

KURZWEIL

M230
USER'S
MANUAL

English Manual

HDC YOUNG CHANG
MUSIC



KURZWEIL





The lightning flash with the 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.

IMPORTANT SAFETY & INSTALLATION INSTRUCTIONS

INSTRUCTIONS PERTAINING TO THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING : When using electric products, basic precautions should always be followed, including the following:

1. Read all of the Safety and Installation Instructions and Explanation of Graphic Symbols before using the product.
2. Do not use this product near water—for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should only be used with a stand or cart that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and speakers or headphones, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. This product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. This product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
9. The power supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When unplugging the power supply cord, do not pull on the cord, but grasp it by the plug.
10. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
11. The product should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged;
 - B. Objects have fallen, or liquid has been spilled into the product;
 - C. The product has been exposed to rain;
 - D. The product does not appear to be operating normally or exhibits a marked change in performance;
 - E. The product has been dropped, or the enclosure damaged.
12. Do not attempt to service the product beyond that described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.
13. **WARNING :** Do not place objects on the product's power supply cord, or place the product in a position where anyone could trip over, walk on, or roll anything over cords of any type. Do not allow the product to rest on or be installed over cords of any type. Improper installations of this type create the possibility of a fire hazard and/or personal injury.

RADIO AND TELEVISION INTERFERENCE

WARNING : Changes or modifications to this instrument not expressly approved by KURZWEIL could void your authority to operate the instrument.

IMPORTANT : When connecting this product to accessories and/or other equipment use only high quality shielded cables.

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

The normal function of product may be disturbed by strong electro magnetic

interference. If so, simply reset the product to resume normal operation by following the instruction manual.

In case the function could not resume, please use the product in other location.

- Reorient or relocate the receiving antenna.
- Increase the separation between the instrument and the receiver.
- Connect the instrument into an outlet on a circuit other than the one to which the receiver is connected.
- If necessary consult your dealer or an experienced radio/television technician for additional suggestions.

NOTICE : This apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS : Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

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 of the 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 amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has 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 electrician 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 a 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged 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.
15. Allow adequate ventilation for the power adapter. Do not hide it under a carpet or behind a curtain or place it in an enclosed space where heat buildup can occur.



WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.

To completely disconnect this equipment from the AC Mains, disconnect the power supply cord plug from the AC receptacle.

Kurzweil International Contacts

Contact the appropriate Kurzweil office listed below to locate your local Kurzweil representative.

US Customers:

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Fax: 310 637-2025

Customers outside the US:

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Gyeonggi-Do 463-859
South Korea
Tel: +82 31 786 7900
www.ycpiano.co.kr
www.youngchang.com



WWW

www.kurzweil.com



support@kurzweil.com



www.facebook.com/kurzweilmusicsystems/



www.twitter.com/KurzweilMusic



www.youtube.com/user/KurzweilTutorials

Important Safety & power supply instructions

Power supply

This product must be used on AC220V 50Hz/60Hz DC18V 1A.
Please use a voltage booster in 110V area.

You must use the adaptor provided. If you use other adaptors,
it could make serious damages

Warning



For the safety in use, please read all of the warnings and instructions
on this manual.

- ❶ Do not use this product near water-for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
- ❷ This product should be connected to a power supply only of the voltage type described in the operating instructions or as marked on the product.
- ❸ In the place using other type of power supply, please use an appropriate booster after asking sales person.
- ❹ Use a rating fuse when you need to change it.
- ❺ Use a door knob to open and close the dust cover. Be careful of fingers.

Important Safety instructions.

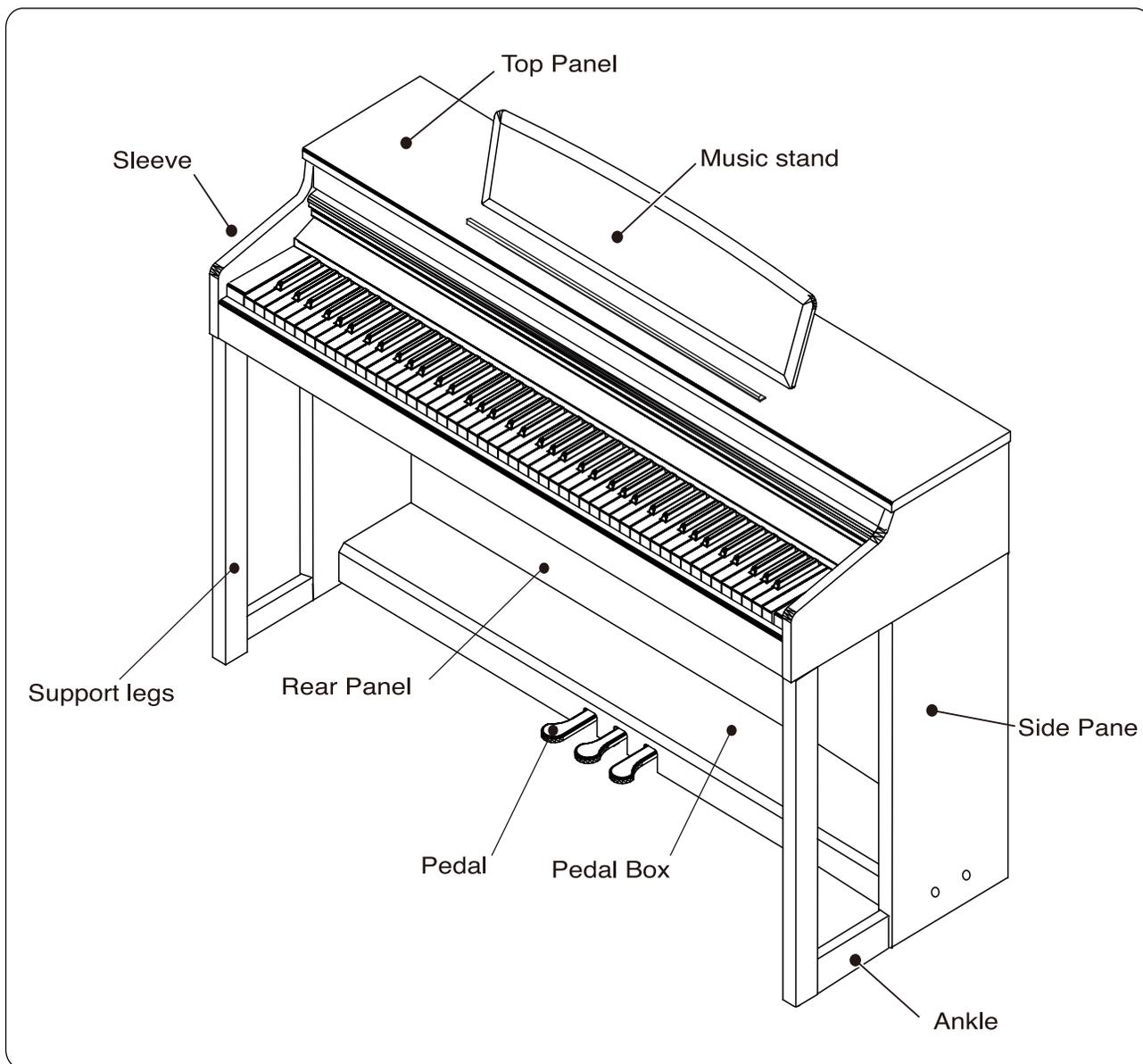


- ❶ Avoid the strong shock that can cause break down.
- ❷ When moving it, be careful of keyboard and switch.
- ❸ Place the main volume at the minimum before turning on. Control the volume step by step after turning it on.
- ❹ Do not attempt to open the body. It must be the cause of break down because there are many precision parts in the piano.
- ❺ Turn it off after using.
- ❻ The power supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
- ❼ Do not handle the knob and switch too much hard.

