

**KURZWEIL®**

# M70

# USER'S

# MANUAL

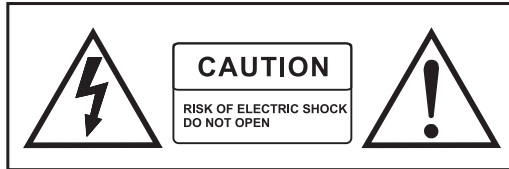
English Manual

**HDC YOUNG CHANG**

# Precaution

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.

## 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 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 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 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.

**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.

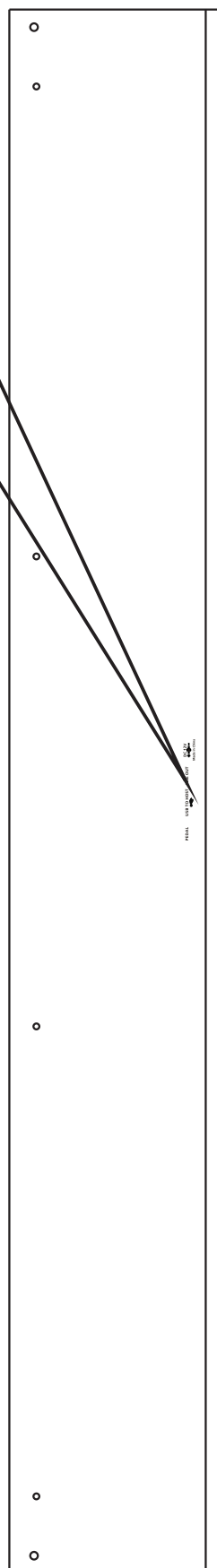
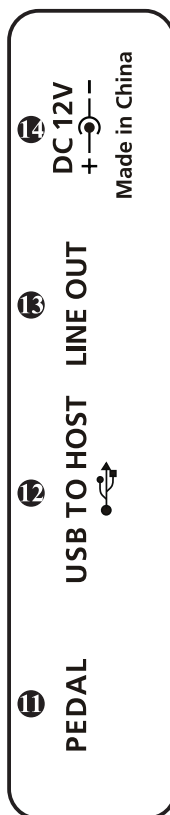
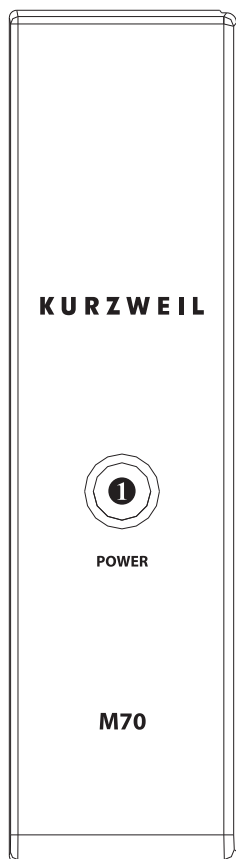
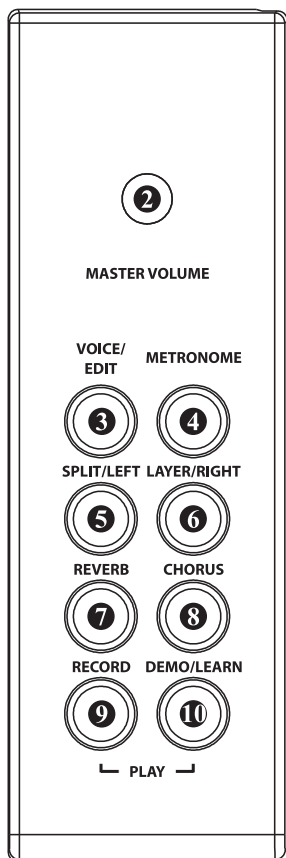
# **Thanks For Using Our Digital Piano**

Your piano is a high-quality digital piano with 88 standard size touch sensitivity keyboard and combines the most advanced PCM tone generation technology. To satisfy your diversified demand, your instrument has multi-track recording, memory, and USB Audio functions and can let you enjoy a perfect digitized sound stage effect.

In order to obtain maximum performance and enjoyment, please read this manual thoroughly while trying out the various features described.

