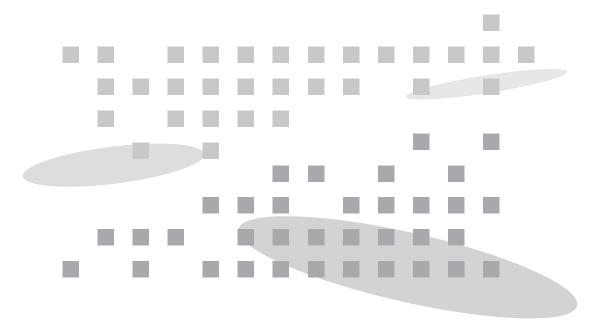
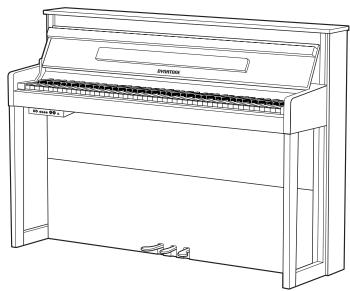


OWNER'S MANUAL

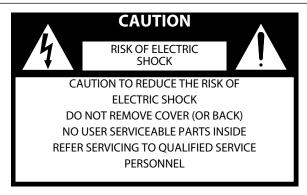




High Performance Digital Piano SDP-500 New feel, new look and new sound

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 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 instrument 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 disfiguration 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.

- · 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. Then have the instrument inspected by qualified service personnel.
- 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 heating 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.

Welcome

Thank you and congratulations on your purchase of the HIGH POLISHED DIGITAL PIANO.

Your new HIGH POLISHED DIGITAL PIANO is a state-of-the-art musical instrument which incorporates the latest electronics technology to make its operation as easy as possible.

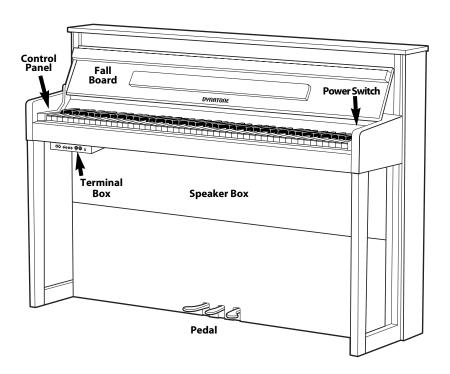
Your versatile DIGITAL PIANO is ideal for beginners or experienced musicians.

In order to enjoy the features and functions of this unit to their fullest, be sure to carefully read this manual and follow the instructions contained herein.

Contents

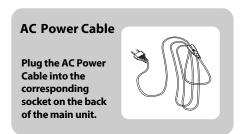
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External Appearance

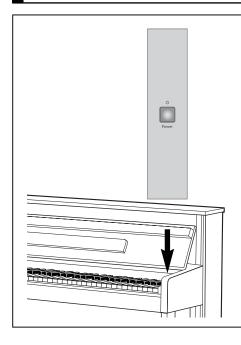


Accessory





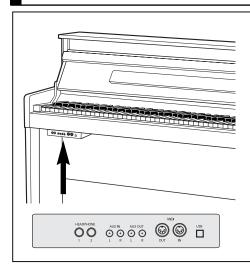
Turning on the Power



- ① Connect the **AC POWER CABLE.** Insert AC plug at the end of AC cord into the piano and AC plug at the other end of AC cord into a standard AC outlet.
- ② Press **POWER** switch. The power is turned on. The voice of Grand Piano is selected automatically as the default value.
- Adjust the volume by using MASTER VOLUME.

To turn off the power, press **POWER** switch again All lamps will be turned off.

Using the Headphone



Connect a set of stereo headphones(optional) to **HEADPHONE** jack.

Insert plug of the headphone into the **HEADPHONE** jack on the bottom panel of the piano.

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

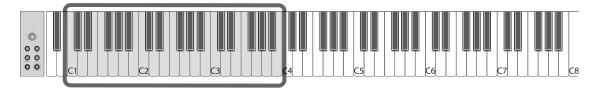
Since the piano has two **HEADPHONE** jacks, two sets of headphones can be used simultaneously, allowing two people to enjoy listening to the performance.

Controls



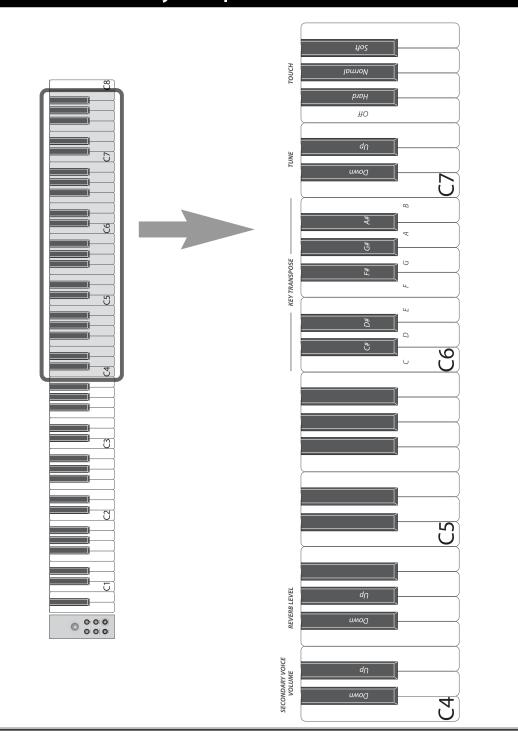
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(b) LAYER button	Page 14
© SPLIT button	Page 15
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Voice Key Map

