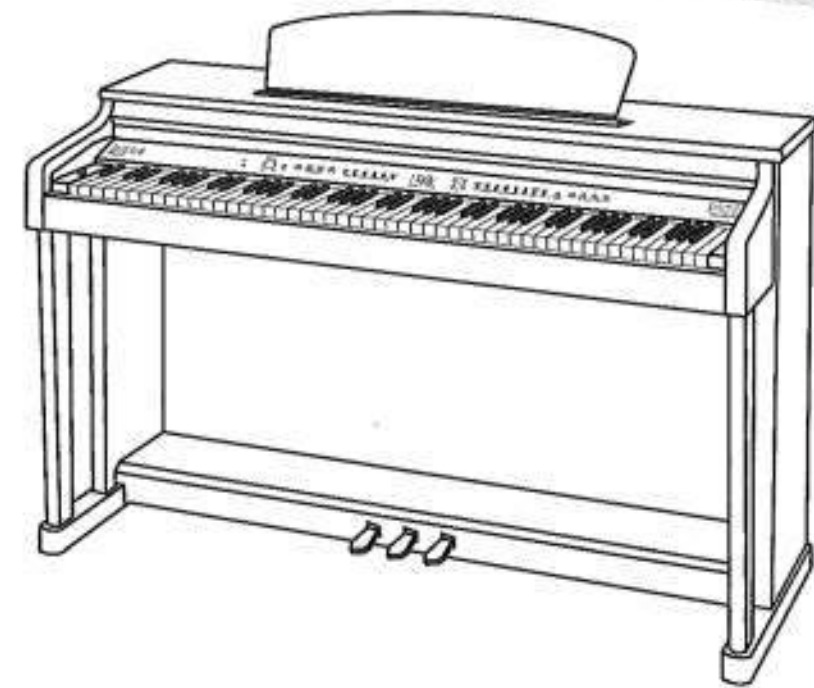
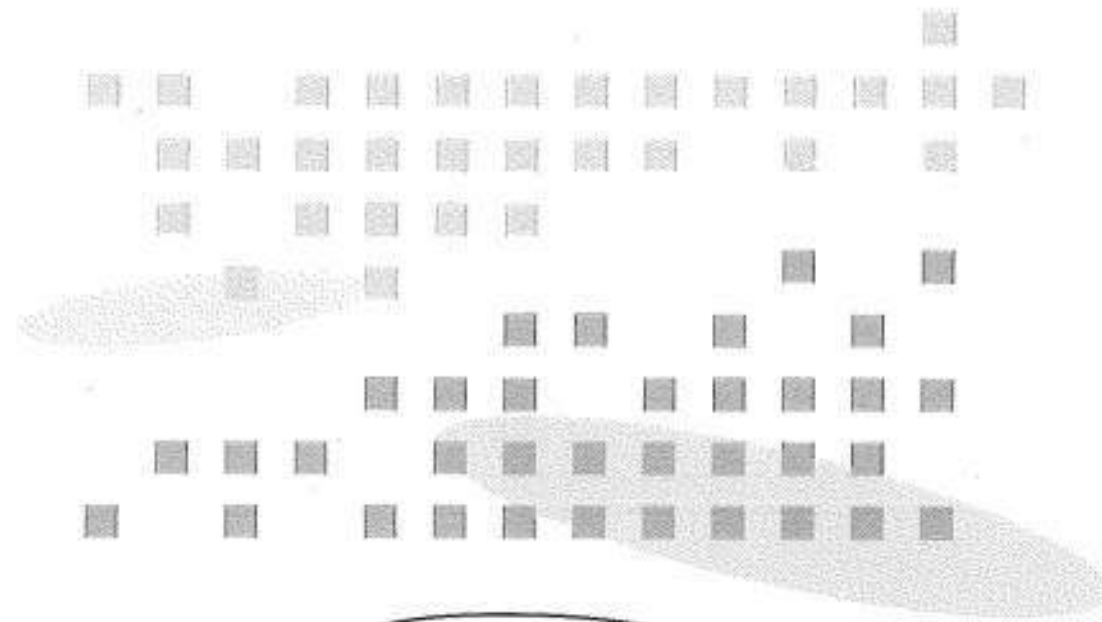


# OWNER'S MANUAL



**High Performance Digital Piano**  
*New feel, new look and new sound*

**INSTRUCTIONS PERTAINING TO A RISK OF FIRE,  
ELECTRIC SHOCK, OR INJURY TO PERSONS.**

**WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT  
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**



This Symbol 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 fire or electric shock.



This Symbol is intended to alert the user to the presence of important information in the literature accompanying this appliance. All information should be read carefully to avoid misuse of product.

**INFORMATION TO THE USER**

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC WARNING**

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment

**PLEASE READ CAREFULLY BEFORE PROCEEDING.**

Please keep these precautions in a safe place for future reference.



**WARNING**

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

- Do not open the piano or attempt to disassemble the internal parts or modify in anyway. The piano contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified service personnel.
- Do not expose the piano to rain, use it near water or damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the piano, or if any unusual smells or smoke should appear to be caused by it, immediately turn off power switch, disconnect the electric plug from outlet, and have the inspected by qualified service personnel.
- Only use the voltage specified as correct for the piano. The required voltage is printed on the name label of the piano.
- Before cleaning the piano, always remove the electric plug from the outlet. Never insert or remove an electric plug with wet hand.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.



**CAUTION**

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, damage to the piano or other property. These precautions include, but are not limited to, the following:

- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy object on it or, place it in a position where anyone could walk on, trip over or roll anything over it.
- When removing the electric plug from the piano or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Do not connect the piano to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause over-heating in the outlet.
- Remove the electric plug from the outlet when the piano is not to be used for extended periods of time, or during electrical storms.
- Before connecting the piano to other electronic components, turn off power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- Do not expose the piano to excessive dust or vibrations, or extreme cold or heat such as in direct sunlight, near heater, or in the car during the day to prevent the possibility of panel discoloration or damage to the internal components.
- Do not use the piano near other electrical products such as televisions, radios, or speakers, since this might cause interference which can affect proper operation of other products.
- Do not place the piano in an unstable position where it might accidentally fall over.

## Precautions

- Before moving the piano, remove all connected cables.
- When cleaning the piano, use a soft, dry cloth. Do not use paint thinners, solvent, cleaning fluids or chemical-impregnated wiping cloths. Also, do not place vinyl, plastic or rubber object on the piano, since might discover the panel or keyboard.
- Do not rest your weight or place heavy objects on the piano.
- Do not use excessive force on the buttons, switches and connectors.
- Take care that the key cover does not pinch your fingers, and do not insert a finger or hand in the key cover gap.
- Never insert or drop paper or metallic or liquids or other objects between the slits of the key cover and keyboard. If this happens, immediately turn off the power and remove electric plug from outlet and inspect by qualified service personnel.
- Do not place the piano against a wall (allow at least 3 cm/one inch from the wall), since this can cause inadequate air circulation, and possibly result in the piano overheating.
- Read carefully the 'SETTING UP YOUR PIANO' section in this manual. Failure to assemble the piano in the proper sequence might result in damage to the piano or even injury.
- Do not operate the piano for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing the ears, consult a physician.
- During thunderstorms, turn the product off and disconnect the plug from the power.

## Contents

# Contents

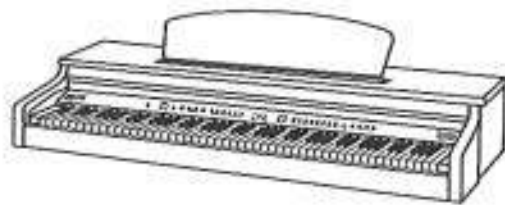
Precautions .....	1
Contents .....	4
Unpacking .....	5
Setting Up Your Piano .....	6
Controls and Terminals .....	8
Adjusting the Volume .....	12
Demo .....	13
Edu Music .....	13
Selecting Voices .....	14
GM Voice .....	15
Reverb .....	15
Touch .....	16
Twin Piano .....	16
Split .....	17
Layer .....	17
Using the Metronome .....	18
Setup (Master Tune, Transpose) .....	19
Setup (Octave, Local Control, Metronome Beat) .....	20
Auto Accompaniment .....	21
Recording .....	26
General MIDI Voice & Drum Table .....	27
Demo Tune List .....	30
MIDI Implementation Chart .....	31
Troubleshooting .....	32
Specifications .....	33

# Unpacking

Carefully take the Digital Piano and its accessories out of the packing box. The Digital Piano set consists of the following items.

