DIGITAL PIANO

Owner's Manual

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 get into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

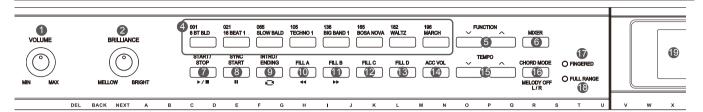Disconnect all cables before moving the instrument.

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Contents

Panel & Display Description

Front Panel

1. [VOLUME] Knob
Adjust master volume

2. [BRILLIANCE] Knob
Adjust voice brilliance

3. USB device socket
Insert a USB flash drive

12. [FILL C] button
A Fill-in C plays

13. [FILL D] button
A Fill-in D plays

14. [ACC VOL] button
Adjust ACCOMP volume

15. [TEMPO+/-] button
Adjust the current tempo

17. A.B.C. MODE lamp
Indicate A.B.C. mode status:
on or off

18. FULL RANGE MODE lamp
Show if the full range mode is
on or off

19. LCD
Show all the parameters related
to the current operation.

When [SHIFT] key pressed
4. Style button
Enter the style mode

When [SHIFT] key released
4. Style direct button
Select a direct style

5. [FUNCTION+/-] button
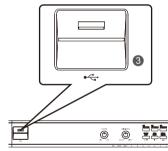Enter function menu

6. [MIXER] button
Enter mixer menu

SONG MODE:
7. [START/STOP] button
Start or stop playing the song

8. [PAUSE] button
Pause or resume playing the
song

9. [REPEAT A/B] button
Set the beginning and the
end for a loop section of a
selected song

10. [REW] button
Rewind the song

11. [FF] button
Fast forward the song

16. [MELODY OFF L/R] button
Use to mute/activate left or
right-hand part, allowing each
part to be practiced separately

STYLE MODE：
7. [START/STOP] button
Start or stop playing the
style

8. [SYNC START] button
Turn the Sync Start on
and off

9. [INTRO/ENDING] button
Play the Intro or Ending

10. [FILL A] button
A Fill-in A plays

11. [FILL B] button
A Fill-in B plays

16. [CHORD MODE] button
Enter the chord mode

LCD

1. Chord display area
Display chord information.

2. Instant message area
Display the current tempo, measure, memory/O.T.S setting.

3. Status display area
Display the status of function, USB drive, USB, etc.

4. System message display area
Display important messages related to the current operation.
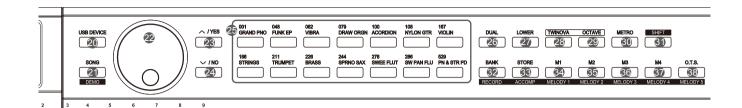I.e. in voice mode, it displays the voice name and number.

Panel & Display Description

20. [USB DEVICE] button
Enter USB DEVICE menu

22. Data dial
Increase and decrease the value

23. [+/YES] button
Increase the value

24. [-/NO] button
Decrease the value

26. [DUAL] button
Turn the Voice R2 on and off

27. [LOWER] button
Turn the Voice L1 on and off

28. [TWINOVA] button
Turn the TWINOVA on and off

29. [OCTAVE] button
Set octave in TWINOVA mode

30. [METRO] button
Turn the metronome on and off

When [SHIFT] key pressed
21. [DEMO] button
Enter demo mode and play demo songs

25. [VOICE] button
Enter the voice mode

32. [RECORD] button
Enter record mode

33. [ACCOMP] button
Select the accompaniment track to record

34~38. MELODY 1-5 button
Select the melody track 1-5 to record

31. [SHIFT] button
Press and hold it to access secondary functions of other buttons

When [SHIFT] key released
21. [SONG] button
Enter song mode and play songs

25. Voice direct button
Select a direct voice

32. [BANK] button
Select a bank to store settings

33. [STORE] button
Register the current panel settings

34~37.M1~M4 button
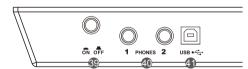Recall the registered panel settings

38. [O.T.S] button
Turn One Touch Setting on and off

Rear Panel

39. POWER SWITCH
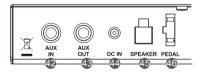Turn the power on and off

40. PHONE 1 / PHONE 2
Please refer to Connecting a pair of Headphones

41. USB JACK
Connect to a computer

42. AUX IN Jack
Connect an external sound source, such as an MP3 or CD player

43. AUX OUT Jack
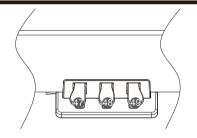Connect the audio equipment

44. DC IN Jack
Connect DC power adaptor

45. SPEAKER Jack
Connect the loudspeaker

46. PEDAL Jack
Connect the unit pedal

Pedal

47. Soft Pedal
When you step on the soft pedal, all notes played on the keyboard will have a softer effect.

48. Sostenuto Pedal
When you step on the sostenuto pedal, the notes played before you step on the pedal would have a sustain effect.