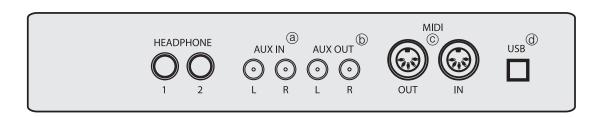


10 Main Voices SPLIT VOICE LAYER VOICE Sawtooth Wave Grand Piano3 Honky Tonk Piano Harpsichord Elec Organ 3 Synth Piano Vibraphone Synth Brass Saxophone Accordion Drum Set C1 **C**3 C2 14 Extra Voices

Function Key Map



Terminals



CONNECTING AUDIO DEVICES

(a) AUX in jacks (RCA jacks of L and R)

The stereo outputs from another instrument can be connected to these jacks, allowing the sound of an external instrument to be reproduced via the instrument's speakers.

Connect the output jacks (LINE OUT etc.) of an external synthesizer or the tone generator module and the instrument's **AUX In 'L'** and **'R'** jacks using appropriate audio cables.

☞ CAUTION

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

(B) AUX out jacks (RCA jacks of **L** and **R)**

When these are connected, you can use the instrument's **MASTER VOLUME** control to adjust the volume of the sound output to the external device.

Connect the instrument's **AUX Out 'L'** and **'R'** jacks and the input jacks of a pair of powered speakers using appropriate audio cables.

CONNECTING OTHER DEVICES

© Connecting the external MIDI devices (MIDI Terminals)

Use the built-in MIDI terminals and standard MIDI cables to connect external MIDI devices.

MIDI IN Receives MIDI messages from an external MIDI device.

MIDI OUT Transmits MIDI messages generated by the instrument.

■ What's MIDI?

MIDI(Musical Instrument Digital Interface) is the international standard for digital communication of electronic musical instrument data.

This means that any equipment that has a MIDI terminal (such as electronic musical instruments or personal computers) can easily exchange digital data with other MIDI equipment without complicated conversions or connections.

d Connecting a computer (USB Terminal)

By connecting a computer to the USB, you can transfer data between the instrument and the computer via MIDI, and take advantage of sophisticated computer music programs. Keep in mind that you also need to install an appropriate USB MIDI driver.

The instructions below explain how to connect and use the terminals.

☞ CAUTION - Precautions when using the USB terminal.

When connecting the computer to the USB terminal, make sure to observe the following points. Failing to do so risks freezing the computer and corrupting or losing data. If the computer or the instrument freezes, turn the power to the instrument off and restart the computer.

Before connecting the computer to the USB terminal, exit from any power-saving mode of the computer (such as suspended, sleep, standby), quit any open application software, and turns off the power to the instrument.

Execute the following before turning the power to the instrument off or unplugging the USB cable to/from the instrument/computer.

- Quit any open application software on the computer.
- Make sure that data is not being transmitted from the instrument. (Data is transmitted only by playing notes on the keyboard or playing back a song.)
- While a USB device is connected to the instrument, you should wait for six seconds or more between these operations: When turning the power of the instrument off then on again, or when alternately connecting/disconnecting the USB cable.

THE LOCAL CONTROL ON/OFF

Local control refers to the fact that, normally, the piano keyboard controls its internal tone generator, allowing the internal voices to be played directly from the keyboard.

This situation is called **Local Control ON**. When the local control is set to off, the keyboard and sound source are separated and no sound is heard through the piano when playing the keyboard.

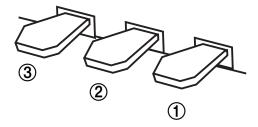
However, the data of the keyboard performance is output through MIDI. By setting local control to off, you can play an external MIDI tone generator from the keyboard of the piano without sounding the internal voices.

To enter the MIDI local control off mode, hold down the **SETUP** button and press **C8 right end key** of the keyboard.

To release it, press again **C8 key** with the **SETUP** button.

Using the Pedals

The piano has three pedals.



① Damper Pedal (Right)

The damper pedal performs the same function as the damper pedal on an actual acoustic piano, letting you sustain the sound of the voices even after releasing your fingers from the keys.

- recertain voices in the PERCUSSION sounds may not be affected by use of the damper pedal.
- Some voices may sound continuously or have a long decay after the notes have been released while the damper pedal is held.

② Sostenuto Pedal (Center)

If you play a note or chord on the keyboard and press the sostenuto pedal while the note(s) are held, those notes will be sustained as long as the pedal is held, but all subsequently played notes will not be sustained. This makes it possible to sustain a chord, for example, while other notes are played staccato.

