

KURZWEIL

M100
USER'S
MANUAL

English Manual

HDC YOUNG CHANG
MUSIC

KURZWEIL

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.



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

**Congratulations on your purchase of the M100.
You will find it easy to learn, but it is equipped with
sensitive components inside of it. Be sure to read
the manual carefully as you continue to familiarize
yourself with the features and functions of the M100.
Thank you.**

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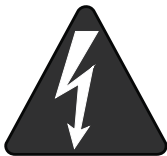
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Power Supply

If your power outlet is not the standard above, it is recommended you use an appropriate adaptor.

For perfect operation and security, please read the manual carefully and keep it for future reference.

Warning



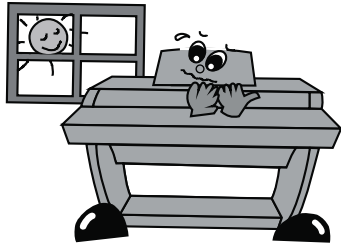
- 1) To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 2) Please connect the designated AC adaptor to an AC outlet of the correct voltage.
- 3) This product should only be used with a standard voltage, if not, please use an appropriate adaptor that is recommended by the manufacturer.
- 4) When you replace a fuse, only use a proper one.
- 5) Please open and close the keyboard cover carefully not to catch/trap hands or fingers.

Caution

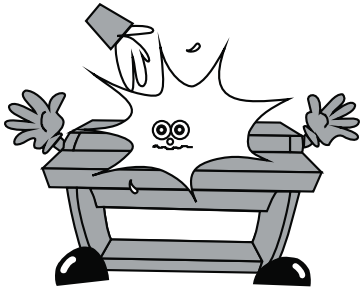


- 1) Avoid a severe shock to reduce the risk of a trouble.
- 2) Protect the keyboard and switches when they are moved.
- 3) Ensure the volume to the minimum level before turn on the keyboard.
- 4) Do not open inside. This product contains precision parts inside, so unnecessary touch could cause a breakdown or an accident.
- 5) Turn off the power after use.
- 6) Unplug this apparatus when unused for long periods of time.
- 7) Do not apply excess force to the buttons and switches.

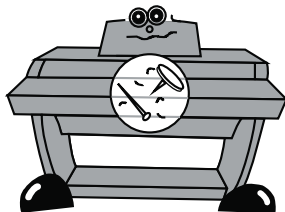
Installation Site and Precautions



- Avoid direct sunlight.
- Avoid extreme temperature or humidity.
- Avoid excessive dusty or dirty location.
- Do not place near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



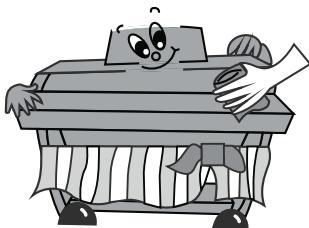
- Do not place objects, such as vases, glasses, and coffee cups, on the product.



- Do not let paper, metallic, or other objects into the instrument.



- Do not open inside personally. When repair is needed, please contact the Kurzweil A/S center.