49. Sustain Pedal
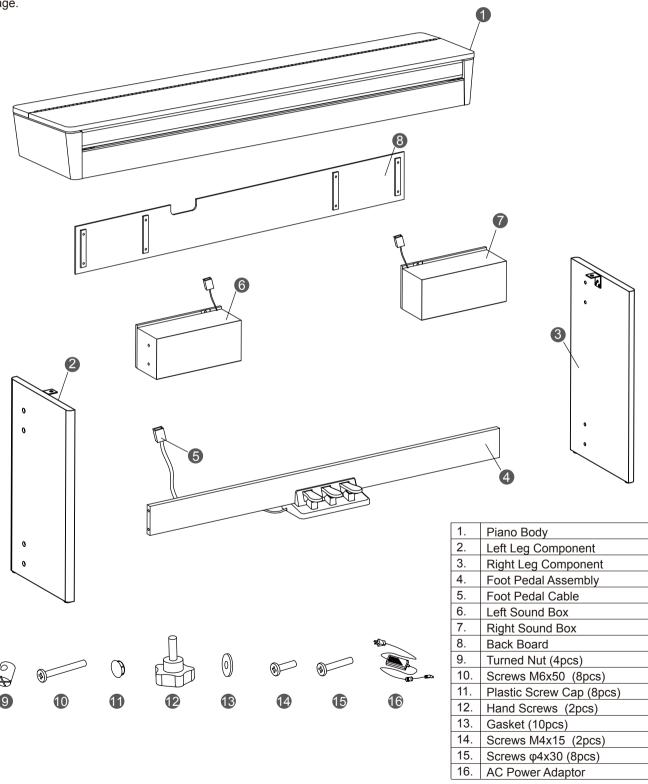When you step on the sustain pedal, all notes played on the keyboard will have a longer sustain

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Setup

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

Setup Guide

Before you proceeding to assemble the stand, get a Philips screwdriver (not supplied).
Make sure you have the following parts, which are supplied in the package.

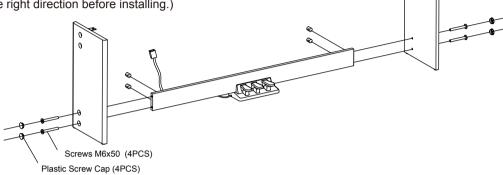| 1.	Piano Body
2.	Left Leg Component
3.	Right Leg Component
4.	Foot Pedal Assembly
5.	Foot Pedal Cable
6.	Left Sound Box
7.	Right Sound Box
8.	Back Board
9.	Turned Nut (4pcs)
10.	Screws M6x50 (8pcs)
11.	Plastic Screw Cap (8pcs)
12.	Hand Screws (2pcs)
13.	Gasket (10pcs)
14.	Screws M4x15 (2pcs)
15.	Screws φ4x30 (8pcs)
16.	AC Power Adaptor

A. Install the piano legs as shown below.
First, insert the four Turned Nuts into the holes at the back of the Pedal Panel.
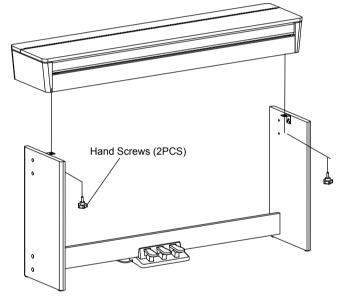Second, align both the left and the right legs to each side of the Pedal Panel.
Third, insert the screws M6 x 50 through the screw holes and fit them into the Turned Nuts. Finally, tighten with a screwdriver and place the plastic caps on top.
(Check the components in the right direction before installing.)

Screws M6x50 (4PCS)

Plastic Screw Cap (4PCS)

B. As shown below, Place the piano body on the stand, fix it with four hand screws.

Hand Screws (2PCS)
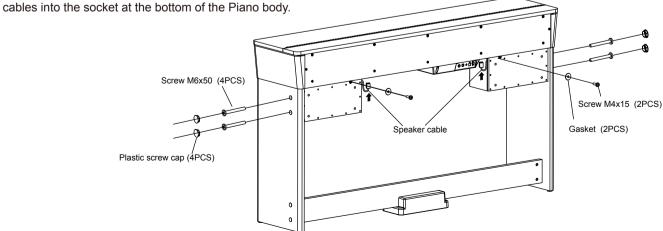
C. Install the Sound Boxes as shown below.
First, place the sound boxes as shown.
Second, insert the screws M6x50 through holes on the legs and fit them into the sound box. Tighten with a screwdriver and place the plastic caps on top.
Third, insert the screws M4x15 through the sound boxes and fit them into the holes at the bottom of The Piano.
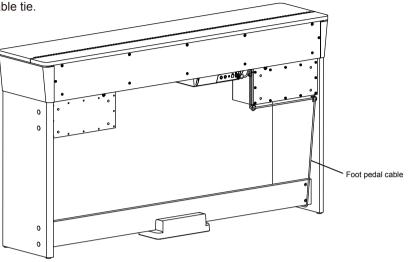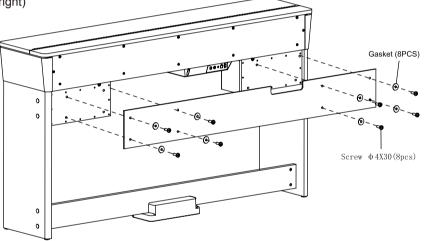Tighten with a screwdriver. Finally, insert the sound box cables into the socket at the bottom of the Piano body.

Screw M6x50 (4PCS)

Plastic screw cap (4PCS)

Speaker cable

Screw M4x15 (2PCS)

Gasket (2PCS)

Setup

D. Insert the pedal cord to the Pedal jack at the rear of The
Piano and fix the cord to the sound boxes with a cable tie.

Foot pedal cable
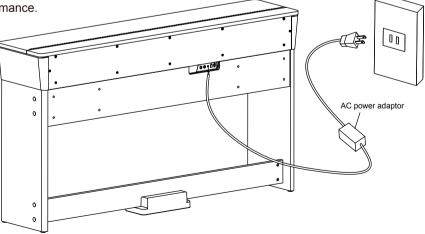
E. Fix the back board to the sound box cover (left and right)
with gasket and screw φ4*30.

