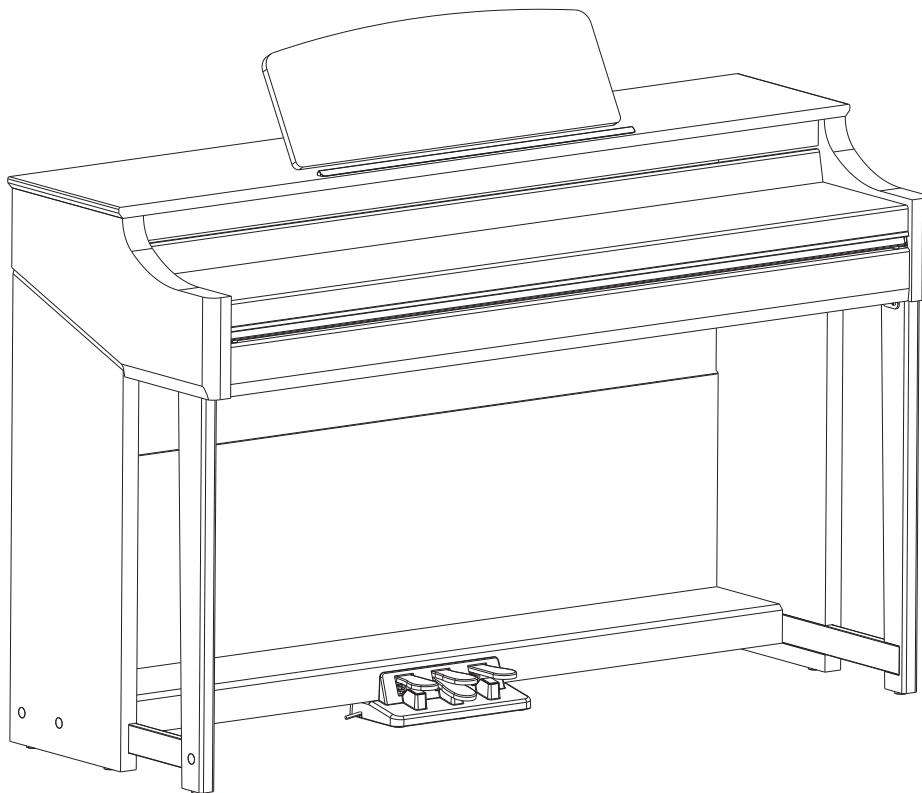# ARIUS
DIGITAL PIANO

STN-5000
DIGITAL PIANO

User's Manual

GENERAL
MIDI

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

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.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CAUTION

The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

Power Supply
When removing the electric plug from an outlet, always hold the plug itself and not the cord.

Do not connect the instrument to an electrical outlet using a multiple-connector or an AC outlet of voltage other than that for which your instrument is intended.

Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

Connections
Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

Location
Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

Interference with other electrical devices
Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

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

Handling
Do not apply excessive force to the switches or controls.

Do not let paper, metallic, or other objects into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

Contents

Panel Description

Front Panel

1. VOLUME Knob
Adjust the master volume.

2. BRILLIANCE Knob
Adjust the voice brilliance.

3. MELODY Select Keys
In song mode, press and hold the [FUNCTION] button then strike the key [L]/[R] to select the practice hand.

4. SONG Select Keys
Press and hold the [FUNCTION] button then strike a key in this range to select a song.

5. Indicators of Song Sources
Press the [SONG] button to switch the song source, the corresponding indicator will be changed.

6. SONG Button
Enter the song mode, or switch song source.

7. PLAY/STOP Button
Start or stop playing a song.

8. RECORD Button
Enter into the record mode.

**9. SAVE TO USB Button**
Save the recorded data to a USB flash disk.

10. FUNCTION Button
Press and hold this button then strike special keys to execute different functions.

11. TEMPO Adjust Keys
Press and hold the [FUNCTION] button then strike a key in this range to adjust the current tempo value.

12. LED Display
Show all the important settings of the piano.

13. USB Jack
Connect to a USB flash disk.

Rear Panel
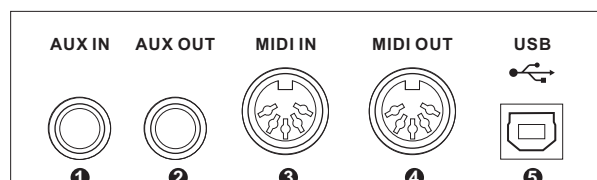
1. AUX IN Jack
Connect to an external sound source, such as an MP3 or CD player.

2. AUX OUT Jack
Connect to the audio equipment.

3. MIDI IN Interface
Connect the MIDI OUT of other device to the MIDI IN jack on the rear panel.

4. MIDI OUT Interface
Connect the MIDI IN of other device to the MIDI OUT jack on the rear panel.

5. USB-MIDI Interface
Connect to a computer.

4
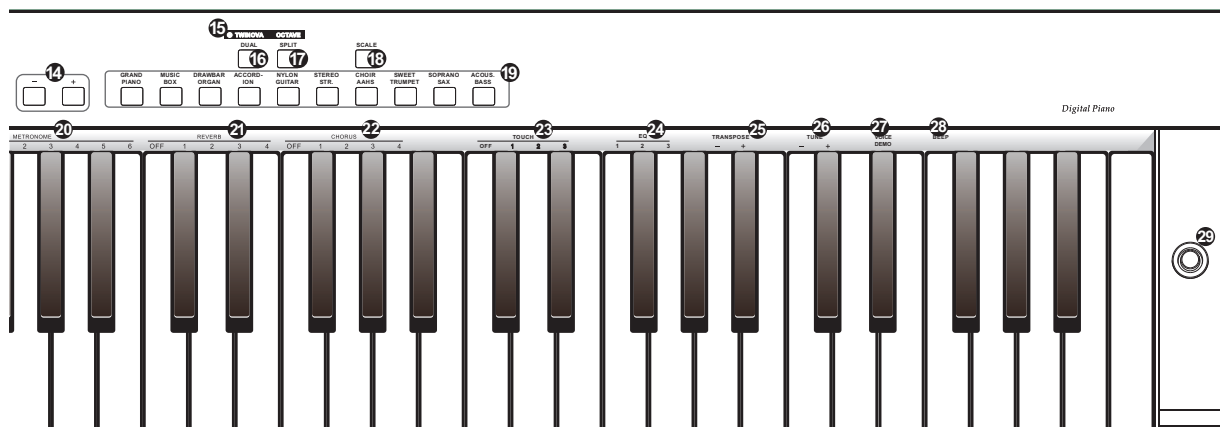
14. [+]/[-] Button
   Adjust the parameters.

15. Indicator of TWINOVA
   Indicate whether the system currently is in
   TWINOVA mode or not.

16. DUAL Button
   Turn the dual voice on and off. In addition, press
   and hold the [FUNCTION] button then press
   this button can open or close TWINOVA.

17. SPLIT Button
   Turn the lower voice on and off. In addition, in the
   TWINOVA mode, press and hold the
   [FUNCTION] button then press this button to enter
   into the TWINOVA octave setting mode.

18. SCALE Button
   Turn the SCALE function on and off.

19. Voice Select Buttons
   Select a voice directly.

20. METRONOME Keys
   Press and hold the [FUNCTION] button then
   strike the key [ON/OFF] to turn the metronome on
   or off, or strike the other keys in this range to
   select a time signature.

21. REVERB Keys
   Press and hold the [FUNCTION] button then
   strike the key [OFF] in this range to close reverb
   effect, or strike the other keys in this range to
   select a reverb type.

