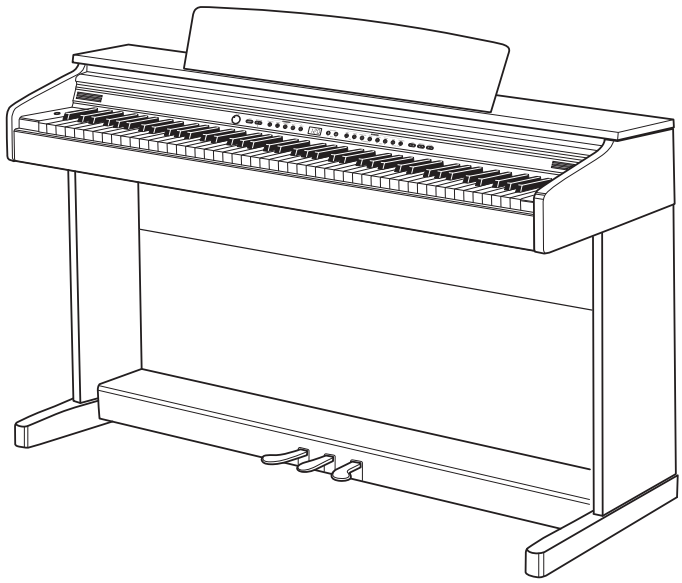
OWNER'S MANUAL



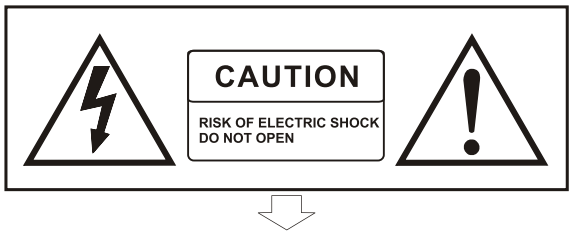
High Performance USB Digital Piano

New feel, new look and new sound

PRECAUTIONS

Thank you for purchasing this digital instrument.For perfect operation and security,please read the manual carefully and keep it for future reference.

Safety Precautions



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

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

CAUTION

Important Safety Instructions

(Figure 1)

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings,install in accordance with the manufacturer s instructions.
8) Do not install near any heat sources such as radiators, heat registers,stoves,or other apparatus (including am plifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug.A polarized plug hase two blades with one wider than the other.A grounding type plug has two blades and a third grounding prong.The wide blade or the third prong are provided for your safety,if the provided plug does not fit into your outlet.consult an elec trician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs.convenience receptacles,and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart,stand,tripod,bracket,or table specified by the manufacturer,or sold with the apparatus.When a cart is used,use caution when moving the cart/apparatus combination to avoid injury from tip-over (Figure 1).
13) Unplug this apparatus during lightning storms or when unused for a long periods fo time.
14) Refer all servicing to qualified service personnel.Servicing is required when the apparatus has been dam aged in any way,such as power-supply cord or plug is damaged,liquid has been spilled or objects have fallen into the apparatus,the apparatus has been exposed to rain or moisture,does not operate normally,or has been dropped.

WARNING: To reduce the risk of fire or electric shock,do not expose this apparatus to rain or moisture.
CAUTION:Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids,such as vases,shall be placed on the apparatus.

WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Welcome

Thank you and congratulations on your purchase of high performance USB digital piano.

Your new digital piano is a state-of-the-art musical instrument which incorporates the latest electronics technology to make its operation as easy as possible.
In addition to the many features usually found on digital pianos, this product contains a variety of educational resources that can be used for the learning of musical concepts and piano skills.
Your versatile digital piano is ideal for both beginners and experienced musicians alike.
The piano's compact size will allow it to fit into many places where a traditional or large-sized digital piano can't.
Its slim stylish design will match most home interiors.

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

Main Features

16 Instruments
Grand Piano 1/2, Harpsichord, Vibraphone, Elec. Piano 1/2, Organ 1/2, Elec. Organ 1/2, Strings 1/2, Bass 1/2, Drum set, Sound effect set

50 Demo Music
50 pieces of classical music are enlisted in the piano as demo. You can listen to them for either your pleasure or purpose of practicing.

2 -Track Recording and Playback
The digital piano features comprehensive song recording function that allows you to record your own performance.

USB port
The digital piano can be connected to a PC via USB device port and MIDI and Audio data can be exchanged between them.

Useful Functions
There are many useful functions in your digital piano such as metronome, twin piano, audio in/out, 2 headphones, tuning, transpose, layer and split.

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

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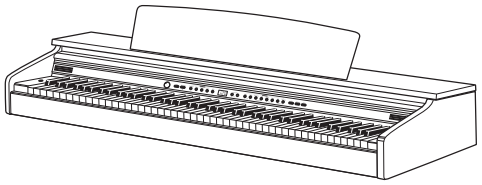
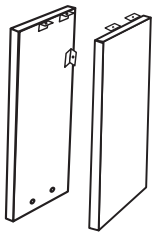
Unpacking

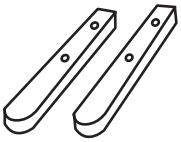
Carefully take out the digital piano and its accessories from the packing box. The digital piano set consists of the following items.