- Certain voices in the PERCUSSION group may not be affected by use of the sostenuto pedal.
- recrease Certain voices such as STRINGS or BRASS sustain continuously when the sostenuto pedal is pressed.

3 Soft Pedal (Left)

Pressing this pedal reduces the volume and slightly changes the timbre of the notes you play.

Adjusting the Volume

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

MASTER VOLUME

This determines the entire volume of the piano.

This also determines the output level of the signal at the **HEADPHONES**.

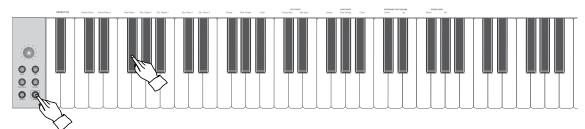


Selecting Voice

The piano features a wealth of rich, authentic voices, including piano, strings and brass instruments. It also features a keyboard percussion function that lets you play the realistic drum and percussion sounds directly from keyboard.

There are 10 main voices, 2 split voices, 3 layered voices and 14 extra voices in this piano.

- ☞ Main Voice
- Grand Piano 1, 2, Pipe Organ, Elec. Organ 1, 2, Elec. Piano 1, 2, Strings, Slow Strings, Choir
- **☞ Split Voice**
- Acoustic Bass, Elec. Bass
- **☞ Layered Voice**
 - Acoustic Bass, Fingered Bass, Elec. Bass
- ☞ Extra Voice
- Grand Piano 3, Detuned Piano, Harpsichord, Vibraphone, Accordion, Elec. Organ 3, Square Wave, Sawtooth Wave, Synth Piano, Flute, Saxophone, Guitar, Synth brass, Drum set
- **☞ 128 General MIDI Voice**
- When connecting with PC, it's available to use 128 GM voices. (See the **GM VOICE CHART/DRUM TABLE** section on page 23~25.)
- 1) Press and hold the SETUP button.
 - The lamp is on.
- ② Select a desired voice.
 - Both the **SETUP** button and a **voice key** should be pressed.



- $\ensuremath{\,=\!\!\!=}$ Default voice is Grand piano 1.
- FRefer to the **VOICE key map** on page 8.

Layer

The layer mode of the piano allows you to select and play two different voices simultaneously in a layer. This makes it easy to create exceptionally rich and thick tonal textures. The volume balance can be set for the two voices.

PLAYING WITH THE LAYER VOICE

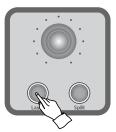
1) Select a main voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 13.)

2 Call up the layer mode.

To call up the layer mode, press the **LAYER** button. Lamp lights and the layer is set on.

If you select a layer voice, layer function automatically can be on without pressing the LAYER button.



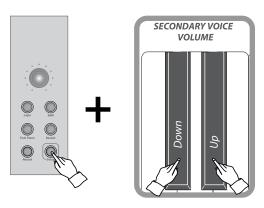
③ Select the layered voice.

Select a voice in the normal way. (See the **SELECTING VOICES** section on page 13.)

ADJUSTING THE LAYER VOLUME

This determines the volume of the layered voice.

- 1) Press and hold the SETUP button.
 - ☞ The lamp is on.
- ② Adjust the layer volume by pressing secondary voice volume up(D#4) and down(C#4) keys.



- ☞ Refer to the **FUNCTION KEY MAP** on page 9.
- If you press both UP and DOWN keys at the same time, it automatically returns to the default secondary voice volume (11). The range of volume is 0 ∼ 16.
- ☞ Hold the key for continuous decrementing or incrementing.
- Both split and layer volumes can be adjusted by using secondary volume keys.

Split

The split mode of the piano 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.

PLAYING WITH THE SPLIT VOICE

1 Select a main voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 13.)

2 Call up the split mode.

To call up the split mode, press the **SPLIT** button. Lamp lights and the split is set on.

If you select a split voice, layer function automatically can be on without pressing the SPLIT button.



3 Select the split voice.

Select a voice in the normal way. (See the **SELECTING VOICE** section on page 13.)

ADJUSTING THE SPLIT VOLUME

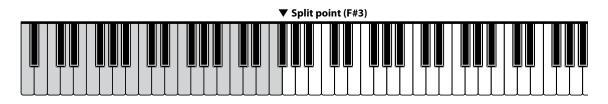
This determines the volume of the split voice.

- 1) Press and hold the SETUP button.
 - The lamp is on.
- 2 Adjust the split volume by pressing secondary volume up(D#4) and down(C#4) keys.
 - ☞ Refer to the **FUNCTION KEY MAP** on page 9.
 - If you press both **UP** and **DOWN** keys at the same time, it automatically returns to the default secondary voice Volume (11). The range of volume is 0 ~ 16.
 - → Hold the key for continuous decrementing or incrementing.
 - Both split and layer volumes can be adjusted by using secondary volume keys.

CHANGING THE SPLIT POINT

You can set the point dividing the split voice and main voice ranges at any desired key position.