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# Panel Contents

## Top Panel

- 1) POWER
- 2) MASTER VOLUME
- 3) [VOICE/EDIT] Button
- 4) [METRONOME] Button
- 5) [SPLIT /LEFT] Button
- 6) [LAYER/RIGHT] Button
- 7) [REVERB] Button
- 8) [CHORUS] Button
- 9) [RECORD] Button
- 10) [DEMO/LEARN] Button

## Rear Panel

- 11) [PEDAL] Jack
- 12) [USB TO HOST] Jack
- 13) [LINE OUT] Jack
- 14) [DC 12V] Jack
- 15) [PHONES 1] Jack
- [PHONES 2] Jack

# Connectors

## DC Power

1. Ensure the keyboard is turned off when connecting and disconnecting the power, and turn the volume to the minimum level.
2. Plug the adaptor into the AC wall outlet and the cord into the unit, then turn the power on.

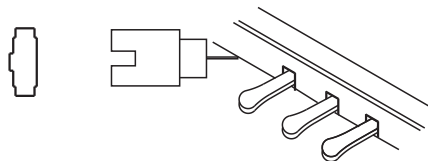
## Headphones

Two sets of standard stereo headphones can be plugged in here for private practice or late-night playing. The internal speaker system is automatically shut off when the headphone is plugged into PHONES jacks.



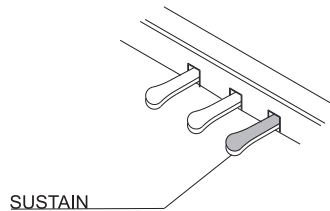
## Foot Pedals

Connect the plug of the foot pedal unit to the pedal jack on the rear panel.



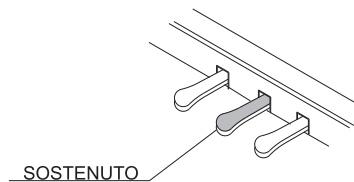
### **Damper Pedal (Right)**

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



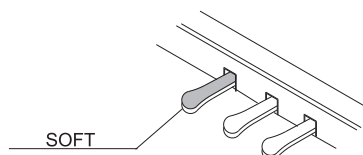
### **Sostenuto Pedal (Center)**

If you play a note or chord on the keyboard and press the sostenuto pedal while the notes are held, those notes will be sustained as long as the pedal is held, but all subsequently played notes will not be sustained.



### **Soft Pedal (Left)**

The Soft Pedal controls the sound volume. Press the pedal to decrease the output sound volume.

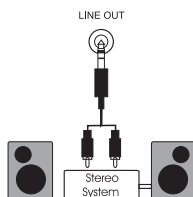




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## Line Out

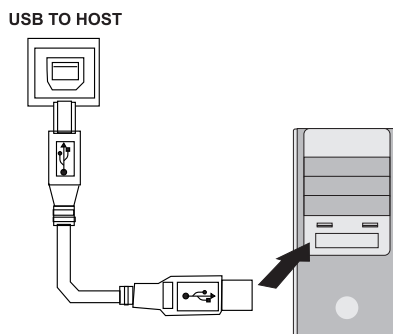
The LINE OUT jack can be used to transmit the audio signal of the piano to a keyboard amplifier, stereo sound system, mixing console or tape recorder.



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## USB-MIDI/USB AUDIO

This product allows the transfer of MIDI over USB. There is a specific way in which the MIDI signals are routed for maximum flexibility. In a standard Digital Piano, the built-in keyboard sends MIDI signals to the internal sound bank as well as the 5-pin MIDI output. In this digital piano, the keyboard not only sends MIDI signals to the internal sound bank (just like normal) but also sends MIDI signals simultaneously to the internal MIDI connection which hooks up inside the device to the Audio Interface. It is the Audio Interface to control the USB-MIDI.

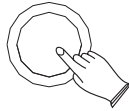


USB AUDIO interface is a digital audio interface. By USB cable, you can digitally transfer intact audio signals of PC to your piano, and enjoy it by your piano or use it to accompany your performance.

