
Piano Pop	11 (5)	101 (0)	Paris Ballad	6 (5)	74 (96)			
16Bt Stand. 3	11 (6)	96 (32)						
16Bt Rock 2	11 (7)	101 (32)			the local accessor			
MODE	RN ROCK		COUNTRY/R&B					
Jazz Rock 1	4 (0)	113 (80)	Country 2step	14 (0)	17 (112)			
Soul Rock	4 (1)	102 (48)	Country Folk	14 (1)	16 (16)			
Soul Bailad	4 (2)	103 (32)	Country Waltz	14 (2)	19 (0)			
Carib. Rock	4 (3)	118 (48)	Bluegrass	14 (3)	20 (48)			
Samba Rock	4 (4)	117 (18)	R&B 8 Beat	14 (4)	81 (16)			
Salsa	4 (5)	68 (48)	R&B Balled	14 (5)	75 (64)			
Jazz Rock 2	4 (8)	112 (48)	Country Pop	14 (6)	17 (64)			
Funk	4 (7)	110 (48)	ModernCountry	14 (7)	17 (80)			
SV	WING			RAD				
Stand.Swing 1	12 (0)	25 (0)	Foxtrot	7 (0)	29 (96)			
B.Band Ballad	12 (1)	39 (16)	Chanson Fox	7 (1)	29 (64)			
Dixie	12 (2)	24 (32)	Modern Fox	7 (2)	30 (0)			
Big Band Mid	12 (3)	36 (48)	GospelShuffle	7 (3)	77 (64)			
Big Bend Fest	12 (4)	36 (32)	Gospel 16Beat	7 (4)	100 (16)			
Big Band Slow	12 (5)	38 (80)	Hawiian	7 (5)	22 (16)			
Stand.Swing 2	12 (6)	32 (48)						
Orch. Swing	12 (7)	37 (0)						

RHYTHM	MIDI PR CHANG		RHYTHM		OGRAM E DATA
· :	NORM	TECH		NORM	TECH
MARCH	/POLKA	· 	LA	TIN 1	
U.S.March 2/4	15 (0)	0 (32)	Rhumba	16 (0)	58 (32)
GermanMrch2/4	15 (1)	1 (48)	Beguine	16 (1)	59 (32)
Polka 2/4	15 (2)	4 (32)	Paso Doble	16 (2)	69 (16)
U.S.March 8/8	15 (3)	2 (16)	Mambo	16 (3)	56 (32)
Orch.March2/4	15 (4)	0 (48)	Cha Cha	16 (4)	57 (48)
Polka 6/8	15 (5)	5 (32)	Swingy Reggae	16 (5)	71 (32)
			Canzone Beguin	16 (4)	59 (16)
			Reggae	16 (5)	71 (16)
WA	LTZ		LA'	TIN 2	
Simple Waltz	8 (0)	13 (0)	Bossanova 1	9 (0)	48 (96)
StandardWaltz	8 (1)	11 (16)	Bossanova 2	9 (1)	48 (64)
Swingy Waitz	8 (2)	12 (16)	Jazz Bossa	9 (2)	49 (16)
Vienna Waltz	8 (3)	9 (32)	Samba	9 (3)	51 (48)
Chanson Waltz	8 (4)	11 (32)	Tango Contin.	9 (4)	53 (64)
Orch.Waltz	8 (5)	8 (64)	Tango Haban.	9 (5)	55 (16)

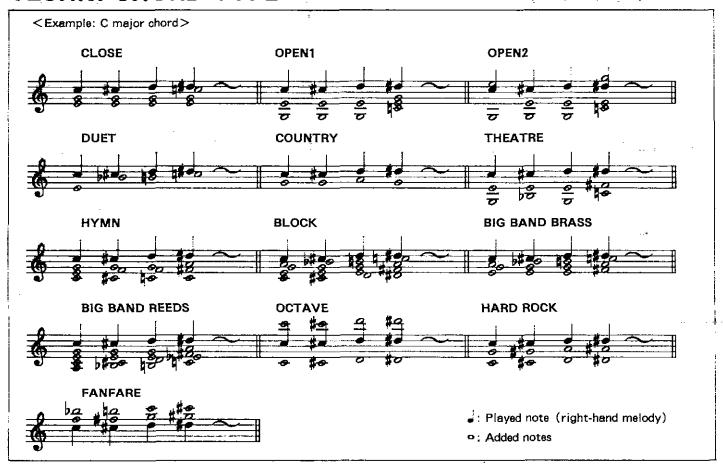
<sup>•</sup>The numbers in parentheses ( ) are bank data. Program change number = Program change data+1  $\nearrow$  Bank number = Bank data+1