30. SOFT Pedal
   Step on the soft pedal, all notes played on the keyboard
   would have a softer effect.

31. SOSTENUTO Pedal
   Step on the sostenuto pedal, the notes played before
   you step on would have a sustain effect.

32. SUSTAIN Pedal
   Step on the sustain pedal, all notes played on the
   keyboard would have a longer sustain.

22. CHORUS Keys
   Press and hold the [FUNCTION] button then
   strike the key [OFF] in this range to close chorus
   effect, or strike the other keys in this range to
   select a chorus type.

23. TOUCH Keys
   Press and hold the [FUNCTION] button then
   strike a key in this range to select a different touch
   sensitivity level.

24. EQ Key
   Press and hold the [FUNCTION] button then strike a key
   in this range to select a EQ type.

25. TRANSPOSE Keys
   Press and hold the [FUNCTION] button then
   strike this keys to adjust the TRANSPOSE value.

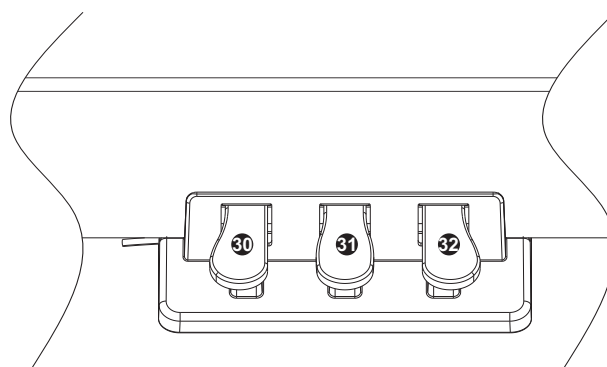**26. TUNE Keys**
   Press and hold the [FUNCTION] button then
   strike this keys to adjust the TUNE value.

27. VOICE DEMO Key
   Press and hold the [FUNCTION] button then strike this
   key to start/stop the voice demo playing.

28. BEEP Key
   Press and hold the [FUNCTION] button then
   strike this key to turn the prompt tone on or off.

29. POWER Switch
   Turn the power on or off.

Setup

This section contains information about setting up your instrument and preparing to play. Please go through this section carefully before turning the power on.

Setup Guide

1. Open the package, and check whether the following parts are available.
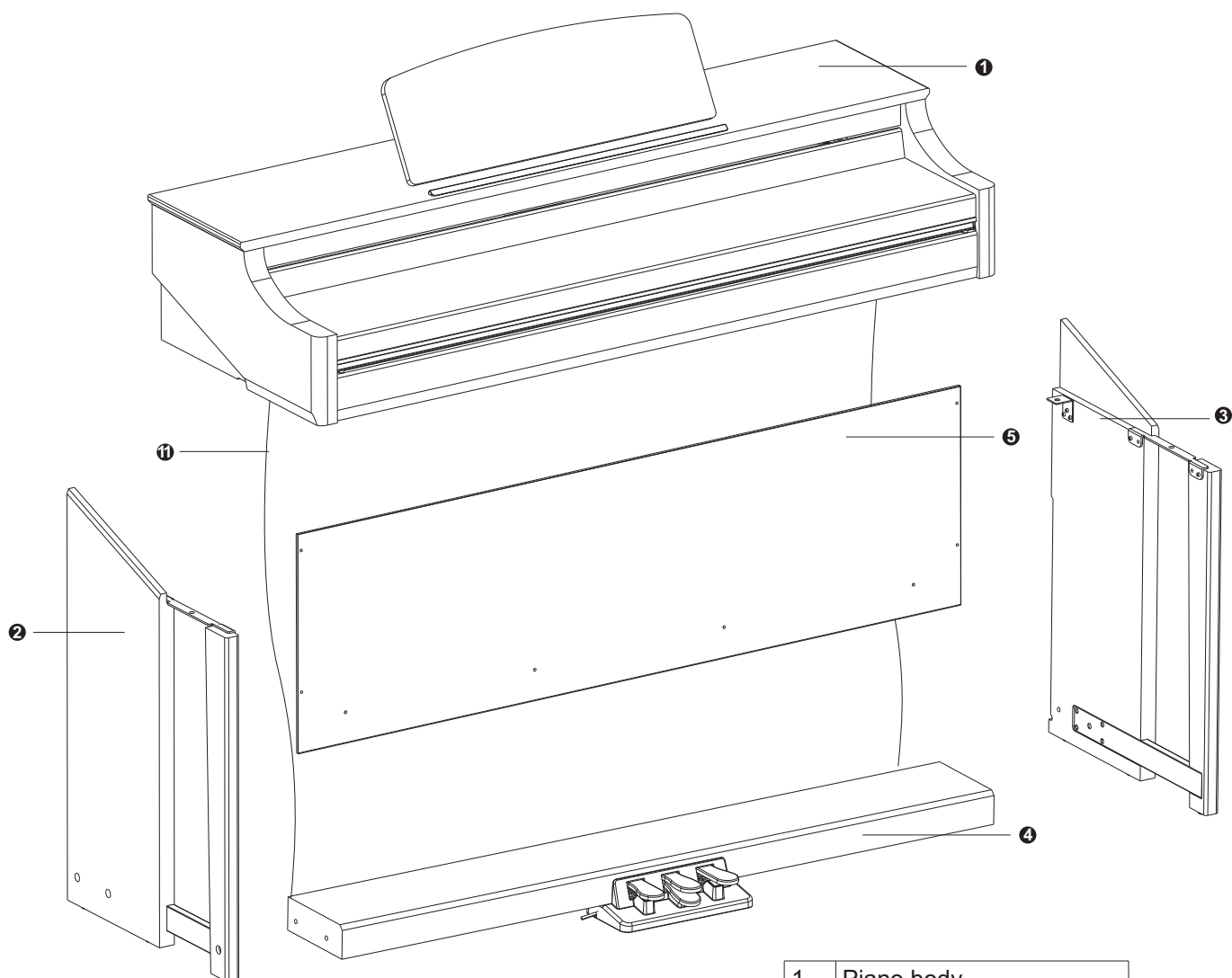
1	Piano body
2	Left leg component
3	Right leg component
4	Foot pedal
5	Rear board
6	Screws M6x18(2pcs)
7	Hand screws (2pcs)
8	Screws M6x40(4pcs)
9	Tapping screw 4x15(8pcs)
10	Screw caps
11	Foot pedal cable