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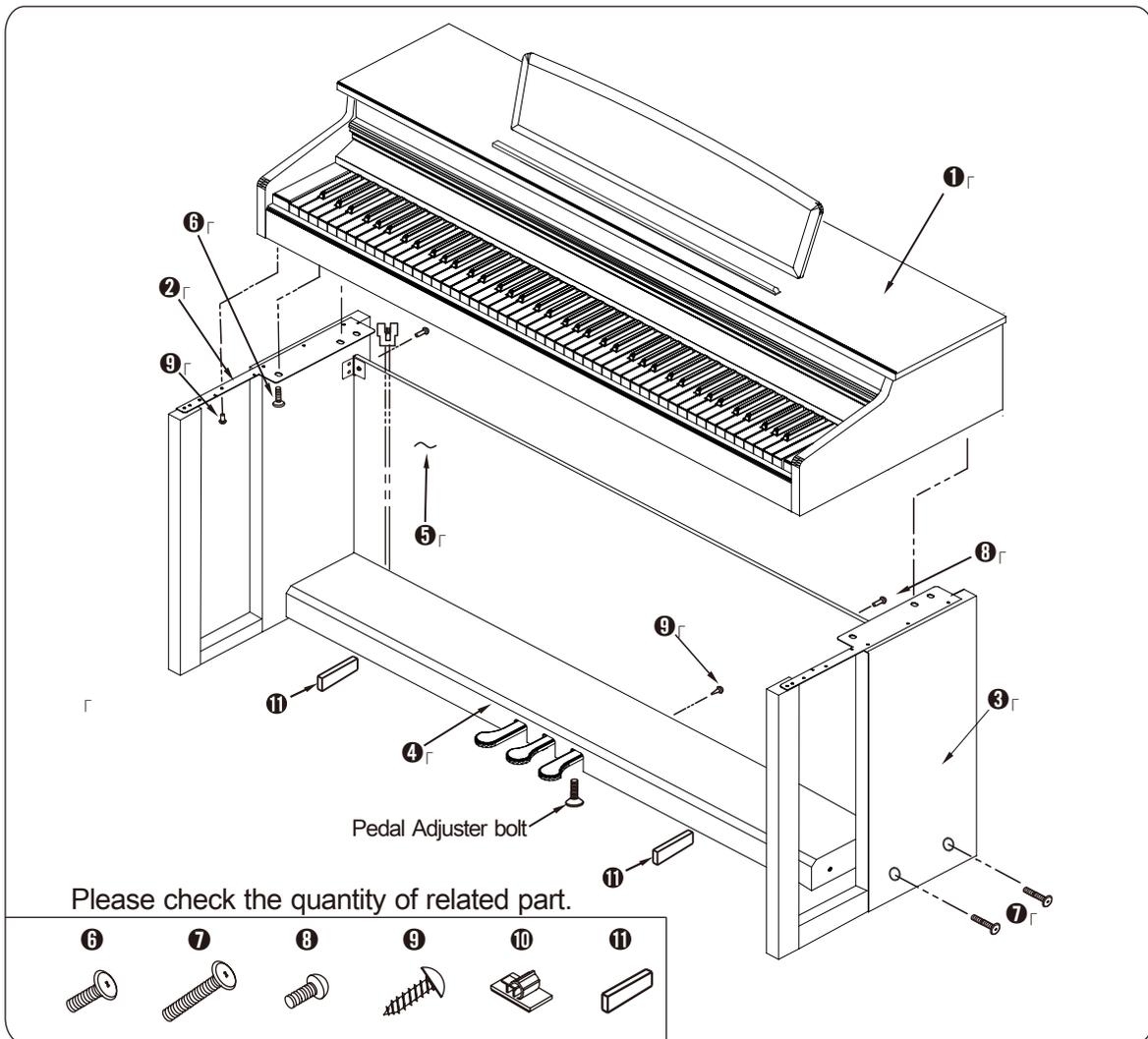
1.The name of each part



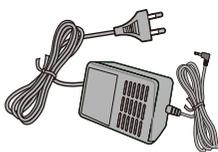
Chapter 1 Piano Assembly

Check that all of the following items are present.

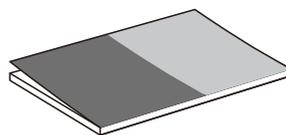
① Keyboard	1 EA	⑥ Screws for side panel and keyboard	4 EA
② Side panel of stand(Left)	1 EA	⑦ Screws for side panel and pedal box	4 EA
③ Side panel of stand(Right)	1 EA	⑧ Screws for rear panel	2 EA
④ Pedal box	1 EA	⑨ Screws for rear panel and side panel	6 EA
⑤ Real panel	1 EA	⑩ Cord holder	2 EA
		⑪ Support block for pedal box	2 EA



Accessories



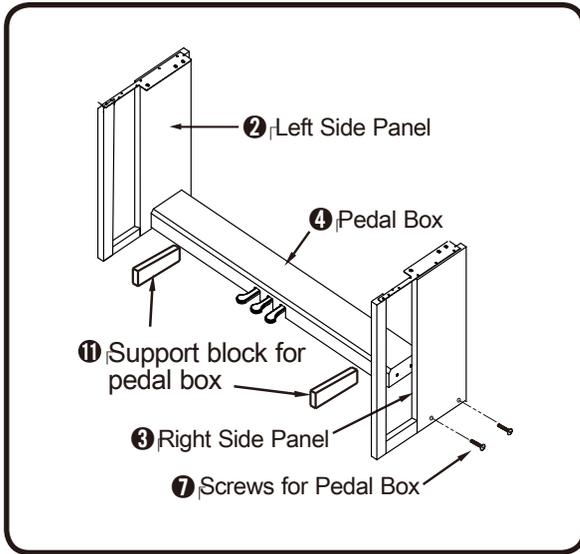
Power Adapter



User manual

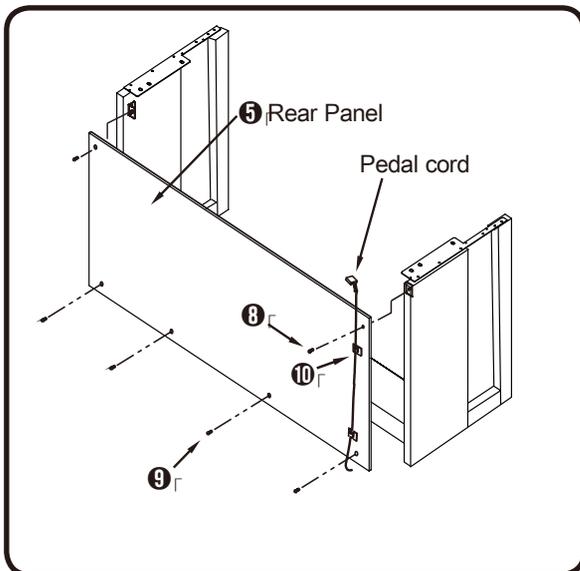
1. Stand Assembly

Side Panel and Pedal Box Assembly

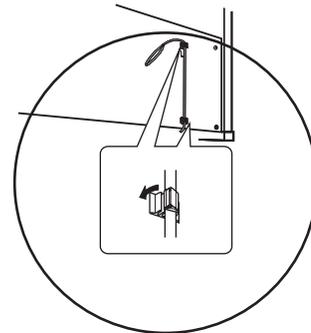


- ① You can find the pedal cable in the pedal box ④. Untie and straighten out the bundled pedal cable.
- ② Place the pedal box ④ on the support block for pedal box ①. Then it will be the same as the position of the left side panel ② holes. It can be easily fastened by using the screw bolts ⑦.
- ③ The right side panel ③ is also fastened the same way