# **KEYBOARD PERCUSSION**

	Other kits	Orchestral kit (PR307)	General MIDI
	_	_	Bass Drum 2*
•	Bass Drum	Orchestral Bass Drum	Bass Drum 1
<b></b>	Rim Shot	Rim Shot	Rim Shot
81	Snare Drum 1	Orchestral Snare Drum 1	Snare Drum 1
<b></b>	Special Snare Drum	Castanets	Hand Clap
6:	Snare Drum 2	Orchestral Snare Drum 2	Electric Snare
D D	Floor Tom	Triangle	Floor Tom Low
	Splash Cymbal	Cymbel Soft Mallet	Hi Hat Close
e.	Tom Low	Tambourine	Floor Tom High
φ.	Crash Cymbal Low	Orchstral Cymbal 1	Hi Hat Pedal
8~	Tom Mid	Tem-Tam	Tom Low
<b>☆</b> *	Crash Cymbal High	Orchstral Cymbal 2	Hi Hat Open
<b>⊕</b> н	Tom High	Rattle	Tom Mid
	Hi Hat Close 1	Tubiar Bells C	Tom High 1
Ф_2°	Hi Hat Close 2	Tublar Bells C*	Crash Cymbal 1
• ·	Hi Hat Open	Tubler Bells D	Tom High 2
	Ride Bell	Tublar Bells D*	Ride Cymbal 1
A	Ride Cymbal	Tublar Bells E	Chinese Cymbel
0.	Conga Low	Tublar Bells F	Ride Bell
0.	Small Conga Low	Tublar Bells F*	Tambourine
0-	Conga High	Tublar Bells G	Splash Cymbal
C+	Small Conga High	Tubiar Bells G*	Cowbell
0:	Conga Crash	Tublar Bells A	Crash Cymbal 2
· · · · · · · · · · · · · · ·	Metal Cabasa	Tublar Bells A*	Vibraslap
<b>≘</b> 3-	Timbales Low	Tublar Bells B	Ride Cymbel 2
ල <sup>3</sup> ~	Timbales High	Tubler Bells c	Bongo High
	Cowbell Low	Tublar Bells c*	Bongo Low
0-	Cowbell High	Tublar Bells d	Conga Mute Crash
	Agogo Low	Tubler Bells d*	Conga High
CB.	Agogo High	Timpani E	Conga Low
A.	Samba Whistle Low	Timpani F	Timbeles High
	Samba Whistle High	Timpani F*	Timbales Low
×	Claves	Timpani G	Agogo High
*	Slep	Timpani G*	Agogo Low
109	Hand Clap	Timpani A	Cebasa
•	Tambourine	Timpani A*	Maracas
0	Shaker	Timpani B	Semba Whistle Short -
	Triangle Mute	Тітрапіс	Sembe Whistle Long
89	Maracas	Timpeni c*	Guiro Short
<i>1</i> <u> </u>	Triangle Open	Timpanî d	Guiro Long
- Q	Guiro Short	Timpeni d*	Claves
<b>%</b>	Guiro Long	Timpenie	Wood Block Mid
Œ	Orchestral Bass Drum	Timpanif	Wood Block Low
9	Orchestral Snare Drum	Wood Block Low	Cuica High
<b></b>	Orchestral Cymbal	Wood Block Mid	Cuica Low
<u>hine.</u>	Wind Chime	Wood Block High	Triangle Mute
	<del>-</del>		Triangle Open≉

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

## TECHNI-CHORD TYPE



# **MIDI** Implementation Chart

Digital Ensemble [ SX-PR305/SX-PR307 ]

(Transmitted)