2. A. Put the foot pedal unit(4) in between the left and right legs components (2&3), use 4 pieces of screws (8)(2 on each side) to stable the legs onto the foot pedal unit. (Make sure the direction of the placement is correct before screwing)
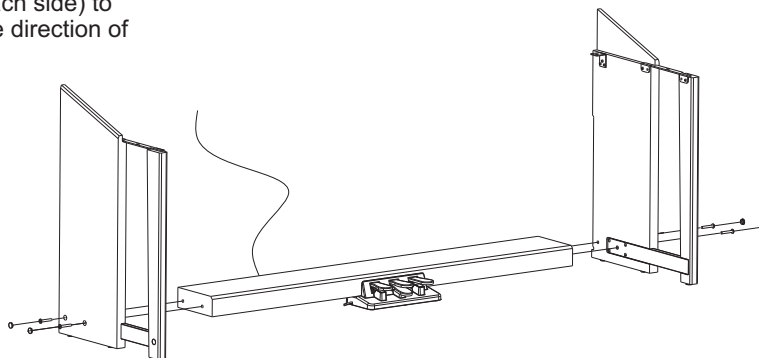
B. Use 8 pieces screw(9), make the Rear board fixed on the Foot pedal unit(4) and right leg component(3), the left leg component(2) finished in part A on the previous page.
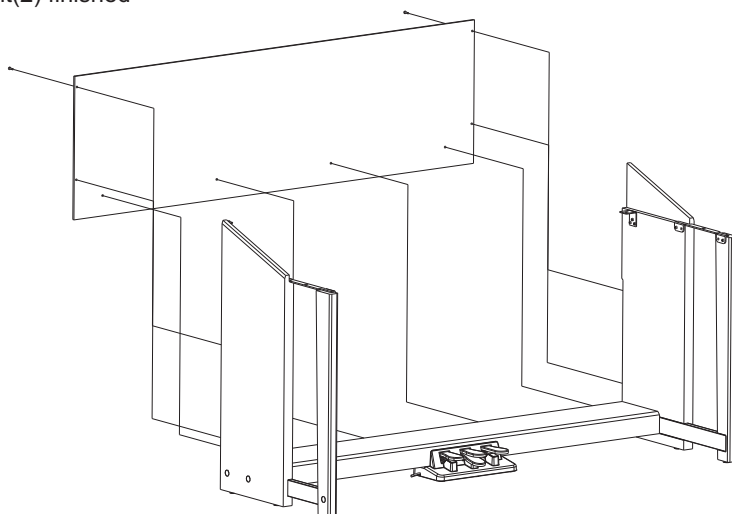
C. Put the piano body(1) on the top of the assembly finished in part B, use 2 pieces of hand screws (7) and 2 pieces of screws M6x12 (6) to stable afterward.
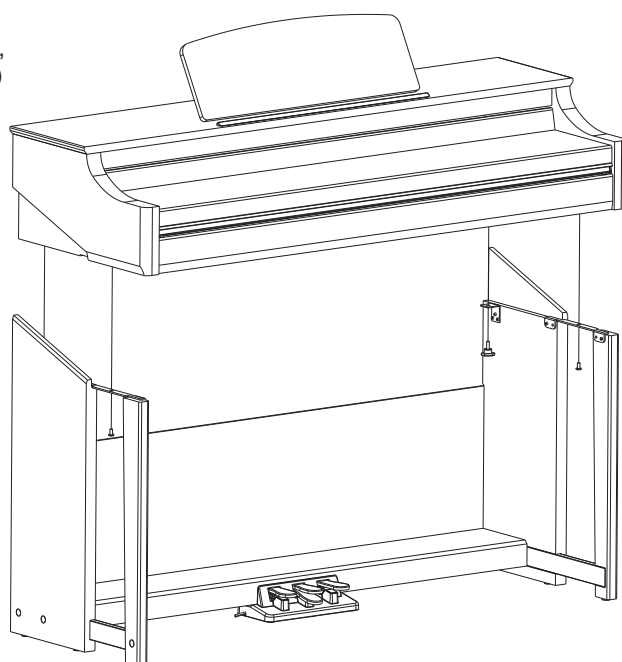
Setup

D. After the initial set-up, connect pedal cable(11) in the foot pedal unit
   to the bottom-panel PEDAL jack.
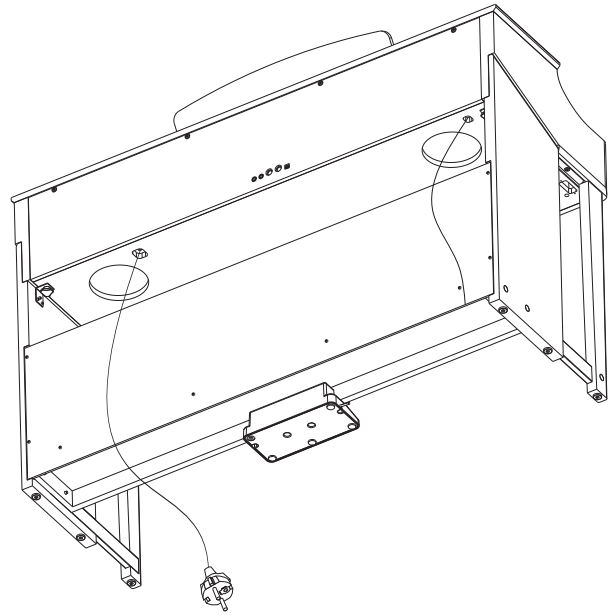
Power Supply

1. Make sure that the piano is turned off. Before you switch your piano
   on or off, turn down the volume of piano and any connected audio
   equipments first.
2. Connect the power cable to the AC outlet.
3. Press the [POWER] button, the LED display will lights up, that
   indicates the piano has power on.
4. If you are ready to turn off the piano, press the [POWER] switch
   again.
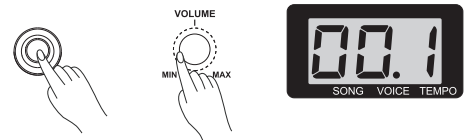
Notes:
1. In order to save energy, we have designed the "Automatic
   Power Off" function to the piano. With this function, the keyboard
   will be powered off automatically when being idle for more than 30
   minutes. If you want to temporary disable this function, just press
   and hold the first white key on the left from keyboard and turn the
   power on simultaneously.

2. When the piano is not in use or during thunderstorm, please
   disconnect the power for safety purpose.
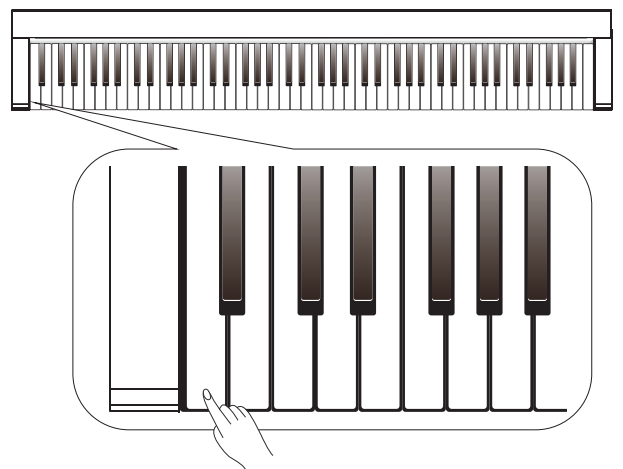
Connecting a pair of Headphones

A standard pair of stereo headphones can be plugged in here for private practice or late-night playing.

Jack1: when a pair of headphones is plugged into the jack 1, the sound can be heard from both headphones and speakers of the instrument.

Jack2: when a pair of headphones is plugged into the jack 2, the internal stereo speaker system is automatically shut off. The sound can only be heard from headphones.

Note:
To avoid the risk of hearing loss when using headphones, please do not play the piano with a high volume level for a long time.
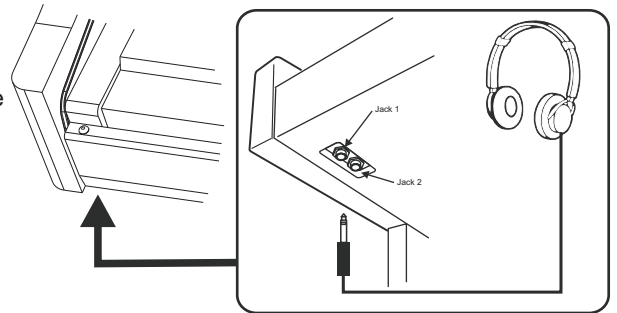
Connecting an Audio Equipment

The rear-panel AUX OUT jack delivers the output of the instrument for connection to a keyboard amplifier, stereo sound system, a mixing console, or tape recorder.
Use an audio cable to plug into the AUX OUT jack located on the rear board then plug the other end of the cord into AUX IN of the amplifier.