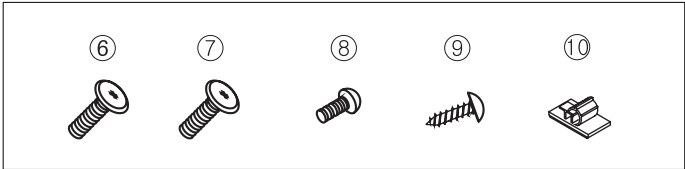
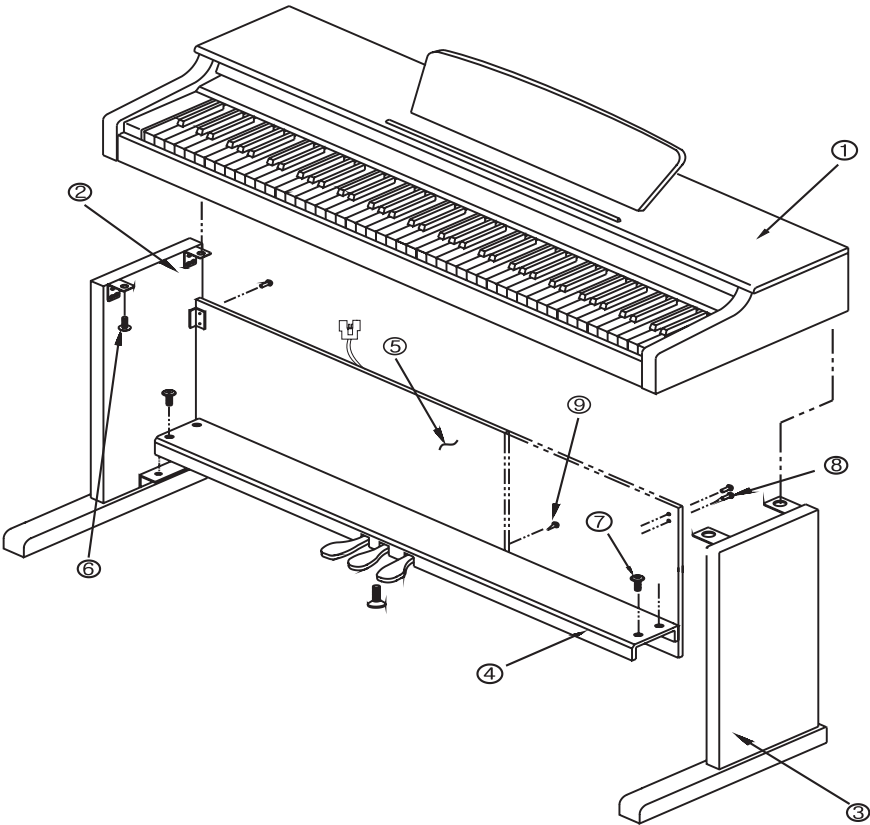


- Clean only with a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Chapter 2 Piano Assembly

Check that all of the following items are present.

Part Name	Q'ty	Part Name	Q'ty
① Keyboard	1 EA	⑥ Screws for side panel and keyboard (25mm)	4 EA
② Side panel of stand (Left)	1 EA	⑦ Screws for side panel and pedal box (25mm)	4 EA
③ Side panel of stand (Right)	1 EA	⑧ Screws for side panel and rear panel	4 EA
④ Pedal box	1 EA	⑨ Screws for rear panel	4 EA
⑤ Rear panel	1 EA	⑩ Cord holder	2 EA



Please check the quantity of related part.

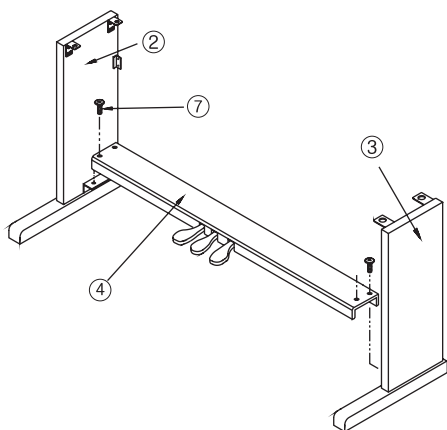
Chapter 2 Piano Assembly

1. Stand Assembly



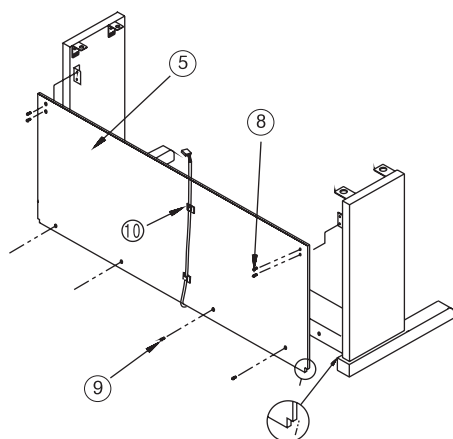
- Assembly should be carried out by at least two persons.
- Assemble the stand on a hard and flat floor with ample space.
- Be sure to use the included screws, and insert screws of the correct size in the correct hole locations. Use of incorrect screws can damage the product.