- 1) Press and hold the SPLIT button.
- ② Press a desired key. The pressed key is assigned to new split point.
 - ☐ Default value is F#3.



Twin Piano

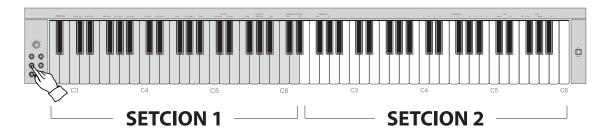
Splitting the piano Keyboard into two sections for twin piano performance.

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

PLAYING WITH THE TWIN PIANO

1) Press the TWIN PIANO button.

The keyboard splits two sections, which have same octave.



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

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

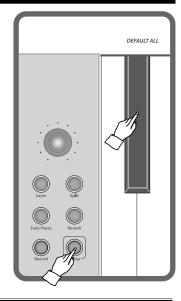
This function can not be used with the layer and split functions.

Default All

Press ad hold the SETUP button and press left-end key (A#0).

Following settings go to default values.

- 1) Secondary Voice volume (Default, 11 Range 0 ~ 16)
- 2) Reverb level (Default 11, Range 0 ~ 16)
- 3) Transpose (Default C, Range G~C~F#)
- 4) Tune (Default A3 440Hz, Range -50 ~ 0 ~ 50 cents)
- 5) Touch (Default Normal, Range Off, Hard, Normal, Soft)



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.

1) Press the REVERB button.

- The reverb turns on and lamp lights.
- The reverb is engaged automatically when the power is turned on with the lamp lighting.

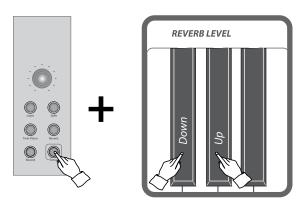


The reverb turns off and the lamp goes out.



ADJUSTING THE REVERB LEVEL

- 1) Press and hold the SETUP button.
 - The lamp is on.
- ② Adjust the reverb level by pressing reverb level up(G#4) and down(F#4) keys.

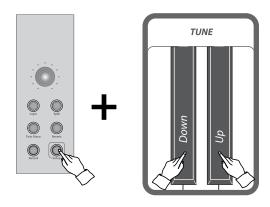


- Refer to the **FUNCTION KEY MAP** on page 9.
- The reverb level can be adjusted, when reverb is on.
- ☞ If you press both UP and DOWN keys at the same time, it automatically returns to the default reverb level (11).
- The range is $0 \sim 16$.
- Hold the key for continuous decrementing or incrementing.

Tune

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

- ① Press and hold the SETUP button.
 - The lamp is on.
- ② Adjust the pitch by pressing tune up(D#7) and down(C#7) keys.



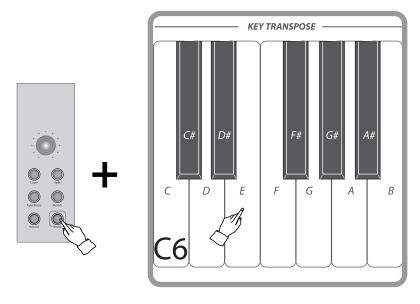
- ☞ Refer to the **FUNCTION KEY MAP** on page 9.
- The when pressing up or down key, piano makes 'C' sound and you can hear the adjusted pitch.
- If you press both **UP** and **DOWN** keys at the same time, it automatically returns to the default value.
- Range A3 440Hz ± 50cents (1 step is 1 cent.)
- 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.
- ☞ The Cent is unit of pitch, equal to 1/100 of a semitone.
- Hold the key for continuous decrementing or incrementing.

Transpose

The Transpose function makes it possible to shift the pitch of the keyboard in semitone 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 **Transpose** is set F, 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.

- 1) Press and hold the SETUP button.
 - The lamp is on.
- 2 Set new key of transpose section.

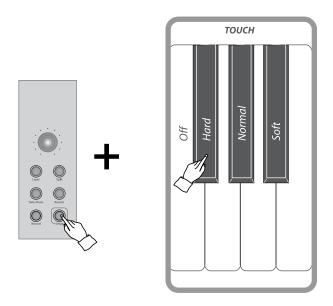


- Refer to the **FUNCTION KEY MAP** on page 9.
- **☞ Default value:** C key
- $rac{1}{2}$ Range: 12 semitones (G ~ C ~ F#)

Touch

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

- 1) Press and hold the SETUP button.
 - The lamp is on.
- 2 Set a desired touch by pressing one of touch keys.



- Refer to the **FUNCTION KEY MAP** on page 9.
- Default touch is Normal.
- There are 4 touch types in this piano Off, Hard, Normal, Soft

Off (F7)

This setting produces the same degree of loudness, no matter how strongly or softly you play the keys.

Hard (F#7)

This setting requires you to play the keys quit strongly to produce maximum loudness.

Normal (G#7)

This setting is standard keyboard response. - Default setting

Soft (A#7

This setting lets you produce a relatively loud sound even when playing the key softly.