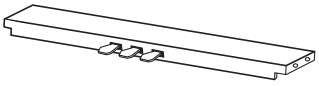
Main Unit (a)



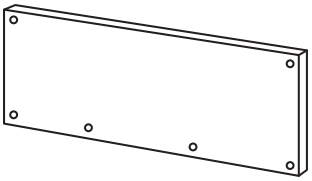
Right, Left Legs (b)



Right, Left Foots (c)



Pedal Board (d)



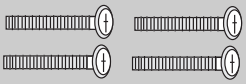
Back Panel (e)

Owner's Manual

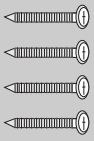
4 Bolt Caps (f)

6 Washers (i)

2 Bolts for back panel - leg (k)
M4 X 12 mm

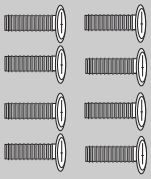


4 Bolts for foot-leg (g)
M6 X 30 mm



4 Screws for back panel - pedal board (j)
4 X 15 mm

4 nuts for foot-leg (h)

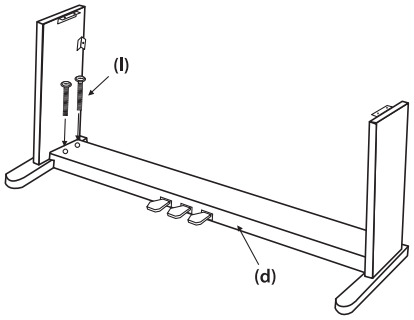


8 Bolts for main unit and pedal board (l)
M6 X 25 mm

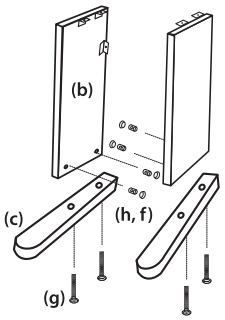
☞ Inspect each item carefully to make sure that it is in a good condition. If you find any item missing or damaged, immediately contact the place of purchase for replacement.

Setting Up Your Piano

1 Attaching both legs to the pedal board

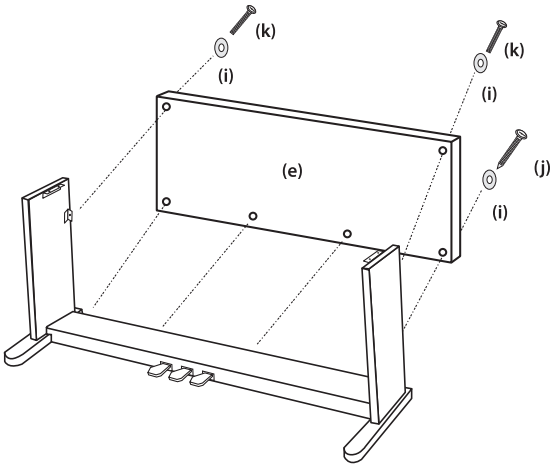


1 Place the legs (b) onto the feet (c) and fix them using bolts (g) and nuts (h). Put the Bolt Cap into the bolt hole as shown on the illustration below.



2 Attach both legs to the **Pedal Board (d)** using four **Bolts (l) .**

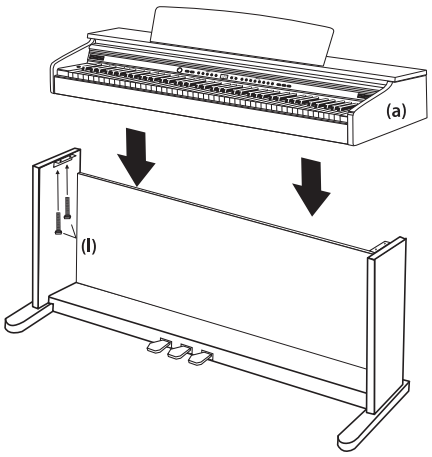
2 Assembling the stand



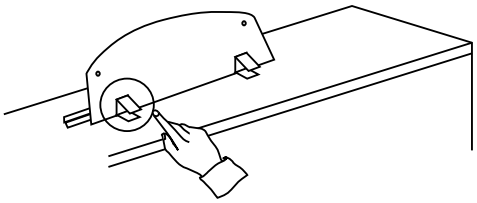
1 Insert the **Back Board(e)** in between the legs and pedal board using 2 **Bolts (k)** and 4 **Screws (j)** with 6 **Washers (i)**.

2 After fixing the back panel to the legs, set the stand upright and make sure the stand is set up straight.

3 Attaching the main unit to the stand

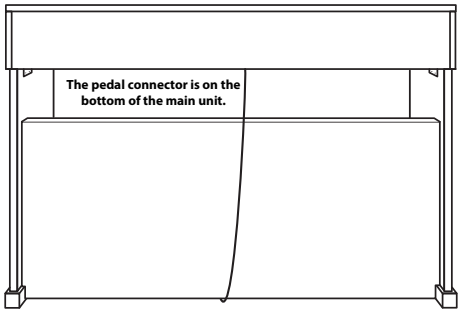


1 Set the stand upright and gently lower the main unit on to the stand, then fix their connection with four **Bolts (l) for Main Unit(a)** as shown in the illustration.

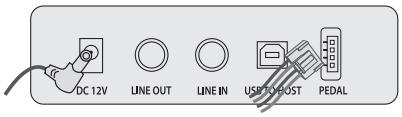


2 Raise and hold the music stand using two metal supports on the rear of music stand.

4 Connecting the pedal cord and AC adapter



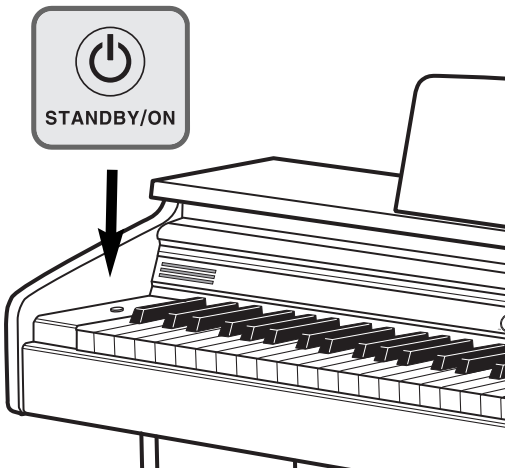
Plug the **Pedal Cord, AC adapter** and **Speaker Cord** into the corresponding ports on the bottom of the main unit as shown in the illustration.