۴u	ınction	RIGHT, PART2, PART4~15	LEFT	PART16	ACMP1	ACMP 2,3	BASS	DRUMS	CHORD	CONTROL	Hemerica
asic	Default	1-16	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	1-16	
	Default	3	3	3	3	3	3	3	3	3	OMNI OFF, POLY MODE
ode	Messages	×	×	×	×	×	×	х	×	×	
	Altered		×			_	-	<u> </u>	_		
ote		0-119	0-119	0-119	0-119	0-119	0-119	0-119	0-119	-	Changes depending on the position of the transpose
umber	True voice	_	_	<b> </b>	_	–	-	ļ —	-	_	control octave shift, and drums type.
	Note ON	0	0	0	0	0	0	0	0	_	
elocity	Note OFF	×	×	×	×	×	×	×	×	-	
fter	Key's	×	×	×	×	Х	×	Х	×	_	
ouch	Ch's	×	×	×	×	×	×	×	×	_	***
itch Bend	der	0*	0.	×	0.	0.	0,	×	0.	×	
	0,32	0	0	0	0	0	0	0	0	×	bank select MSB, LSB
	1 <b>6,3</b> 8	0.	0.	×	O,	o.	o.	×	o.	×	modulation data entry MSB, LSB
	7	000	0	0	l ô	ô	0	0	0	×	volume
	10	0.	<u>Q.</u>	×	×	×	×	×	×	×	panpot
	11 <b>64</b>	00	0	o,	O**	O**	ô.	×	×	×	expression sustain
iontroi	66	Ŏ	0	×	×	×	×	×	×	×	sostenute pedal
Change	67 80	000000000	00	×	×	×	×	×	×	×	soft pedal auto play chord
	82	0	0	×	×	×	x	0	×	×	intro, fill in, ending
	91	0	0	0	0	0	0	0	0	0	reverb
	93 100,101		00	×	O**	×	×	×	×	×	digital effect RPN LSB, MSB
	120	0*	0.	0.	×	×	×	×	×	×	all sound off
	121	0.	0.	0.	×	×	×	×	×	×	reset all cotrollers
rog		0	0	0	0**	0**	0	0	0	×	Changes depending on program change mode
hange	True #	_			<u> </u>		<u> </u>		<u> </u>	<u> </u>	end prog.cng to p.men
ystem e	xclusiv <del>e</del>					0					
	Song Pos				(	Ox.			•		
system common	Song Sel	į			•	°xC					0-19
Ottation.	Tune	E				×					<u></u>
System	Clock					0					
Real Time	Commands				(	Ox•					start/stop.continue
	Local ON / OFF	×	×	×	×	×	×	×	×		
Aux	All notes OFF	×	×	×	×	×	×	×	×		
Viessages	S Active Sense		•			0					
· · ·	Reset		****	<u> </u>		×	<u></u> .		·		
Notes		O**	·Transm	sitted dur	ring SEQ	UENCE	R playba	ck and di			

Mode 1: OM

OMNI ON, POLY

Mode 2:

OMNI ON, MONO

O:Yes

Mode 3:

OMNI OFF, POLY

Mode 4:

OMNI OFF, MONO

# MIDI Implementation Chart

Digital Ensemble [ SX-PR305/SX-PR307 ]

(Recognized)

F	unction	RIGHT, PART2, PART4~15	LEFT	PART16	ACMP1	ACMP2,3	BASS	DRUMS	CHORD	CONTROL	Remarks
Besic	Default	1-16	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	1-16	
	Default	3	3	3	3	3	3	3	3	3	OMNI OFF, POLY MODE.
Mode	Messages	×	×	×	×	×	×	×	×	×	•
	Altered	_	_	_	_	_			_	_	I
Note		0-127	_	0-127	0-127	0-127	0-127	0-127	0-127		Changes depending on the position of the transpose
Number	True voice	0-127	_	0-127	0-127	0-127	0-127	0-127	0-127	-	control octave shift, and drums type.
4	Note ON	. 0	0	0	0	0	0	0	0	_	
/elocity	Note OFF	· ×	×	×	×	×	×	· ×	×	_	
After	Key's	×	×	×	×	. ×	×	×	×		
Touch	Ch's	×	×	×	×	×	×	×	×	_	
Pitch Bend	der	0	0	×	0	0	0	×	0	_	
	0,32	Ō	Ō	0	0	0	0.**	0	Q	×	bank select MSB, LSB
	1 6,38	00	00	×	×	O	0 ×	×	0 X	×	modulation data entry MSB, LSB
	7	0000000	0	0	0		0	0	0	×	volume
	10 11		00	×	×	×	×	×	×	×	panpot expression
	64	ŏ	0	×	O**	O++	ô*•	. ×	×	×	sustain
Control	66 67	8	00	×	×	× :	×	. X	×	×	sostenute pedal
Change	80	i × i ×	ŏ	ŝ	l â		×	×	×	∣ ŝ	auto play chord
	82	. X O	×	. X	. ×	×	×	00	×	' ×	intro, fill in, ending
	91 93	. 0	00	×	0	0	0:	C ×		0 ×	reverb digital effect
	100,101	0	0	×	×	×	×	×	×	×	RPN LSB, MSB
	120 121	00	00	00	00	00	00	00	00	×	all sound off reset all cotrollers
Prog	<del> </del>	0	0	0	O**	0**	0	0	0	×	Changes depending on
Change	True #	_	_	_	_	. –		_	_	_	program change mode and program to p.mem
System ex	xclusive				<del>!</del>	0		•		•	
	Song Pos				(	OX*	<del></del>				
System common	Song Sel				(	⊃×*					0-19
	Tune					×					
System	Clock					0					:
Real Time	<sup>8</sup> Commands				(	ox•					start/stop,continue
	Local ON/ OFF	×	×	×	×	×	×	×	×	_	!
Aux	All notes OFF	0	0	0	. 0		0	0	0	<u> </u>	
Messages						С					
	Reset	ļ		•		×					<u> </u>
Notes		o**							received	can be se	ot.