1) Side Panel and Pedal Box assembly

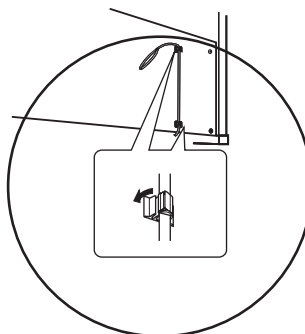


1. Place the pedal box ④ on the left side panel ② and use ⑦ screws to fasten the side panel.
2. Place the pedal box ④ on the right side panel ③ and use ⑦ screws to fasten the side panel.
3. You can find the pedal cable in the pedal box ④. Untie and straighten out the bundled pedal cable.

2) Rear Panel assembly

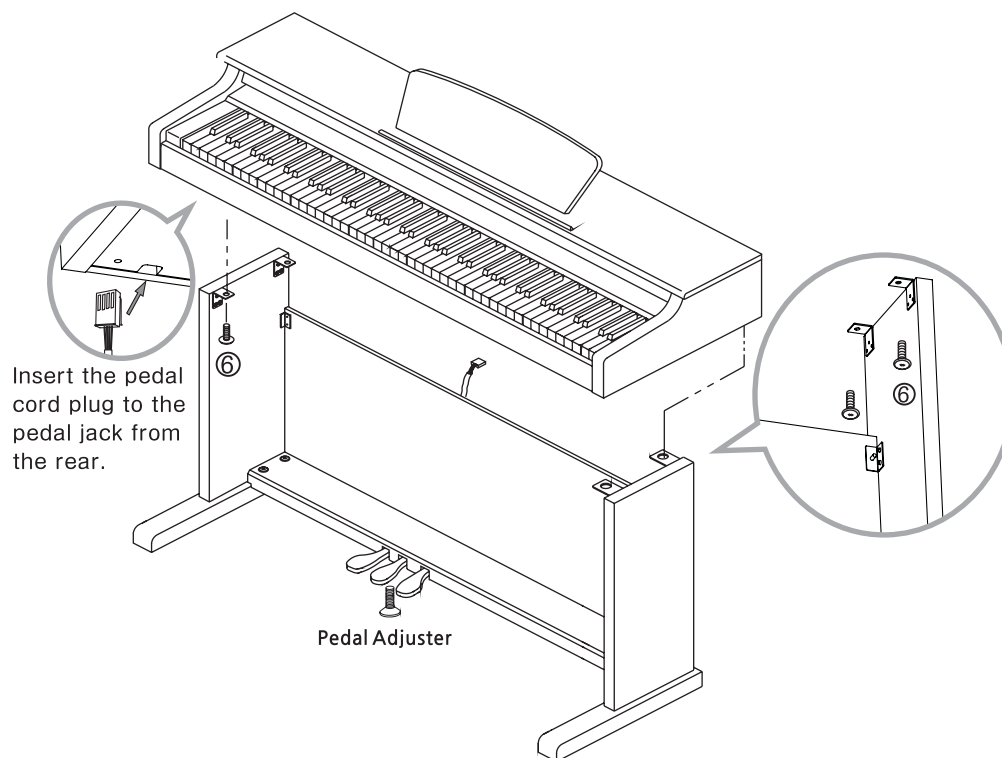


1. Fit into the rear panel's hole in the side panel brackets and then use the screws ⑧ to fasten the rear panel.
2. Use the screws ⑨ to fasten the bottom of the rear panel.



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

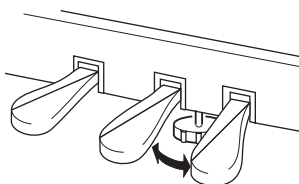
3) Mounting the keyboard



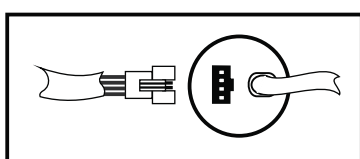
1. Place the keyboard on the stand and fit into the holes in the side panel brackets.
2. Fasten the keyboard to the side panel using screws ⑥.