# Basic Operation

## Power Switch

Press the [POWER] button to turn on the power and the indicator will light. Your piano will switch off automatically in 30 minutes after no any operation on it. In this case, press the [POWER] button again to turn on the power.



POWER

## Master Volume

Turn the [MASTER VOLUME] knob to adjust the volume to your desired level.



MASTER VOLUME

## Demo/Learning Songs

There are 16 demo songs and 451 learning songs. You may select your desired one to play individually.

### Listen to the Demo Song

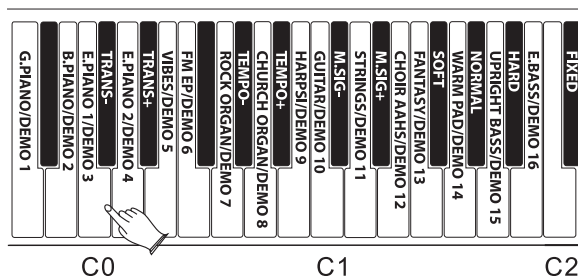
Press the [DEMO/LEARN] button to play demo songs in sequence and its indicator will flash. When playing DEMO songs, press [DEMO/LEARN] button to stop playing and exit the state of DEMO music.

DEMO/LEARN



### Selecting a DEMO song

Hold down the [DEMO/LEARN] button. Then press the corresponding keys on the keyboard to directly select the demo song.

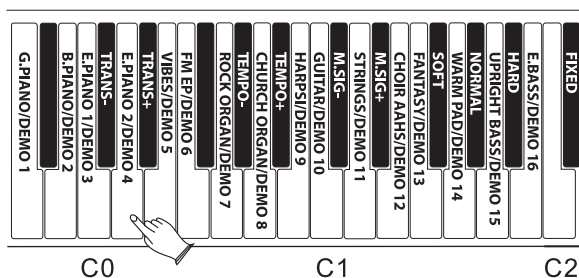


# Function

## Selecting a Voice

Your instrument has 16 voices.

Hold down the [VOICE/EDIT] button to enter Edit Mode and its indicator will light. Then press the corresponding keys on the keyboard to directly select the voice.

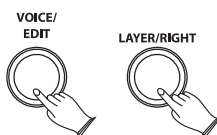


## Layer Mode

Press the [LAYER/RIGHT] button to select Layer Mode, and then two different voices will sound simultaneously when you play the keyboard.

### Select Layer Voice

Press the [LAYER/RIGHT] button and its indicator will flash. Hold down the [VOICE/EDIT] button to enter Edit Mode. Then press the corresponding keys on the keyboard to directly select the second voice. If you don't choose the second voice within 5 seconds, it will return to the Main voice.



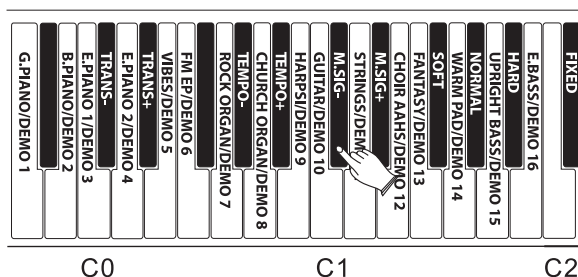
### Exit Layer Mode

Press the [LAYER/RIGHT] button again to exit Layer Mode and its indicator will be unlighted.

## Metronome

Metronome is a convenient feature for practice, and it can also provide a solid rhythmic guide when recording. The metronome sound is alternately turned on and turned off by pressing [METRONOME] button.

Hold down the [VOICE/EDIT] button to enter Edit Mode and its indicator will light. Then press the corresponding keys [M.SIG-]/[M.SIG+] on the keyboard to select your desired time signature.



## Touch

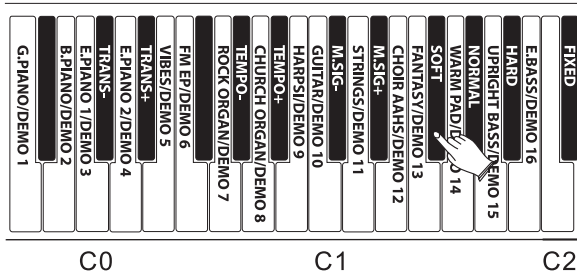
The touch function provides 4 different types of keyboard touch sensitivity that can be selected to match different playing styles: SOFT, NORMAL, HARD, FIXED. (Default: NORMAL).