Gasket (8PCS)

Screw φ4X30(8pcs)

F. Connect the power cord to the DC IN jack at the rear of The
Piano, and then plug it to an AC outlet.
The installation is completed now.
Turn on the power and enjoy the perfect performance.

AC power adaptor

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Connections

Power Jack
Power Supply
1. Make sure that the piano is turned off. Before you switch the piano on or off , turn down the volume of piano and any connected audio equipments first.

2. Connect the AC adaptor to the power supply jack of this piano.

3. Plug the AC adaptor into an AC outlet.

4. Press the [POWER] button, the LCD will display "LOADING...", Which indicates the piano is powered on.

5. If you are ready to turn off the piano, press the [POWER] button again.

Notes:
1. The piano will automatically shut down in about 30 minutes if it is not used.
2. When the keyboard 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.
Phones1: when a pair of headphones is plugged into the jack 1, the internal stereo speaker system is automatically shut off. The sound can only be heard from headphones.
Phones2: when a pair of headphones is plugged into the jack 2, the sound can be heard from both headphones and speakers of the instrument.

Note:
To avoid the risk of hearing loss, do not listen with headphones at high volume level for a long period of time.

Connecting an Audio Equipment
The rear-panel AUX.OUT jack delivers the output of the instrument to a keyboard amplifier, a mixing console, or tape recorder. Use an audio cord to connect the AUX OUT jack on the rear panel to the AUX IN jack of the amplifier.
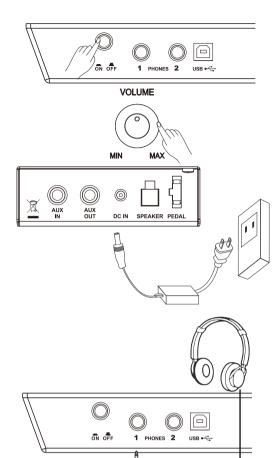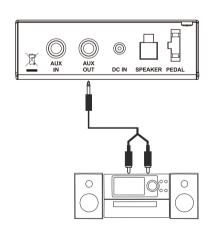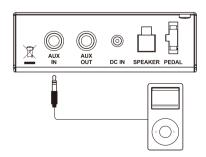
Note:
To avoid damaging the speakers, set the volume level to minimum before connecting the power and other devices.

Connecting an 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.
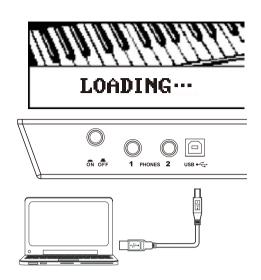The input signal is mixed with the piano signal, allowing you to play along.

VOLUME
MIN   MAX

ON OFF   1 PHONES 2   USB

AUX IN   AUX OUT   DC IN   SPEAKER PEDAL

Connections

Connecting a Computer

You can use the USB jack to receive MIDI messages from computer or transmit MIDI messages to computer.

Note:
Do not set the USB device to be input and output simultaneously when setting the software on PC. Otherwise the sound will be overlapped when playing the keyboard.

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Adjusting the Master Volume

Rotate the [VOLUME] knob to right, the volume increases and vice versa.

VOLUME

MIN   MAX

Adjusting the Voice Brilliance

Rotate the [BRILLIANCE] knob to right, the voice sounds brighter and vice versa. You can change the piano brilliance as you wish.

BRILLIANCE

MELLOW   BRIGHT
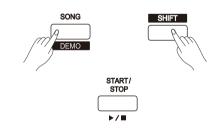
Playing the Demo Song

The instrument features 5 wonderful demos. Please refer to Demo List.
1. Holding down the [SHIFT] button, then press the [DEMO] button to start the demo song playing, and the LCD will display the number and name of the demo.

2. Beats Flashing
   During demo playback, the LED indicator of [START/STOP] will flash with the current tempo, red for strong beat and green for weak beat.

3. You can use the data dial, [+/YES] / [-/NO]button to select a demo song.

4. Holding down the [SHIFT] button, then press the [demo] button or press the [START/STOP] button directly to stop playing and exit the demo mode.

Note:
1. In demo mode, only the following button functions will be available: [DEMO], [START/STOP], [TEMPO+/-], [+/YES], [-/NO], Data dial, [VOLUME], [BRILLIANCE], and [POWER].
   All other buttons and the keyboard function will become invalid.

2. In recording, style or song mode, the LED indicator of [START/STOP] will flash with the current tempo.

SONG   SHIFT
DEMO

START/
STOP

▶/■

TEMPO MEAS MEM
130   001 01-1
L/R
Demo   001
    Demo1

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Playing Voices

The instrument features 600 exceptionally realistic voices. Please refer to Voices List.

Playing Voices
1. In standby mode, holding down the [SHIFT] button, then press one of the voice direct button to enter the voice mode. LCD will display the name and number of the current voice and highlights "R1".

2. Use the data dial, [+/YES]/ [-/NO] button to select the voice you want to play. You can also use the voice direct button to select a voice.

3. Play the keyboard and enjoy the wonderful voice.

Note:
When the Dual and Lower functions are on, hold down [SHIFT] button, then press one of the voice select buttons to shift the voice source between R1, R2 and L1. The selected one will be highlighted on LCD.