Rear Panel Assembly

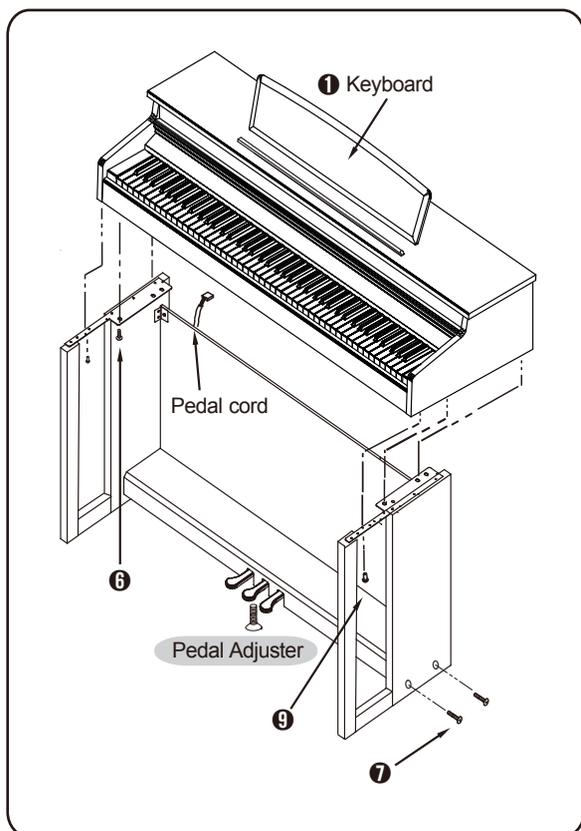


- ① Fit into the rear panel's ⑤ hole in the side panel brackets and then use the screws ⑧ to fasten the rear panel.
- ② Use the screws ⑨ to fasten the bottom of the rear panel.



Attach the pedal cord holders ⑩ to the rear panel as shown, then clip the cord into the holders

Mounting the keyboard



① Place the keyboard on the stand and fit into the holes in the side panel brackets.

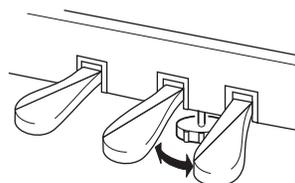
② Fasten the keyboard to the side panel using screws ⑥.

CAUTION : Have a second person hold the keyboard steady until the side panel screws are installed.

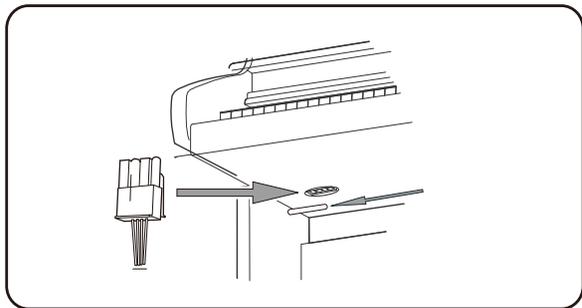
③ Fasten between the keyboard and the leg using screws ⑨.

④ Insert the pedal cable plug into the pedal jack located on the bottom of the keyboard.

⑤ Rotate the pedal adjuster until it comes in firm contact with the floor surface. If the adjuster is not in firm contact with the floor, the pedals will wobble and may malfunction.



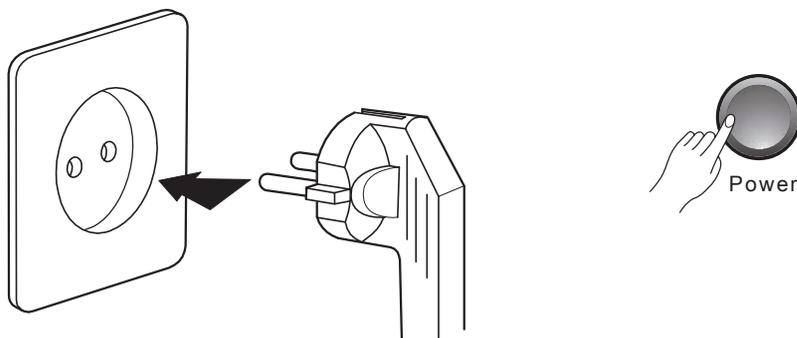
Pedal cord connection



Insert the pedal cord plug to the pedal jack from the rear.

- Connect the pedal cord after assembly is complete.
- If the connection is incorrect the pedal will not working.

2. Applying Power



① Connecting the power cord

First insert the plug of the AC power cord into the AC connector on the Adaptor, then plug the other end of the cord into the proper AC outlet on the wall. In some areas a plug adaptor may be provided to match the pin configuration of the AC wall outlets in your area.

② Plug the thin DC power cord into the DC Power Jack on the back of the piano.

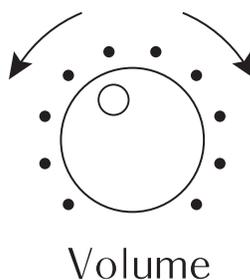
③ Turn the power on

Press the power switch located on the right cheek block to turn the power on. The display located in the center of the front panel should light with various patterns and after a short time display "GRAND PIANO".

CAUTION

Even when the instrument is turned off, AC power is still flowing to the adapter at a minimum level. When you are not using the instrument for a long time or during electrical storms, unplug the AC power cord from the wall outlet.

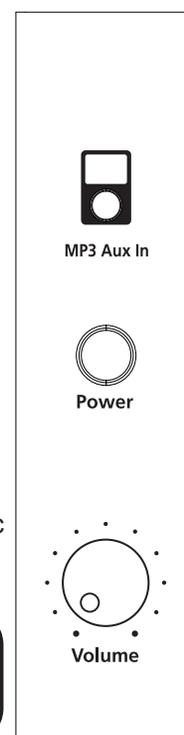
3. Setting the Volume



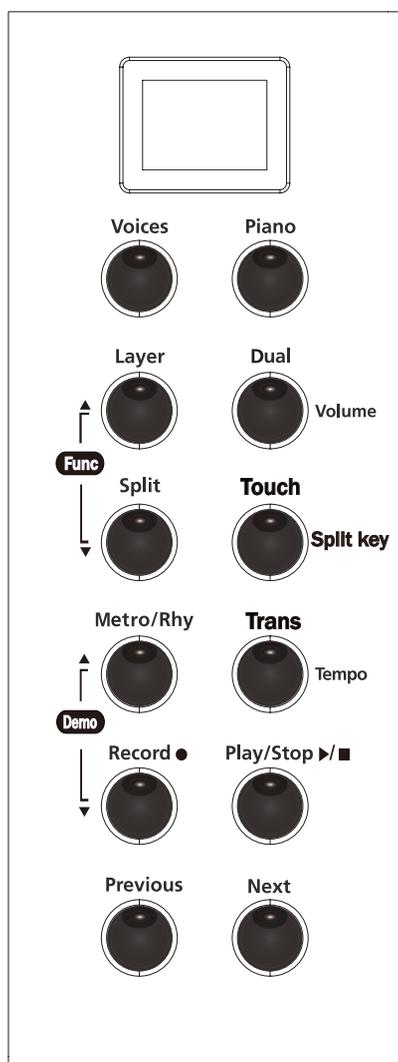
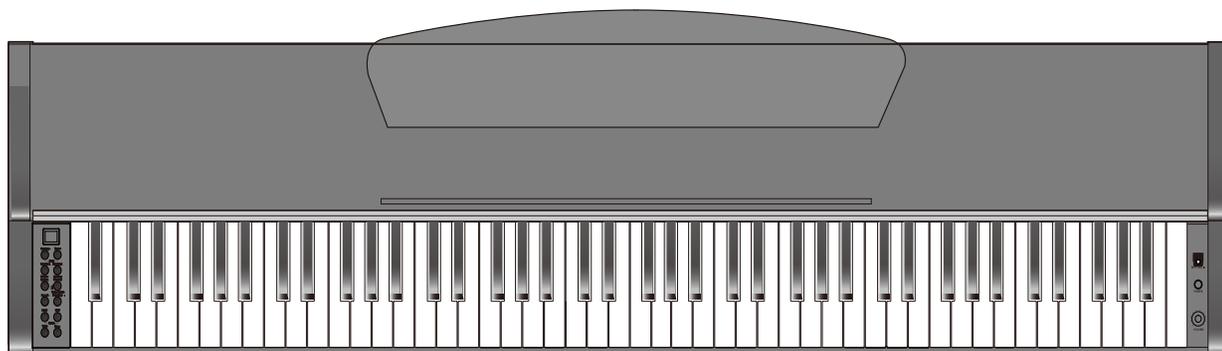
To adjust the volume, use the [Volume] knob located on the right cheek block. Play the keyboard while you adjust the knob to a comfortable and realistic volume.