☞ Names of each connector are printed on the rear of the main unit.

Controls and Terminals

Turning ON the Power



1 Connect the **AC POWER ADAPTER.**
Insert the DC plug of the AC adapter into the piano and the AC plug into a household AC power outlet.

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

2 Turn on **POWER**
Press the **STANDBY/ON** switch to turn on the piano. The multi-function display will show the initial screen.

☞ The voice is initially set to Grand Piano.
☞ Adjust the volume by using **MASTER VOLUME**.

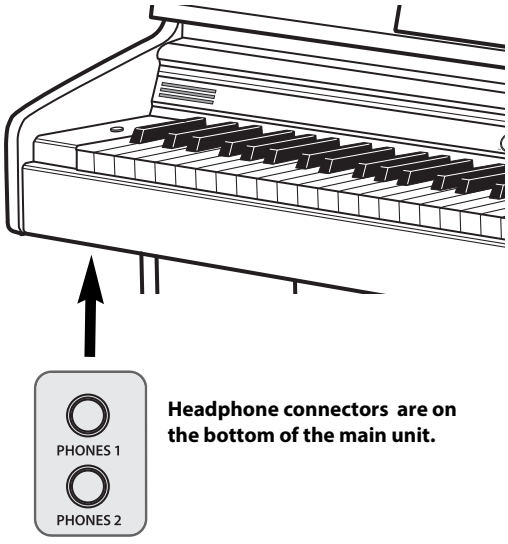
Auto Power Off
Following 30 minutes of inactivity, the piano will be turned off automatically to preserve energy.

Disable Auto Power Off
To disable the auto power-off system, hold down the lowest black and white keys and then press the **STANDBY/ON** button when turning on the piano.

3 Turn off **POWER**
Press and hold the **STANDBY/ON** switch for 3 seconds.
All lights and the LED screen will be turned off.

☞ **Backing Up the recorded song**
The recorded music will be preserved even if the power is turned off and then on again.

Headphone

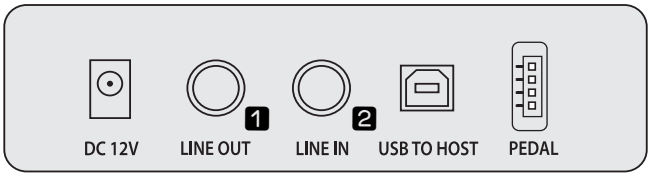


Headphone connectors are on the bottom of the main unit.

Connect a set of stereo headphones(optional) to the **HEADPHONE jack** (standard 1/4" phone jacks)**.**
Insert the headphone plug into the **HEADPHONE jack** on the left bottom 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 at once.

Connecting to Audio Devices



Connectors are on the bottom of the main unit

1 **LINE OUT jack** (Stereo Phone jack)

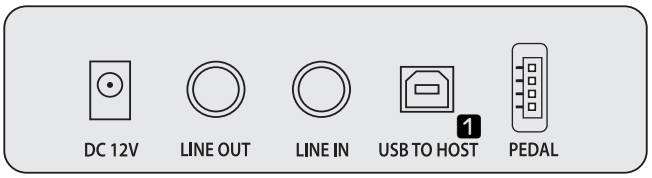
Connect the instrument's **LINE OUT** jack and the input jacks of a pair of powered speakers using appropriate stereo audio cable.

2 **LINE IN jack** (Stereo Phone jack)

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.

Connecting to a Computer



Connectors are on the bottom of the main unit

By connecting a computer to the USB, you can transfer MIDI and audio data between the instrument and the computer and take advantage of sophisticated computer music programs.
When connecting to a computer, the digital piano can be used as an audio device of your computer.

When you connect the digital piano to a computer, the device driver required to send and receive data will be installed on the computer.

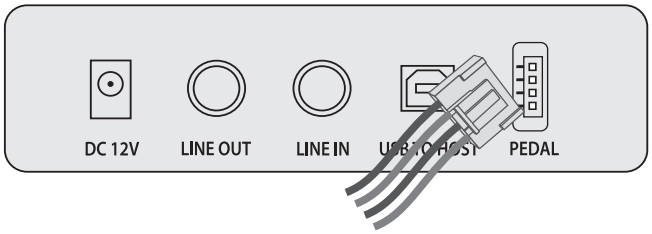
The below instructions explain how to connect and use the terminals.

☞ **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 of the instrument off and restart the computer.

Connecting the Pedal

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

Plug **Pedal cord** which is protruding from the top of the pedal assembly into the corresponding port on underside of the main unit.

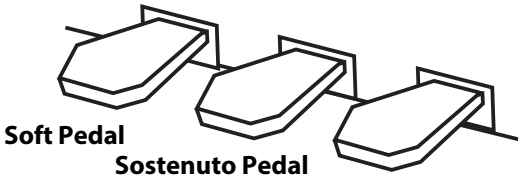


Pedal Cable

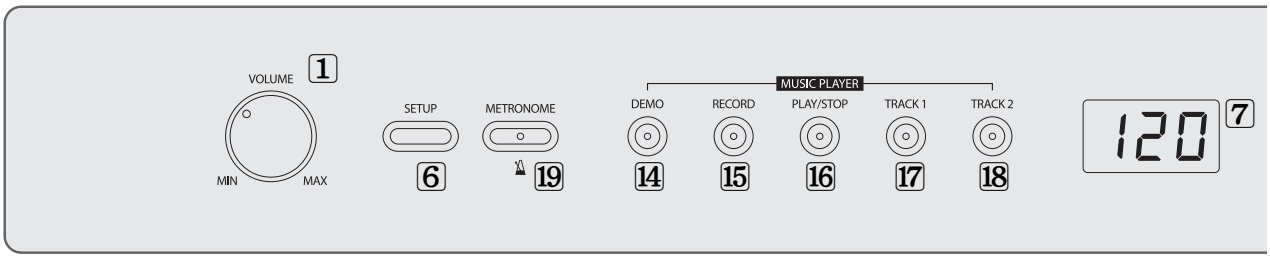
☞ **RIGHT PEDAL (Damper Pedal)**
When the voice is set to any of the piano variants, the right pedal performs the same role as the damper pedal of acoustic pianos. With organ voices, the pedal causes notes to be sustained indefinitely until its release.