Playing two voices simultaneously-DUAL
1. In standby mode, press [DUAL] button to turn on dual voice. LCD displays current voice name and number, and highlights "R2".

2. When "R2" is highlighted, use the data dial, the [+/YES], [-/NO] button or voice direct button to select the dual voice you want to play.

3. Play the keyboard, you will hear two different voices sounded simultaneously in a layer. It seems like two instruments playing at the same time.

Note:
When the keyboard has been split, only the right hand area will play the dual voice.

Play Different Voices with Both hands-LOWER
1. In standby mode, press [LOWER] button to turn on lower voice. The keyboard is split into two independent areas, which have different voices. LCD displays the left hand voice name and number, and highlights "L1".
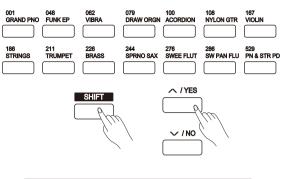
2. When "L1" is highlighted, use the data dial, the [+/YES], [-/NO] button or voice direct button to select the lower voice you want to play.

3. Play the keyboard with both hands, and you will hear two different voices from the two areas.

Note:
The right hand voice will not change when you change lower voice.
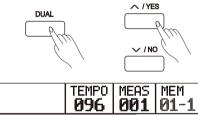
Split Point
The Point on the keyboard that separates voice L1 and voice R1/R2 is called the "split point". The split point is set to F#3/G3 at the factory setting. However you can set this to any key you want. Please refer to KeySplit setting for split point.

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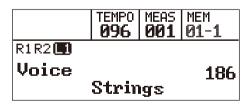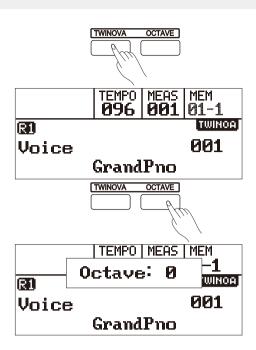
Twinova

The twinova mode splits the keyboard into two independent areas, which have the same pitch and voice, for the convenience of one-to-one teaching.

1. In standby mode, press [TWINOVA] button to turn on twinova. LCD highlights "TWINOA". In twinova mode, dual voice and lower voice are unavailable. The default split point is E3 (32). Press [TWINOVA] button again you can exit twinova.

2. In twinova mode, the default voice of right hand and left hand is the upper voice you select before entering twinova mode. Use the data dial, the [+/YES], [-/NO] button or the voice direct button to select a voice.

3. In twinova mode, press [OCTAVE] button, LCD temporarily displays the octave value of twinova. Now you can use the data dial, the [+/YES], [-/NO] button to set octave value of twinova. The range of octave is -1 to 1.

Note:
1. During song playback, the twinova is invalid.
2. Please refer to Split Point setting to set the split point.

Auto Accompaniment

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is to play the chords with your left hand using your selected accompaniment style, and then the accompaniment will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra.
This keyboard features 240 (including 10 user styles: 231-240) styles in a variety of musical genres. Try to select some of the different styles (refer to Style List) and enjoy the auto accompaniment.
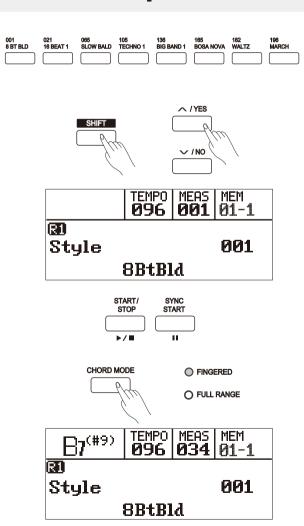
Play Auto Accompaniment(rhythm track only)

1. In standby mode, hold down the [SHIFT] button, then press any of the style direct button to enter the style mode. LCD displays the name and number of the current style.

2. Use the data dial, the [+/YES], [-/NO] button or the style direct button to select a style.

3. Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment. Also you can press [SYNC START] and then play any key to start the rhythm tracks of the auto accompaniment.

Play Auto Accompaniment(all tracks)

1. In standby mode, press [CHORD MODE] button to enter "auto bass chord" (A.B.C.)mode. The "FINGERED" LED on the panel will light up. The keyboard is split into two areas. Play chords in the left hand area.
Press [CHORD MODE] button again to enter "full range" mode. The "FULL RANGE" LED on the panel will light up. You can play chords over the entire keyboard in normal fingering.

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Auto Accompaniment

2. Press [SYNC START] button, and then play a chord in the chord area to start auto accompaniment of all tracks. When you change a chord, the accompaniment automatically changes.
Alternatively, press [START/STOP] button to start auto accompaniment of rhythm track, then play a chord in the chord area. It will start auto accompaniment of all tracks

Accompaniment Sections

There are various types of Auto Accompaniment sections that allow you to vary the arrangement of the accompaniment to match the song you are playing.
They are: Intro, Main (A,B,C,D), Fill (A, B,C,D), and Ending.
By switching among them during your performance you can easily produce the dynamic elements of a professional sounding arrangement in your performance.

INTRO Section

The intro is an opening section of the song. When the intro pattern is finished, the system will automatically shift to the main section.

MAIN Section

The main is an important section of the song. And it plays an accompaniment pattern and repeat infinitely until another section's button is pressed.

FILL IN Section

Auto fill in function automatically adds a fill to your performance. When the fill-in is finished, accompaniment shifts to the Main section (A,B,C,D).