Recording

This piano is equipped with a real time recorder, able to store a song or performance. It will record all notes as they are played.

1) Select Record mode.

Press the **RECORD** button. The button lights.

② Start recording

Start playing the keyboard or press the **SETUP** button. The record button flashes and the setup button lights.

③ Stop recording

Stop playing the keyboard and press the **SETUP** button. Both record and setup buttons light.

4 Playback the recorded song

Press the **SETUP** button again in the record mode. The recorded song is played. The setup button flashes and the record button lights.

- To delete the recorded song, press and hold the **RECORD** button for 2~3 seconds.
- If there is no recorded song in the memory, the record button lights and the setup button is off.
- If there is a recorded song in the memory, both the record and the setup buttons light.
- When the power is turned off, the recorded song memory will be reserved.

⑤ Return to the normal mode

Press the **RECORD** button. The record button light is turned off.



MIDI Implementation Chart

Function F	Recognized	Transmitted	Remark	
Basic Channel Default		ALL	1-3	
Mode	Default	OMNI OFF, POLY	OMNI OFF, POLY	
Note ON/OFF	9nH kk vv	0	0	#kk:note ON (0-127)
				#vv:velocity (1-127)
Pitch Bender	EnH bi bh	0	Х	Maximum swing +/- 1 tone
00	BnH 00H cc	0	Х	Bank Select
01	BnH 01H cc	0	Х	Modulation Wheel
05	BnH 05H cc	0	Х	Portamento Time
06	BnH 06H cc	Ο	Х	Data Entry
07	BnH 07H cc	0	Х	Volume
10	BnH 0AH cc	0	Х	Pan Out
11	BnH 0BH cc	Ο	Х	Expression
64	BnH 40H cc	0	0	Sustain (Damper) Pedal
65	BnH41Hcc	0	Х	Portamento ON/OFF
66	BnH 42H cc	0	0	Sostenuto Pedal
Control 67	BnH 43H cc	Ο	0	Soft Pedal
Change 80	BnH 80H vv	0	Х	Reverb Prog.(vv=00H-70H)
81	BnH 51H vv	0	Х	Chorus Prog.
91	BnH 5BH vv	0	Х	Reverb Send Level
93	BnH 5DH vv	0	Х	Chorus Send Level
120	BnH 78H 00H	0	Х	All Sound Off
121	BnH 79H 00H	0	х	Reset All Controller
123	BnH 7BH 00H	0	x	All Notes Off
126	BnH 7EH 00H	0	х	Mono On
127	BnH 7FH 00H	0	x	Poly On
Program Change CnH PP		0	0	Sounds/Drum Set List
System Exclusive General MIDI		0	Х	
	Reset			

O:Yes, X:No

GM Voice & Drum Table

GM#	Voice	GM#	Voice
001 002 003 004 005 006 007	Piano1 Piano2 Piano3 Honky Tonk Electric Piano 1 Electric Piano 2 Harpsichord Clavinet	065 066 067 068 069 070 071	Soprano Saxophone Alto Saxophone Tenor Saxophone Baritone Saxophone Oboe English Horn Basson Clarinet
009 010 011 012 013 014 015 016	Celesta Glockenspiel Music Box Vibraphone Marimba Xylophone Tubular Bell Dulcimer	0 7 3 0 7 4 0 7 5 0 7 6 0 7 7 0 7 8 0 7 9 0 8 0	Piccolo Flute Recorder Pan Flute Bottle Blow Shakuhachi Whistle Ocarina
017 018 019 020 021 022 023 024	Electric Organ Jazz Organ Rock Organ Pipe Organ Reed Organ Accordion Harmonica Bandonion	0 8 1 0 8 2 0 8 3 0 8 4 0 8 5 0 8 6 0 8 7 0 8 8	Square Sawtooth Calliope Chiffer Charang Solo Vox Fifths Bass Lead
025 027 028 029 031 032	Nylon Guitar Steel Guitar Jazz Guitar Clean Guitar Muted Guitar Drive Guitar Lead Guitar Harmonic Guitar	089 0890 091 0992 0994 0995	Fantasia Warm Pad Poly Synth Space Vox Bow Glass Metal Pad Halo Pad Sweep Pad
0 3 3 0 3 4 0 3 5 0 3 7 0 3 8 0 3 9 0 4 0	Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass1 Slap Bass2 Synth Bass1 Synth Bass2	0 9 7 0 9 8 0 9 9 1 0 0 1 0 1 1 0 2 1 0 3 1 0 4	Ice Rain Sound Track Crystal Atmosphere Brightness Goblin Echo Drop Star Theme
0 4 1 0 4 2 0 4 3 0 4 4 0 4 5 0 4 6 0 4 7 0 4 8	Violin Viola Cello Contra Bass Tremolo Strings Pizzicato Strings Harp Timpani	1 0 5 1 0 6 1 0 7 1 0 8 1 0 9 1 1 0 1 1 1 1 1 2	Sitar Banjo Shamishen Koto Kalimba Bagpipe Fiddle Shanai
049 0450 0551 0552 0554 0556	Strings Slow Strings Synth Strings1 Synth Strings 2 Choir Aahs Voice Oohs Synth Voice Orchestra Hit	113 114 115 116 117 118 119 120	Tinkle Bell Agogo Steel Drum Wood Block Taiko Melody Tom Synth Drum Reversed Cymbal
057 058 059 0661 0662 0663	Trumpet Trombone Tuba Muted Trumpet French Horn Brass Section Synth Brass 1 Synth Brass 2	121 122 123 124 125 126 127	Guitar Noise Breath Noise Sea Shore Birds Telephone Helicopter Applause Gunshot

When connecting with PC or other MIDI device via MIDI or USB port, 128 GM voices and all drum sets on the table can be used.