Note:
To avoid damaging the speakers, please ensure that the volume has been set to the minimum level before connecting the power and other devices.
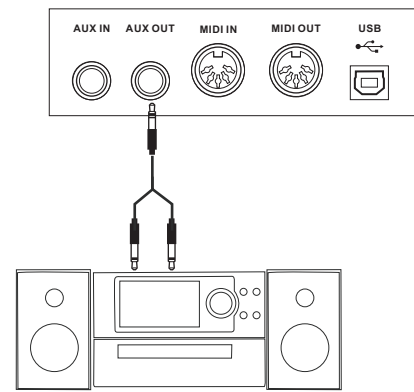
Connecting a MP3/CD Player

Connect the audio output of an MP3/CD player or other audio source to the stereo AUX IN jack on the rear panel.
The input signal is mixed with the piano signal, allowing you to play along.
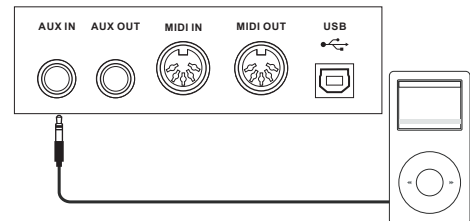
Connecting a Computer

■ **Via the USB Connector**
This receives and transmits MIDI messages.

■ **Via the MIDI Connectors**
MIDI IN Connector
This receives MIDI messages transmitted from an external MIDI device or a computer.
MIDI OUT Connector
Piano performance data is transmitted from this connector to connected computer or MIDI device.

9
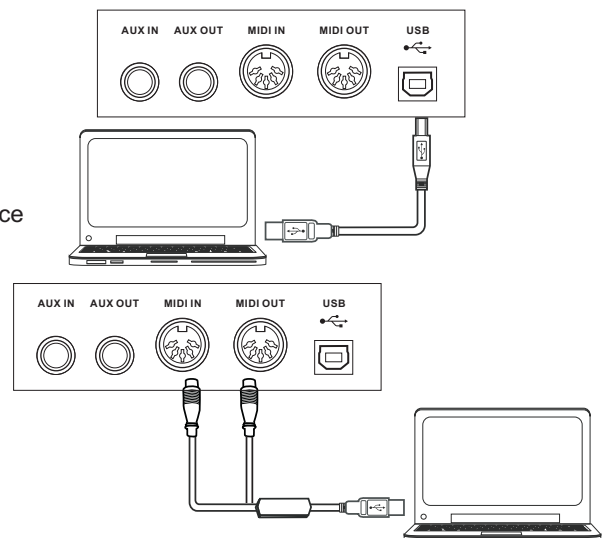
Adjusting the Master Volume

Rotate the [VOLUME] knob clockwise, the volume increases and vice versa.
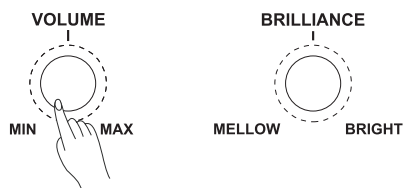
Adjusting the Voice Brilliance

Rotate the [BRILLIANCE] knob clockwise, it sounds brighter; rotate the [BRILLIANCE] knob anti-clockwise, it sounds gloomier. You can change the piano brilliance as you wish.
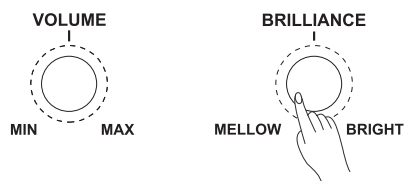
Playing a Song

This piano has 61 songs in all, including 1 user song.
For more information, please refer to the song list in Appendices chapter.

1. Song playing in big circle
Press the [SONG] button to enter into the song playing mode and it will play all preset songs circularly. The song flag on the LED will be lightened. The song number will also be displayed on the LED.

2. Single circle
Once you start playing a song by pressing the [PLAY/STOP] button, it will play the current song repeatedly.

3. Beat tips
When the song is playing, the two-color indicator of [PLAY/STOP] button will be flashing along with the song rhythm and tempo.

○ PRESET
○ USER
○ USB

SONG   PLAY / STOP

0.01
SONG VOICE TEMPO

Stop Playing a Song

1. Press the [PLAY/STOP] button to stop the song playing, and the two-color indicator will stop flashing.

2. When the piano only has preset song (have no recording data and do not connect to an USB flash disk), press the [SONG] button can stop playing the current preset song.

3. While the song is stopped, pressing any of the Voice Direct Select buttons will return to voice mode.
Tips:
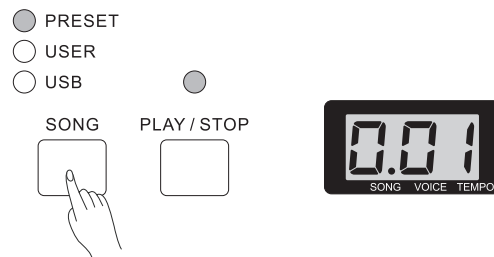The keyboard can play normally and pronounce accurately in the process of song playing and the status of song stop.

PLAY / STOP

Select a Song

1. Select song source
When a song is playing, press the [SONG] button repeatedly can switch song source, the song source will be changed among Preset, User and USB. At this time, the corresponding indicator will be lightened.
Tips:
Only when the piano connects to an USB flash disk and it is identified correctly, or when the piano has recording data, you can press the [SONG] button to switch the song source to USB or User. If the piano has only preset song, press the [SONG] button will play all songs circularly, or stop playing the song.

2. Select preset song
Use the [+] or [-] button to select a song. While holding down the [FUNCTION] button, strike corresponding keys in SONG selection area to select a song you want.

3. Select USB flash disk song
When the piano has identified an USB flash disk correctly, the indicator of [SAVE TO USB] button will be lightened, now you can press the [SONG] or [PLAY/STOP] button to start playing the MIDI file at the root directory in the USB flash disk, when the USB flash disk song is playing, you can select the MIDI file with [+] or [-] button. The default file number is 001.

Notes:
1. Since the system only reads MIDI files at the root directory of a USB flash disk, you should place the MIDI files which you want to play at the root directory.
2. This piano only support the MIDI song that less than or equal to 32 tracks. If MIDI file is more than 32 tracks, then in the process of big loop playing, it will skip this MIDI song automatically, and play the next song. In the process of single circling, it will stop playing the song automatically and the LED will display "Err", at this time, you can press the [+] or [-] button to select another song.

○ PRESET
○ USER
○ USB

SONG   −   +

FUNCTION

SONG
− + 0 1 2 3 4 5 6 7 8 9

SAVE TO USB
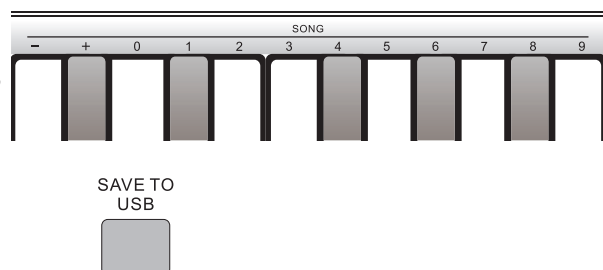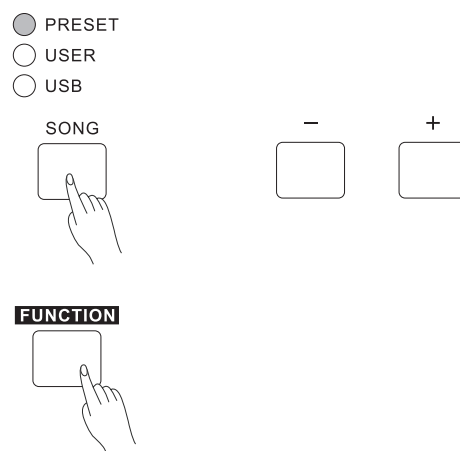
Practicing with Preset Songs

All the 60 songs could be used for practicing.
In the song mode, while holding down the [FUNCTION] button, strike the keys [L]/[R] in melody range to select which hand you want to practice. Strike the key [OFF] in this range to exit the song lesson mode.
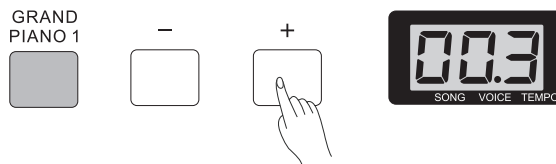
FUNCTION

MELODY
OFF   L   R

Playing Voice

There are 40 panel voices, 128 GM voices and 9 additional drum sets built–in the instrument.
For the 40 panel voices, they could be selected via the voice buttons on the front panel. To use the other voices, you should send the corresponding MIDI bank/program events to the instrument from MIDI IN or USB interface. For details, please refer to the Voice List in the appendices.