ENDING Section

Ending is used for the ending of the song. When the ending is finished, accompaniment automatically stops. The length of the ending differs depending on the selected style.

Note:
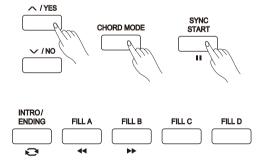
During style playback, hold down one of the FILL [A]-[D] buttons, and the selected fill-in pattern will play continuously until the button is released.
When style stops, press one of the FILL [A]-[D] buttons to select a main section. The corresponding LED will light up.

Playing Different Accompaniment Sections

1. Press style direct button or use the data dial, [+/YES]/[-/NO] button to select a style.

2. Press [CHORD MODE] button to enter A.B.C. (auto bass chord) mode.

3. Press [SYNC START] button.

4. Press [FILL A] button.

5. Press the [INTRO/ENDING] button. Now "A" LED flashes on panel, the style is ready to play.

6. It will start the accompaniment as soon as you start playing in Chord section. When the intro is finished, it automatically leads into Main A section.

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7. Press the [FILL B] / [FILLDC] / [FILL D] button. A fill-in plays, automatically followed by the Main B/C/D section.

8. Press the [INTRO/ENDING] again will lead it into the Ending Section. When the ending is finished, the auto accompaniment automatically stops.

Accompaniment Volume

The function will adjust the accompaniment volume, so as to keep an appropriate balance between the accompaniment volume and the voice volume.
Press [ACC VOL] button, the LCD will display ACCOMP volume. At this time, you can use the data dial, or [+/YES]/[-/NO] button to adjust accomp volume. (from 0 to 127)

Chord Fingering

How the chords are played or indicated with your left hand (in the auto accompaniment section of the keyboard) is referred to as "fingering". There are 2 types of fingerings as described below.

Chord Basics

A chord, in music, is any harmonic set of three or more notes that is heard as if sounding simultaneously. The most frequently encountered chords are triads. A triad is a set of three notes that can be stacked in thirds. When stacked in thirds, the triad's members, from lowest pitched tone to highest, are called: the Root, the Third, and the Fifth.

Triad Type

There are following basic triad types:

Major Triad	A root with a major third added above and a perfect fifth will consist as a "Major Triad".
Minor Triad	A root with a minor third added above and a perfect fifth will consist as a "Minor Triad".
Augmented Triad	A root with a major third added above and an augmented fifth will consist as an "Augmented Triad".
Diminished Triad	A root with a minor third added above and a diminished fifth will consist as a "Diminished Triad".

Chord Inversion

We define this chord its root is not in the bass (i.e., is not the lowest note) as an inversion chord. When the root is in the bass, we call the chord: root-position chord. If we put the Third and Fifth in the root position, then it forms "Inversion", we call this chord "Inversion Chord". See the following major triad and its inverted chord.
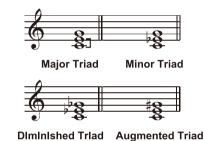
Chord Name
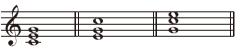
The chord name contains two parts content: Chord root and Chord type.

Single Finger
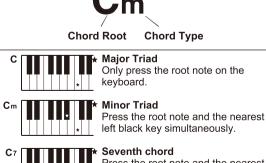
Single-finger makes it simple to produce major, seventh, minor and minor seventh chords by pressing a minimum number of keys on the auto accompaniment section.

Fifth
Third — Root

Major Triad   Minor Triad

Diminished Triad   Augmented Triad
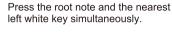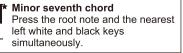
Root Position   First Inversion   Second Inversion

Cm
Chord Root   Chord Type

C	★ **Major Triad** Only press the root note on the keyboard.
Cm	★ **Minor Triad** Press the root note and the nearest left black key simultaneously.
C7	★ **Seventh chord** Press the root note and the nearest left white key simultaneously.
Cm7	★ **Minor seventh chord** Press the root note and the nearest left white and black keys simultaneously.

Auto Accompaniment

Multi-finger
Multi-finger allows you to play chords in normal fingering. Try playing the 32 chord types in C scale as listed on the right.

Note:
In full range mode, the entire keyboard will only recognize chords played in normal fingering.

Tempo
Each style of the instrument has been set with a default or standard tempo, however, this can be changed by using the [TEMPO+]/[TEMPO-] buttons.
1. Use the [TEMPO+] or [TEMPO-] button to change the tempo. While the tempo data is flashing, use the data dial also can change the tempo.

2. Press the [TEMPO+]/[TEMPO-] buttons simultaneously to restore the default tempo setting.

One Touch Setting
When One Touch Setting is switched on, you can instantly recall all auto accompaniment related settings including voices selection and digital effects simply with a single touch of a button.
1. Press the [O.T.S.] button to turn on the One Touch Setting for current style.

2. Press one of the one touch setting buttons [M1]-[M4]. Various panel settings (such as voice, effect, etc.) that match the selected style can be instantly recalled.
   Auto accompaniment is automatically turned on during O.T.S mode.

3. Play the keyboard.
   One Touch Setting parameter list:
   Part ON/OFF (VOICE R1, R2, L1)
   Voice Change (VOICE R1, R2, L1)
   Voice Volume (VOICE R1, R2, L1)
   Voice Reverb Level (VOICE R1, R2, L1)
   Voice Chorus Level (VOICE R1, R2, L1)

Metronome
The metronome provides a steady beat to help you practise at a preset tempo.
1. Turn on the metronome
   Press the [METRO] button to turn the metronome on.
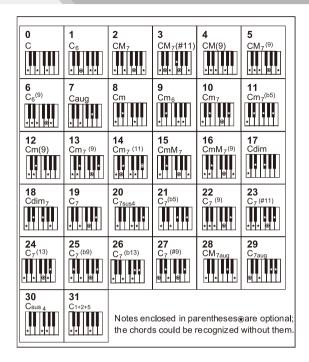
2. Turn off the metronome
   Press the [METRO] button again to turn the metronome off.