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

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



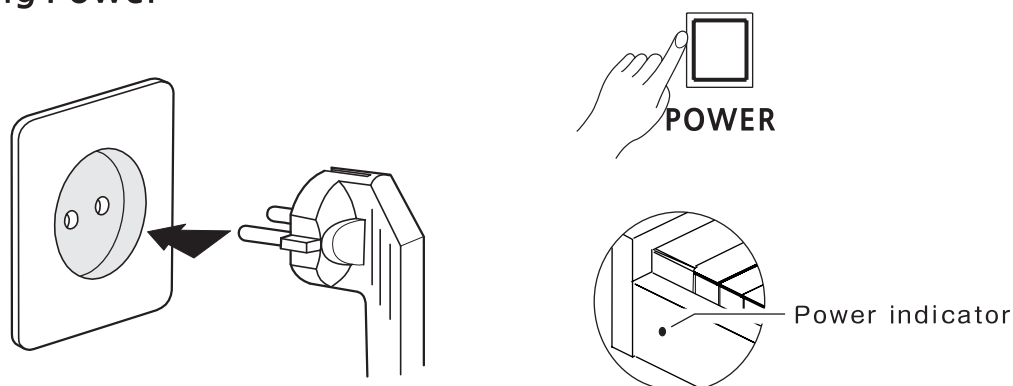
4. Rotate the pedal adjuster until it comes in firm contact with the floor surface.
If the adjuster is not in firm contact with the floor, the pedals will wobble and may malfunction.



How to connect the Pedal cable

Insert the pin until it sounds like "Tick". If the pin is bent or is not completely connected, the pedal will not work.

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.

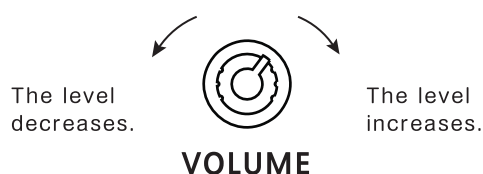
3) Turn the power on

Press the power switch located on the bottom left of keyboard to turn the power on. The power indicator located at the left end of the keyslip lights up.

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.