**NORMAL** is the default setting, and is designed to be useful for most players with an “average” touch (i.e.: people who play with an average amount of force).

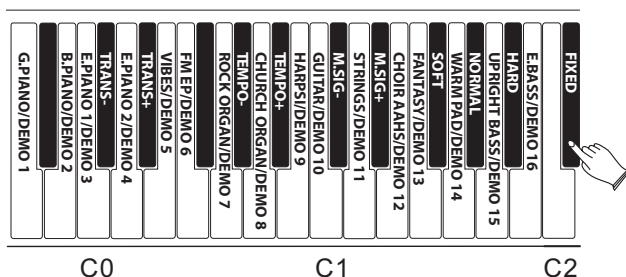
**SOFT** is a sensitivity setting that generates higher velocity values for the same force. This setting is useful for playing more loudly, even if you have a naturally “light” touch.

**HARD** is a sensitivity setting that generates lower velocity values for the same force. This setting is useful for playing more quietly, even if you have a “heavy” touch.

**FIXED** is a setting that effectively disables sensitivity, meaning the keyboard will generate a fixed velocity value of 100 regardless of how hard or soft you play.



Hold down the [VOICE/EDIT] button to change Touch and its indicator will light. Then press the corresponding keys [SOFT]/[NORMAL]/[HARD]/[FIXED]



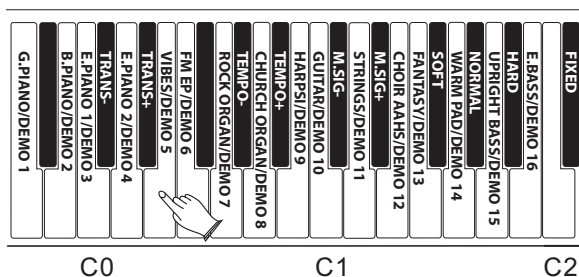
## Split Mode

In the split mode, your keyboard will be split into two sections which means different voices can be played with the left and right hands at the same time.

### Select Split Voice

Press the [SPLIT/LEFT] button to enter Split Mode and the indicator will flash. Hold down the [VOICE/EDIT] button to enter Edit Mode. Then press the corresponding keys on the keyboard to directly select the split voice. When the indicator is unlighted, you may set the Main Voice.

(Default: Split point is G3)



### Exit Split Mode

Press the [SPLIT/LEFT] button again to exit Layer Mode and its indicator will be unlighted.

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## Reverb

Press the [Reverb] button to enter Reverb Mode.

Press the [Reverb] button again to exit Reverb Mode.



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## Chorus

Press the [Chorus] button to enter Chorus Mode.

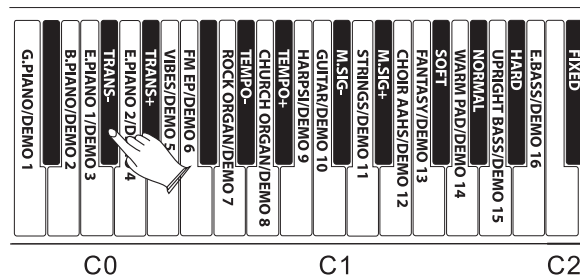
Press the [Chorus] button again to exit Chorus Mode.



## Transpose

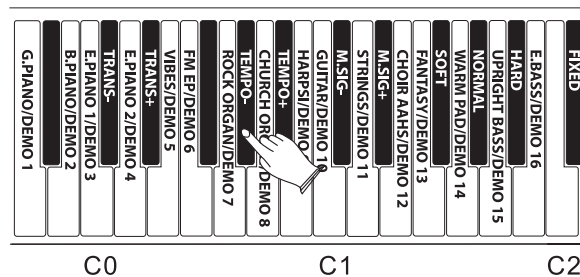
The Transpose function allows you to change the pitch of the instrument in semitone steps, up to a maximum setting of 12 semitones (a maximum of one octave up or down).