3. Metronome beat type setting
   Please refer to the Beat Type setting.
Note:
The metronome will respond in the next beat if it is turned on when the accompaniment is playing.
In recording, metronome beats cannot be recorded.
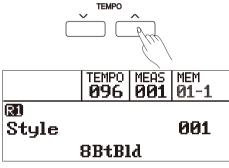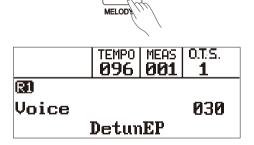
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Notes enclosed in parentheses are optional; the chords could be recognized without them.

Mixer function adjusts separately the volume of different tracks.
1. Press the [MIXER] button.
   Enter the mixer menu. Press the [MIXER] button repeatedly to select a track to change its volume.

2. To adjust the selected volume setting, please use the data dial or the [+/YES]/[-/NO] button.

   Press [+/YES] and [-/NO] button simultaneously to turn off a track volume.

   Press[+/YES]and[-/NO] button simultaneously again to turn on a track volume.

   The option and parameters are as follows:

Option	LCD display	Range
Rhythm slave volume	Slave Rhythm: xxx	0 - 127
Rhythm master volume	Master Rhythm: xxx	0 - 127
Bass volume	Bass: xxx	0 - 127
Chord 1 volume	Chord1: xxx	0 - 127
Chord 2 volume	Chord2: xxx	0 - 127
Chord 3 volume	Chord3: xxx	0 - 127
Phrase 1 volume	Phrase1: xxx	0 - 127
Phrase 2 volume	Phrase2: xxx	0 - 127
Voice R1 volume	Upper1: xxx	0 - 127
Voice R2 volume	Upper2: xxx	0 - 127
Voice L volume	Lower: xxx	0 - 127
Disk volume	Disk Vol: xxx	0 - 127

MIXER   ∧ / YES   ∨ / NO

```
TEMPO MEAS MEM
 096  001 01-1
R1
MixerSet
Rhythm_m Vol:     108
```

Other Functions

Press [FUNCTION+/-] button to enter function menu. The default option of the menu is "Tune". When you enter the menu next time, you will find the option is the same as last time. Use [FUNCTION+/-] button to select the option to set. Use [+/YES]/[-/NO] or data dial to set parameter of the current option.

The option and parameters are as follows:

| No.	Option	Range	Default
1	Tune	-50~+50	+00
2	Transpose	-12~+12	+00
3	Split Point	1~88	034
4	Beat Type	0，2~9	004
5	Beat Volume	0~127	090
6	Harmony Switch	OFF，ON	OFF
7	Harmony Type	Duet, 1+5, Octave, CtryDuet, Trio, Block, 4Close1, 4Close2, 4Open	Duet
8	Scale Switch	OFF，ON	OFF
9	Scale type	Pythagor, Major, Minor, MeanTone, Werckmei, Kirnberg	Pythagor
10	Scale Root	C，C#，D，D#，E，F，F#，G，G#，A，A#，B	C
11	EQ type	Reset, Pop, Rock, Class, Jazz, Dance	Reset
12	DSP Effect	OFF，ON	ON
13	Reverb Type	Room1, Room2, Room3, Hall1, Hall2, Church, Delay, PanDelay	Hall1
14	Reverb Level	0~127	070
15	Chorus Type	Chorus1, Chorus2, GM Chrs1, GM Chrs2, Flanger1, Flanger2,Rotary1, Rotary2	Chorus1
16	Chorus Level	0~127	000
17	MIDI IN	1~16，ALL	ALL
18	MIDI OUT	1~16	001
19	Touch	OFF，1，2，3	002
20	Language	中文，English	English
21	Power Off	OFF，30，60	030

Tune
This function sets the pitch of entire keyboard in 2-cent increments.
1. Press [FUNCTION+/-] button to select tune menu. LCD displays "Tune: xxx ". Use [+/YES]/[-/NO] or data dial to change tune value. Its range is from -50 to 50.
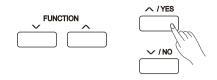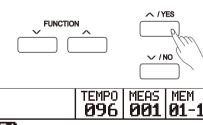
2. Press [+/YES] and [-/NO] simultaneously will set the tune value to its default setting:000.

Transpose
Transpose function allows the overall pitch of the instrument to be transposed up or down by a maximum of one octave in semitone steps.
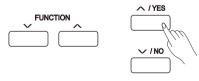
1. Press [FUNCTION+/-] button to select transpose menu. LCD displays "Transpose: xxx". Use [+/YES]/[-/NO] or data dial to change transpose value. The range is±12 semitones.

2. Press [+/YES]/[-/NO] simultaneously will set the transpose value to its default setting:000.

FUNCTION   ∧ / YES   ∨ / NO

FUNCTION   ∧ / YES   ∨ / NO

```
TEMPO  MEAS  MEM
096    001   01-1
R1
FunctionSet
Tune:            +00
```

FUNCTION   ∧ / YES   ∨ / NO

```
TEMPO  MEAS  MEM
096    001   01-1
R1
FunctionSet
Transpose:       +00
```

SplitPoint

This function sets the point that separates the entire keyboard to two sections.