NOTE

Adjusting the [Volume] knob also affects the output level of the Phones jacks and the output level of the Audio Out jacks.

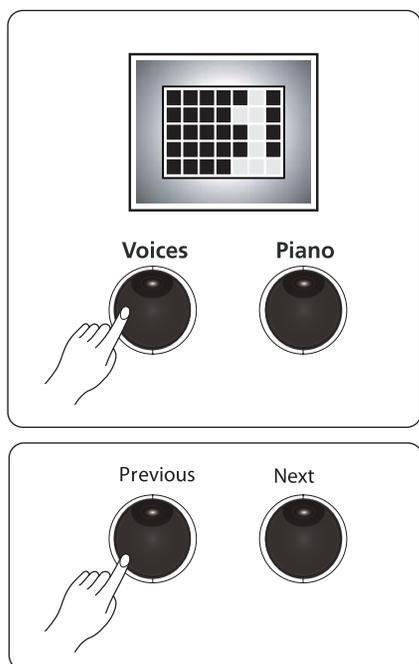


1. Main Buttons



- 1** **Voices button**
 Select up to 30 sound styles. Press the [Voices] button, then use the [Next] or [Previous] button to select the desired sound style.
- 2** **Piano button**
 Select "Grand Piano" sound.
- 3** **Layer button**
 You can layer two voices and play them simultaneously to create a thicker and richer sound.
- 4** **Split button**
 For playing different voices on the left-hand and right-hand section of the keyboard.
- 5** **Demo button**
 You can choose a variety of rhythms to accompany your performance. This system provides 45 sonatines and 50 piano instrumentals.
- 6** **Metronome button**
 Select the Metronome.
- 7** **Record button**
 For recording your keyboard performance.
- 8** **Play/Stop button**
 These control playback of or stop the demonstration songs and your recorded song.
- 9** **Previous button**
 Use these button, you can change voice or choose the settings. The value will be decrease.
- 10** **Next button**
 Use these button, you can change voice or choose the settings. The value will be increase.

1. Selecting Sounds



Use the [Voices] button and the [Piano] button.

- 1) Press the [Voices] button.
- 2) Use the [Previous] or [Next] button to select the desired sound style.

If you want to play the Grand Piano voice immediately, press the [Piano] button to set current voice to No1 "Concert Piano". And then the selected sound name will display.

2. List of Voices

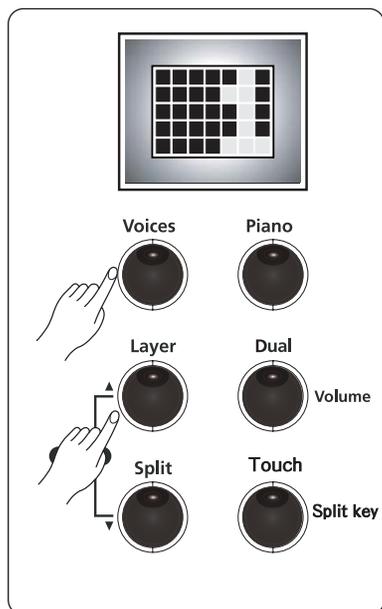
No.	Voice Name
1	Concert Piano
2	Grand Piano
3	E.Piano 1
4	E.Piano 2
5	Harpsichord
6	Vibraphone
7	Pop Organ
8	Church Organ
9	Reed Organ
10	A.Nylon Guitar
11	A.Steel Guitar
12	Overdrive Gt
13	Acoustic Bass
14	Finger E.Bass
15	Slap Bass 1

No.	Voice Name
16	Violin
17	Cello
18	Pizzicato St
19	String Ens.1
20	Synth Sting1
21	Choir Aahs
22	Trumpet
23	Brass Section
24	Alto Sax
25	Oboe
26	Flute
27	Ocarina
28	Fantasia
29	Crystal
30	Standard Set

Chapter 4 Layering

Layering Two Sounds

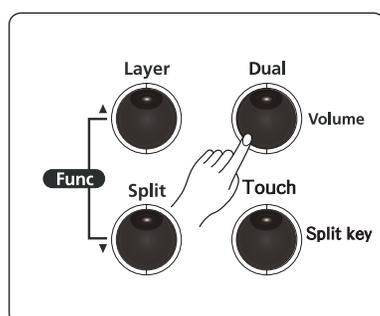
You can layer two different voices in the same category, and create a composite voice of greater richness and texture.



Use the [Voices] or the [Piano] button to select the primary voice.

Press the [Layer] button, and then use the [Voices] or the [Piano] button to select the secondary voice.

The secondary voice number will display.

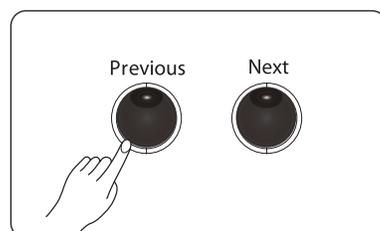


Setting the Layer Volume:

After press the [Layer] button, and press the [Volume] button, and then use the [Previous] or the [Next] button to adjust the Layer volume.

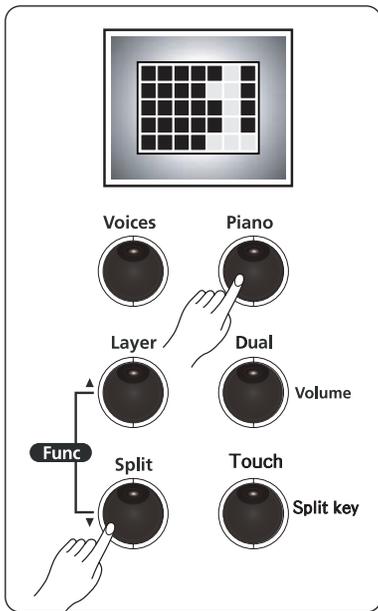
Default volume level: 0

Available control range: -5 ~ +5



1. Splitting the Keyboard

Split mode enables you to play two different voices on the keyboard.

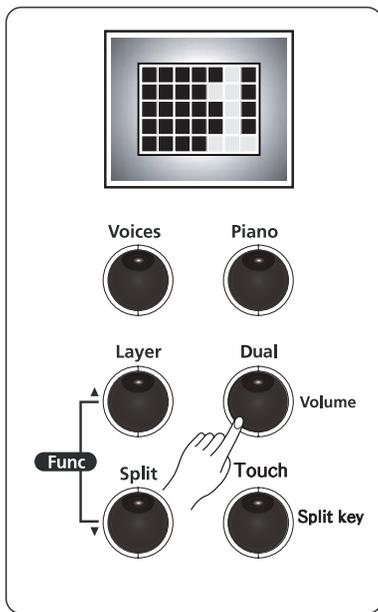
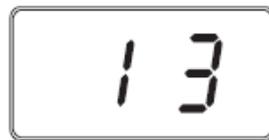


Use the [Voices] button or the [Piano] button to select the primary voice of the upper region on the keyboard.



Press the [Split] button, and use the [Voices] button or the [Piano] button to select the secondary voice.

When press the [Split] button, A. Bass sound is selected in the F3 below.



Split Volume:

After press the [Split] button, and press the [Volume] button, and then use the [Previous] or the [Next] button to adjust the Split point.