**[PIANO BOX]**

Piano Body

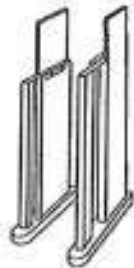


Back Panel (d)

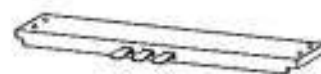


**[STAND BOX]**

Right, Left Legs (a, b)



Pedal Box (c)



Six bolts for Main unit M6 X 16mm (e)



Four Self-Tapping screws for Back panel 4 X 20mm (f)



Two screws for Back panel M4 X 16mm (g)



Four bolts for pedal box M6 X 25mm (h)



Six washers for screws(i)



Four bolts for Main unit -Silver M6 X 30mm (j)



Four caps for legs (k)

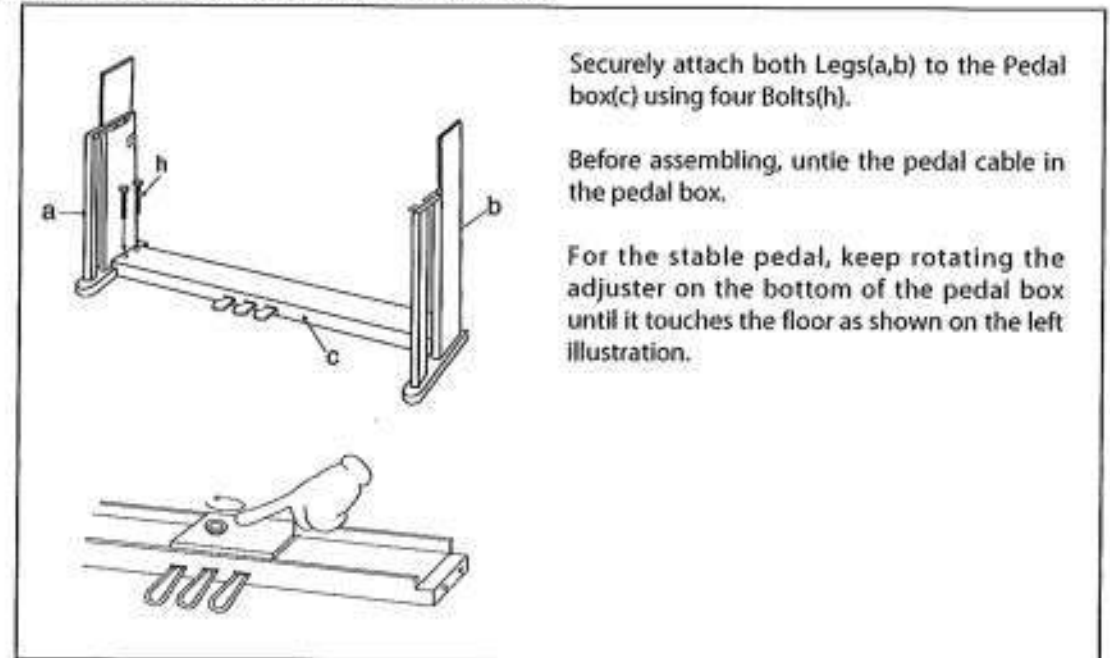


Inspect each item carefully to make sure that it is in good condition. If you find any item missing or damaged, contact the place of purchase immediately for replacement.

# Setting Up Your Piano

The piano is composed of the piano body and stand. Please follow the below steps to assemble the piano.

**1 Attaching the both legs and pedal box assembly**

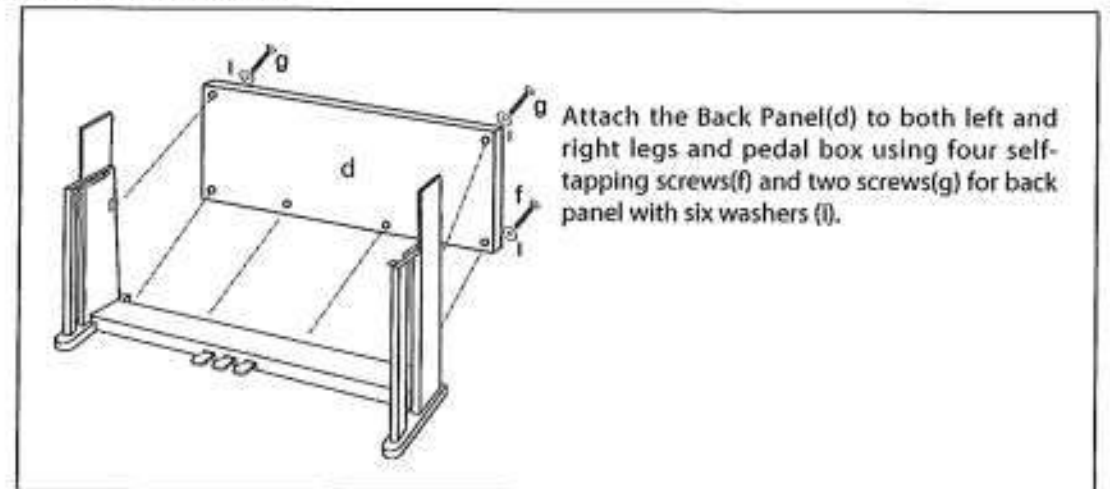


Securely attach both Legs(a,b) to the Pedal box(c) using four Bolts(h).

Before assembling, untie the pedal cable in the pedal box.

For the stable pedal, keep rotating the adjuster on the bottom of the pedal box until it touches the floor as shown on the left illustration.

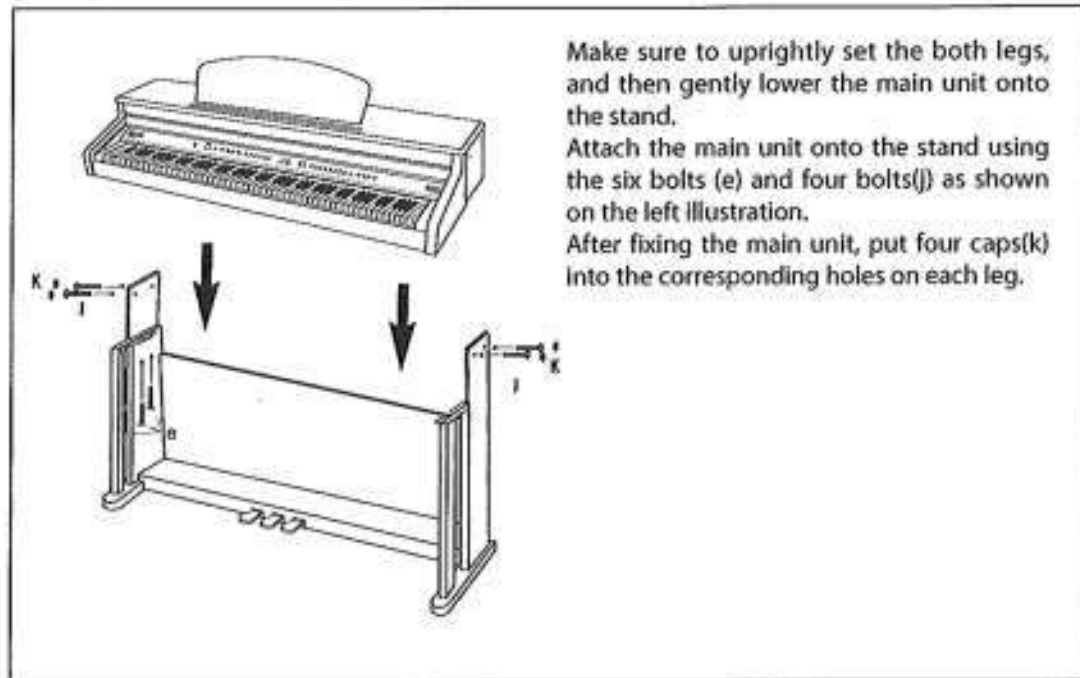
**2 Attaching the back panel**



Attach the Back Panel(d) to both left and right legs and pedal box using four self-tapping screws(f) and two screws(g) for back panel with six washers (i).

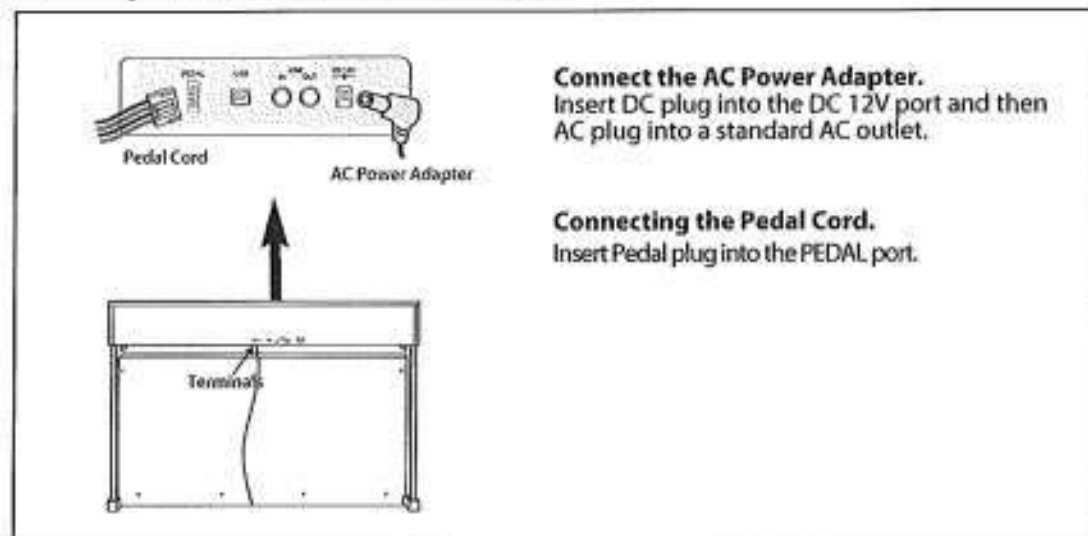


**3** Attaching the main unit and the stand



Make sure to uprightly set the both legs, and then gently lower the main unit onto the stand.  
 Attach the main unit onto the stand using the six bolts (e) and four bolts(j) as shown on the left illustration.  
 After fixing the main unit, put four caps(k) into the corresponding holes on each leg.