Mode 1: OMNI ON, POLY

Mode 2:

OMNI ON, MONO

O:Yes

Mode 3:

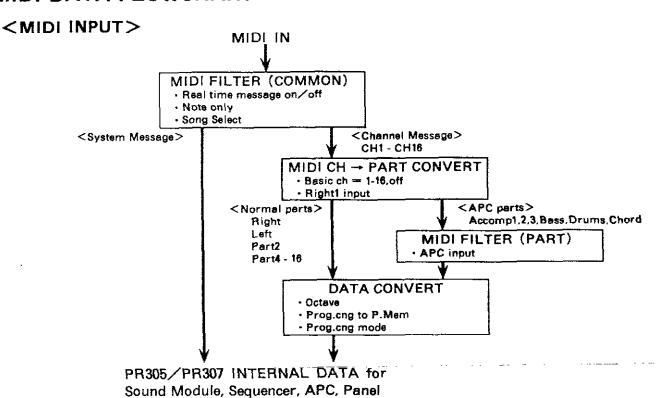
OMNI OFF, POLY

Mode 4:

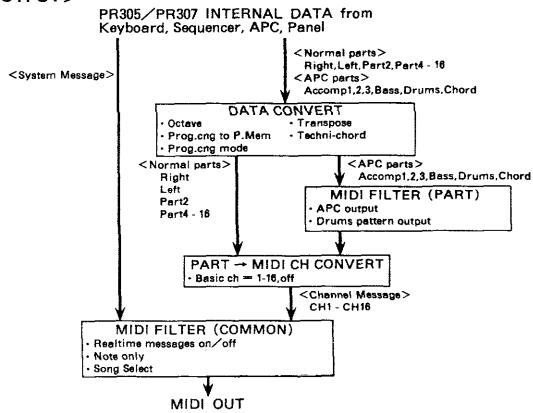
OMNI OFF, MONO

### MIDI DATA FORMAT

### MIDI DATA FLOWCHART



### <MIDI OUTPUT>



### Message format

### ■ Channel voice message

### Note off

8nH	Note off status
kk	Note number
VV	Velocity

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

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

### Note on

9nH	Note on status
: kk	Note number
VV	Velocity

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

### Control change

### Bank select

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

n: 0-F Basic channel mm,11:00H-7FH

- -Indicates program change bank. Used when program Change mode is set to Normal mode or Technics mode.
- •Transmission/reception of ACCOMP 1,2,3,and BASS bank select is possible only during COMPOSER record.

### Modulation

BnH	Control change status	7
01H	Modulation	
₹¥	Modulation depth value	

n: 0-F Basic channel

vv: 00H-7FH

•Transmission of ACCOMP 1,2,3 BASS and DRUMS modulation is possible only when the rhythm is on, and transmission/reception only during COMPOSER record.

### Data entry

	<u> </u>
BnH	Control change status
06H	Data entry (MSB)
mm	Data entry value (MSB)
(BnH)	Control change status
26H	Data entry (LSB)
11	Data entry value (LSB)

n: 0-F Basic channel mm,11: 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(Left)-40H(Center)-7FH(Right)

### 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	3	ļ
vv	Sustain on/off	-	

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

•Transmission of ACCOMP 1,2,3 and BASS sustain is possible only when the rhythm is on, and transmission/reception only during

COMPOSER record.