Default Split volume level: 0
Available control range: -5 ~ +5

The Split sound is raised automatically one octave.

Split Point:

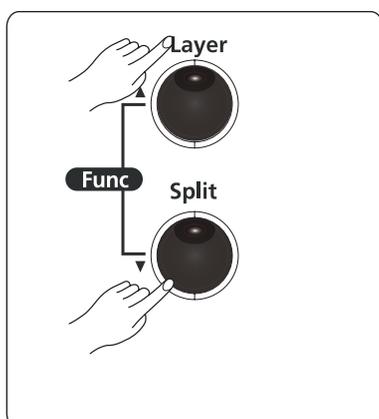
Press the [Split] button, and press one of the keyboard to change the Split point.

Chapter 6 Function

Function Mode

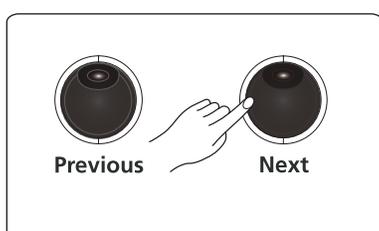
1	Accompaniment	7	Effect Level
2	Style Volume	8	Effect Volume
3	Brilliance	9	Temperaments
4	Tune	10	Demo Repeat
5	Reverb	11	Local Control
6	Reverb Volume		

Selecting a Function



To enter the Function mode, press the [Layer] and the [Split] button at the same time.

Use the [Layer] button or the [Split] button to select the sub menu in function mode.



Use the [Previous] button or [Next] button to adjust the each Sub Menu values.

1. Accompaniment

Turn the Accompaniment function on or off.

Press the [Function] button.

The system will display the "Acc OFF" and the current accompaniment status.

Use the [Previous] or [Next] button to change the Accompaniment mode.

When Accompaniment mode is off, the system will playback the rhythm pattern only.

2. Style Volume

Adjust the Accompaniment Volume level.

Press the [Function] button and use the [Layer] button to select the "Acc Volume".

The default value is 0.

Use the [Previous] or [Next] button to adjust the Rhythm Volume level.

The available control range is -5 to +4.

3. Brilliance

Adjust the Brilliance level.

Press the [Function] button and use the [Layer] button to select the "Brilliance".

The default value is 64.

Use the [Previous] or [Next] button to adjust the Brilliance level.

The available control range is 0 to 127.

4. Tune

Tune the pitch up or down.

Press the [Function] button and use the [Layer] button to select the "Tune".

The default value is 0.

Use the [Previous] or [Next] button to adjust the pitch.

The available control range is -50 to +50.

5. Reverb

Adjust the Reverb.

Press the [Function] button and use the [Layer] button to select the "Reverb".

The default value is Room2.

Use the [Previous] or [Next] button to adjust the value.

The selectable mode is Off, Room1, Room2, Hall1, and Stage.

6. Reverb Level

Adjust the Reverb Volume level.

Press the [Function] button and use the [Layer] button to select the "Reverb Level".

The default value is 20.

Use the [Previous] or [Next] button to adjust the Reverb Volume level.

The available control range is 0 to 127.

7. Effect Type

Adjust the Effect Type.

Press the [Function] button and use the [Layer] button to select the "Effect Type".

The default value is Chorus.

Use the [Previous] or [Next] button to adjust the value.

The selectable mode is Off, Chorus, Phaser, Tremolo, and Rotary.

8. Effect Level

Adjust the Effect level.

Press the [Function] button and use the [Layer] button to select the "Effect Level".

The default value is 0.

Use the [Previous] or [Next] button to adjust the value.

The available control range is 0 to 127.

9. Temperament

Set the Temperament.

Press the [Function] button and use the [Layer] button to select the "Temperament".

The default value is Equal.

Use the [Previous] or [Next] button to change the Temperament.

The selectable mode is Equal, Pythagorean, Pure major, Pure minor, Mean tone, Werckmeister and Kimberger.



Chapter 6 **Function**

10. Demo Repeat

Set the Demo repeat playback mode.

Press the [Function] button and use the [Layer] button to select the "Demo Repeat".

The default value is No.

Use the [Previous] or [Next] button to select the repeat mode.

The available control mode is as below.

- 1) No: When the Demo is finished, the playback is stopped automatically.
- 2) One: Repeat play the current song.
- 3) All: Repeat play all songs.

11. Local Control

Local Control is the connection between keyboard and internal sound producing circuitry (engine).

When Local Control is set to On, the keyboard delivers your performance information to the sound engine, so you can hear the sounds you play. At the same time, the transmits MIDI information via its USB port.

There are, however, cases you need to set Local Control to Off. When using this system with an external MIDI sequencer or computer via MIDI, the system may play the same note twice-once by the direct sound engine connection and once by the "echo" through the sequencer and coming back.

Turn the sound source of the piano on or off.

Press the [Function] button and use the [Layer] button to select the "Local".

The default value is On.

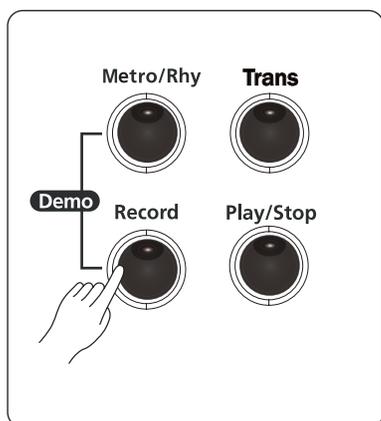
Use the [Previous] or [Next] button to select the value.

The available control mode is On or Off.

Chapter 7 Recording

You can record and play back your performance much like a tape recorder. This function can greatly enhance your composition and performance results.

1. Recording a Performance

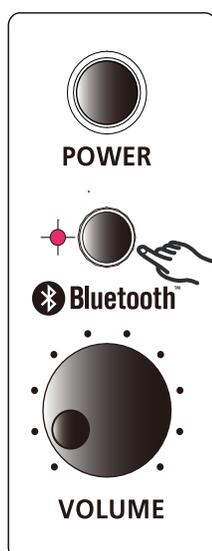


- 1) Press the [Record] button.
- 2) The indicator of the [Record] button will flash, and the indicator of the [Play/Stop] button is light up.
- 3) Start record the performance.
- 4) Press the [Play/Stop] button to stop the recording.
- 5) To start the record, press the [Play/Stop] button again.

2. Erasing a Song

- 1) To erase the song, press the [Record] button and the press and hold the [Play/Stop] button for at least 3 seconds.
- 2) When you record the performance again, the data is overwritten by the most recent data is stored, previous data will be erased.

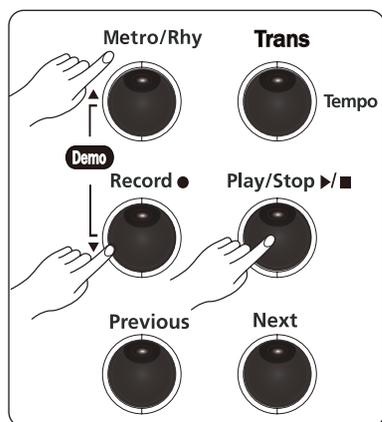
3. Using Bluetooth



You can hear the music within the mobile phone or Youtube using by Bluetooth function.

- 1) Press the [Bluetooth] button. The Bluetooth indicator will flash 3 seconds intervals with beep sound.
- 2) Set your Bluetooth device to search for and pair with this piano.
- 3) A list of detected devices appears in the display of the connecting device. The piano is displayed as "SM-BT Audio" on the connecting device. The Indicator will flash 1 second interval.
- 4) Set the Bluetooth device to connect to this piano.
- 5) Both piano and the Bluetooth device can adjust the volume.
- 6) To disable the Bluetooth, press the [Bluetooth] button.