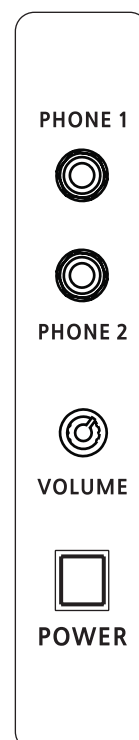
3. Setting the Volume

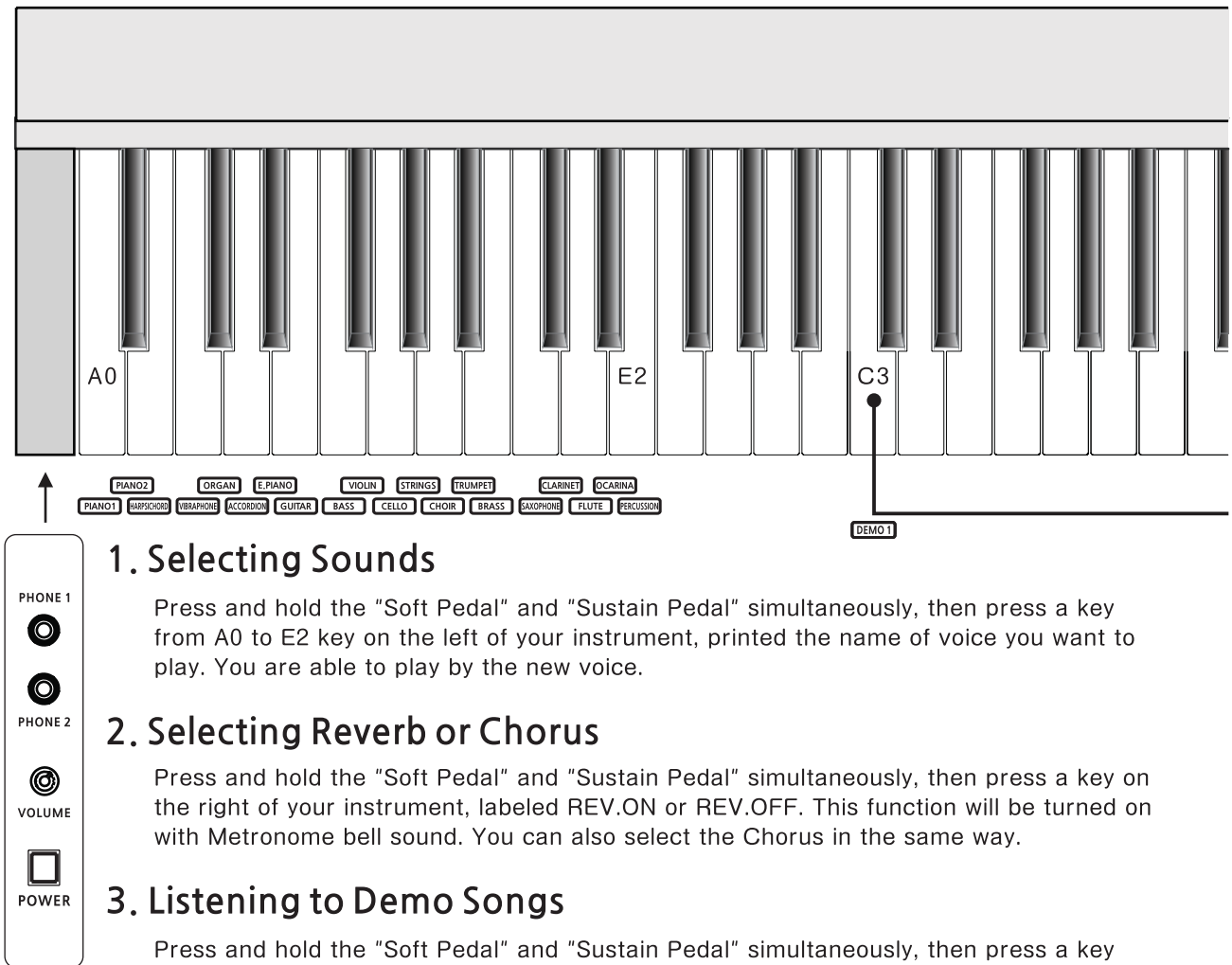


To adjust the volume, use the [Volume] knob located on the bottom left of keyboard. Play the keyboard while you adjust the knob to a comfortable and realistic volume.

NOTE

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





1. Selecting Sounds

Press and hold the "Soft Pedal" and "Sustain Pedal" simultaneously, then press a key from A0 to E2 key on the left of your instrument, printed the name of voice you want to play. You are able to play by the new voice.

2. Selecting Reverb or Chorus

Press and hold the "Soft Pedal" and "Sustain Pedal" simultaneously, then press a key on the right of your instrument, labeled REV.ON or REV.OFF. This function will be turned on with Metronome bell sound. You can also select the Chorus in the same way.

3. Listening to Demo Songs

Press and hold the "Soft Pedal" and "Sustain Pedal" simultaneously, then press a key from C3 to C#7 key on the center of your instrument to start playback. Press and hold the "Soft Pedal" and "Sustain Pedal" again to stop playback.

4. List of Voices

No.	Voices	No.	Voices
1	Piano 1	11	Cello
2	Piano 2	12	Strings
3	Harpsichord	13	Choir
4	Vibraphone	14	Trumpet
5	Organ	15	Brass
6	Accordion	16	Saxophone
7	E.Piano	17	Clarinet
8	Guitar	18	Flute
9	Bass	19	Ocarina
10	Violin	20	Percussion

5. Auto Power Off

The M100 is automatically turn off the power if you are not playing during 2 hour. Do not want to Auto Power Off function, press and hold the "C8" key when you power switch on, then Auto Power mode will be Off.



6. List of Demo Songs

No.	Song Name	Composer
1	Prelude I	J.S.Bach
2	Invention No.4	J.S.Bach
3	Invention No.8	J.S.Bach
4	Prelude II	J.S.Bach
5	Aria Goldberg	J.S.Bach
6	Fuga II	J.S.Bach
7	Sonatine Op.36	M.Clementi
8	Klavierstück	W.A.Mozart
9	Piano Sonate	W.A.Mozart
10	Rondo in D	W.A.Mozart
11	Piano Sonate K.3	W.A.Mozart
12	Piano Sonate K.5	W.A.Mozart
13	Minuet in G	L.V.Beethoven
14	Bagatelle No. 25	L.V.Beethoven
15	Sonatine Op.55	Fr. Kuhlau
16	March Militaire	F.P.Schubert
17	Moments Musicaux	F.P.Schubert
18	Impromptu No. 2	F.P.Schubert
19	Impromptu No. 4	F.P.Schubert
20	La Ch evaleresque	J.F.Burgmuller
21	Without words	J.L.F.Mendelssohn
22	Venetianisches	J.L.F.Mendelssohn
23	Sostenuto G#2	F.F.Chopin
24	Valse KK	F.F.Chopin
25	5 Mazurkas	F.F.Chopin