**4** Connecting the Pedal cord and AC Power Adapter



**Connect the AC Power Adapter.**  
 Insert DC plug into the DC 12V port and then AC plug into a standard AC outlet.

**Connecting the Pedal Cord.**  
 Insert Pedal plug into the PEDAL port.

# Controls and Terminals

## POWER

**Connect the AC Power Adapter.**  
 Insert DC plug into the DC 12V port and then AC plug into a standard AC outlet.

→ See 'Connecting the pedal cord and AC adapter' on page 7.

**Turn on the power.**

Press the **POWER** button. The power turns on and the initial display appears in the **Multi Function Display**. The voice of Grand Piano is selected automatically at first.

- Adjust the volume by using **MASTER VOLUME**.
- Press and hold down the **POWER** button for around 2 seconds to turn off the power. All lamps and LED display will be turned off.

**Auto Power Off**

Following 30 minutes of inactivity, the piano will be turned off automatically to preserve energy.

**Disable Auto Power Off**

To disable the auto power-off system, hold down the lowest black and white keys and then press the **POWER** button when turning on the piano.

## USING HEADPHONE

Put the headphone plug into the **HEADPHONE Jack**(standard 1/4" phone jack) on the left bottom panel of the main unit.

When headphones are connected, the internal speaker system is automatically shut off.

Since the piano has two **HEADPHONE jacks**, two sets of headphones can be used simultaneously, allowing two people to enjoy listening to the performance.

## USING PEDALS

**Connecting the pedal cord.**

Insert the pedal plug into the pedal connector on the bottom of the main unit.

→ See 'Connecting the pedal cord and AC adapter' on page 7.

**1 RIGHT PEDAL (Damper Pedal)**

With piano tones, depressing the pedal causes notes to linger, much like a piano's damper pedal. With organ tones, depressing the pedal causes notes to continue to sound until the pedal is released.

**2 CENTER PEDAL (Sostenuto Pedal)**

Like the damper pedal function described above, depressing the sostenuto pedal causes notes to be sustained. The difference between a sostenuto pedal and damper pedal is the timing. With a sostenuto pedal, you press the keys and then depress the pedal before you release the keys. Only the notes that are sounding when the pedal is depressed are sustained.

**3 LEFT PEDAL (Soft Pedal)**

Depressing the pedal softens the sound of the notes being played.



## CONNECTING TO AUDIO DEVICE



### LINE IN

Connect the output jack (LINE OUT etc.) of an external synthesizer or the tone generator module and the instrument's **LINE IN** jack using appropriate stereo audio cable. The stereo outputs from another instrument can be connected to this jack, allowing the sound of an external instrument to be reproduced via the instrument's speakers. When this is connected, you can use the instrument's **MASTER VOLUME** control to adjust the volume of the sound output to the external device.

### ⊗ CAUTION

When the sound of an external device is output to the instrument, first turn on the power of the external device, then that of the instrument. Reverse this order when you turn the power off.

### LINE OUT

Connect the instrument's **LINE OUT** jack and the input jacks of a pair of powered speakers using appropriate stereo audio cable.

## CONNECTING TO A COMPUTER

By connecting the digital piano with a computer via USB, you can transfer MIDI and audio data between the instrument and the computer and take advantage of sophisticated computer music programs.

If the digital piano is properly connected to a computer, the device driver required to send and receive data will be automatically installed on the computer, and then the digital piano can be used as an audio device of your computer.

→ Connecting with your computer.  
Please note that a standard USB A-B cable is needed for this connection.

→ Connecting with a mobile device.  
If your mobile device having either Android or iOS operation system supports a standard USB MIDI or AUDIO device, this piano can be connected with your mobile device via USB terminal.  
Please note that both a standard USB A-B cable and an OTG cable are needed for this connection.

### ⊗ CAUTION - Precautions when using the USB terminal.

Please make sure to be fully aware of and observe the following points for the connection. Failing to do so risks freezing the computer and corrupting or losing data. If the computer or the instrument freezes, turn the power of the instrument off and restart the computer.

## CONTROL PANEL

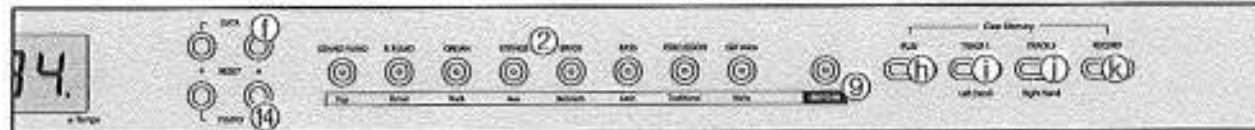


### VOICE SECTION

- ① MASTER VOLUME ..... Page 12
- ② VOICE buttons ..... Page 14
- ③ REVERB ..... Page 15
- ④ TOUCH ..... Page 16
- ⑤ TWIN PIANO ..... Page 16
- ⑥ SPLIT ..... Page 17
- ⑦ LAYER ..... Page 17
- ⑧ METRONOME ..... Page 18

### RHYTHM SECTION

- ⑨ RHYTHM buttons ..... Page 21
- ⑩ ACCOMP ..... Page 23
- ⑪ INTRO/END ..... Page 23
- ⑫ START/STOP ..... Page 22
- ⑬ FILL/SYNC ..... Page 23
- ⑭ TEMPO UP/DOWN ..... Page 22



### FUNCTION SECTION

- Ⓐ MASTER TUNE ..... Page 19
- Ⓑ TRANSPOSE ..... Page 19
- Ⓒ OCTAVE ..... Page 20
- Ⓓ LOCAL CONTROL ..... Page 20
- Ⓔ METRONOME BEAT ..... Page 20
- Ⓕ DATA UP/DOWN

### PLAYER SECTION

- Ⓖ DEMO / EDU MUSIC ..... Page 13
- Ⓗ PLAY ..... Page 13, 26
- Ⓘ TRACK1 ..... Page 26
- Ⓢ TRACK2 ..... Page 26
- Ⓚ RECORD ..... Page 26

### Adjusting the Volume

## Adjusting the Volume

The piano has one volume knob on the panel for adjusting the volume.

### MASTER VOLUME

This determines the entire volume of the piano.

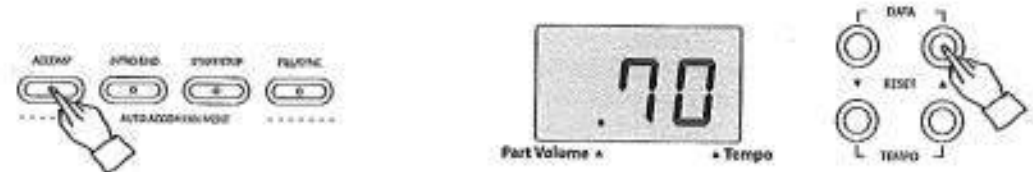


→ This also determines the volume level of the HEADPHONE(s).

### ADJUSTING PART VOLUME

The part volume of accompaniment, split, layer, demo, metronome, reverb and effect independently can be adjusted.

Press and hold down the desired part button and adjust the selected volume by the DATA UP or DOWN button.



→ When pressing the DATA UP or DOWN button, the display shows the current volume and the part volume dot on the display is on.

### PART VOLUME RANGE

- ① Demo 20 ~ 100 (Default Volume 80)
- ② Accomp 20 ~ 100 (Default Volume 70)
- ③ Reverb 0 ~ 100 (Default Volume 30)
- ④ Touch 0 ~ 127 (Default Fixed Velocity 70)
- ⑤ Split 20 ~ 100 (Default Volume 100)
- ⑥ Layer 20 ~ 100 (Default Volume 75)
- ⑦ Metronome 20 ~ 100 (Default Volume 75)

## Demo

There are 50 demo tunes in the piano.

### 1 Enter the demo mode.

Press the **DEMO/EDU MUSIC** button. The LED display shows 'd01' that is the first demo tune.

### 2 Select a desired demo tune.

Change the demo tune by the **DATA UP** or **DOWN** button.

☞ There are 50 tunes in the demo.

☞ Refer to the **MUSIC LIST** on page 30.

### 3 Playback of the selected music.

Press the **PLAY** button. The selected music starts.

### 4 Stop music.

Press the **PLAY** button. The music stops.

### 5 Exit the demo mode.

Press the **DEMO** button to exit the demo mode. The piano goes into the performance mode.