GM Voice & Drum Table

	Prog 1	Prog 9	Prog 17	Prog 25	Prog 26
	Standard Drum	Room Drum	Rock Drum	Elec. Drum	Analog Drum
27 - D#1	High Q		11000101111		
28-E1	Slap				
29-F1	Scratch Push				
30-F#1	Scratch Pull				
31-G1	Sticks				
32-G#1	Square Click				
				+	
33-A1	Metronome Click				
34 - A#1	Metronome Bell				
35 - B1	Kick drum2/Jazz BD2				
36-C2	Kick drum1/Jazz BD1		Power Kick	Elec BD	808 Bass Drum
37 - C#2	Side Stick				808 Rim shot
38-D2	Snare Drum1		Gated Snare	Elec SD	808 Snare Drum
39 - D#2	Hand Clap				
40 - E2	Snare Drum 2				
41 - F2	Low Floor Tom	Room Low Tom2	Room Low Tom2	Elec Low Tom2	808 Low Tom2
42 - F#2	Closed Hi Hat [EXC1]				808 CHH[EXC1]
43 - G2	High Floor Tom	Room Low Tom1	Room Low Tom1	Elec Low Tom1	808 Low Tom2
44-G#2	Pedal Hi-Hat [EXC1]				808 CHH[EXC1]
45 - A2	LowTom	Room Mid Tom2	Room Mid Tom2	Elec Mid Tom2	808 Mid Tom2
46 - A#2	Open Hi-Hat [EXC1]				808 OHH[EXC1]
47 - B2	Low-Mid Tom	Room Mid Tom1	Room Mid Tom1	Elec Mid Tom1	808 Mid Tom1
48-C3	Hi Mid Tom	Room Hi Tom2	Room Hi Tom2	Elec Hi Tom2	808 Hi Tom2
48-C3 49-C#3	Crash Cymbal 1	NOUTH TOTAL	NOUTH THE TOTAL	EIECTI (OMZ	
		D 1877 4	D. LET. 4	SI UST 4	808 Cymbal
50-D3	High Tom	Room Hi Tom1	Room Hi Tom1	Elec Hi Tom1	808 Hi Tom1
51 - D#3	Ride Cymbal 1				
52-E3	Chinese Cymbal			Reverse Cymbal	
53-F3	Ride Bell				
54-F#3	Tambourine				
55-G3	Splash Cymbal				
56-G#3	Cowbell				808 Cowbell
57 - A3	Crash Cymbal2				
58 - A#3	Vibraslap				
59-B3	Ride Cymbal2				
60-C4	Hi Bongo				
61 - C#4	Low Bongo	_		 	
62-D4	Mute Hi Conga				808 High Conga
63 - D#4	Open Hi Conga				808 Mid Conga
64-E4	<u> </u>				
	Low Conga				808 Low Conga
65-F4	High Timbale				
66-F#4	Low Timbale				
67 - G4	High Timbale				
68-G#4	Low Agogo				
69 - A4	Cabasa				
70 - A#4	Maracas				
71 - B4	Short Whistle[EXC2]				808 Maracas
72-C5	Long Whistle[EXC2]				
73 - C#5	Short Guiro[EXC3]				
74-D5	Long Guiro[EXC3]				
75 - D#5	Claves				808 Claves
76-E5	Hi Wood Block				
77 - F5	Low Wood Block				
78 - F#5	Mute Cuica[EXC4]			 	
79-G5	Open Cuica[EXC4]		+	+	
79-G3 80-G#5	Mute Triangle[EXC5]				
	J				
81 - A5	Open Triangle[EXC5]				
82 - A#5	Shaker				
83 - B5	Jingle Bell				
84-C6	Belltree				
85 - C#6	Castanets				
86 - D6	Mute Surdo[EXC6]				
87 - D#6	Open Surdo[EXC6]				
0/ - D#0					