Hold down the [VOICE/EDIT] button to enter Edit Mode. Then press the corresponding keys [ TRANS- ]/[ TRANS+ ] on the keyboard to select your desired pitch.  
(Range:-12-12)



## Tempo

Hold down the [VOICE/EDIT] button to enter Edit Mode. Then press the corresponding keys [ TEMPO- ]/[ TEMPO+ ] on the keyboard to select your desired tempo value.  
(Range:20-280)



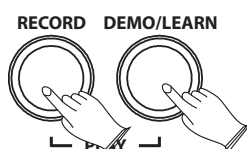
# Teaching Function

There are several songs built into this Piano for your musical enjoyment. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the piano.

## Learning Mode

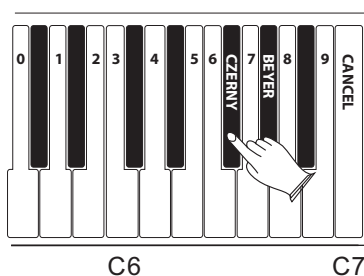
Hold down the [DEMO/LEARN] button until the indicator of [DEMO/LEARN] button light and the indicator of [RECORD] button flash.

To start learning, press the [RECORD] button again.



## Selecting a Song Bank

Hold down the [VOICE/EDIT] button and then press the [CZERNY]/[BEYER] key to select the desired song bank. If you select the right song your instrument will generate the sound, then you can use the corresponding keys [0-9] to select desired song.



The Czerny bank includes 70 learning songs, the Beyer bank includes 106 learning songs.

CZERNY:001-070

BEYER:001-106

001 ~ 009: Double-click the number [0], then press the number key [1~9].

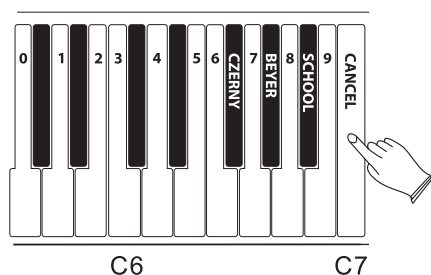
010 ~ 099: Press the number [0], then press each number.



If you select an unembedded learning song, both the [RECORD] and [DEMO/LEARN] buttons will flash.

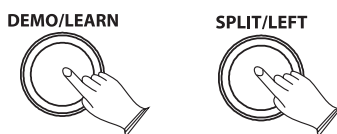
If you correctly select the embedded learning song, the [RECORD] button and [DEMO/LEARN] buttons light up with a brief confirmation tone.

Note: press the [CANCEL] keyboard to cancel the previous selection.



## Left Part Learning

- 1) Hold down the [DEMO/LEARN] button to enter the Learning Mode. Press the [SPLIT/LEFT] button to mute the left hand part.



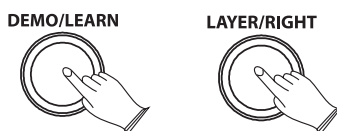
- 2) Press the [RECORD] button. Then you will hear the song. You will only hear the right-hand part.



- 3) Play the left-hand part of your selected song while the right-hand part plays.
- 4) Press the [RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

## Right Part Learning

- 1) Hold down the [DEMO/LEARN] button to enter the Learning Mode. Press the [LAYER/RIGHT] button to mute the right hand part.



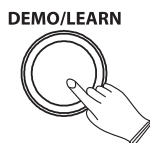
- 2) Press the [RECORD] button. Then you will hear the song. You will only hear the left-hand part.



- 3) Play the right-hand part of your selected song while the left-hand part plays.
- 4) Press the [RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

## Exit Learning Mode

Press the [DEMO/LEARN] button again to exit Learning Mode and its indicator will be unlighted.



# Song Recording

## Record

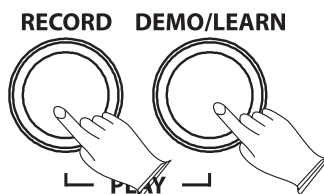
Press the [RECORD] button and the indicator will light. Then you may play the keyboard to start recording.

To stop recording, press the [RECORD] button again.



## Playback

Press the [RECORD] and [DEMO/LEARN] buttons to enter Playback mode. The indicator of the [RECORD] button will flash.