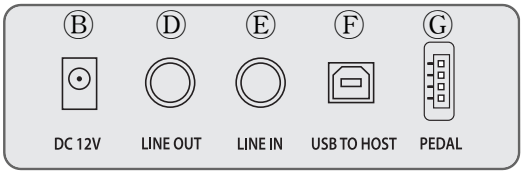
☞ **CENTER PEDAL (Sostenuto Pedal)**
The sostenuto pedal, like the damper pedal, causes the affected notes to be sustained until the release of the pedal, but only the notes that are being played at the moment the pedal is depressed are affected. All subsequent notes played while the pedal is being held down are not affected.

☞ **LEFT PEDAL (Soft Pedal)**
Depressing the pedal softens the sound of the notes being played.



Control Panel





VOLUME SECTION

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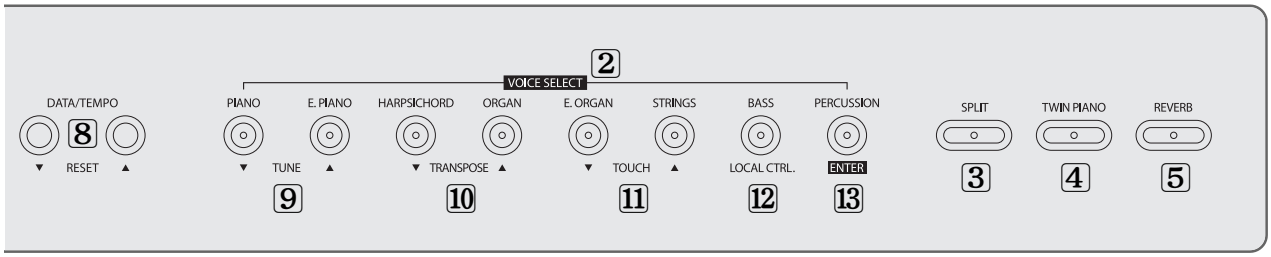
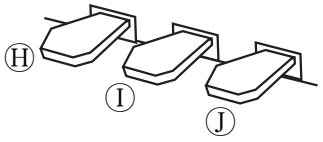
VOICE SECTION

2 VOICE buttons ..... Page 13
3 SPLIT ..... Page 14
4 TWIN PIANO ..... Page 16
5 REVERB ..... Page 15

SETUP SECTION

6 SETUP
7 LED Display
8 DATA UP/DOWN
9 TUNE ..... Page 17
10 TRANSPOSE ..... Page 17
11 TOUCH ..... Page 18
12 LOCAL CONTROL ..... Page 18
13 ENTER ..... Page 19





PLAYER SECTION

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15 RECORD ..... Page 20
16 PLAY/STOP ..... Page 20, 21
17 TRACK 1 ..... Page 20, 21
18 TRACK 2 ..... Page 20, 21
19 METRONOME ..... Page 16

POWER

Ⓐ POWER SWITCH ..... Page 8
Ⓑ DC IN ..... Page 7

CONNECTOR

Ⓒ HEADPHONE ..... Page 8
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Ⓔ LINE IN ..... Page 9
Ⓕ USB ..... Page 9
Ⓖ PEDAL ..... Page 10

PEDAL

Ⓗ SOFT PEDAL ..... Page 10
Ⓘ SOSTENUTO PEDAL ..... Page 10
Ⓙ DAMPER PEDAL ..... Page 10

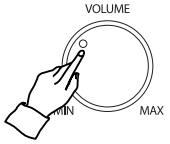
Basic Operation

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)**.

Selecting Voices

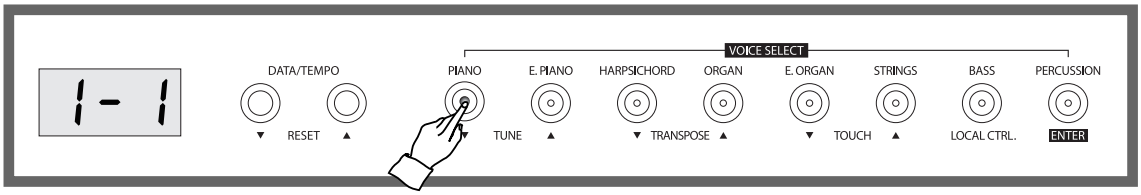
The piano features a wealth of rich, authentic voices, including piano, organ, elec. piano, strings and other instruments. It also features a keyboard percussion function that lets you play realistic drum, percussion sounds, and various effect sounds directly from the keyboard.

Voice Types

☞ 14 Sounds
☞ 1 Drum kit
☞ 1 Sound Effect set

1 Select a Voice.

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



☞ The digital piano has 8 voice buttons and each voice button has two assigned voices.
☞ When a voice button is pressed, the number of the assigned voice will be shown on the display.
☞ To select the other voice assigned to the current button, press the button again.

☞ **Backing Up the Selected Voice**

The lastly choiced voice on each button will be retained in memory.