## Edu Music

The Edu Music allows the user to practice the piano using a selection of built-in piano lesson music. The left and right hand parts for each piece can be practiced separately, while adjusting the tempo allows difficult passages to be mastered.

### 1 Enter the Edu Music mode.

Press and hold the **DEMO/EDU MUSIC** button for 2 seconds. The LED display shows 'Ed1' that is the first edu music group and the piano goes into the Edu Music mode.

There are 6 music groups in this edu mode and each group has same tunes as the listed piano lesson book.

Display	Piano Lesson Book	Display	Piano Lesson Book
Ed 1	Buyer 106	Ed 4	Czerny 30
Ed 2	Burgmüller 25	Ed 5	Czerny 40
Ed 3	Czerny 100	Ed 6	Sonatine 17

### 2 Select a desired tune.

Select a desired tune number in the selected edu group by the **DATA UP** or **DOWN** button.

☞ If you don't select any music, the first tune will be automatically set in the selected edu group.

☞ When a tune is selected, the left and right hand buttons light and the play button flashes.

### 3 Playback of the selected music.

Press the **PLAY** button. The selected music starts.

☞ This function can activate or deactivate the left and right-hand parts of selected lesson tune and enables the user to practice each part by pressing the left and right hand buttons.

### 4 Stop music.

Press the **PLAY** button. The music stops.

### 5 Exit the demo mode.

Press the **DEMO** button to exit the edu music mode. The piano goes into the performance mode.

## Selecting Voices

## Selecting Voices

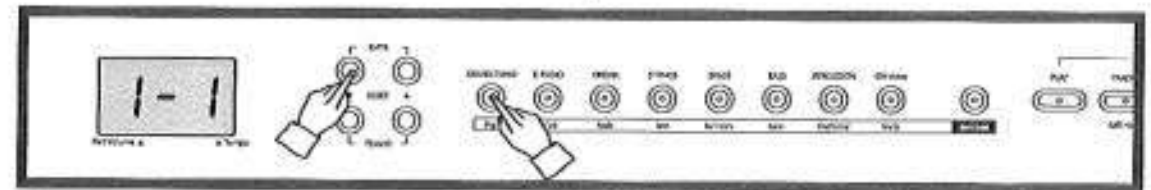
The piano features rich, authentic voices such as piano, strings and brass instruments. It also features a keyboard percussion function that lets you play realistic drum, percussion sounds, and various effect sounds directly from keyboard.

### Voice Types

- ☞ 30 Sounds and GM 128 Voice Sounds
- ☞ 4 Drum kits
- ☞ 1 Sound Effect set

### 1 Select a Voice.

Select the desired voice by pressing the appropriate **VOICE** button.



☞ Piano has total 8 voice groups and each voice group has 5 voices.

☞ When pressing a **VOICE** button, the lamp turns on and the pop-up display shows the location of the selected voice for 5 seconds as follows.

**Left digit of the pop-up display** lets you know the location of the selected voice button. 1~7

**Right digit of the pop-up display** lets you know the location of the voice of the selected button. 1 - 5

☞ After selecting a voice group, you can choose one of 5 voices by pressing either **VOICE** button or **DATA UP** and **DOWN** buttons.

#### POP-UP Display

The pop-up display returns to the previous display after 5 seconds.

#### Backing Up the Selected Voice

The last selected voice in each button is retained in memory until the power is turned off.

### VOICE LIST

Grand Piano	E. Piano	Organ	Strings	Brass	Bass	Percussion	GM Voice
Piano 1	Elec. Piano 1	PipeOrgan	Strings 1	Brass	Acoust. Bass	Standard	GM # 41 (Default)
Piano 2	Elec. Piano 2	Elec. Organ 1	Strings 2	SynBrass1	E. Bass 1	Electric	
Piano 3	Brightness	Elec. Organ 2	Choir	Trumpet	E. Bass 2	TR808	
Harpichord	SQ Wave	Elec. Organ 3	SynthStr. 1	Tenor Sax	SynBass1	Orchestra	
Vibraphone	SW Wave	Accordion	SynthStr. 2	Pan Flute	SynBass2	SFX	

### 2 Play the selected voice.

Adjust the volume by the **MASTER VOLUME** and play the piano with the selected voice.



## GM Voice

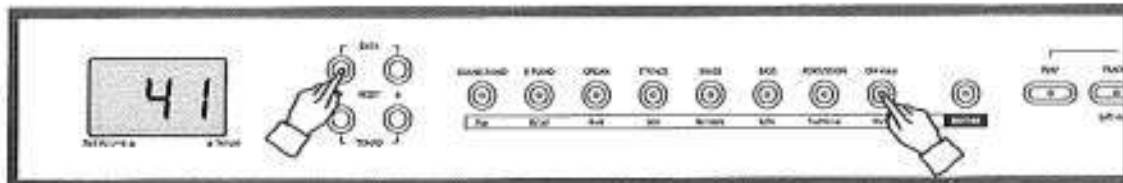
There are 128 different voices in the piano. When the **GM VOICE** button is selected, one of 128 GM voices can be assigned.

### CHANGING GM VOICE BY DATA BUTTONS.

#### 1 Press the GM VOICE button.

The Pop-up display shows you the current selected voice number.

→ Default GM voice: 41 Violin



#### 2 Select the desired voice by pressing the DATA buttons.

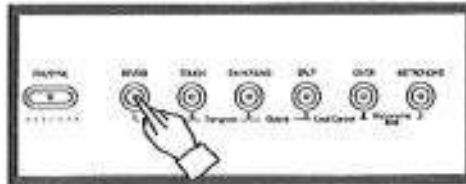
→ See the GM VOICE TABLE on page 27.

## Reverb

Reverb is an effect that recreates the decaying reflections of a sound in a performance space, and reproduces the special ambience of a concert hall.

### REVERB ON/OFF

To turn on reverb, press the **REVERB** button. The lamp lights and reverb is set ON. (default on)



To turn off reverb, press the **REVERB** button again. The lamp turns off and reverb is no longer active.

### SELECTING REVERB TYPE

Press the **REVERB** button. The display shows current reverb type for 5 seconds.

- Once the type is shown on the display, it can be changed into another type.
- There are 8 Reverb types in the piano. r-1 : HALL 1, r-2 : HALL 2, r-3 : ROOM 1, r-4 : ROOM 2, r-5 : ROOM 3 (default), r-6 : STAGE 1, r-7 : STAGE 2, r-8 : PLATE

### ADJUSTING THE REVERB DEPTH

Press and hold the **REVERB** button, and then adjust the depth by pressing the **DATA UP** or **DOWN** button.

- If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default depth (30).
- The range of volume is 0 ~ 100.
- Press and hold the button to continuously raise or lower the value.

## Touch

Touch determines how your playing strength (velocity) affects the volume of the voices. 4 types are available for tailoring the keyboard response to the selected voice, type of song, or your own playing preference.

To turn on effect, press the **TOUCH** button. The lamp lights and touch is set ON. (default on)

- Once the value is shown on the display, it can be changed by the **DATA UP** or **DOWN** button.
- If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default touch (2).
- **Backing Up adjusted value.**  
The last adjusted value of each function can be retained in memory until the power is turned off.

### TOUCH TYPE

Display	Type	Description
1	SOFT	let you produce a relatively loud sound even when playing the key softly.
2	NORMAL	This setting is standard keyboard response and is used as the basic setting.
3	HARD	This setting requires you to play the keys quite strongly to produce maximum loudness.
NA	FIXED(OFF)	This setting is non-sensitive keyboard.

→ Press and hold the **TOUCH** button, and then press the **DATA UP** or **DOWN** button to adjust the fixed velocity. (touch OFF, default 70)

## Twin Piano

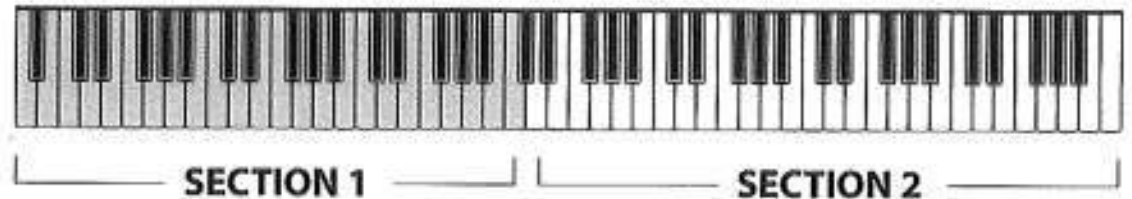
The keyboard can be divided into two separate sections, allowing two people to perform in the same octave.

### 1 Selecting a Voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 14.)

### 2 Press the TWIN PIANO button.

The keyboard splits two sections, which have same octave.



### 3 To turn off the twin piano performance, press the TWIN PIANO button again.

The twin piano performance turns off and the lamp goes out.

## Split

The Split mode allows you to select and play two different voices with your left and right hands - For example, play bass with the left and piano with the right.