Listening to Demo Songs



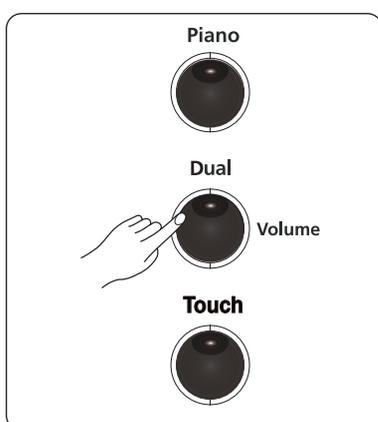
- 1) Press the [Metro/Rhy] button and the [Record] button.
- 2) The indicator of the [Metro/Rhy] and [Record] button will flash.
- 3) Use the [Previous] or [Next] button to select the desired song.
- 4) When press the [Play/Stop] button, Demo song will start play.
- 5) To stop the playback, press the [Play/Stop] button again.

The repeat playback mode is same as "Demo Repeat" in Function Mode.

- 1) No: When the Demo is finished, the playback is stopped automatically.
- 2) One: Repeat play the current song.
- 3) All: Repeat play all songs.

Using Duo Mode

The Duo mode allows two different players to play the instrument, one on the left and one in the right, over the same octave range



Press the [Dual] button.

The "Duo Piano" will display.

Set the sound style and Split point automatically.

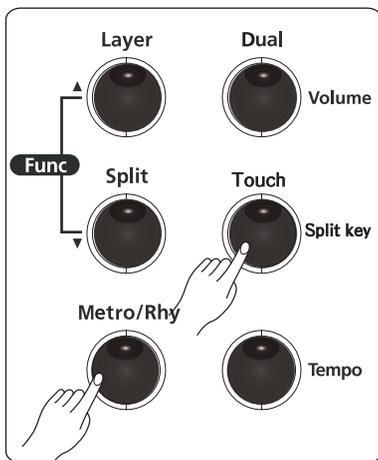
Sound Style: Piano

Split Point: E4 (Lower Region: A1~D#4, Upper Region: E4~C8)

When you play with Duo, Soft pedal operates as the left zone Sustain pedal.

Chapter 9 Metronome/Transpose

Metronome



Press the [Metro/Rhy] button.

Use the [Previous] or [Next] button to select the tempo.

Press the [Play/Stop] button to start the Metronome sound. If you select the Rhythm style, the Rhythm accompaniment will start.

To stop the Metronome or Rhythm, press the [Metro/Rhy] button again.

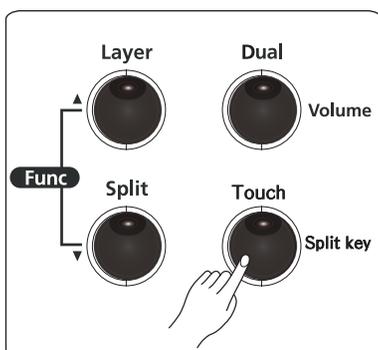
Time Signature:

B1: 2/4, B2: 3/4, B3: 4/4, B5: 6/4, B6: 8/12

Tempo:

During the playback the Metronome or Rhythm, press the [Tempo] button, and use the [Previous] or [Next] button to adjust the Tempo.

Touch Sensitivity



Press the [Touch] button.

The "Normal 3" will display.

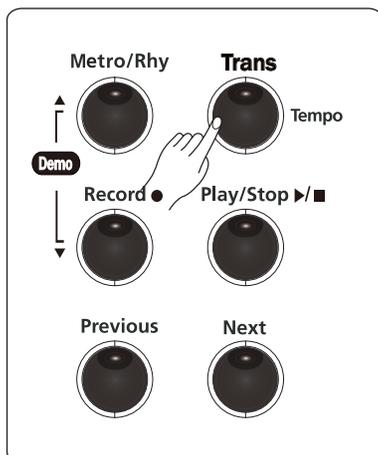
Use the [Previous] or [Next] button to select the value.

The available control mode is as below.

- 1) Soft 1, 2, 3: Progressively lighter touch is needed for loud dynamics.
- 2) Normal 1, 2, 3: Normal.
- 3) Heav 1, 2, 3: Progressively heavier touch is needed for loud dynamics.
- 4) Fixed

Transpose

You can use the Transpose parameter to transpose the entire keyboard in semitone intervals.



Press the [Trans] button.

The "0: Transpose" will display.

Use the [Previous] or [Next] button to to transpose the pitch down or up by semitones.

Press [Previous] and [Next] button at the same time, the setting is reset to the default value.

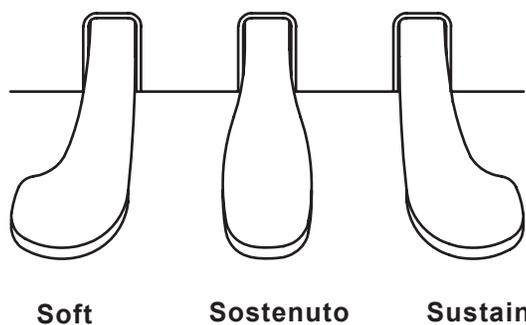
The default value is 0.

The available control range is -12 to +12.

1. Pedals

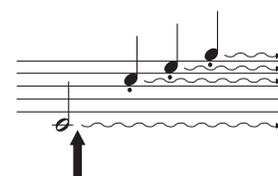
This piano has three foot pedals : damper (sustain) pedal (right), sostenuto pedal (center) and soft pedal (left) that produce a range of expressive effects similar to those produced by the pedals of an acoustic piano.

2. Using the Pedals



1 Sustain Pedal

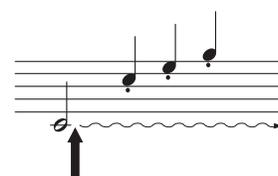
The sustain pedal functions in the same way as a damper pedal on an acoustic piano. When the damper pedal is pressed, notes sustain longer. Releasing the pedal immediately stops any sustained notes.



When you press the sustain pedal here, the notes you play before you release the pedal sustain longer.

2 Sostenuto Pedal

If you play a note or chord on the keyboard and press the sostenuto pedal while the notes are held, those notes will sustain as long as you hold the pedal (as if the damper pedal had been pressed) 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".



When you press the sostenuto pedal here while holding the note, the note will sustain as long as hold the pedal.

3 Soft Pedal

The soft pedal reduces the volume and slightly changes the timbre of notes played while the pedal is pressed. The soft pedal will not affect notes that are already playing when it is pressed.