Voice List

Grand Piano	E.Piano	Harpsichord	Organ	E.Organ	Strings	Bass	Percussion
Button 1	Button 2	Button 3	Button 4	Button 5	Button 6	Button 7	Button 8
G. Piano 1 G. Piano 2	E.Piano 1 E.Piano 2	Harpsichord Vibraphone	Organ 1 Organ 2	E. Organ 1 E. Organ 2	Strings Slow Strings	Acoust. Bass E. Bass	Drum Set Sound Effects

2 Play the selected voice.

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

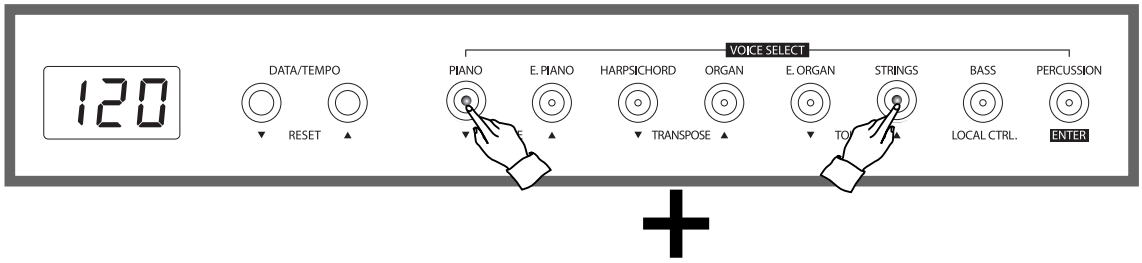
Layer

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 individually for each of the two voices.

1 Press and hold down the button corresponding to your desired main voice, then press the button of your desired layer voice.

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

☞ With the Layer mode active, playing keys will result in both main and layered voice sounding.
☞ Volume of the layered voice can be adjusted independently in the setup mode. (See the **SETUP** section on page 19.)



2 Press a voice button to deactivate the layer.

Split

The split mode allows you to assign different voices of each of the left and right parts of the keyboard. For example, you may play the bass on the left while still playing in piano voice on the right.

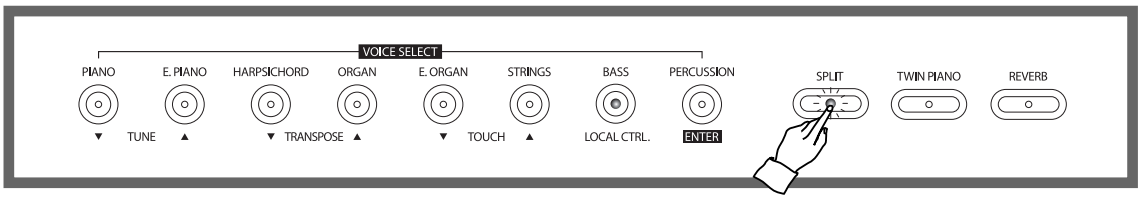
PLAYING WITH SPLIT VOICE

1 Select a main voice.

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

❷ Call up the Split mode.

To call up the split mode, press the **SPLIT** button. The lamp will begin flashing; the LED screen will display the number of current split voice.



☞ The default voice is '7-1' **ACOUSTIC BASS** in the split mode.

❸ Select the split voice.

Select the voice while the split button is flashing.

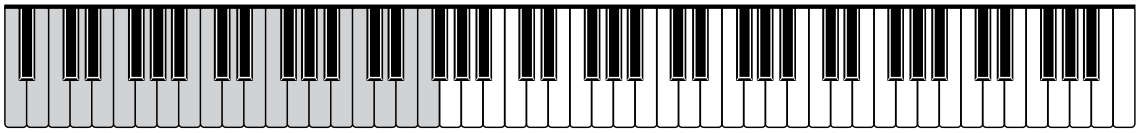
☞ Volume of the split voice can be adjusted independently in the setup mode. (See the **SETUP** section on page 19.)

Changing the Split Point

You can set the point dividing the right and left parts of the keyboard at any desired key position.

Hold down the SPLIT button and press the desired key to assign it as the new split point. The LED screen will display the corresponding number of the chosen key.

▼ SPLIT (DEFAULT F#3 , KEY 33)



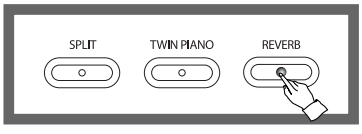
☞ Key number of the lowest note is '00'.

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 the reverb, press the **REVERB** button. The lamp will be lighted to indicate that the reverb is now active.



To turn off the reverb, press the **REVERB** button again. The lamp will be off, indicating that the reverb is no more active.

☞ Reverb is set ON by default.

☞ The type and volume of reverb may be adjusted in the setup mode. (See the **SETUP** section on page 19.)

Using the Metronome

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

START/STOP 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

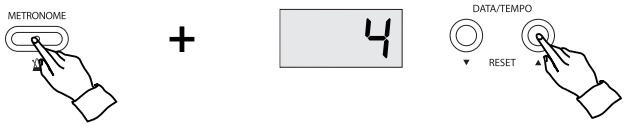
You can set the tempo to a range of 20 ~ 280 beats per minute by using the **DATA/TEMPO** buttons.

- ☞ Hold the button for continuous decrementing or incrementing.
- ☞ Pressing the **UP** and **DOWN** buttons simultaneously will instantly restore the default tempo (120).
- ☞ Metronome volume can be adjusted in the setup mode. (See the **SETUP** section on page 19.)

SELECTING THE BEAT

The metronome may be set for a specific meter, causing it to make a distinguished beep sound to indicate every first beat of each measure.

Press and hold the **METRONOME** button for 2 seconds while the metronome is active.
The LED screen will display the current meter of the metronome. Use **DATA UP** or **DOWN** button to set the metronome to your desired meter.