1. Press [FUNCTION+/-] button to select SplitPoint menu. LCD displays "SplitPt: xxx". Use [+/YES]/[-/NO] or data dial to change SplitPoint value. The range of keyspilit: 1~88.

2. Press [+/YES] and [-/NO] simultaneously will set the SplitPoint value to its default setting: F#3(34).

Note:
When twinova is on, the range of keysplit is C3~C6(28~64). Press [+/YES] and [-/NO] simultaneously will set the SplitPoint value to its default setting: E3(32).

Beat Type

1. Press [FUNCTION+/-] button to select beat type menu. LCD displays "BeatType: xxx". Use [+/YES]/[-/NO] or data dial to change beat type. The range of beat type: 0, 2~9.

2. Press [+/YES] and [-/NO] simultaneously will set the beat type value to its default setting: 4.

Beat Volume

1. Press [FUNCTION+/-] button to select beat volume menu. LCD displays "BeatVol: xxx". Use [+/YES]/[-/NO] or data dial to change beat volume. The range of beat volume: 0~127.

2. Press [+/YES] and [-/NO] simultaneously will set the beat volume value to its default setting: 090.

Harmony Switch

1. Press [FUNCTION+/-] button to select harmony switch menu. LCD displays "HarmonySw: xxx". Use [+/YES]/[-/NO] or data dial to change harmony switch status: OFF,ON.

2. Press [+/YES] and [-/NO] simultaneously will set harmony switch to default setting: OFF.

Playing with harmony:
Turn on the A.B.C function, then play a chord in the left hand area. When you play in the right hand area, it will automatically add a harmony effect to the notes.
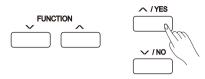
Harmony types "1+5" and "octave" are always available, while the rest are effective only when A.B.C is on.

Harmony Type

You can add a variety of harmony notes to the keys you played in the right-hand section.
1. Press [FUNCTION+/-] button to select harmony type menu. LCD displays "HarmonyTp: xxx". Use [+/YES]/[-/NO] or data dial to change harmony type.
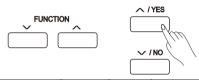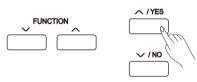
Other Functions
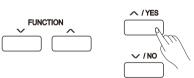
There are 9 harmony types in this instrument.

Parameter	LCD Display
Duet	Duet
1+5	1+5
Octave	Octave
Country Duet	CtryDuet
Trio	Trio
Block	Block
4 Close 1	4Close1
4 Close 2	4Close2
4 Open	4Open

2. Press [+/YES] and [-/NO] simultaneously will set harmony type to
   default setting: Duet.

Scale Switch

The equal temperament (has only one tuning method, and is suitable
for keyboard instrument) is commonly used in modern music, based
on this temperament method to make your own composition and
performance. Especially for piano, equal temperament is widely used
and taken for granted. But people used several other scales to
compose and perform before adopting the equal temperament.

1. Press [FUNCTION+/-] button to select scale switch menu. LCD
   displays "ScaleSw: xxx". Use [+/YES]/[-/NO] or data dial to change
   Scale switch status: OFF, ON.

2. Press [+/YES] and [-/NO] simultaneously will set scale switch to
   default setting: OFF.

Scale Type

1. Press [FUNCTION+/-] button to select scale type menu.
   LCD displays "ScaleType: xxx". Use [+/YES]/[-/NO] or data dial to
   change scale type.
   There are 6 scale types in this instrument.
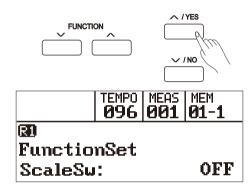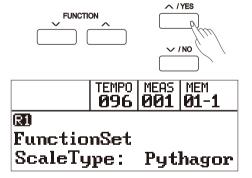
Parameter	LCD Display
Pythagorean	Pythagor
Pure Major	Major
Pure Minor	Minor
Meantone	MeanTone
Werkmeister	Werckmei
Kirnberger	Kirnberg
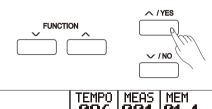
2. Press [+/YES] and [-/NO] simultaneously will set scale type to
   default setting: Pythagor.

Scale Root

1. Press [FUNCTION+/-] button to select scale root menu.
   LCD displays "ScaleRoot: xxx". Use [+/YES]/[-/NO] or data dial to
   change scale root: C, C#, D, D#, E, F, F#, G, G#, A, A#, B.

2. Press [+/YES] and [-/NO] simultaneously will set scale root to
   default setting: C.

EQ Type

EQ function can control the gain of different frequency band. And different gain settings produce different sound field effects.

1. Press [FUNCTION+/-] button to select EQ type menu.
   LCD displays "EqType: xxx". Use [+/YES]/[-/NO] or data dial to change EQ type.
   There are 6 EQ types in this instrument.

Parameter	LCD Display
Reset	Reset
Pop	Pop
Rock	Rock
Class	Class
Jazz	Jazz
Dance	Dance

2. Press [+/YES] and [-/NO] simultaneously will set EQ type to default setting: Reset.

DSP Effect

1. Press [FUNCTION+/-] button to select DSP effect menu. LCD displays "DspEffect: xxx". Use [+/YES]/[-/NO] or data dial to change DSP switch status: OFF, ON.