GM Voice & Drum Table

Prog. 33					
Aug Drum Brush Drum Orchests		Prog 33	Prog 41	Prog 49	Remark
22-911 Coccel Hold 29-F1 Coccel Hold 29-F1 Coccel Hold 29-F1 Coccel Hold 31-G1 31-G1 33-G1 33-A1 33-A1 35-B1 Juzz BD2 Auzz BD2 36-C2 Auzz BD1 37-G2 38-D12 Bush Tap Concert BD 2 38-D12 Bush Tap Concert SD 38-D12 Bush Sap Catanets 40-E2 Bush Sap Catanets 40-E2 Bush Sap Catanets 40-E2 Timpani F Timpani F Timpani G Timpani G Timpani A 48-G2 Timpani G Timpani G Timpani B Timpani G Timpa					
29-E1	27 D#1	July Bruin	D. asir D. airi		
29-F1 Open Hilbet Side Cymbal Side Cym					
State					
33-G1					
33-Ceft	30 - F#1			Ride Cymbal	
32-6ff	31-G1				
33-Art					
34-Art					
35-81 Naz B02 Naz B02 Concert B0 2 37-62 Naz B01 Naz B01 Naz B01 Concert S0 Naz B01 Na					
36-C2 Jazz BD1 Jazz BD1 Concert BD1					
37 - (62	35 - B1	Jazz BD2	Jazz BD2	Concert BD 2	
37 - (62	36-C2	Jazz BD1	Jazz BD1	Concert BD1	
Brush Tap					
39-Diz Bush Sup Castanets			Pruch Tan	ConsortED	
## 40-E2 Bush Swirl Concert SD ## 41-F2 Timpani F ## 42-F2 Timpani F ## 43-G2 Timpani F ## 44-G82 Timpani G ## 45-A2 Timpani A ## 47-B2 Timpani A ## 47-B2 Timpani A ## 48-G3 Timpani A ## 49-G3 Timpani B ## 50-D3 Timpani G ## 51-D18 Timpani G ## 53-F3 Timpani G ## 55-G3 Timpani G ## 60-G4 Timpani G ##					
### ### ##############################					
1			Brush Swirl		
1	41 - F2			Timpani F	
1	42 - F#2			Timpani F#	
44-542					
46-A#2					
16-APZ					
47-82					
48-C3 Timpani c 49-C43 Timpani c 50-D3 Timpani d 51-D43 Timpani d 51-D43 Timpani d 51-D43 Timpani d 51-D43 Timpani d 53-E3 Timpani d 53-E3 Timpani e 53-E3 Timpani f 54-F#3 Timpani f 55-G3 Timpani f 55-G3 Timpani f 55-G4 Timpani f 55-A3 Timpani f 55-A4 Ti				Timpani A#	
48-C3 Timpani c 49-C43 Timpani c 50-D3 Timpani d 51-D43 Timpani d 51-D43 Timpani d 51-D43 Timpani d 51-D43 Timpani d 53-E3 Timpani d 53-E3 Timpani e 53-E3 Timpani f 54-F#3 Timpani f 55-G3 Timpani f 55-G3 Timpani f 55-G4 Timpani f 55-A3 Timpani f 55-A4 Ti	47 - B2				
19-CE3	48-C3				
50-D3 Timpanid Tim					
51-D83 Timpanid# Timpanid# Timpanid# Timpanid# Timpanie S3-F3 Timpanif Timpanif Timpanif Timpanif S5-G3					
52-E3 Timpanie Timpanie Timpanif Tim					
53-F3 54-F83 55-G3 56-G83 56-G83 57-A3 Concert Cymbal2 58-A48 59-B3 Concert Cymbal1 60-C4 61-C4 63-D44 62-D4 63-D14 66-F44 66-F84 66-F84 66-F84 67-G4 68-G84 69-A4 71-B4 71-B4 71-B4 71-B4 71-B5 73-C85 74-D5 75-D95 75-D95 75-D95 75-D95 75-D95 75-D95 75-D95 75-P5 78-F85 79-G5 80-G85 81-A5 82-A85 83-B5 88-C86					
54-F83 55-G3 56-G83 57-A3 58-A83 59-B3 Concert Cymbal2 58-A83 59-B3 Concert Cymbal1 60-C4 61-C84 62-D4 63-D84 64-E4 65-F4 66-F84 66-F84 67-G4 68-G84 69-A4 70-A84 71-B4 72-C5 73-C85 74-D5 75-D85 75-D85 76-E5 77-F5 78-F85 78-F85 79-G5 80-G85 81-A5 82-A85 83-BS 81-A5 82-A85 83-BS 84-C6 88-C96				Timpani e	
54-F83 55-G3 56-G83 57-A3 58-A83 59-B3 Concert Cymbal2 58-A83 59-B3 Concert Cymbal1 60-C4 61-C84 62-D4 63-D84 64-E4 65-F4 66-F84 66-F84 67-G4 68-G84 69-A4 70-A84 71-B4 72-C5 73-C85 74-D5 75-D85 75-D85 76-E5 77-F5 78-F85 78-F85 79-G5 80-G85 81-A5 82-A85 83-BS 81-A5 82-A85 83-BS 84-C6 88-C96	53-F3			Timpani f	
55-G3 56-G83 56-G83 57-A3 S8-A#3 S9-B3 ConcertCymbal2 58-A#3 59-B3 ConcertCymbal1 60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F4 66-F#4 66-F#4 66-F#4 71-B4 71-B4 71-B4 71-B4 71-B5 73-C#5 77-F5 78-F#5 79-G5 80-G#5 81-A5 81-C6 88-C#6				'	
56-G#3 57-A3 Concert Cymbal2 59-B3 Concert Cymbal1 60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F#4 66-F#4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 71-B4 71-B5 73-D#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-AS 82-A#5 83-B5 84-C6 88-CB6					
57-A3 Concert Cymbal2 58-A#3 59-B3 Concert Cymbal1 60-C4 61-C44 62-D4 63-D#4 64-E4 65-F4 66-F84 66-F84 67-C4 68-G#4 69-A4 70-A#4 71-B4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F85 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
\$8-A#3 \$9-B3 \$ConcertCymbal1 60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F4 66-F#4 66-F#4 66-F#4 66-A4 70-A#4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 88-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 88-CB4 88-CB6 88-CB4 88-CB6					