### 1 Select the main voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 14.)

### 2 Call up the Split mode.

To call up the split mode, press the **SPLIT** button. Lamp lights and the split is set on. The pop-up displays for 5 seconds.

- ↪ The default voice is **6-1 ACOUST. BASS**.
- ↪ To assign new split point, hold down the **SPLIT** button and press a desired key. (Default F3#, 34)

▼ Split point (F#3, 34)



### 3 Select the split voice.

While the pop-up display shows split voice number, select a split voice. (See the **SELECTING VOICE** section on page 14.)

## ADJUSTING THE SPLIT VOICE VOLUME

Press and hold the **SPLIT** button, and then adjust the volume by the **DATA UP** or **DOWN** button.

- ↪ If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default volume (100).
- ↪ The range of volume is 20 ~ 100.
- ↪ Press and hold the button to continuously raise or lower the value.

## Layer

The Layer mode allows you to select and play two different voices simultaneously in a layer. This function helps to create exceptionally rich and thick tonal textures. The volume balance can be set for the two voices.

### 1 Select the main voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 14.)

### 2 Call up the Layer mode.

To call up the layer mode, press the **LAYER** button. Lamp lights and the layer is set on. The pop-up displays for 5 seconds.

- ↪ The default voice is **4-2 STRINGS 2**.

### 3 Select the layered voice.

While the pop-up display shows layer voice number, select a layer voice. (See the **SELECTING VOICE** section on page 14.)

## ADJUSTING THE LAYERED VOICE VOLUME

Press and hold the **LAYER** button, and then adjust the volume by the **DATA UP** or **DOWN** button.

- ↪ If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default volume (75).

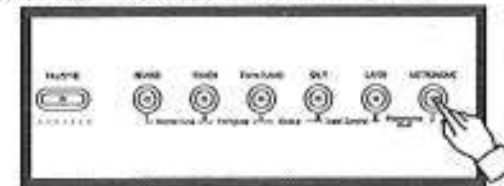
## Using the Metronome

The piano features a convenient metronome that is ideal for practicing.

### START/STOP OF THE METRONOME

To start the metronome, simply press the **METRONOME** button.

Press the **METRONOME** button again to stop the metronome sound.



### ADJUSTING THE TEMPO OF THE METRONOME

You can set the tempo in the range of 20 ~ 280 beats per minute by the **TEMPO** buttons.



- ↪ Press and hold the **TEMPO UP** or **DOWN** button to continuously raise or lower the tempo.
- ↪ If the **TEMPO UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default tempo of the selected rhythm.

### ADJUSTING THE METRONOME VOLUME

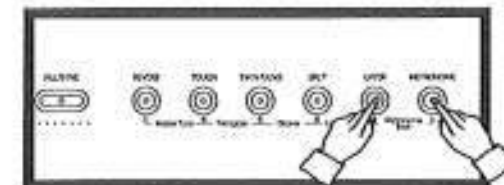
Press and hold the **METRONOME** button, and then adjust the volume by the **DATA UP** or **DOWN** button.

- ↪ Press and hold the button to continuously raise or lower the volume.
- ↪ If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default volume (75).
- ↪ Adjustable volume range 20 ~ 100.

### SELECTING THE BEAT

Press both **LAYER** and **METRONOME** buttons. (NOT HOLD DOWN)

- ↪ When the display shows the current beat for about 5 seconds, the metronome beat can be changed by the **DATA UP** or **DOWN** button.
- ↪ There are 11 kinds of preset metronome beats. (1/4, 2/4, 3/4, 4/4(default), 6/4, 3/8, 6/8, 7/8, 9/8, 12/8, 2/2).

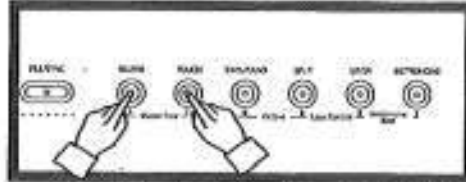


## Setup

### MASTER TUNE

The Tune function lets you make fine adjustments to the pitch, allowing you to accurately match the tuning with that of other instruments.

Press both **REVERB** and **EFFECT** buttons. (NOT HOLD DOWN)

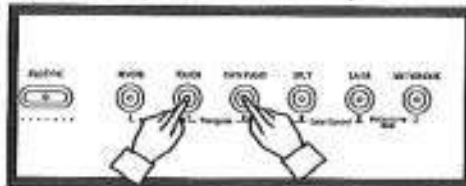


- When the display shows the current value, the value can be changed by the **DATA UP** or **DOWN** button.
- If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default value.(00)
- The range of value is A3 440Hz ± 99 cents.
- **Hz(Hertz)**  
The pitch is measured in units of Hertz (abbreviated Hz), which represents the number of times the sound wave vibrates in a second.
- **Cent**  
Cent is unit of pitch, equal to 1/100 of a semi-note.
- **Backing Up adjusted value.**  
The last adjusted value of each function is retained in memory until the power is turned off.

### TRANPOSE

The **TRANPOSE** function makes it possible to shift the pitch of the keyboard in semi-note units, allowing you to match the pitch of the keyboard to the range of other instruments or singers, or letting you easily play in a different key without having to change your fingering. For example, if the **TRANPOSE** is set F key, playing C results in a pitch of F, or in other words, you can play in the key of C major on the keyboard and automatically have the pitch transposed to F major.

Press both **EFFECT** and **TOUCH** buttons. (NOT HOLD DOWN)

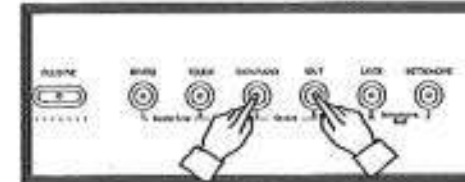


- When the display shows the current value, the value can be changed by the **DATA UP** or **DOWN** button.
- If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default value.(0)
- The range of value is -12 semi-note ~ 0 ~ 12 semi-note (Default 0)
- **Backing Up adjusted value.**  
The last adjusted value of each function is retained in memory until the power is turned off.

### OCTAVE

The **OCTAVE** function makes it's possible to shift the octave of the keyboard, allowing you to match the octave of the keyboard to the range of other instruments.

Press both **TOUCH** and **SPLIT** buttons. (NOT HOLD DOWN)



- When the display shows the current value, the value can be changed by the **DATA UP** or **DOWN** button.
- This function works only on the main voice.
- If the **DATA UP** and **DOWN** buttons are pressed at the same time, it will automatically return to the default value.(0)
- The range of value is -2 ~ 0 ~ +2 octaves.
- **Backing Up adjusted value.**  
The last adjusted value of each function is retained in memory until the power is turned off.

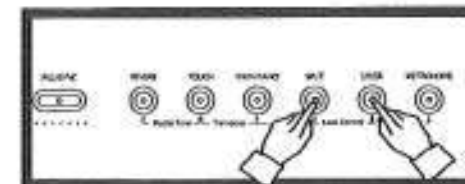
### LOCAL CONTROL

In **Local Control ON**, the piano controls its internal tone generator, having the internal voices played directly from the keyboard.

In **Local Control OFF**, no sound comes from the piano during the performance because the data of the performance is output through MIDI. In this mode, you can play an external MIDI tone generator without any sound on the internal voice.

Press both **SPLIT** and **LAYER** buttons. (NOT HOLD DOWN)

- When the display shows the current local control value for about 5 seconds, the local control can be changed by the **DATA UP** or **DOWN** button.



### SELECTING THE BEAT

Press both **LAYER** and **METRONOME** buttons. (NOT HOLD DOWN)

- When the display shows the current beat for about 5 seconds, the metronome beat can be changed by the **DATA UP** or **DOWN** button.
- There are 11 kinds of preset metronome beats. (1/4, 2/4, 3/4, 4/4(default), 6/4, 3/8, 6/8, 7/8, 9/8, 12/8, 2/2).



# Auto Accompaniment

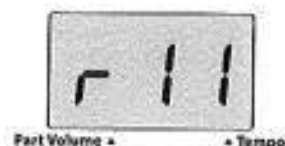
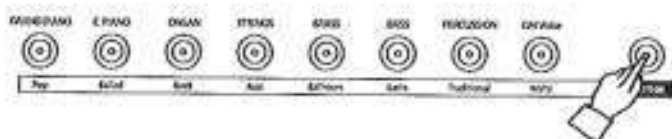
This keyboard automatically plays bass and chord parts in accordance with the chords you finger. The bass and chord parts are played using sounds and voices that are automatically selected to select the rhythm you are using. All of this means that you get full, realistic accompaniments for the melody notes you play with your right hand, creating the mood of a one-person ensemble.

## SELECTING A RHYTHM

This piano provides you with 40 kinds of exciting rhythms that can be selected by the following procedure.

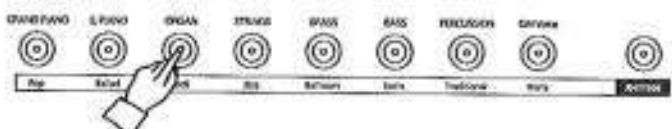
### 1 Call up the RHYTHM SELECTION mode.