Sostenute pedal

BnH	Control change status
42H	Sustain
VV	Sustain 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	Sustain
vv	Sustain 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 LEFT part.

### Rhythm control

BnH 52H vv	Rhyt	rol change status hm control message hm control data	
n:	0-F	Basic channel	
vv:	00H	= off	
	01H	=FILL IN 1	
	02H	=ENDING	

03H = INTRO 05H = FILL IN 2 07H = COUNT INTRO

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

Transmitted data is indicated by parentheses().

•The Reverb for the CONTROL part is the total reverb.

### Digital effect

BnH	Control change status
5DH	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.

### RPN

BnH	Control change status	
i	· ·	
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,11: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, Coarse Tuning (corresponding respectively to the Pitch bend Range and Key Shift of the PR305/307), Fine Tuning, and RPN reset.

RF	N	Data	Entry	
MSB	LSB	MSB	LSB	
00H	00H	mm		Pitch Bend Sensitivity mm:00H - 0CH (0 - 12semi-tones) 11:igored -Up to 1 octave can be specified in semi-tone increments.
00Н	01H	mm	11	Fine Tuning mm,11:00H,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
00Н	02H	mm		Coarse Tuning mm, 28H - 40H - 58CH (-24 - 0 - + 24 semi-tones) 11:ignored -Up to 2 octave can be specified insemi- tone increments.
7FH	7FH	-		RPN Reset mm,11:ignored For when the RPN number is not specified. The internal set value does not change.

### Program change

CnH	Program change status
pp	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.
- -Transmission/reception of ACCOMP 1,2,3,and BASS program change is possible only during COMPOSER record.
- -When PROG.CNG TO P.MEM is ON, the PANEL MEMORY numbers are transmitted/received on the basic channel for the RIGHT part.

### Pitch bend change

_		
E	nH	Pitch bend status
1	1	Pitch bend value (LSB)
n	nm	Pitch bend value (MSB)

n: 0-F Basic channel

11,mm: 00H-7FH Pitch bend data

- -The Pitch Bend Range is determined by the Pitch Bend Range (Pitch Bend Sensitivity) of each part.
- -Transmission of ACCOMP 1,2,3 and BASS Pitch bend change is possible only when the rhythm is on, and transmission/reception 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

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

n- 0-F

Basic channel

### All note off

Channel mode status
All note off
Dummy data

n: 0-F

Basic channel

Receive only

### OMNI off

BnH	Channel mode status
<b>7</b> CH	OMNI off
00H	Dummy data

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

BnH	Channel mode status
7EH	MONO
00H	Dummy data

: 0-F Basic channel

•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	

n: 0-F Basic channel

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

### ■ System common message

### Song position pointer

• .	•	
F2H	Song position pointer	
11	Least significant	i
mm	Most significant	

11,mm: 00H - 7FH

### Song select

•	
F3H	Song select
SS	Song number

ss: 0-19

# Timing Clock F8H Timing clock Start FAH Start Continue FBH Continue Stop FCH Stop Active Sense

### System exclusive

F0H	System exclusive status
ii	ID number
तेते	data
:	:
dd	data
F7H	End of exclusive status
L	

ii: 7EH(universal non-real time ID), 50H(Technics ID)

dd: 00H-7FH

### About the PR305 / PR307 MIDI exclusive

Outline of PR305 / PR307 MIDI exclusive

MIDI exclusive	Universal system exclusive GM on GM off
	Technics MIDI exclusive trnsmission/reception of tempo data

### Universal system exclusive Message format

Turn General MIDI System On:

Active sense

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
	L

### Turn General MIDI System Off:

F0H	Exclusive status
7EH	Universal Non-Real Time SysEx
7FH	ID of target device (7F:Broadcast)
09H	sub-ID # 1 = General MIDI message
02H	sub-ID #2 = General MIDI off
F7H	EOX

### Technics MIDI exclusive Message format

### Tempo data:

FEH

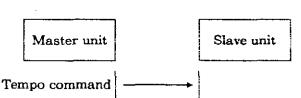
F0H	Exclusive status
50H	Technics ID number
25H	Command ID (TMP=Tempo data ID)
DTI	Tempo data LSB
DT2	Tempo data MSB
F7H	End of exclusive

·[data] for Tempo.