Select a Voice

The default upper voice is 001.
Press Voice Direct Select button to select the voice you want to play.
In the voice mode, you also can use the [+] or [-] button to select voice.
At this moment, LED lightens the voice flag and displays the current voice number.

GRAND PIANO 1   −   +   **00.3**   SONG VOICE TEMPO

Playing a Voice Demo

In the voice mode, holding down the [FUNCTION] button, then strike the VOICE DEMO key can start the demo for the selected voice.
Do it again to stop the voice demo playing.
This instrument contains 40 voice demos.

FUNCTION   UNE +   VOICE DEMO   BEEP
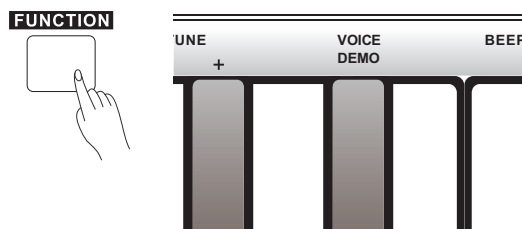
Note:
In voice demo mode, the keyboard will be not available.

Playing Two Voices Simultaneously

1. Open or close dual voice
     Press the [DUAL] button can open or close dual voice.
     The corresponding indicator of [DUAL] button will be lightened or off accordingly.

2. Select dual voice
     The default dual voice is 007.
     While holding down the [DUAL] button, LED displays the current dual voice number temporarily, at this time press the Voice Direct Select button to select the dual voice you want and press [+] or [-] button also can select dual voice. While released [DUAL] button, it returns to upper voice selection mode.
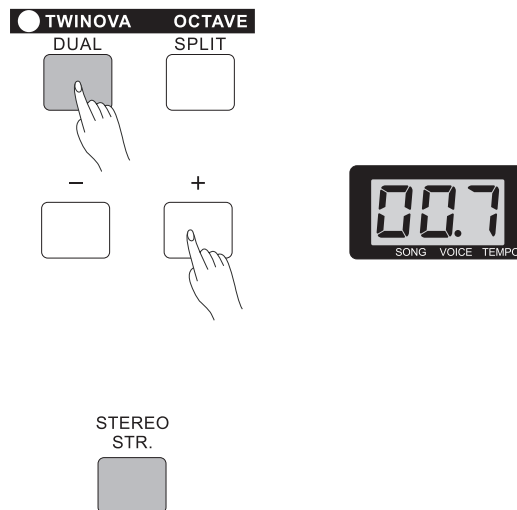
3. Playing two voice simultaneously
     In the dual voice mode, if you have chosen upper voice and dual voice, two voices will sound simultaneously while playing the keyboard.

TWINOVA   OCTAVE
DUAL   SPLIT

−   +   **00.7**   SONG VOICE TEMPO

STEREO STR.

Notes:
1. If the dual indicator was off, you can select dual voice, but the keyboard does not respond dual voice.

2. If the dual indicator was lightened, not only you can select dual voice, but also the piano can respond dual voice in real-time.

3. When the lower voice is open, only the right-hand area of the keyboard has the dual voice.

Playing a Lower Voice

The lower voice can make the right hand and left hand play different voices.

1. Open or close lower voice

Press the [SPLIT] button can open or close lower voice. The corresponding indicator of [SPLIT] button will be lightened or off accordingly. When the lower voice is open, the keyboard will be divided into two separate areas, the notes you play with your right and left hands sound two different voices.

2. Select lower voice

The default lower voice is 007.

While holding down the [SPLIT] button, LED displays the current lower voice number temporarily, at this time press the Voice Direct Select button to select the lower voice you want and press [+] or [-] button also can select lower voice. While released [SPLIT] button, it returns to upper voice selection mode.

3. Playing lower voice

In the lower voice mode, if you have chosen upper voice and lower voice, you can play different voices with both hands.

4. Split point

While holding down the [SPLIT] button, strike keyboard to set split point to any key you want. Release [SPLIT] button to exit split point setting mode.

Notes:

1. If the lower indicator was off, you can select lower voice, but the keyboard does not respond lower voice.

2. If the lower indicator was lightened, not only you can select lower voice, but also the piano can respond lower voice in real-time.

3. The point on the keyboard that separates lower voice and upper voice is called the "split point". The split point is set to F#3(34) at the default setting.
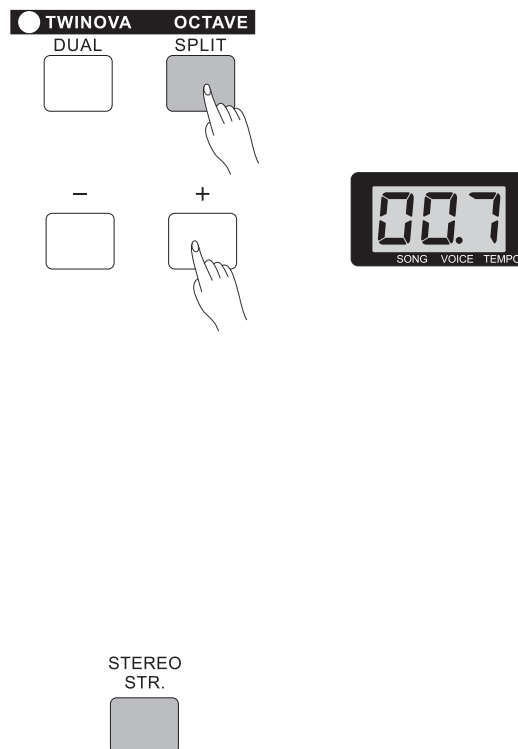
Song Recording

You can record a user song in the piano. the recorded data will not be lost when you turn off the power.

Prepare Recording

Press the [REC] button, the corresponding indicator is blinking, that indicates the piano has entered into the recording preparation status, in this state, you can adjust some parameters.

REC
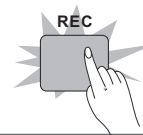
Start Recording

In the recording preparation status, press [PLAY/STOP] button or play the keyboard to start recording.

Note:
When the piano already have a user song, and you start recording again, the original data will be replaced automatically.

PLAY / STOP

Stop Recording

When recording is in process, you can press [REC] button to stop recording and store the recorded data into memory.
If the capacity was full, it will stop recording automatically, and the recorded data will be stored into the memory, in the process of storing, the indicator will be flashing rapidly, LED displays "FUL". when the storage is completed, the indicator will be off, then play back the user song which you just have recorded.

REC

FUL
SONG   VOICE   TEMPO

Playback the Recorded Song

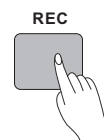When recording is in process, you can press the [REC] button to stop recording and enter into the song playing mode, then the current recorded song will play automatically in circle. Now the corresponding indicator of USER is lightened.
In the recording preparation status, if the piano already have a user song, press the [REC] button again, it will exit recording mode and enter into song playing mode automatically, then the recorded user song will start to play.