No.	Song Name	Composer
26	Valse Op.69 No.2	F.F.Chopin
27	Grande Valse	F.F.Chopin
28	Valse Op.64 No.2	F.F.Chopin
29	Nocturne No.2	F.F.Chopin
30	Valse Op.64 No.1	F.F.Chopin
31	Preludes in Db	F.F.Chopin
32	Fantaisie-Improm	F.F.Chopin
33	Traumerei	R.Schumann
34	Fröhlicher landmann	R.Schumann
35	Von Fremden Land	R.Schumann
36	Liebestraum #3	F.Lisz
37	Dolly's Dreaming	T.Oesten
38	Frühlingsstimmen	J.Strauss
39	The Swan	Saint-Saëns
40	Blumenlied	G.Lange
41	Valsette	F.Borowski
42	Old French Air	P.I.Tchaikovsky
43	Mazurka	P.I.Tchaikovsky
44	Polka	P.I.Tchaikovsky
45	Barcarolle	P.I.Tchaikovsky
46	Humoreska	A.Dvorak
47	Suite Peer Gynt	E.Grieg
48	Suite Bergamasque	C.A.Debussy
49	Reverie	C.A.Debussy
50	Arabesque	C.A.Debussy

7. Percussion Placement

	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	Crash Cymbal 2
	A# 3	Vibraslap
	B 3	Ride Cymbal 2
	C 4	Hi Bongo
C 4	C# 4	Lo Bongo
	D 4	Mute Hi Conga
	D# 4	Open Hi Conga
	E 4	Low Conga
	F 4	Hi Timbal
	F# 4	Low Timbal
	G 4	High Agogo
	G# 4	Low Agogo
	A 4	Cabasa
	A# 4	Maracas
	B 4	Short Whistle (EXC 2)
	C 5	Low Whistle (EXC 2)
	C# 5	Short Guiro (EXC 3)
	D 5	Long Guiro (EXC 3)
	D# 5	Claves
	E 5	Hi Wood Block
	F 5	Low Wood Block
	F# 5	Mute Cuica (EXC 4)
	G 5	Open Cuica (EXC 4)
	G# 5	Mute Triangle (EXC 5)
	A 5	Open Triangle (EXC 5)
	A# 5	Shaker
	B 5	Jingle Bell
	C 6	Belltrees
	C# 6	Castanets
	D 6	Mute Surdo (ESC 6)
	D# 6	Open Surdo (ESC 6)
	E 6	
	F 6	
	F# 6	
	G 6	
	G# 6	
	A 6	
	A# 6	
	B 6	
	C 7	
	C# 7	
	D 7	
	D# 7	
	E 7	
	F 7	
	F# 7	
	G 7	
	G# 7	
	A 7	
	A# 7	
	B 7	
	C 8	