DT1	Data LSB
DT2	Data MSB

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

Tempo data is 9bit Binary (=  $101000 \sim 100101100$ ) 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#	***************************************					P.CNG≠	SOUND NAM	ΛE	P.CNG#	SOUND NAME		
1	Piano	(2*)	33	Acoustic Bass	(1)	65	Soprano Sax	(1*)	97	ice Rain	(2)	
2	Bright Piano	(1)	34	Bright E.Bass	(1)	66	Alto Sax	(1*)	98	Soundtrack	(2)	
3	E.Grand	(1*)	35	Picked E.Bass	(1)	67	Breathy Tenor	(1*)	99	Synth Glocken	(2*)	
4	Honky Tonk	(2)	36	Fretless Bass	(2)	68	Baritone Sax	(1*)	100	Atmosphere	(2*)	
5	E.Piano 1	(2)	37	Slap Bass 1	(1)	69	Oboe	(1)	101	Mist	(2*)	
6	Modern E.P.1	(2*)	38	Slap Bass 2	(1)	70	English Horn	(1)	102	Goblins	(2*)	
7	Harpsichord	(1*)	39	Smack Bass	(1)	71	Bassoon	(1)	103	Click Vox	(2*)	
8	Clavi	(1)	40	Synth Chopper	(1)	72	Jazz Clarinet	(1*)	104	Star Theme	(2*)	
9	Celesta	(2*)	41	Violin	(1)	73	Piccolo	(1)	105	Sitar	(2)	
10	Glockenspiel	(1*)	42	Viola	(1*)	74	Jazz Flute	(1*)	106	Banjo	(1*)	
11	Music Box	(1)	43	Cello	(1)	75	Recorder	(1)	107	Shamisen	(1)	
12	Vibraphone	(2)	44	Bowed Bass	(1)	76	Pan Flute	(1*)	108	Koto	(1)	
13	Marimba	(1)	45	Tremolo String	(2)	77	Blown Bottle	(2*)	109	Kalimba	(1*)	
14	Xylophone	(1*)	46	Pizzicato	(2)	78	Shakuhachi	(1*)	110	Bagpipe	(1)	
15	Tubular Bells	(2)	47	Harp	(1*)	79	Whistle	(1)	111	Country Fiddle	(2)	
16	Dulcimer	(2*)	48	Timpani	(1)	80	Ocarina	(1)	112	Shanai	(2*)	
17	Full Drawbars	(2)	49	Strings	(1)	81	Square Lead	(2)	113	Tinkle Bell	(2)	
18	Jazz Organ	(2)	50	Slow Strings	(1)	82	Saw Lead	(2)	114	Agogo	(1)	
19	Rock Organ	(2*)	51	Synth Strings	(2*)	83	Synth Calliope	(2*)	115	Steel Drum	(1*)	
20	Pipe Organ 1	(2)	52	String Pad	(2*)	84	Chiffer Lead	(2*)	116	Wood Block	(1)	
21	Harmonium	(2)	53	Choir Ah	(1)	85	Charang	(2*)	117	Taiko Drum	(1)	
22	Bri.Accordion	(2)	54	Vocal Doo	(2)	86	Air Vox	(2*)	118	Melodic Tom	(1)	
23	Harmonica	(1)	55	Synth Vocal	(1*)	87	5th Wave	(2)	119	Synth Drum	(1)	
24	Bandoneon	(2)	. 56	Orchestra Hit	(1)	88	Bass & Lead	(2)	120	Reverse Cymbal	(1)	
25	Bright Ac.Gtr	(1)	57	Trumpet	(1)	89	Fantasia	(2*)	121	Fret Noise	(1)	
26	Folk Guitar	(1*)	58	Trombone	(1)	90	Mellow Ens.	(2*)	122	Breath Noise	(1)	
27	Jazz Guitar	(1*)	59	Tuba	(1)	91	Polysynth	(2*)	123	Seashore	(1)	
28	Bright Solid	(2*)	60	Mute Trumpet	(1)	92	Spacy Pad	(2)	124	Bird Tweet	(2)	
29	Mute Guitar	(2*)	61	Open Fr.Horn	(1)	93	Crystal Ens.	(2*)	125	Telephone	(1)	
30	Overdrive Gtr	(1*)	62	Brass	(1)	94	Metal Pad	(2)	126	. Helicopter	(2)	
31	Distortion Gtr	(2*)	63	Syn.BrassEns.	(2)	95	Halo Vox	(2*)	127	Applause	(1)	
32	Gtr Harmonics	(2*)	64	Synth Brass	(2*)	. 96	Sweep Pad	(2*)	128	Gun Shot	(1)	