- ☞ Pressing both **DATA UP** and **DOWN** buttons simultaneously will instantly restore the default metronome meter (4).
- ☞ The available range of metronome meter is from **1 to 12.**

Twin Piano

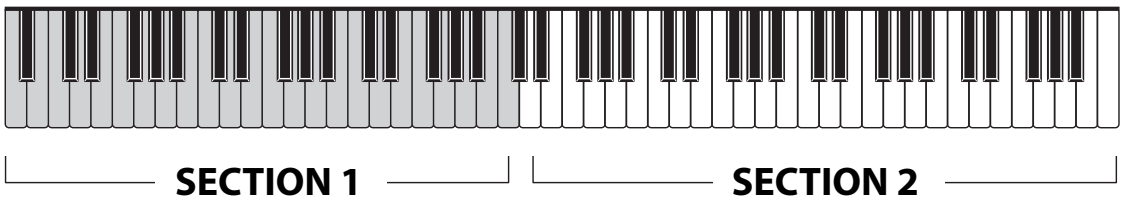
The twin piano is a tool that divides the piano into two smaller pianos with identical octave range. This feature allows two people to play the piano in the same octave range simultaneously.

1 Select a Voice.

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

2 Press the TWIN PIANO button.

The keyboard is split into two sections with identical octave range.



3 Press the TWIN PIANO button again to deactivate the twin piano.

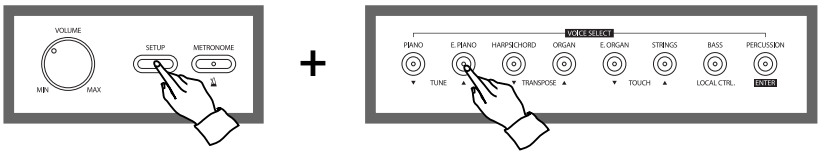
The lamp will be off, indicating that the twin piano is no more active.

Function

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 and hold down the **SETUP** button and press the **TUNE UP** or **DOWN** button.

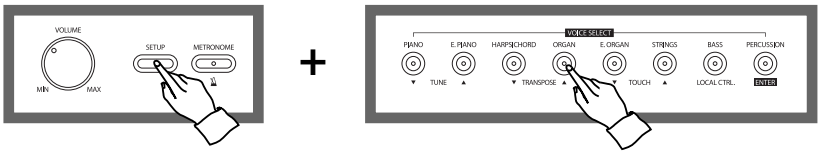


☞ The LED screen will display the current value of the tune option.
☞ Use **TUNE UP** and **DOWN** buttons to change the value.
☞ Pressing both **UP** and **DOWN** buttons simultaneously will instantly restore the default value (0).
☞ The available range of tuning is from **-64 Hz to +63 Hz. (Default 0)**
☞ **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 a unit of pitch, equal to 1/100 of a semitone.
☞ **Backing Up adjusted value**
Your last set value for each function will be retained in memory.

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 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 and hold down the **SETUP** button and press the **TRANSPOSE UP** or **DOWN** button.

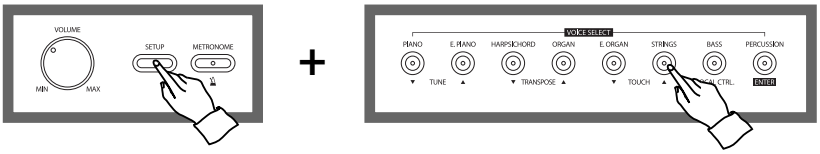


☞ The LED screen will display the current value of the transpose option.
☞ Use **TRANSPOSE UP** and **DOWN** buttons to change the value.
☞ Pressing both **UP** and **DOWN** buttons simultaneously will instantly restore the default value (0).
☞ **Range**: -12 semitone ~ 0 ~ 12 semitone (default 00)
☞ **Backing Up adjusted value**
Your last set value for each function will be retained in memory.

Touch

The touch option determines the extent to which the volume of the piano responds to your playing strength (velocity).
4 different types are available for tailoring the keyboard response to the selected voice, type of song, or your own playing preference.

Press and hold down the **SETUP** button and press the **TOUCH UP** or **DOWN** button.



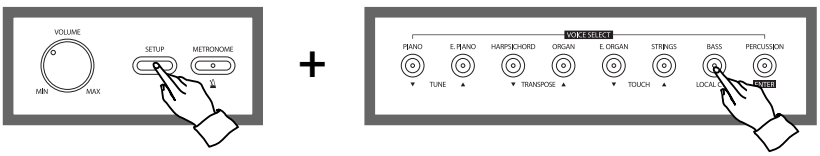
DISPLAY	TOUCH	DESCRIPTION
SoF	Soft	This setting lets you produce a relatively loud sound even when the keys are played softly.
nor	Normal	This setting represents the standard degree of response of an ordinary keyboard, and is used as default.
hrd	Hard	This setting requires you to play the keys quite strongly to produce maximum loudness.
oFF	Off	These settings produce the same degree of loudness, no matter how strongly or softly you play the keys.

☞ The LED screen will display the current value of the Touch option.
☞ Use **TOUCH UP** and **DOWN** buttons to adjust the value.
☞ Pressing both **UP** and **DOWN** buttons simultaneously will instantly restore the default value (Normal).
☞ **Backing Up adjusted value**
Your last set value for each function will be retained in memory.

MIDI Local control

Local Control refers to the control that the piano keyboard has on its internal sound system. When Local Control is set ON, the sound system belongs to the piano keyboard and what is played on the keyboard is reproduced via the piano speakers.
By turning this OFF, you can separate the connection between the keyboard and the sound system. When it is turned off, playing the keyboard does not trigger the speakers of the piano to make sound. The playing data is still transmitted to any external MIDI device connected to the piano, allowing you to control the external MIDI device with the piano keyboard without sounding the internal speakers of the piano.