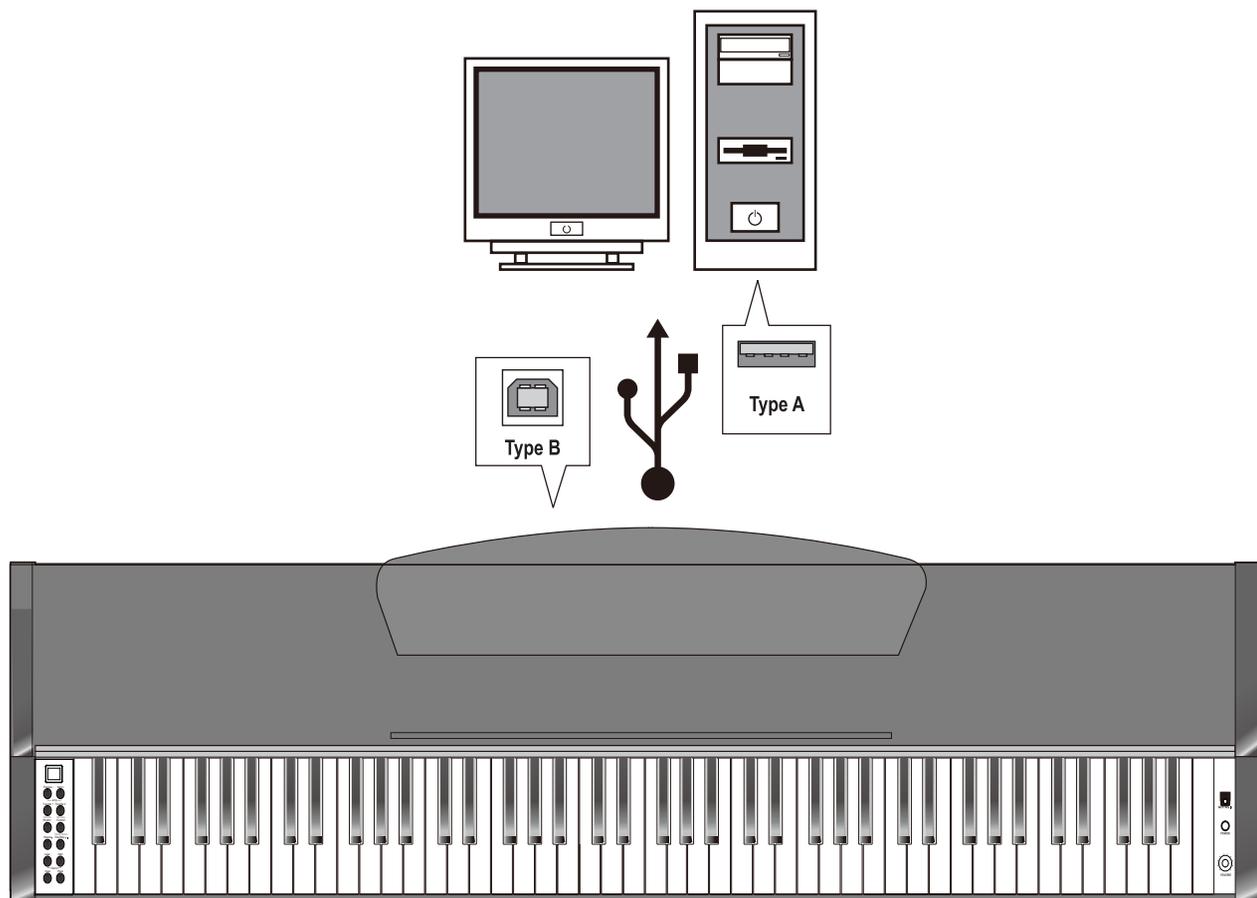
NOTE If the pedal doesn't work, make sure that the pedal cord is properly plugged into the main unit (see page 10). Also, avoid pressing any pedals while the piano booting.

Chapter 11 MIDI

MIDI is acronym for Musical Instrument Digital Interface, which is an industry standard protocol for electronic instruments to communicate with each other.

1. Connecting to a Computer

The instrument can be connected to the computer via a USB cable (AB type USB cable of less than 3 meters). Connect the USB cable to the USB Type B terminal of the instrument, then to the USB Type A terminal of the computer.



2. MIDI Channel

A MIDI cable can transmit multiple channels of performance data which is similar to TV channels. Each channel can be assigned its own voice. Typical MIDI instruments can play up to 16 channels at the same time which is equivalent to 16 soloists.



If you want to use your piano and record your performances with a computer, a sequencer program must be installed on your computer.



MIDI Implementation Chart

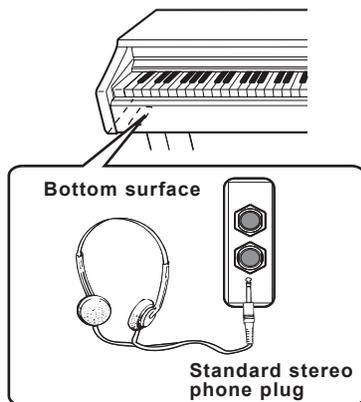
Manufacturer:
YOUNG CHANG Co, LTD.

Date : 2015.2.15
Version 1.0

Function	Transmitted	Recognized	Remarks
Basic Channel	Default	1	Memorized
	Changed	1 - 16	
Mode	Default	Mode 3	Use Multi mode for multi-timbral applications
	Messages		
	Altered		
Note Number		0 - 127	
	True Voice	0 - 127	
Velocity	Note ON	O	
	Note OFF	X	
After Touch	Keys	X	
	Channels	O	
Pitch Bender		O	
Control Change	O 0 - 31 32 - 63 (LSB) 64 - 127	O 0 - 31 32 - 63 (LSB) 64 - 127	
Program Change		O 0 - 20	
	True #	0 - 127	
System Exclusive	O	O*	
System Common	Song Pos.	O	
	Song Sel.	O	
	Tune	X	
System Real Time	Clock	O	
	Messages	O	
Aux Messages	Local Control	O	
	All Notes Off	O	
	Active Sense	O	
	Reset	X	
Notes			

1. Using Headphones

Connect a pair of headphones to one of the phones jacks. Two phones jacks are provided. You can connect two sets of standard stereo headphones. (If you are using one pair headphones, you can plug them into either of these jacks).



CAUTION
Do not use headphones at a high volume for an extended time. Doing so may cause hearing loss.

2. Audio In (Aux In)

You can connect the output jacks of an external device (such as CD player, tone generator) to the instrument's Aux In jacks, letting you hear the sound of that device through the built in speakers of the instrument.

3. Audio Out (Aux Out)

You can connect a stereo system to amplify the instrument's sound by using the Aux Out jacks. When the instrument's sound is output to an external device, first turn on the power to the instrument, then to the external device. Reverse this order when you turn the power off.



4. MP3 Aux In

You can connect the output jack of an MP3 player or smart phone to the instrument's MP3 Aux In jack on the right cheek block. Do not use Audio In and MP3 Aux In at the same time.



CAUTION
When you connect the cable to the piano, please turn the piano's power off first. Otherwise, loud noise may occur while connecting the cable.

Chapter 13 Drumset

		Animal & Nature
A 0		
A# 0		
B 0		
C 1		
C# 1		
D 1		
D# 1	High Q	
E 1	Slap	
F 1	Stratch Push	
F# 1	Stratch Pull	
G 1	Sticks	
G# 1	Square Click	
A 1	Metronome Click	
A# 1	Metronome Bell	
B 1	Bass Drum 2 (Acoust)	
C 2	Bass Drum 1 (Rock)	
C# 2	Side Stick	
D 2	Snare Drum 1	
D# 2	Hand Clap	
E 2	Snare Drum 2	
F 2	Low Floor Tom	
F# 2	Closed Hi Hat (EXC 1)	
G 2	Hi Floor Tom	
G# 2	Pedal Hi Hat (EXC 1)	
A 2	Low Tom	
A# 2	Open Hi Hat (EXC 1)	
B 2	Low-Mid Tom	
C 3	Hi Mid Tom	
C# 3	Crash Cymbal 1	
D 3	High Tom	
D# 3	Ride Cymbal 1	
E 3	Chines Cymbal	
F 3	Ride Bell	
F# 3	Tambourine	
G 3	Splash Cymbal	
G# 3	Cowbell	
A 3	Craxh Cymbal 2	Lion
A# 3	Vibraslap	
B 3	Ride Cymbal 2	Tiger
C 4	Hi Bongo	Cow
C# 4	Lo BOngo	
D 4	Mute Hi Conga	Horse
D# 4	Open Hi Conga	
E 4	Low Conga	Horse Gallop
F 4	Hi Timbal	Dog
F# 4	Low Timbal	
G 4	High Agogo	Duck
G# 4	Low Agogo	
A 4	Cabasa	Goat
A# 4	Maracas	
B 4	Short Whistle (EXC 2)	Cuckoo
C 5	Low Whistle (EXC 2)	Cock
C# 5	Short Guiro (EXC 3)	
D 5	Long Guiro (EXC 3)	Hen
D# 5	Claves	
E 5	Hi Wood Block	Cat
F 5	Low Wood Block	Bird
F# 5	Mute Cuica (EXC 4)	
G 5	Open Cuica (EXC 4)	Goose
G# 5	Mute Triangle (EXC 5)	
A 5	Open Triangle (EXC 5)	Sheep
A# 5	Shaker	
B 5	Jingle Bell	Pig
C 6	Belltree	Rain
C# 6	Castanets	
D 6	Mute Surdo (ESC 6)	Wind
D# 6	Open Surdo (ESC 6)	
E 6		Thunder
F 6		Stream
F# 6		
G 6		Seashore
G# 6		
A 6		Applause
A# 6		
B 6		Bell
C 7		Ring
C# 7		
D 7		Intercom
D# 7		
E 7		Car string
F 7		Horn
F# 7		
G 7		Patrol car
G# 7		
A 7		Train
A# 7		
B 7		Helicopter
C 8		Boat