59-B3 60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F4 66-F#4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 71-B4 71-B5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 83-B5 84-C6 85-C#6 86-CB4 86-CB	57 - A3			Concert Cymbal2	
59-B3 60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F4 66-F#4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 71-B4 71-B5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 83-B5 84-C6 85-C#6 86-CB4 86-CB	58 - A#3				
60-C4 61-C#4 62-D4 63-D#4 64-E4 65-F4 66-F#4 66-F#4 67-G4 68-G#4 69-A4 71-B4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 88-CB4 66-CB4 66-C				Concert Cymbal1	
61-C#4 62-D# 63-D#4 63-D#4 64-E4 65-F4 65-F4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B# 71-B# 71-B# 71-B# 71-B# 71-BF 73-C#5 73-C#5 73-C#5 73-G#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 81-A5 82-A#5 83-B5 84-G6 85-C#6				concert cyrnisar:	
62-D4 63-D#4 64-E4 65-F4 65-F4 66-F#4 67-G4 68-G#4 99-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 83-C#6 86-D6					
63-D#4 64-E4 65-F4 65-F4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 88-C#6 88-C#6					
64-E4 65-F4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 78-F#5 99-G5 80-G#5 81-AS 82-A#5 83-B5 84-C6 85-C#6 86-D6					
65-F4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 78-F#5 99-G#5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6	63 - D#4				
65-F4 66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 78-F#5 99-G#5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6	64 - E4				
66-F#4 67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
67-G4 68-G#4 69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
68-G#4 69-A4 70-A#4 71-B4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
69-A4 70-A#4 71-B4 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
70 - A#4 71 - B4 72 - C5 73 - C#5 74 - D5 75 - D#5 76 - E5 77 - F5 78 - F#5 79 - G5 80 - G#5 81 - A5 82 - A#5 83 - B5 84 - C6 85 - C#6 86 - D6					
70 - A#4 71 - B4 72 - C5 73 - C#5 74 - D5 75 - D#5 76 - E5 77 - F5 78 - F#5 79 - G5 80 - G#5 81 - A5 82 - A#5 83 - B5 84 - C6 85 - C#6 86 - D6	69 - A4				
71-84 72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
72-C5 73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
73-C#5 74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
74-D5 75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
75-D#5 76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-G6 85-C#6 86-D6					
76-E5 77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-G6 85-C#6 86-D6	75 - D#5				
77-F5 78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
78-F#5 79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
79-G5 80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
80-G#5 81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6					
81-A5 82-A#5 83-B5 84-C6 85-C#6 86-D6	80-G#5				
82-A#5 83-B5 84-C6 85-C#6 86-D6					
83-B5 84-C6 85-C#6 86-D6					
84-C6 85-C#6 86-D6					
85 - C#6 86 - D6					
86-D6	84-C6				
86-D6	85 - C#6				
10/-D#U					
88-E6	88-E6				

Troubleshooting

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

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

Specifications

PRODUCT HIGH POLISHED DIGITAL PIANO

KEYBOARD 88 HAMMER ACTION KEYBOARD - 7 1/4 OCTAVES

MAX. POLYPHONY 128 NOTES

SOUND 25 Voices and 1 DRUM KIT

FUNCTIONS LAYER

SPLIT

TWIN PIANO

TUNE

TRANSPOSE

TOUCH (Off, Hard, Normal, Soft)

DSP REVERB with Adjustable Level Control

EFFECT with Adjustable Level Control

RECORD REAL-TIME-RECORDING

1 TRACK

APPROX. 4,500 NOTES

PEDAL 3PEDALS (DAMPER, SOSTENUTO, SOFT)

VOLUME CONTROLS MAIN VOLUME I/O TERMINALS MIDI IN/OUT

AUX L/R IN AUX L/R OUT USB IN

2 HEADPHONE JACKS

SPEAKER 6:9 INCHES× 2, 2INCH x 2

POWER AC IN **POWER CONSUMPTION** 90W

DIMENSIONS (W x D X H) 1405 x 420 x 1000 mm

WEIGHT 99 KGS

ACCESSORY OWNER'S MANUAL, AC POWER CABLE