Press the RHYTHM button. The button turns on and display shows current rhythm number.



### 2 Select the desired Rhythm.

Press a desired rhythm button.



- Piano has total 8 rhythm groups and each group has 5 rhythms.
- The rhythm groups are printed under each voice button.
- When pressing a button, the lamp turns on and the pop-up display shows the location of the selected rhythm for 5 seconds as follows.  
**Left digit of the pop-up display** lets you know the location of the selected button. 1~8  
**Right digit of the pop-up display** lets you know the location of the rhythm of the selected button. 1~5
- After selecting a rhythm group, you can choose one of 5 rhythms by pressing either the selected button or the DATA UP and DOWN buttons.
- POP-UP Display  
The pop-up display returns to the previous display after 5 seconds.
- Backing Up the Selected Voice.  
The last selected voice in each button is retained in memory until the power is turned off.

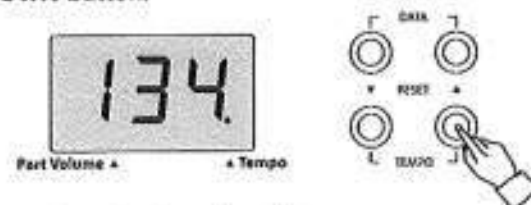
## RHYTHM LIST

Pop	Ballad	Rock	Jazz	Ballroom	Latin	Traditional	Waltz
House Dance 8 Beat Disco 8 Beat NY Disco	16Beat Ballad 16 Beat 1 16 Beat 2 6/8 Modern 6/8 Slow Rock	60's Rock Heavy Rock Rock & Roll Jazz Rock Rock Shuffle	Big Band Mid Modern Jazz Jazz Club Swing Dixieland	Beguine Mambo Cha Cha Cha Jive Habanera/Lango	Salsa Samba Merengue Bossanova Reggae	2/4 March 6/8 March 2/4 Polka 6/8 Polka Viennese Waltz	Waltz French Waltz Swing Waltz Country Pop Bluegrass

## TEMPO CONTROL ADJUSTMENT

When a certain rhythm is selected, the preset tempo is shown on the display after RHYTHM SELECT pops up. Unless you try to change the rhythm during the playback, the same tempo will be maintained.

Press the TEMPO UP or DOWN button.



- Press and hold the button to continuously raise or lower the tempo.
- The range of tempo is 20~280.
- Restoring the Default Tempo  
If the TEMPO UP and DOWN buttons are pressed at the same time, it will automatically return to the default tempo. (Each rhythm has a different default tempo.)

## ACCOMPANIMENT VOLUME ADJUSTMENT

Press and hold the ACCOMP button, and then adjust the volume by the DATA UP or DOWN button.



- If the DATA UP and DOWN buttons are pressed at the same time, it will automatically return to the default volume (70).
- The range of volume is 0~100.
- Press and hold the button to continuously raise or lower the volume.

## PLAYING A RHYTHM

There are several ways to start the accompaniment, as described.



### Straight Start

Press the START/STOP button. The rhythm starts with flashing lamp.



### Synchronized Start

This configures the piano to automatically start the accompaniment when any key in the accompaniment range is pressed.

To use this, press the **FILL/SYNC** button, and then press any key on lower part of the keyboard. The rhythm starts.

To cancel Synchronized Start, press the **FILL/SYNC** button again. The lamp turns off.

### Start with an introduction

This configures the piano to start with an intro pattern.

Press the **INTRO/END** button. The rhythm starts with an intro pattern with flashing the lamp.  
 ↳ Flashing the lamp stops when the pattern goes to Main Loop.

This can be used with the synchronized start.

### Stopping the Accompaniment

To stop the rhythm, press the **START/STOP** button.

To play an ending pattern before stopping, press the **INTRO/END** button during playback of the rhythm. The **INTRO/ENDING** lamp flashes during playback of ending.

If you need to cancel ending playback, press the **FILL/SYNC** button. The ending pattern stops and the main loop starts after playback of the fill pattern.

## USING THE AUTO ACCOMPANIMENT

The following procedure describes how to use the keyboard's Auto Accompaniment feature. Before starting, you should select the rhythm and then set the tempo.

#### 1 Select a Rhythm.

Select the desired rhythm. (See the **SELECTING A RHYTHM** section on page 21.)

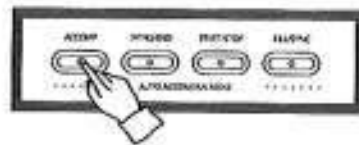
#### 2 Set the Tempo.

Set the desired tempo. (See the **TEMPO CONTROL ADJUSTMENT** section on page 22.)

#### 3 Set the Auto Accompaniment function to ON.

To do this, press the **ACCOMP** button. The lamp lights.

Press the **ACCOMP** button again to turn off the lamp and set Auto Accompaniment to off.



### 4 Start the Auto Accompaniment.

To start Auto Accompaniment, press the **START/STOP** button or the **FILL/SYNC** and then press a chord in the accompaniment range. (See the **PLAYING A RHYTHM** section on page 22~23.)

### ACCOMPANIMENT RANGE

When the accomp function turns on, the keyboard is automatically divided into left and right sections. You must use the left section to play the chords and the right section to play the melody.

The split point can be changed. Press and hold down the **ACCOMP** button and press a desired split point on the keyboard.



### HOW TO PLAY CHORD

The piano allows you to produce accompaniment using either the single finger or fingered method.

#### Single Finger Method

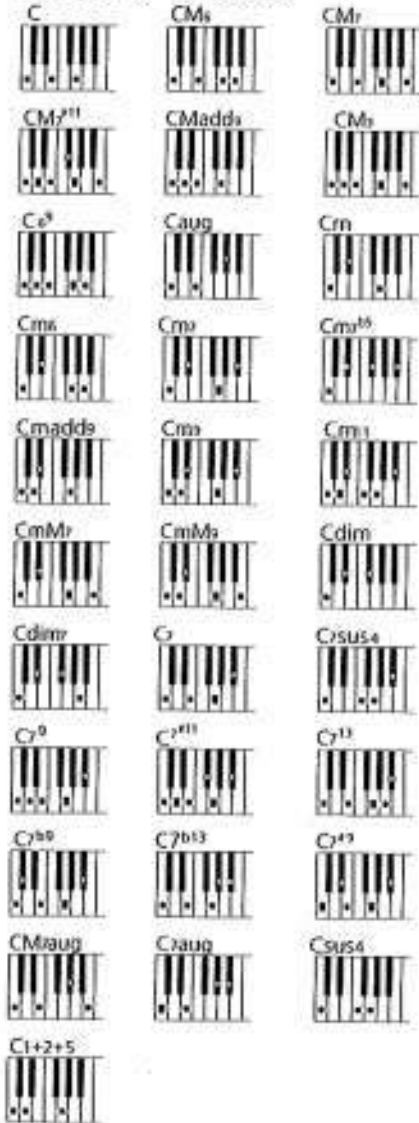
The following four chord types can be played with single finger.

CHORD	EXAMPLE	
<b>MAJOR</b> Press root note of the chord.	Play C Hear a C major chord	
<b>MINOR</b> Simultaneously press root note of the chord and the nearest black key to the left of it.	Play Cm Hear a C minor chord	
<b>SEVENTH</b> Simultaneously press root note of the chord and the nearest white key to the left of it.	Play C7 Hear a C 7th chord	
<b>MINOR SEVENTH</b> Simultaneously press root note of the chord, the nearest white key and black to the left of it. (three keys)	Play Cm7 Hear a C minor 7th chord	

**Fingered Method**

The cord types shown on below chart can be played with fingered method. The chart is showing all examples of C cord.

Example for "c" chords

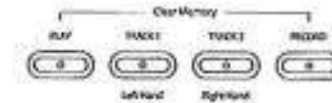


- Major [M]
- Sixth [6]
- Major seventh [M7]
- Major seventh sharp eleventh [M7#11]
- Added ninth [add9]
- Major ninth [M9]
- Six ninth [6 9]
- Augmented [aug]
- Minor [m]
- Minor sixth [m6]
- Minor seventh [m7]
- Minor ninth flatted fifth [m7b5]
- Minor added ninth [m add9]
- Minor ninth [m9]
- Minor eleventh [m11]
- Minor major seventh [mM7]
- Minor major ninth [mM9]
- Diminished [dim]
- Diminished seventh [dim7]
- Seventh [7]
- Seventh suspended fourth [7sus4]
- Seventh ninth [7 9]
- Seventh sharp eleventh [7#11]
- Seventh added thirteenth [7 13]
- Seventh flatted ninth [7b9]
- Seventh flatted thirteenth [7b13]
- Seventh sharp ninth [7#9]
- Augumented major seventh [M7aug]
- Augumented seventh [7aug]
- Suspended fourth [sus4]
- [1+2+5]

The chord fingerings listed are all in root position, but other inversions can be used with the following exceptions. 6, m6, sus4, aug, dim7, 6(9), m7(11), 1+2+5.