○ PRESET
● USER
○ USB   ●

REC   SONG   PLAY / STOP
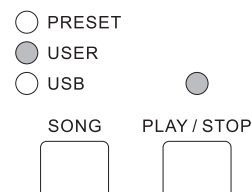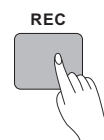
Delete the User Song

Press and hold [+]/[-] button together and turn power on simultaneously, the user song will be erased.

−   +

Save the Recorded Song to a USB Flash Disk

You can save the recorded data to USB flash disk root directory as MIDI file which can be played on MIDI player.
Save practice
1. When the piano has identified the USB flash disk correctly, the corresponding indicator of [SAVE TO USB] button will be lightened.
2. When the corresponding indicator of [SAVE TO USB] button is lightened, press [SAVE TO USB] button, the system will save the recorded song to the root directory in USB flash disk automatically. When the storing is in process, the LED will display "---", when storage has completed, this piano will return to the idle mode.
3. After pressing [SAVE TO USB] button, if the LED displays "Err", it indicates that the process of saving data is failed, please try another USB flash disk or format the current one, then retry from step 1.

SAVE TO
USB

Notes:
1. If there is no recorded data in this piano, if you press [SAVE TO USB] button, "noF" will be displayed on the LED temporarily, that means nothing is recorded and nothing will be saved.
2. When the LED is displaying "- - -", it indicates the system is saving data, at this time, for data safety, please do not unplug the USB flash disk or power off the piano.

- - -
SONG   VOICE   TEMPO

Err
SONG   VOICE   TEMPO

noF
SONG   VOICE   TEMPO

Scale

This function allows you to experience different scales when you play certain genres of music that is not composed based on twelve equal interval.

SCALE

1. Press [SCALE] button to enter into scale mode and the button indicator is lightened; the default stretched tuning is 001 Pythagoras.

2. There are 6 types of scale available, such as Pythagoras, Major, Minor, Meantone, Werckmei, and Kirnberg.

3. Press [SCALE] button to exit scale mode and the button indicator goes off.

4. In the scale status, hold down the [SCALE] button to enter into scale select status. At this time, you can use [+] or [-] button to select the scale type, the scale number displayed on LED, and at the same time, you can play the keys in C7~B7 to select the stretched tuning root.
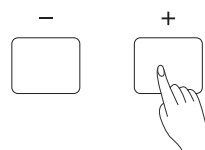
Notes:
1. Only when the button indicator was lightened, can you choose the scale type and SCALE root, and the keyboard will respond scale in real-time.
2. The scale will exit automatically if the piano enters into song playing mode.

Twinova

In TWINOVA mode, the keyboard will be divided into two areas with the same pitch and voice.

1. Open or close TWINOVA
   While holding down the [FUNCTION] button, press [DUAL] button to enter into TWINOVA mode, the corresponding indicator of TWINOVA is lightened. While holding down the [FUNCTION] button, press [DUAL] button again to exit TWINOVA, the indicator is off. Also you can press [SONG] button or [PLAY/STOP] button to exit TWINOVA and enter into song playing mode. In the TWINOVA mode, DUAL and SPLIT are unavailable, the default split point is E3 (32).

2. Voice select
   Before enter into the TWINOVA mode , the default voice of right-hand and left-hand is the upper voice. You can press Voice Direct Select button to choose voice, also you can use [+] or [-] button to choose voice.

3. Split point setting
   In the TWINOVA mode, while holding down the [SPLIT] button, press keys from C3~C6 to set split point of TWINOVA. Release [SPLIT] button to exit split point setting mode.

4. Octave setting
   In the TWINOVA mode, while holding down the [FUNCTION] button, press [SPLIT] button to enter into setting octave mode of twinova temporarily, LED displays the twinova octave value, now you can press [+] or [-] button to set octave value of twinova. After 3 seconds without operation, it will return to twinova mode automatically.
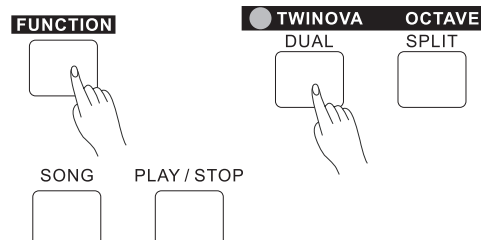
The default split point is E3 32
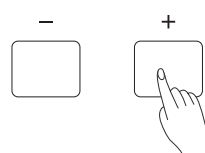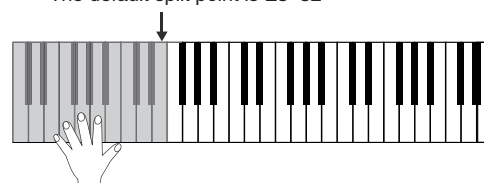
Note:
In the song playing mode, the twinova is invalid.

Touch Sensitivity

This function helps to enrich the expressiveness of music, it can reflect the force you exert to each note when you play. That means the greater the force you exerted, the greater the sound from the speakers when the master volume is unchanged. After you turn off this feature to play with any intensity to the keyboard, the sound was the same. While holding down the [FUNCTION] button, strike a key in the touch selecting area to select different touch response level.
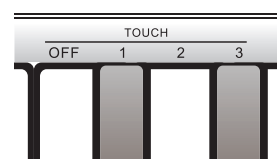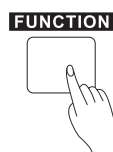
Parameters	Specification
OFF	
1	soft
2	medium
3	hard

Digital Effects

Reverb and Chorus Effect

While holding down the [FUNCTION] button, strike the corresponding keys in REVERB and CHORUS effect setting area to select the voice effect type.
The default Reverb value is 2 small hall.
The default Chorus value is OFF.

	Reverb value	Chorus value
OFF		
1	room	light chorus
2	small hall	medium chorus
3	large hall	deep chorus
4	stadium	flanger
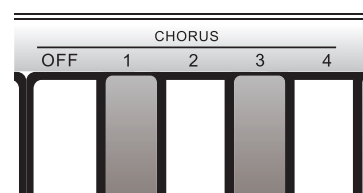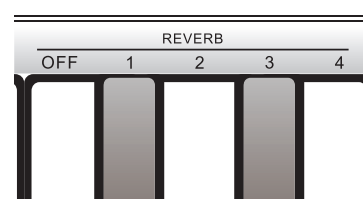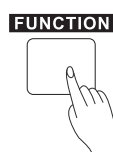
EQ Effect

The equalizer is the function of adjusting the sound value of the gain spectrum, gain setting can bring a different sound field effect.
This instrument contains 3 sets of equalizer for you to choose.
While holding down the [FUNCTION] button, strike the corresponding keys in EQ setting area to select the EQ type.

Parameters	Specification
1	Standard
2	Classical
3	Modern

16
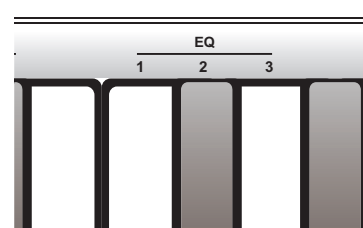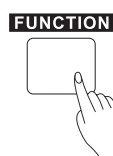
Metronome

If you are concerned about can not take on the beat accurately in practicing or recording mode, use the metronome function, so you can get the beat-specific tips.