To turn off the MIDI local control, press and hold the **SETUP** button and press the **LOCAL CTRL** button.
The LED screen will display 'oFF' to indicate that the local control has been turned off.



Setup mode and re-initializing Digital Piano

The set values for each of the 10 functions can be adjusted in the setup menu. The setup menu also gives you the option of re-initializing the piano, restoring the values of all functions to their default and bringing the piano to its initial status.

1 Call up the setup mode.

Press **SETUP** button to call up setup mode . The LED screen will display '---'

2 Select a desired function.

To select a function, press the **DATA/TEMPO UP** or **DOWN** button while holding down the **SETUP** button.
The numbers assigned to each of the functions will be displayed on the LED.

Function List

DISPLAY	FUNCTION	DESCRIPTION	RANGE / (DEFAULT)
F01	Main Voice Vol.	Adjust the volume of the main voice.	00 ~ 127 / (127)
F02	Split Voice Vol.	Adjust the volume of the split voice.	00 ~ 127 / (127)
F03	Layered Voice Vol.	Adjust the volume of the layered voice.	00 ~ 127 / (100)
F04	Metronome /Demo Vol.	Adjust volume of metronome & demo music.	00 ~ 127 / (100)
F05	Reverb Type	Select a reverb type. r-0 (Off), r-1 (Room 1), r-2 (Room 2), r-3 (Room 3), r-4 (Hall 1), r-5 (Hall 2), r-6 (Plate), r-7 (Shot Delay), r-8 (Long Delay)	r-0 ~ r-8 / (r-5)
F06	Reverb Vol.	Adjust reverb volume.	00 ~ 127 / (80)
F07	Effect Type	Select a effect type. 00 (Off), 01 (Chorus 1), 02 (Chorus 2), 03 (Chorus 3), 04 (Chorus 4), 05 (Chorus 5), 06 (Delay 1), 07 (Delay 2), 08 (Delay 3), 09 (Flanger), 10 (Feedback 1), 11 (Feedback 2), 12 (Feedback 3), 13 (Feedback 4)	00 ~ 13 / (00)
F08	Effect Vol.	Adjust effect volume.	00 ~ 127 / (36)
F09	Low EQ Level	Low frequency EQ gain	- 06 ~ 00 ~ + 06 (06)
F10	High EQ Level	High frequency EQ gain	- 06 ~ 00 ~ + 06 (00)
F11	Initialize	The digital piano will be brought back to its initial status.	-

3 Adjust value of the selected function.

Press the **ENTER/PERCUSSION** button while holding down the **SETUP** button.
The LED screen will display the current value of the chosen function. Use the **DATA/TEMPO UP** and **DOWN** buttons to adjust the value.

☞ Pressing both **DATA/TEMPO UP** and **DOWN** buttons will instantly restore the default value for the chosen function.
☞ Hold the button for continuous decrementing or incrementing.

Recording

The piano features comprehensive song recording functions that allow you to record your own performance. A song records 2 tracks and approx. 9,000 notes can be recorded into one track.

Recording and Playback

1 Prepare recording to the Track 1

Select the desired voice and press both the **RECORD** and the **TRACK 1** buttons. The record button will be lighted, and the track 1 button will begin flashing.

2 Start recording to the Track1.

Play the keyboard or press the **RECORD** button to begin the recording. Both buttons will be flashing.

☞ Any previously recorded music in the track will be deleted.

3 Stop recording to the Track1.

Press the **PLAY/STOP** button to stop the recording. The record button will be turned off, and the track 1 button will be lighted.
If you want to hear what is recorded in the Track1, press the **PLAY/STOP** button. The play button will be flashing throughout the playback.

4 Start recording to the Track2.

Press both the **RECORD** and the **TRACK 2** button. The record button will be lighted, and the track 2 button will begin flashing.
Play the keyboard or press the **RECORD** button to begin the recording.

☞ If you wish not to hear what is recorded in track 1 while recording to track 2, press the track 1 button to turn it off. Otherwise, leave it turned on (lighted).
☞ Each track can be played individually.

5 Stop recording to the Track2.

Press either the **TRACK 2** button or the **RECORD** button to stop the recording. The record button will be turned off, and the track 2 button will be lighted.
If you want to hear what is recorded in the track2, press the **PLAY/STOP** button. The play button will be flashing throughout the playback.

6 Playback the recorded song.

Press the **PLAY/STOP** button.

☞ A lighted track button means that there is previously recorded material saved in that track.
☞ If you wish not to hear a track, turn off the button corresponding to that track.

7 Stop playback of the recorded song.

Press the **PLAY** button again.

CLEARING RECORDED MEMORY

To clear the recorded memory, Press both the **RECORD** and the **PLAY/STOP** buttons simultaneously.

☞ Recording new material will remove the pre-existing material in the track.
☞ **Backing Up the recorded song**
The recorded material will be preserved even if the power is turned off and then on again.

Demo Music

50 pieces of piano music are enlisted in the piano as demo. You can playback the demo music for your own listening pleasure, or use them for practice.

Playback of the Music

1 Enter the demo music mode.
Press the **DEMO MUSIC** button. The LED screen will display the number of the music: 'd01'.

2 Select the desired music.
Change the number of the music by using **DATA UP** or **DOWN** button.

☞ 50 pieces of music is available as demo.
☞ Refer to the **MUSIC LIST**.