<sup>( )=</sup>Number of Tones

### Parts

MIDI CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PART	R	P2	L	P4	P5	P6	P7	P8	P9	P16	P10	P11	P12	P13	P14	P15
SEQUENCER TRACK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

### ■ Non-working Function

ONE TOUCH PLAY/MUSIC STYLE SELECT, PANEL MEMORY, TECHNI-CHORD, AUTO PLAY CHORD, COMPOSER

<sup>\* =</sup> SUB Tone is used. Depending on the sound output status of the instrument, it may be generated.

### **MIDI PRESET DATA**

	ļ i			V	Vithou	it APC	;		With APC								
Mas	ter	PR series							Ext SEQ			Kbd type2	Ext SEC				
Slave		   Keyboard   type1 type2		Organ type1 type2		Sound module	Ext SEQ	PR series		Keyboard type1 type2		Organ type1 type2		Sound module	Ext SEQ	PA :	•
Basic	R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
channel	2	2	2	3	3	2	2	2	2	2	2	3	3	2	2	2	2
	L	4	3	2	2	3	3	3	3	4	3	2	2	3	3	3	3
	4	3	4	4	4	4	4	4	4	3	4	4	.4	4	4	4	4
	5	5	5	5	5	5	5	5	5	off	off	off	off	5	off	off	of?
	8	6	8	ð	8	6	8	8	5	- 6	6	8	6	8	8	•	8
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	. 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	9	9	8	9	9	9	9	8	9	9	9	9	9	9		Ð	9
	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	12	12	12	12	12	12	12	12	12	12	12	12	12	off	12	12	12
	13	13	13	13	13	13	13	13	13	13	13	13	13	off	13	13	13
	14	14	14	14	14	14	14	14	14	14	14	14	14	off	14	14	14
	15	16	15	16	15	15	15	15	15	off	15	off	15	off	15	15	15
	16	15	16	15	16	18	16	16	18	15	off	15	off	off	off	off	off
	Control "	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off
	Accomp1	aff	aff	aff	off	aff	off	off	aff	aff	aff	aff	off	12	off	aff	off
	Accomp2	off	off	off	off	off	off	off	off	off	off	off	off	13	off	off	off
	Accomp3	off	off	off	off	off	off	off	off	off	off	off	off	14	off	off	off
	Bass	off	off	off	off	off	off	off	off	off	off	off	off	15	aff	off	of
	Drums	off	off	off	off	off	off	off	off	15	16	15	16	16	10	18	16
	Chord	off	off	off	off	off	off	off	off	5		5	- 5	off	- 5	5	5
Octave shift	all ch.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Local	L	on	on	no	on	on	on	on	on	on	on	on	90	on.	Oft.	on	201
setting	R	on	on	on	on	on	on	on	QΠ	on	on	on	on	on	on	on	Off
Realtime	message	<b>o</b> n	on	on	on	on	on	OП	off	on	on	on	on	on	90	Or)	off
Clock		int	int	int	int	int	int	•xt	ext	int	int	int	int	int	int	ext	ext
Note only		off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	of
Transpos	I	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	of
Program (tone&dr	cng mode rum)	TECH	TECH	TECH	TECH	GM	TECH	TECH	TECH	TECH	TECH	TECH	TECH	GM	TECH	TECH	TEC
Song sele	et	оп	On	on	on	on	on	On	on	DA	on	on	on	on	OR	ÐΠ	Of
Right inp		dir	Øir	dir	<b>d</b> ir	dır	dır	dir	dir	dir	dir	đir	dir	đir	dir	<b>d</b> ir	di
APC inpu		off	off	off	off	off	off	off	off	on	On.	OΠ	on	on	on	00	or
Techni-ch	ord out	off	off	off	off	off	off	off	off	off	off	off	off	on	off	off	of
Drums ou		off	off	off	off	off	off	off	off	off	off	aff	off	on	off	off	of
APC out	 	off	off	off	off	off	off	off	off	on	on	on	on	on	on	On	O?
Panel mem.	to P.cna	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	of

type1 : Setting used when the connected equipment does not have the MIDI PRESETS capability.

type2: Setting used when the connected equipment has the MIDI PRESETS capability, and the MIDI PRESETS are specified both on this instrument and on the connected equipment.