# Recording

The piano features comprehensive song recording functions that allow you to record your own performance.



**1 Start recording to the Track1.**

Select the desired voice and press both the **RECORD** and the **TRACK1** buttons. The record button turns on and the track1 button flashes. Auto Accompaniment can be recorded into the track1. You can also use the **LAYER** and the **SPLIT** functions when you record a song. Recording starts by playing the keyboard or pressing the **PLAY** button. Both buttons flash.

**CLEARING RECORD MEMORY**

Press both **RECORD** and **PLAY** buttons to delete the recorded data.

- When a new song is recorded, the recorded data is automatically deleted.
- Note that even if the power is turned off, the recorded data is not deleted.

**2 Stop recording to the Track1.**

Recording stops when pressing the **TRACK1** button or **RECORD** button. The record button turns off and the track 1 button turns on.

**3 Start recording to Track2.**

Press both the **RECORD** and **TRACK2** button. The record button turns on and the track2 button flashes. Recording starts by playing the keyboard or pressing the **PLAY** button. Auto Accompaniment cannot be recorded into the track2.

- If you want to listen to the recorded song in the track1, turn on the track1 by pressing the **TRACK1** button. If not, turn off the track1.
- Each track can be independently played.

**4 Stop recording to the Track2.**

Recording stops when pressing the **TRACK2** button or **RECORD** button. The record button turns off and the track 2 button turns on.

**5 Start playing the song.**

Press the **PLAY** button to start the recorded song.

- If there is a recorded song in the track memory, the track lamp will light.
- If you turn off a track, the piano will not play the track.

**6 Stop playing the song.**

Press the **PLAY** button to stop the recorded song.

## General MIDI Voice & Drum Table

GM #	VOICE	GM #	VOICE
001	Piano1	065	Soprano Saxophone
002	Piano2	066	Alto Saxophone
003	Piano3	067	Tenor Saxophone
004	Honky Tonk	068	Baritone Saxophone
005	Electric Piano 1	069	Oboe
006	Electric Piano 2	070	English Horn
007	Harpichord	071	Bassoon
008	Clavinet	072	Clarinet
009	Celesta	073	Piccolo
010	Glockenspiel	074	Flute
011	Music Box	075	Recorder
012	Vibraphone	076	Pan Flute
013	Marimba	077	Bottle Blow
014	Xylophone	078	Shakuhachi
015	Tubular Bell	079	Whistle
016	Dulcimer	080	Ocarina
017	Electric Organ	081	Square
018	Jazz Organ	082	Sawtooth
019	Rock Organ	083	Calliope
020	Pipe Organ	084	Chiffer
021	Reed Organ	085	Charang
022	Accordion	086	Solo Vox
023	Harmonica	087	Fifths
024	Bandonion	088	Bass Lead
025	Nylon Guitar	089	Fantasia
026	Steel Guitar	090	Warm Pad
027	Jazz Guitar	091	Poly Synth
028	Clean Guitar	092	Space Vox
029	Muted Guitar	093	Bow Glass
030	Drive Guitar	094	Metal Pad
031	Lead Guitar	095	Halo Pad
032	Harmonic Guitar	096	Sweep Pad
033	Acoustic Bass	097	Ice Rain
034	Finger Bass	098	Sound Track
035	Pick Bass	099	Crystal
036	Fretless Bass	100	Atmosphere
037	Slap Bass1	101	Brightness
038	Slap Bass2	102	Goblin
039	Synth Bass1	103	Echo Drop
040	Synth Bass2	104	Star Theme
041	Violin	105	Sitar
042	Viola	106	Banjo
043	Cello	107	Shamisen
044	Contra Bass	108	Koto
045	Tremolo Strings	109	Kalimba
046	Pizzicato Strings	110	Bagpipe
047	Harp	111	Fiddle
048	Timpani	112	Shanai
049	Strings	113	Tinkle Bell
050	Slow Strings	114	Agogo
051	Synth Strings1	115	Steel Drum
052	Synth Strings2	116	Wood Block
053	Choir Aahs	117	Taiko
054	Voice Oohs	118	Melody Tom
055	Synth Voice	119	Synth Drum
056	Orchestra Hit	120	Reversed Cymbal
057	Trumpet	121	Guitar Noise
058	Trombone	122	Breath Noise
059	Tuba	123	Sea Shore
060	Muted Trumpet	144	Birds
061	French Horn	125	Telephone
062	Brass Section	126	Helicopter
063	Synth Brass1	127	Applause
064	Synth Brass2	128	Gunshot

PC#	Prog 1	Prog 9	Prog 17	Prog 25	Prog 26
Display	Standard Drum (7-1)	Room Drum	Power Drum	Elec. Drum (7-2)	808 (7-3)
15-C2	Seq Click H				
16-C#2	Brush Tap				
17-D2	Brush Swrl				
18-D#2	Brush Slap				
19-E2	Brush Tap Swrl				
20-F2	Snare Roll				
21-F#2	Castanet				
22-G2	Snare Soft				
23-G#2	Sticks				
24-A2	Kick Soft				
25-AA2	Open Rim Shot				
26-B2	Kick drum2	Jazz BD2			
27-C3	Kick drum1	Jazz BD1	Power Kick	Elec BD	808 Bass Drum
28-C#3	Side Stick				808 Rm shot
29-D3	Snare Drum1		Gated Snare	Elec SD	808 Snare Drum
30-D#3	Hand Clap				
31-E3	Snare Drum 2				
32-F3	Low floor Tom	Room Low Tom2	Room Low Tom2	Elec Low Tom2	808 Low Tom2
33-F#3	Closed HHat (EXC1)				808 CHH (EXC1)
34-G3	High floor Tom	Room Low Tom1	Room Low Tom1	Elec Low Tom1	808 Low Tom1
35-G#3	Open HHat (EXC2)				808 CHH (EXC2)
36-A3	Low Tom	Room Mid Tom2	Room Mid Tom2	Elec Mid Tom2	808 Mid Tom2
37-AA3	Open HHat (EXC1)				808 CHH (EXC1)
38-B3	Low Mid Tom	Room Mid Tom1	Room Mid Tom1	Elec Mid Tom1	808 Mid Tom1
39-C4	Hi Mid Tom	Room Hi Tom2	Room Hi Tom2	Elec Hi Tom2	808 Hi Tom2
40-C#4	Crash Cymbal 1				808 Cymbal
41-D4	High Tom	Room Hi Tom1	Room Hi Tom1	Elec Hi Tom1	808 Hi Tom1
42-D#4	Ride Cymbal 1				
43-E4	Chinese Cymbal			Reverse Cymbal	
44-F4	Ride Bell				
45-F#4	Tambourine				
46-G4	Splash Cymbal				
47-G#4	Cowbell				808 Cowbell
48-A4	Crash Cymbal2				
49-AA4	Vibraslap				
50-B4	Ride Cymbal2				
51-C5	Hi Bongo				
52-C#5	Low Bongo				
53-D5	Mute Hi Conga				808 High Conga
54-D#5	Open Hi Conga				808 Mid Conga
55-E5	Low Conga				808 Low Conga
56-F5	High Timbale				
57-F#5	Low Timbale				
58-G5	High Timbale				
59-G#5	Low Agogo				
60-A5	Cabasa				
61-AA5	Maracas				
62-B5	Short Whistle (EXC2)				808 Maracas
63-C6	Long Whistle (EXC2)				
64-C#6	Short Guiro (EXC1)				
65-D6	Long Guiro (EXC1)				
66-D#6	Claves				808 Claves
67-E6	Hi Wood Block				
68-F6	Low Wood Block				
69-F#6	Mute Coica (EXC4)				
70-G6	Open Coica (EXC4)				
71-G#6	Mute Triangle (EXC5)				
72-A6	Open Triangle (EXC5)				
73-AA6	Shaker				
74-B6	Jingle Bell				
75-C7	Belltree				
76-C#7					