8. MIDI Implementation Chart

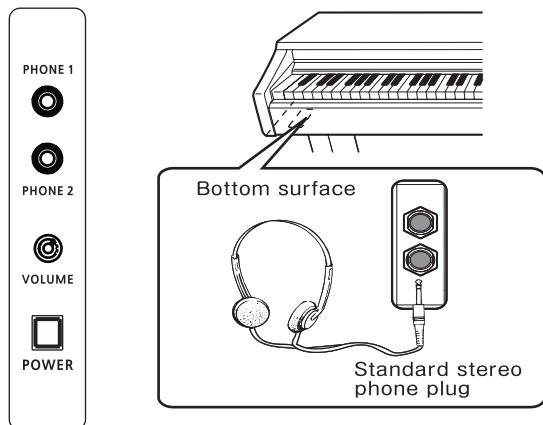
Manufacturer:
KURZWEIL

Date : 3/15/2017
Version 1.0

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1	Memorized
	Changed	1 - 16	1 - 16	
Mode	Default	Mode 3	Mode 3	Use Multi mode for multi-timbral applications
	Messages			
	Altered			
Note Number			0 - 127	
	True Voice	0 - 127	0 - 127	
Velocity	Note ON	O	O	
	Note OFF	O	O	
After Touch	Keys	X	X	
	Channels	X	O	
Pitch Bender		X	O	
Control Change		O 0 - 31 32 - 63 (LSB) 64 - 127	O 0 - 31 32 - 63 (LSB) 64 - 127	
Program Change		O 0 - 19	O 0 - 19	
	True #	0 - 127	0 - 127	
System Exclusive ID : 18		O	O*	
System Common	Song Pos.	O	O	
	Song Sel.	O	O	
	Tune	X	X	
System Real Time	Clock	O	O	
	Messages	O	O	
Aux Messages	Local Control	X	O	
	All Notes Off	X	O	
	Active Sense	X	X	
	Reset	X	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 of pair headphones, you can plug them into either of these jacks).



CAUTION

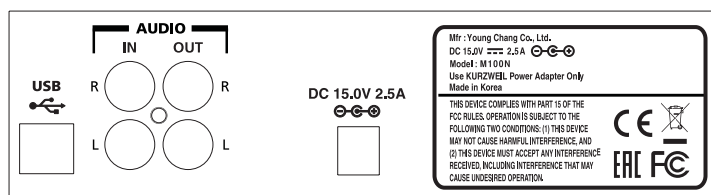
Do not use headphones at a high volume for an extended time. Doing so may cause hearing loss.

2. Audio In (Aux In)

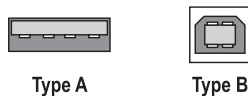
You can connect the output jacks of an external device (such as CD player, tone generator) to the instrument's Aux In jacks, letting you hear the sound of that device through the built-in speakers of the instrument.

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. Connecting to a Computer



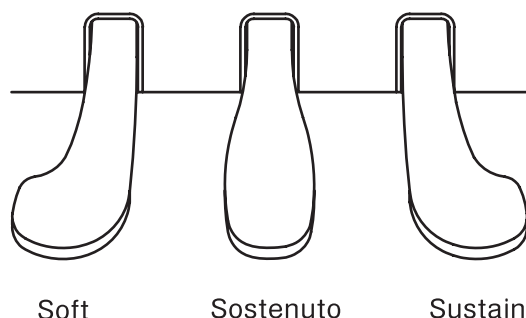
The instrument can be connected to the computer via a USB cable (AB type USB cable of less than 3 meters).

Connect the USB cable to the USB Type B terminal of the instrument, then to the USB Type A terminal of the computer.

1. Pedals

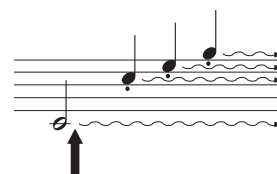
This piano has three foot pedals : damper(sustain) pedal (right), sostenuto pedal (center) and soft pedal (left) that produce a range of expressive effects like those produced by the pedals of an acoustic piano.

2. Using the Pedals



1) Sustain pedal

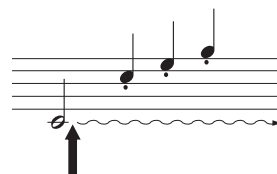
The sustain pedal functions in the same way as a damper pedal on an acoustic piano. When the damper pedal is pressed, notes sustain longer. Releasing the pedal immediately stops any sustained notes.



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)

Keyboard	88 Dynamic Touch Hammer action keys
Finish	Simulated Rosewood or White
Cabinet	Pattern type
Polyphony	81 Voices
Sound	20 Voices (Available 128 GM with USB MIDI)
Demo Songs	50 Piano Masterpieces
Pedals	3 (Sustain, Soft, Sostenuto)
Others	Reverb, Chorus, Auto Power Off
Connectors	Audio In/Out, USB MIDI
Audio Power	15W x 2, 8 Ohms
Speaker	5.7" x 2 Full-Range (Oval Type)
Dimension	1384 x 425 x 876 (W x D X H)

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