1. Turn on the metronome
   While holding down the [FUNCTION] button, strike the key [ON/OFF] in this range to turn the metronome on or off. While the metronome function turned on, the corresponding indicator to the [PLAY/STOP] button will be flashing according with current tempo.
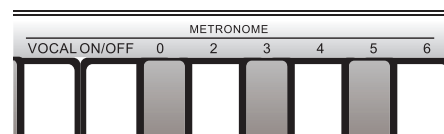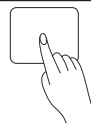
2. Select different time signature
   While holding down the [FUNCTION] button, select a demanded time signature by striking the corresponding keys in metronome setting area. There are 6 types of time signature: 0, 2, 3, 4, 5, 6.

3. Select metronome voice
   While holding down the [FUNCTION] button, strike the key [VOCAL] to select metronome voice: human voice and normal voice.

Note:
The metronome function is invalid in song playing mode.

Tempo

The tempo range: 30~280.
In the process of adjusting tempo, LED lightens the tempo flag and displays the current tempo value.

1. While holding down the [FUNCTION] button, strike the corresponding keys in TEMPO selection area, you can change the tempo by input number or using tap tempo, or strike the keys [+]/[-] in this range to change current tempo.
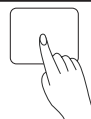
2. While holding down the [FUNCTION] button, the numbers of your striking the [TAP] key continuously within 3 seconds which match the current beats of metronome, metronome would be started.

3. While holding down the [FUNCTION] button, strike the keys [+]/[-] in this range simultaneously to set the tempo value back to the default 120.
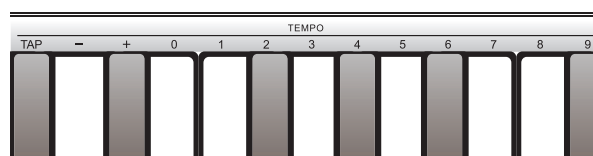
Parameters	Specification
TAP	Set tempo quickly
TEMPO+	Increase tempo by 1 unit
TEMPO-	Decrease tempo by 1 unit
0~9	Input the value of the specified tempo (equal to 3 digits)

Transpose

This function helps you adjust the pitch of the keyboard, and allows you to play different music without changing the way you performed before.

While holding down the [FUNCTION] button, strike the keys [+]/[-] in this range to adjust the transpose value from -12 to 12 semitones.

Note:
Strike the keys [+]/[-] in this range simultaneously to reset the transpose as default(0 semitone).
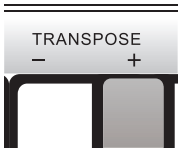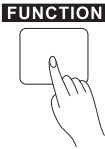
Tune

This function is used to adjust the pitch in a very subtle.
While holding down the [FUNCTION] button, strike the keys [+]/[-] in this range to adjust the tune value from -50 to 50 (stand for -100 to 100 cents).

Note:
Strike the keys [+]/[-] in this range simultaneously to reset the tune as default(0 cent).

Parameters	Specification
TUNE+	Increase tune by 1 unit
TUNE-	Decrease tune by 1 unit

18
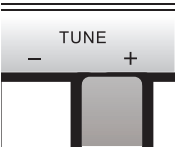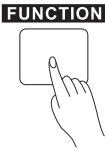
This function is used to turn on or turn off the prompt tone. The default setting is on. While holding down the [FUNCTION] button, strike the key [BEEP] to turn the beep tone on or off.

While the [FUNCTION] button is held down, and you turn on the beep tone, you can hear a beep sound when you strike an available functional key
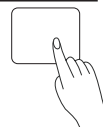
Parameters	Specification
OFF	Close Beep
ON	Open Beep

Problem	Possible Cause and Solution
If a USB flash disk is connected, but can not be identified, and also the indicator of button [SAVE TO USB] does not lightened.	1. Check the interface between USB flash disk and the piano, have it been connected reliably. 2. Please make sure the USB flash disk works, you can reformat it on computer and try again, or replace the USB flash disk.
The speakers produce a "pop" sound when the power is turned ON or OFF.	This is normal and is no cause for alarm.
No sound when the keyboard is played.	Make sure the voice volume are set to an appropriate level.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it far away from the instrument.

Specifications

Keyboard
88 Hammer-Action Keys

Polyphony
128

Voice
40

GM Voice
128 Voices and 9 Drum Sets

Voice Demo
40

Song
60

Tempo
30-280

Control Button
Function, Song, Play/Stop, Rec, Voice Direct Select, Save to USB, +/-, Dual, Lower, Power On/Off switch, Volume, Brilliance, SCALE.

Control Key
Tempo Tap, Tempo +/-, Tempo select keys, Metronome Vocal, Metronome On/Off, Metronome select keys, Reverb On/Off, Reverb Type Select Keys, Chorus On/Off, Chorus Type Select Keys, Touch On/Off, Touch Select Keys, Transpose, Tune, Beep, Melody off, Melody +/-, Song+/-, Song select keys EQ Type Select Keys, Voice Demo.

Connectors
Headphones (2 standard. ¼" phone), AUX IN, AUX OUT, USB, MIDI IN, MIDI OUT, Pedals (Sustain, Soft, Sostenuto)

Power Supply
AC 220~240V, 50Hz, 60W

Speaker
8Ω 20W X 2
8Ω 25W X 2

Dimensions
1398(W) x 514(D) x 908(H)mm

Weight
58KG

Panel Voice List			
No.	Pro.	Bank	English Name
1	0	100	Grand Piano
2	1	100	Grand Piano 2
3	4	1	Ele. Piano
4	5	100	Ele. Piano 2
5	6	100	Harpsichord
6	6	1	Harpsichord (with key off)
7	7	1	Clavichord
8	10	1	Music Box
9	11	100	Vibraphone
10	12	1	Marimba
11	16	1	Drawbar Organ
12	17	1	Percussive Organ
13	19	100	Church Organ
14	19	1	Church Organ 2
15	18	1	Reed Organ
16	18	100	Rock Organ
17	21	1	Accordion
18	22	1	Harmonica
19	24	1	Acoustic Guitar (nylon)
20	25	1	Acoustic Guitar (steel)
21	27	1	Electric Guitar (clean)
22	40	1	Violin
23	42	1	Cello
24	48	100	Stereo Strings
25	49	100	Stereo Strings 2
26	50	1	Synth Strings
27	51	1	Synth Strings 2
28	52	1	Choir Aahs
29	53	1	Voice Oohs
30	56	100	Sweet Trumpet
31	61	1	Brass
32	64	100	Soprano Sax
33	66	1	Tenor Sax
34	71	1	Clarinet
35	68	100	Sweet Oboe
36	73	1	Sweet Flute
37	75	1	Pan Flute
38	32	1	Acoustic Bass
39	33	1	Ele. Bass
40	36	1	Slap Bass

GM Voice List			
No.	Pro.	Bank	English Name
Piano			
1	0	0	Acoustic Grand Piano
2	1	0	Bright Acoustic Piano
3	2	0	Electric Grand Piano
4	3	0	Honky-tonk Piano
5	4	0	Electric Piano 1
6	5	0	Electric Piano 2
7	6	0	Harpsichord
8	7	0	Clavi
Chromatic Percussion			
9	8	0	Celesta
10	9	0	Glockenspiel
11	10	0	Music Box
12	11	0	Vibraphone
13	12	0	Marimba
14	13	0	Xylophone
15	14	0	Tubular Bells
16	15	0	Dulcimer
Organ			
17	16	0	Drawbar Organ
18	17	0	Percussive Organ
19	18	0	Rock Organ
20	19	0	Church Organ
21	20	0	Reed Organ
22	21	0	Accordion
23	22	0	Harmonica
24	23	0	Tango Accordion
Guitar			
25	24	0	Acoustic Guitar (nylon)
26	25	0	Acoustic Guitar (steel)
27	26	0	Electric Guitar (jazz)
28	27	0	Electric Guitar (clean)
29	28	0	Electric Guitar (muted)
30	29	0	Overdriven Guitar
31	30	0	Distortion Guitar
32	31	0	Guitar Harmonics
Bass			
33	32	0	Acoustic Bass
34	33	0	Electric Bass (finger)
35	34	0	Electric Bass (pick)
36	35	0	Fretless Bass
37	36	0	Slap Bass 1
38	37	0	Slap Bass 2
39	38	0	Synth Bass 1
40	39	0	Synth Bass 2
Strings & Orchestral Instruments			
41	40	0	Violin
42	41	0	Viola
43	42	0	Cello
44	43	0	Contrabass
45	44	0	Tremolo Strings
46	45	0	Pizzicato Strings
47	46	0	Orchestral Harp