Chapter 14 Demo Song List

1		Prelude I BWV 846	J.S.Bach
2		Invention No.4	J.S.Bach
3		Invention No.8	J.S.Bach
4	BMV 847	Prelude II BWV 847	J.S.Bach
5		ARIA Goldenberg-Variationen BMW 988	J.S.Bach
6	BMV 848	Fuga II (A3 VOCl)	J.S.Bach
7	Op36, No4	Sonatine Op.36 No.4	M.Clementi
8	K15v	Klavierstück K. 15v	W.A. Mozart
9	K333	Piano Sonate K.333 1st mov.	W.A. Mozart
10	K485	Rondo in D-dur K.485	W.A. Mozart
11		Piano Sonate K.331 Rondo Turkish March	W.A. Mozart
12	K545	Piano Sonate K.545 1st mov.	W.A. Mozart
13		Minuette in G	L.v. Beethoven
14		Bagatelle No.25 Fur Elise	L.v. Beethoven
15	Op55, No. 1	Sonatine Op.55 No.1	Fr.Kuhlau
16		March Militaire Op.51 No.1	F.P.Schubert
17	Op94 - 3	Moments Musicaux 3.	F.P.Schubert
18	Op90 - 2	Impromptu Op.90 N0.2	F.P.Schubert
19	Op90 - 4	Impromptu Op.90 N0.4	F.P.Schubert
20		La chevaleresque	J.F.Buramu ler
21	Op38.No.2	Without words song Op.38 No.2	J.L.F.Mendelssohn
22	Op30.No.6	Venetianisches Zgondellied	J.L.F.Mendelssohn
23	KK Ivb-10	Sostenuto	F.F.Chopin
24	KK Ivb-11	Valse KK IVB-11	F.F.Chopin
25	Op.7.No.1	5 Mazurkas I Op.7 N0.1	F.F.Chopin
26	Op.69-2	Valse Op.69 No.2	F.F.Chopin
27	Op18	Grande Valse Brillante Op.18	F.F.Chopin
28		Valse Op.64. No.2	F.F.Chopin
29	Op9. No.2	Noctutne Op.9 N0.2	F.F.Chopin
30	Op64 No.1	Valse Op.64 No.1	F.F.Chopin
31	Op28.No.15	Preludes in Db Maior Op.28 No.15	F.F.Chopin
32	Op66	Fantaisie-Impromptu Op.66	F.F.Chopin
33	Op15-7	Traumerei	R. Schumann
34		Frolicher Landmann Op.68-10	R. Schumann
35	Op15	Von fremden Landern und Menschen Op.1	R. Schumann
36		Liebestraume Nr.3	F. Liszt
37		Dolly's Dreaming And Awakening	T. Oesten
38	Op410	Fryhlingsstimmen Op.410	J. Strauss
39		The Swan	Saint-Saens
40		Blumenlied	G. Lange
41		Valsette	F. Borowski
42	Op39, No.16	Old French Air	P.I.Tchaikovsky
43	Op39, No.10	Mazurka	P.I.Tchaikovsky
44		Polka	P.I.Tchaikovsky
45		Barcarolle	P.I.Tchaikovsky
46	Op101-7	Humoreska	A. Dvor A k
47	Op46-3	Suite Peer Gynt Op.46-3 Anitras Tanz	E. Grieg
48	L75	Suite Bergamasque Prelude	C.A.Debussy
49		Reverie	C.A.Debussy
50		Arabesque	C.A.Debussy

Chapter 15 Sonatine, Rhythm List

Sonatine

F. KUHLAU	Select No	W.A. MOZART	Select No
OP.20 NO.1-1	1	K.545-1	37
OP.20 NO.1-2	2	K.545-2	38
OP.20 NO.1-3	3	K.545-3	39
OP.20 NO.2-1	4	L.V. BEETHOVEN	Select No
OP.20 NO.2-2	5	OP.49 NO.2-1	40
OP.20 NO.2-3	6	OP.49 NO.2-2	41
OP.20 NO.3-1	7	OP.49 NO.1-1	42
OP.20 NO.3-2	8	OP.49 NO.1-2	43
OP.20 NO.3-3	9	J.L. DUSSEK	Select No
OP.55 NO.1-1	10	OP.20 NO.1-1	44
OP.55 NO.1-2	11	OP.20 NO.1-2	45
OP.55 NO.2-1	12		
OP.55 NO.2-2	13		
OP.55 NO.2-3	14		
OP.55 NO.3-1	15		
OP.55 NO.3-2	16		
M. CLEMENTI	Select No		
OP.36 NO.1-1	17		
OP.36 NO.1-2	18		
OP.36 NO.1-3	19		
OP.36 NO.2-1	20		
OP.36 NO.2-2	21		
OP.36 NO.2-3	22		
OP.36 NO.3-1	23		
OP.36 NO.3-2	24		
OP.36 NO.3-3	25		
OP.36 NO.4-1	26		
OP.36 NO.4-2	27		
OP.36 NO.4-3	28		
OP.36 NO.5-1	29		
OP.36 NO.5-2	30		
OP.36 NO.5-3	31		
OP.36 NO.6-1	32		
OP.36 NO.6-2	33		
J.HAYDN	Select No		
HOB.16-35-1	34		
HOB.16-35-2	35		
HOB.16-35-3	36		

Rhythm List

No	Rhythm	No	Rhythm
1	home Beat	13	Groove
2	Rhythm Beat	14	Euro Beat
3	Party Dance	15	Reggae
4	Love Disco	16	Rumba
5	Soft Rock	17	8 Beat
6	Slow Rock	18	16 Beat
7	Pop 1	19	ChaCha
8	Pop Polka	20	Bosanoba
9	Acid Jazz	21	Samba Disco
10	Sweet Beat	22	Fox Trot
11	Hard Rock	23	March
12	Swing Rock	24	Waltz

Chapter 16 Specifications

Keyboard	88 note fully weighted Graded Hammer action (A0~C8)
Finish	Simulated Rose wood or White
Cabinet	Pattern type
ToneGen.	Kurzweil V.A.S.T
Polyphony	128 Voices
Sounds	30 Programs
Rhythm	30 Patterns
PlayMode	Layer, Split
Education	Bayer, Czerny 100,30,40, Sonatine
DemoSongs	50 PianoMasterpieces,Sonatine 45
Pedals	3 (Sustain, Soft, Sostenuato)
Display	5x7 Dot scrolling marix LED
Others	Volume, Tune, Transpose, Metronome
Connectors	MP3 Aux In, Audio In/Out, USB Slave,Bluetooth
AudioPower	20W x 2, 8 Ohms
Speakers	6.5" x 2 full-range (Ovaltype)
Dimensions	1400 x 470 x 850(W x D x H)

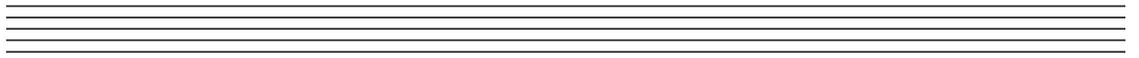


Memo

Memo



Memo





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www.kurzweil.com

KURZWEIL

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