General MIDI Voice & Drum Table

PC# (Display)	Prog 33 Jazz Drums	Prog 41 Brush Drum	Prog 49 Orchestra (7-4)	Prog 57 SFX (7-5)	REMARKS
15-C2					
16-C#2					
17-D2					
18-D#2					
19-E2					
20-F2					
21-F#2					
22-G2					
23-G#2					
24-A2					
25-A#2					
26-B2	Jazz BD2	Jazz BD2	Concert BD 2		
27-C3	Jazz BD1	Jazz BD1	Concert BD1		
28-C#3					
29-D3		Brush Tap	Concert SD		
30-D#3		Brush Slap	Cymbals	High Q	
31-E3		Brush Swirl	Concert SD	Slap	
32-F3			Timpani F	Scratch Push	
33-F#3				Scratch Pull	
34-G3			Timpani G	Sticks	
35-G#3				Square Click	
36-A3			Timpani A	Metronome Click	
37-A#3				Metronome Bell	
38-B3			Timpani B	Guitar Slide	
39-C4			Timpani C	Gr Cut Noise (dr)	
40-C#4				Gr Cut Noise (ap)	
41-D4			Timpani D	Double Bass Slap	
42-D#4				Key Click	
43-E4				Laughing	
44-F4				Screaming	
45-F#4				Punch	
46-G4				Heart Beat	
47-G#4				Footsteps 1	
48-A4			Concert Cymbal 2	Footsteps 2	
49-A#4				Applause	
50-B4			Concert Cymbal 1	Door Creaking	
51-C5				Door Closing	
52-C#5				Scratch	
53-D5				Wind Chime	
54-D#5				Car Engine Start	
55-E5				Car Breaking	
56-F5				Car Pass	
57-F#5				Car Crash	
58-G5				Police Siren	
59-G#5				Train	
60-A5				Air Take-off	
61-A#5				Helicopter	
62-B5				Starship	
63-C6				Gun Shot	
64-C#6				Machine gun	
65-D6				Laser gun	
66-D#6				Explosion	
67-E6				Dog	
68-F6				Horse Gallop	
69-F#6				Rick	
70-G6				Rain	
71-G#6				Thunder	
72-A6				Wind	
73-A#6				Sea Shore	
74-B6				Steam	
75-C7				Bubble	
76-C#7					



## Demo Tune List

Display	Title	Composer
d01	Etude op.10 no.1	Chopin, Fryderyk Franciszek
d02	Etude op.10 no.4	
d03	Etude op.10 no.5	
d04	Etude op.25 no.9	
d05	Nocturne op.9 no.1	
d06	Nocturne op.9 no.2	
d07	Nocturne op.27 no.2	
d08	Nocturne op.32 no.1	
d09	Nocturne op.72 no.1	
d10	Sonata op.3 no.4	
d11	Mazurka op.7 no.1	
d12	Mazurka op.30 no.2	
d13	Mazurka op.67 no.3	
d14	Polonaise op.40 no.1	
d15	Waltz op.34 no.1	
d16	Waltz op.64 no.1	
d17	Waltz op.64 no.2	
d18	Waltz op.69 no.2	
d19	Impromptu No. 4 c sharp minor (Fantasie-Impromptu) Op.66	
d20	Ballade op.23 no.1 in g minor	
d21	Ballade op.47 no.3 in A flat Major	
d22	Prelude op.28 no.1 in C Major- Agitato	
d23	Prelude op.28 no.16 in b-flat minor- Presto con fuoco	
d24	Piano Sonata no.10 in C major, KV330 I. Allegro moderato	Mozart, Wolfgang Amadeus
d25	Piano Sonata no.11 in A major, KV331 I. Alla turca : Allegretto	
d26	Piano Sonata no.14 in c minor, KV457 II. Adagio	
d27	Piano Sonata no.14 in c minor, KV457 III. Assai allegro	
d28	Variations "Ah! Vous dirai-je, Maman"	
d29	Rondo in D major, KV485	
d30	Sonate no.8 in c minor, op.13 'Pathetique' Grave - Allegro molto e con brio	Beethoven, Ludwig van
d31	Sonate no.8 in c minor, op.13 'Pathetique' II. Adagio cantabile	
d32	Sonate no.8 in c minor, op.13 'Pathetique' III. Allegro	
d33	Arabesque No.1 in E major	Debussy, Claude Achille
d34	Suite bergamesque 1. Prelude	
d35	Suite bergamesque 3. Clair de lune	
d36	Petite Suite, for piano 4-hands 2. Cortege	
d37	Scenes from Childhood op.15 From foreign lands and peoples in G major	Schumann, Robert Alexander
d38	"12 Etudes d'execution transcendante (Transcendental Etudes), S 139 Etude Transcendante in d minor, Mazepa	Liszt, Franz
d39	The flight of the bumble bee (by S. Rachmaninov)	Rimsky, Korsakov
d40	Trois Gymnopedies 1. Lent et douloureux	Satie, Erik
d41	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 1. Fantasia	Telemann, Georg Philipp
d42	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 3. Fantasia	
d43	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 5. Fantasia	
d44	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 6. Fantasia	
d45	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 12. Fantasia	
d46	Children's Album, Op.39 No.4 Mama	Tchaikovsky, Pyotr Ilyich
d47	Prelude in C major, BWV933	Bach, Johann Sebastian
d48	Praludium und Fuge in B BWV560 Pipe Organ music -	
d49	Wohltemperiertes Klavier-Pledudio 1	
d50	Wohltemperiertes Klavier-Fuga 1	

## MIDI Implementation Chart

Function	Default	Recognized	Transmitted	Remark
Basic Channel	Default	ALL	1-3, 10	
Mode	Default	OMNI OFF, POLY	OMNI OFF, POLY	
Note ON/OFF	9nH kk vv	O	O	#kknote ON (0-127) #vv:velocity (1-127)
Pitch Bender	EnH bi bh	O	X	Maximum swing +/- 1 tone
Control Change	00 BnH 00H cc	O	X	Bank Select
	01 BnH 01H cc	O	X	Modulation Wheel
	05 BnH 05H cc	O	X	Portamento Time
	06 BnH 06H cc	O	X	Data Entry
	07 BnH 07H cc	O	X	Volume
	10 BnH 0AH cc	O	X	Pan Out
	11 BnH 0BH cc	O	X	Expression
	64 BnH 40H cc	O	O	Sustain (Damper) Pedal
	65 BnH 41H cc	O	X	Portamento ON/OFF
	66 BnH 42H cc	O	O	Sostenuto Pedal
	67 BnH 43H cc	O	O	Soft Pedal
	80 BnH 80H w	O	X	Prog.(w=00H-70H)
	81 BnH 51H w	O	X	Chorus Prog.
	91 BnH 5BH w	O	X	Reverb Send Level
93 BnH 5DH w	O	X	Chorus Send Level	
120 BnH 78H 00H	O	X	All Sound Off	
121 BnH 79H 00H	O	X	Reset All Controller	
123 BnH 7BH 00H	O	X	All Notes Off	
126 BnH 7EH 00H	O	X	Mono On	
127 BnH 7FH 00H	O	X	Poly On	
Program Change	CnH PP	O	O	Sounds/Drum Set List
System Exclusive	General MIDI Reset	O	X	

O: Yes, X: No

## Troubleshooting

※ Be sure to check to following table whenever you encounter problems with the DIGITAL PIANO operation.

PROBLEM	CAUSE	SOLUTION
<b>No sound</b>	1. Power supply problem.  2. Volume setting is too low. 3. Headphone is plugged in.	1. Check the power cord whether it's properly in AC outlet.  2. Adjust the volume. 3. Unplug the headphone.
<b>Occasional interference</b>	1. Refrigerators, washing machines and similar electric appliances are interfering.	1. Use outlet as far away as possible from appliance thought to be the cause.
<b>No sound when connected to external amplifier.</b>	1. Volume setting is too low. 2. Defective connection cord.	1. Adjust the volume. 2. Replace connection cord.

## Specifications

Section	Contents
<b>PRODUCT</b>	HIGH PERFORMANCE DIGITAL PIANO
<b>KEYBOARD</b>	88 KEYS (STANDARD) - 7 1/4 OCTAVES
<b>TOUCH RESPONSE</b>	OFF, HARD, SOFT, NORMAL
<b>MAX. POLYPHONY</b>	64NOTES
<b>SOUND</b>	GENERAL MIDI 128 VOICES 4 DRUM KIT, 1 SOUND EFFECT SET
<b>ACCOMPANIMENT</b>	40 RHYTHM
<b>ACCOMPANIMENT MODE</b>	MULTI FINGERED
<b>ACCOMPANIMENT CONTROLS</b>	START/STOP, INTRO/ENDING, FILL/SYCN
<b>FUNCTIONS</b>	LAYER, SPLIT, TWIN PIANO, TUNE, TRANSPOSE, OCTAVE
<b>DIGITAL SIGNAL PROCESSING</b>	REVERB(8)
<b>METRONOME</b>	YES
<b>DISPLAY</b>	LED MULTI FUNCTION DISPLAY
<b>DEMO</b>	50 TUNES
<b>EDU MUSIC</b>	BUYER 106, BURGMÜLLER 25, CZERNY 100, CZERNY 30, CZERNY 40, SONATINE 17
<b>RECORD</b>	REAL-TIME-RECORDING 2 TRACKS MAX. 7,000 NOTES/TR
<b>VOLUME CONTROLS</b>	MAIN, ACCOMPANIMENT, LAYER, SPLIT, DEMO, METRONOME
<b>I/O TERMINALS</b>	USB TO HOST (USB MIDI/USB AUDIO) STEREO LINE IN, STEREO LINE OUT, PEDAL IN 2 HEADPHONE JACKS
<b>SPEAKER</b>	2 INCHES x 2, 6 INCH x 2 (STEREO 15W + 15W)
<b>POWER</b>	DC IN
<b>POWER CONSUMPTION</b>	60W
<b>DIMENSIONS (W x D x H)</b>	1410mm x 510mm x 880mm
<b>WEIGHT</b>	59 Kgs
<b>ACCESSORY</b>	OWNER'S MANUAL