Voice List

48	47	0	Timpani
Ensemble			
49	48	0	String Ensembles 1
50	49	0	String Ensembles 2
51	50	0	Synth Strings 1
52	51	0	Synth Strings 2
53	52	0	Choir Aahs
54	53	0	Voice Oohs
55	54	0	Synth Voice
56	55	0	Orchestra Hit
Brass			
57	56	0	Trumpet
58	57	0	Trombone
59	58	0	Tuba
60	59	0	Muted Trumpet
61	60	0	French Horn
62	61	0	Brass Section
63	62	0	Synth Brass 1
64	63	0	Synth Brass 2
Reed			
65	64	0	Soprano Sax
66	65	0	Alto Sax
67	66	0	Tenor Sax
68	67	0	Baritone Sax
69	68	0	Oboe
70	69	0	English Horn
71	70	0	Bassoon
72	71	0	Clarinet
Pipe			
73	72	0	Piccolo
74	73	0	Flute
75	74	0	Recorder
76	75	0	Pan Flute
77	76	0	Blown Bottle
78	77	0	Shakuhachi
79	78	0	Whistle
80	79	0	Ocarina
Synth Lead			
81	80	0	Lead 1 (square)
82	81	0	Lead 2 (sawtooth)
83	82	0	Lead 3 (calliope)
84	83	0	Lead 4 (chiff)
85	84	0	Lead 5 (charang)
86	85	0	Lead 6 (voice)
87	86	0	Lead 7 (fifths)
88	87	0	Lead 8 (bass + lead)
Synth Pad			
89	88	0	Pad 1 (new age)
90	89	0	Pad 2 (warm)
91	90	0	Pad 3 (polysynth)
92	91	0	Pad 4 (choir)
93	92	0	Pad 5 (bowed)
94	93	0	Pad 6 (metallic)
95	94	0	Pad 7 (halo)
96	95	0	Pad 8 (sweep)

Synth SFX			
97	96	0	FX 1 (rain)
98	97	0	FX 2 (soundtrack)
99	98	0	FX 3 (crystal)
100	99	0	FX 4 (atmosphere)
101	100	0	FX 5 (brightness)
102	101	0	FX 6 (goblins)
103	102	0	FX 7 (echoes)
104	103	0	FX 8 (sci-fi)
Ethnic Misc.			
105	104	0	Sitar
106	105	0	Banjo
107	106	0	Shamisen
108	107	0	Koto
109	108	0	Kalimba
110	109	0	Bag Pipe
111	110	0	Fiddle
112	111	0	Shanai
Percussive			
113	112	0	Tinkle Bell
114	113	0	Agogo
115	114	0	Steel Drums
116	115	0	Woodblock
117	116	0	Taiko Drum
118	117	0	Melodic Tom
119	118	0	Synth Drum
120	119	0	Reverse Cymbal
SFX			
121	120	0	Guitar Fret Noise
122	121	0	Breath Noise
123	122	0	Seashore
124	123	0	Bird Tweet
125	124	0	Telephone Ring
126	125	0	Helicopter
127	126	0	Applause
128	127	0	Gunshot
Drums			
129	0	N\A	Standard Set
130	8	N\A	Room Set
131	16	N\A	Power Set
132	24	N\A	Electronic Set
133	25	N\A	Analog Set
134	32	N\A	Jazz Set
135	40	N\A	Brush Set
136	48	N\A	Orchestra Set
137	56	N\A	SFX Set

NO.	English Name
1	Waltz in A Flat Op.39, No.15
2	The Happy Farmer
3	Etude
4	Dance Of The Four Swans From "Swan Lake"
5	Carmen Suite No.2 Habanera
6	A Little Polish Dance
7	Jesus Saviour Pilot Me
8	Old Macdonald Had A Farm
9	O Sole Mio
10	Wedding March From "Lohengrin"
11	2-Part Invention No.13 In A Minor BWV 784
12	Turkish March
13	Italian Polka
14	Musette
15	Bourree
16	To A Wild Rose
17	Away In A Manger
18	Fur Elise
19	Marriage Of Figaro
20	Angels We Have Heard On High
21	Waltz
22	America The Beautiful
23	Did You Ever See A Lassie
24	Arabesque
25	Old France
26	Santa Claus Is Coming To Town
27	Music Box Dancer
28	Symphony No.9 In E Minor Large From "The New World"
29	Larghetto
30	French Suites

NO.	English Name
31	Mazurka
32	Minuet 1
33	Minuet 2
34	Minuet 3
35	Minuet In G
36	Neapolitan Song
37	Prelude
38	Salut D' Amour
39	Pizzicato Polka
40	Piano Sonata No.11 in A major K331 I. Andante grazioso
41	Songs Without Words Op30 No .6 F sharp minor Venetian Gondola Song
42	Duke Aria From "The Rigoletto"
43	Burgmuller Op.100 No.15 - Ballade
44	Spinning Song
45	In The Theatre
46	Alfredo and Violetta Column Tower Duet
47	Come Back To Sorrento
48	Piano Sonatina In F Major
49	Tchaikovsky Waltz
50	Military March No.1 In D Major
51	Als Die Alte Mutter Mich Noch lehrte Singen
52	Etude on Leger Lines 1
53	Etude on Leger Lines 2
54	At the Ball
55	Dancing Raindrops
56	From a Story Book
57	Comin' 'Round the Mountain
58	Song of the Brook
59	Puck
60	Cotton-pickin' Fingers

MIDI Implementation List

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1ch 1-16ch	ALL 1-16ch	
Mode	Default Messages Altered	× × **********	3 3 ×	
Note Number	Note :True voice	0—127 **********	0—127 0—127	
Velocity	Note on Note off	○ 9nH,V=1-127 × （9nH,V=0）	○ 9nH,V=1-127 ○(9nH,V=0; 8nH,V=0-127)	
After Touch	key's Ch's	× ×	× ×	
Pitch Bend		×	○	
Control Change	0 1 5 6 7 10 11 64 65 66 67 80 81 91 93 120 121 123	○ × × ○ ○ × × ○ × ○ ○ × × ○ ○ × × ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Bank Select Modulation Portamento Time Data Entry Volume Pan Expression Sustain Pedal Portamento ON/OFF Sostenuto Pedal Soft Pedal Reverb Program Chorus Program Reverb Level Chorus Level All Sound Off Reset All Controllers All Notes Off
Program Change	:true	○ **********	○ 0—127	
System Exclusive		×	○	
System Common	:SongPosition :Song Select :Tune	× × ×	× × ×	
System Real Time	:Clock :Commands	○ × *1	× × *1	
Aux Messages	:LOCAL ON/OFF :All Notes Off :Active sense :Reset	× ○ ○ ×	× ○ ○ ○	
Notes:				

- Mode 1: OMNI ON, POLY
- Mode 2: OMNI ON, MONO
- Mode 3: OMNI OFF, POLY
- Mode 4: OMNI OFF, MONO

○: YES
×: NO

DP70_G08