# Appendix

## Voice List

No.	Sound Name
1	Grand Piano
2	Bright Piano
3	E. Piano 1
4	E. Piano 2
5	Vibes
6	FM EP
7	Rock Organ
8	Church Organ
9	Harpsichord
10	Guitar
11	Strings
12	Choir
13	Fantasia
14	Warm Pad
15	Upright Bass
16	Electric Bass

## Troubleshooting Hints

<ul style="list-style-type: none"> <li>•When the instrument is turned on or off, a Popping sound is temporarily produced.</li> </ul>	<p>This is normal and indicates that the instrument is receiving electrical power.</p>
<ul style="list-style-type: none"> <li>•When using a mobile phone, noise is produced. Using a mobile phone in close proximity to the instrument may produce interference.</li> </ul>	<p>To prevent this, turn off the mobile phone or use it further away from the instrument.</p>
<ul style="list-style-type: none"> <li>•Not all of the voices seem to sound, or the sound seems to cut off.</li> </ul>	<p>The instrument is polyphonic up to a maximum of 32 notes — including Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.</p>
<ul style="list-style-type: none"> <li>•The Auto Accompaniment does not sound properly.</li> </ul>	<p>Make sure that the Auto Accomp Volume Function is set to an appropriate level. Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate position on the keyboard.</p>
<ul style="list-style-type: none"> <li>•No sound produced by the keyboard, but the lights and screen work.</li> </ul>	<p>Check that the master volume control is not set to minimum. Check that nothing is plugged into the headphone socket.</p>
<ul style="list-style-type: none"> <li>•The sound of the voice changes from note to note.</li> </ul>	<p>This is normal. The digital tone generation uses multiple recordings (samples) of an instrument across the range of the keyboard; The actual sound of the voice may be slightly different from note to note.</p>
<ul style="list-style-type: none"> <li>•The volume is too soft.</li> <li>•The sound quality is poor.</li> <li>•The rhythm stops unexpectedly or will not play.</li> <li>•The recorded data of the song, etc. does not play correctly.</li> <li>•The LED display suddenly goes dark, and all panel settings are reset.</li> </ul>	<p>If you have lost or damaged your AC adaptor, please contact your nearest store for a correct replacement adaptor. An incorrect AC mains adaptor which is not rated sufficiently can cause malfunction or damage.</p>
<ul style="list-style-type: none"> <li>•To completely restore all settings as per factory settings</li> </ul>	<p>Perform a factory reset, Please refer to content in this owner's manual. All of the user setting will be erased and the default factory settings will be applied to the instrument.</p>
<ul style="list-style-type: none"> <li>•Power suddenly and unexpectedly turns off, after a period of not touching the keys.</li> </ul>	<p>This is normal and the Auto Power Off function may have been activated. If you need to disable the Auto Power Off function, please see how to do this in the owner's manual.</p>
<ul style="list-style-type: none"> <li>•The sustain pedal or footswitch seems to produce the opposite effect. Example pressing the footswitch deactivates the sustain, and releasing the footswitch triggers the sustain.</li> </ul>	<p>The polarity of the footswitch needs to be correctly detected. Make sure the jack plug for the footswitch is connected. Switch the instrument on whilst not touching the pedal.</p>

## Specifications

<b>Keyboard:</b>	88 standard-size hammer keys (A-1~C 7) with touch response
<b>Polyphony:</b>	64 notes max
<b>Voices:</b>	16 PCM Voices with High Quality
<b>Voice Control:</b>	Transpose, Dual
<b>Effect:</b>	Reverb, Chorus
<b>Keyboard Control:</b>	Split, 3 Touch Sensitivity and Fixed Touch Response
<b>Demo:</b>	16 Demo+70 Czerny+106 Beyer+275 Korean school songs
<b>Song recording:</b>	Real time record and playback
<b>Interface:</b>	Headphone jacks, Line out jack, USB jack, DC12V jack, Pedal jack.
<b>Others:</b>	USB MIDI via USB port Play/Record Audio with Computer via USB port Power Saving: Auto Power Off

## 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.

**KURZWEIL**

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