3 Playback of the selected music.
Press the **PLAY/STOP** button.

4 Stop music.
Press the **PLAY/STOP** again.

Demo Music 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, Mazeppa	Liszt, Franz
d39	The flight of the bumble bee (by S. Rachmaninov)	Rimsky, Korsakov
d40	Trois Gymnopedies 1. Lent et douloureaux	Satie, Erik
d41	12 Fantasie per clavicembalo (TWV 33) - Harpsichord music - 1. Fantasia	Telemann, Georq 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	Wohltemperriertes Klavier-Pledudio 1	
d50	Wohltemperriertes Klavier-Fuga 1	

Drum and SFX Table

	Prog 1 Standard Drum (8-1)	Prog 57 SFX 2 (8-2)
27 - D#1	High Q	
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 - C1	Kick drum1/Jazz BD1	
37 - C#2	Side Stick	
38 - D2	Snare Drum1	
39 - D#2	Hand Clap	High Q
40 - E2	Snare Drum 2	Slap
41 - F2	Low Floor Tom	Scratch Push
42 - F#2	Closed Hi Hat [EXC1]	Scratch Pull
43 - G2	High Floor Tom	Sticks
44 - G#2	Pedal Hi-Hat [EXC1]	Square Click
45 - A2	Low Tom	Metronome Click
46 - A#2	Open Hi-Hat [EXC1]	Metronome Bell
47 - B2	Low-Mid Tom	Guitar Slide
48 - C2	Hi Mid Tom	Gt Cut Noise 1
49 - C#3	Crash Cymbal 1	Gt Cut Noise 2
50 - D3	High Tom	Double Bass Slap
51 - D#3	Ride Cymbal 1	Key Click
52 - E3	Chinese Cymbal	Laughing
53 - F3	Ride Bell	Screaming
54 - F#3	Tambourine	Punch
55 - G3	Splash Cymbal	Heart Beat
56 - G#3	Cowbell	Footsteps 1
57 - A3	Crash Cymbal2	Footsteps 2
58 - A#3	Vibraslap	Applause
59 - B3	Ride Cymbal2	Door Creaking
60 - C4	Hi Bongo	Door Closing
61 - C#4	Low Bongo	Scratch
62 - D4	Mute Hi Conga	Wind Chime
63 - D#4	Open Hi Conga	Car Engine Start
64 - E4	Low Conga	Car Breaking
65 - F4	High Timbale	Car Pass
66 - F#4	Low Timbale	Car Crash
67 - G4	High Timbale	Police Siren
68 - G#4	Low Agogo	Train
69 - A4	Cabasa	Jet Take-off
70 - A#4	Maracas	Helicopter
71 - B4	Short Whistle[EXC2]	Starship
72 - C5	Long Whistle[EXC2]	Gun Shot
73 - C#5	Short Guiro[EXC3]	Machinegun
74 - D5	Long Guiro[EXC3]	Lasergun
75 - D#5	Claves	Explosion
76 - E5	Hi Wood Block	Dog
77 - F5	Low Wood Block	Horse Gallop
78 - F#5	Mute Cuica[EXC4]	Birds
79 - G5	Open Cuica[EXC4]	Rain
80 - G#5	Mute Triangle[EXC5]	Thunder
81 - A5	Open Triangle[EXC5]	Wind
82 - A#5	Shaker	Sea Shore
83 - B5	Jingle Bell	Stream
84 - C6	Belltree	Bubble
85 - C#6	Castanets	
86 - D6	Mute Surdo[EXC6]	
87 - D#6	Open Surdo[EXC6]	
88 - E6		

MIDI Implementation

Function			Recognized	Transmitted	Remark
Basic Channel		Default	ALL	1 -3	
Mode		Default	OMNI OFF, POLY	OMNI OFF, POLY	
Note ON/OFF		9nH kk vv	O	O	#kk:note ON (0-127) #vv:velocity (1-127)
Pitch Bender		EnH bi bh	O	O	Maximum swing +/- 1 tone
	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
Control	67	BnH 43H cc	O	O	Soft Pedal
Change	80	BnH 80H vv	O	X	Reverb Prog.(vv=00H-70H)
	81	BnH 51H vv	O	X	Chorus Prog.
	91	BnH 5BH vv	O	X	Reverb Send Level
	93	BnH 5DH vv	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	X	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
No sound	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.
Occasional interference	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.
No sound when connected to external amplifier.	1. Volume setting is too low. 2. Defective connection cord.	1. Adjust the volume. 2. Replace connection cord.

Specifications

Section	Contents
PRODUCT	DIGITAL PIANO
KEYBOARD	88 KEYS (STANDARD) - 7 1/4 OCTAVES
TOUCH RESPONSE	OFF, SOFT, NORMAL, HARD
MAX. POLYPHONY	64 NOTES
SOUND	14 VOICES
	1 DRUM KIT
	1 SOUND EFFECT SET
FUNCTIONS	LAYER, SPLIT, TUNE, TRANSPOSE, MIDI LOCAL CONTROL, PEDAL
DIGITAL SIGNAL PROCESSING	EFFECT(13), REVERB(8)
METRONOME	YES
DISPLAY	LED MULTI FUNCTION DISPLAY
DEMO MUSIC	50 TUNES
RECORD	REAL-TIME-RECORDING
	2 TRACKS
	APPROX. 18,000 NOTES (9,000 NOTES/TR)
VOLUME CONTROLS	MAIN, LAYER, SPLIT, DEMO, METRONOME
	LOW EQ GAIN, HIGH EQ GAIN, REVERB, EFFECT
I/O TERMINALS	USB IN, PEDAL IN
	STEREO LINE IN
	STEREO LINE OUT
	2 HEADPHONE JACKS
SPEAKER	6.5 INCHES × 2 (STEREO 15W + 15W)
POWER	DC IN (12V)

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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 or 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.

High Performance USB Digital Piano

New feel, new look and new sound