2. Press [+/YES] and [-/NO] simultaneously will set DSP switch to default setting: ON.

Reverb Type

1. Press [FUNCTION+/-] button to select reverb type menu.
   LCD displays "ReverbType: xxx". Use [+/YES]/[-/NO] or data dial to change reverb type.
   There are 8 reverb types in this instrument.

Parameter	LCD Display
Room 1	Room1
Room 2	Room2
Room 3	Room3
Hall 1	Hall1
Hall 2	Hall2
Church	Church
Delay	Delay
Pan Delay	PanDelay
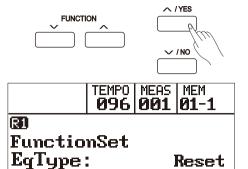
2. Press [+/YES] and [-/NO] simultaneously will set reverb type to default setting: Hall1.
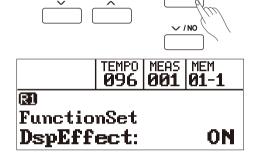
Reverb Level

1. Press [FUNCTION+/-] button to select reverb level menu.
   LCD displays "ReverbLev: xxx". Use [+/YES]/[-/NO] or data dial to change reverb level.
   The range of reverb level: 0~127.
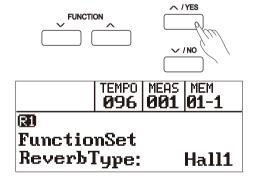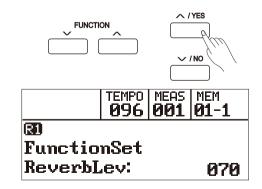
2. Press [+/YES] and [-/NO] simultaneously will set reverb level to default: 070.

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Other Functions

Chorus Type

1. Press [FUNCTION+/-] button to select chorus type menu.
   LCD displays "ChorusType: xxx". Use [+/YES]/[-/NO] or data dial to change chorus type.
   There are 8 chorus types in this instrument.

Parameter	LCD Display
Chorus 1	Chorus1
Chorus 2	Chorus2
GM Chorus 1	GM Chrs1
GM Chorus 2	GM Chrs2
Flanger 1	Flanger1
Flanger 2	Flanger2
Rotary 1	Rotary1
Rotary 2	Rotary2

2. Press [+/YES] and [-/NO] simultaneously will set chorus type to default setting: Chorus1.

Chorus Level

1. Press [FUNCTION+/-] button to select chorus level menu.
   LCD displays "ChorusLev: xxx". Use [+/YES]/[-/NO] or data dial to change chorus level.
   The range of chorus level: 0~127.

2. Press [+/YES] and [-/NO] simultaneously will set chorus level to default: 000.

MIDI IN

1. Press [FUNCTION+/-] button to select MIDI IN menu. LCD displays "MidiIn: xxx". Use [+/YES]/[-/NO] or data dial to change MIDI IN channel:1~16,ALL.

2. Press [+/YES] and [-/NO] simultaneously will set MIDI IN channel to default setting: ALL.
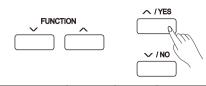
MIDI OUT

1. Press [FUNCTION+/-] button to select MIDI OUT menu. LCD displays "MidiOut: xxx". Use [+/YES]/[-/NO] or data dial to change MIDI OUT channel:1~16.

2. Press [+/YES] and [-/NO] simultaneously will set MIDI OUT channel to default setting: 001.

Touch

The keyboard is equipped with a touch response feature that lets you dynamically and expressively controls the level of the voice with your playing strength just as on an acoustic instrument.
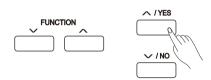
1. Press [FUNCTION+/-] button to select touch menu. LCD displays "Touch: xxx". Use [+/YES]/[-/NO] or data dial to change touch type: OFF, 1(soft), 2(normal), 3(hard).

2. Press [+/YES] and [-/NO] simultaneously will set touch value to default setting: 2(normal).

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FUNCTION ⌃/YES ⌄/NO

```
      TEMPO MEAS MEM
       096  001  01-1
R1
FunctionSet
ChorusType: Chorus1
```
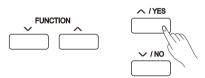
```
      TEMPO MEAS MEM
       096  001  01-1
R1
FunctionSet
ChorusLev:        000
```
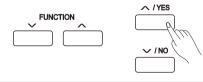
```
      TEMPO MEAS MEM
       096  001  01-1
R1
FunctionSet
MidiIn:          ALL
```

```
      TEMPO MEAS MEM
       096  001  01-1
R1
FunctionSet
MidiOut:          001
```

```
      TEMPO MEAS MEM
       096  001  01-1
R1
FunctionSet
Touch:            002
```

Language
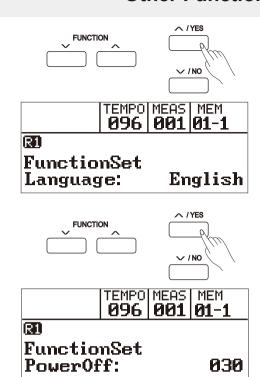
This function is used to set the system language.
1. Press [FUNCTION+/-] button to select language menu. LCD displays "Language: xxx". Use [+/YES]/[-/NO] or data dial to change language: 中文，English

2. The language setting will not be lost after power off.


```
            TEMPO MEAS  MEM
            096   001  01-1
R1
FunctionSet
Language:        English
```

PowerOff

This function is used to set the time of automatic shutdown.
1. Press [FUNCTION+/-] button to select power off menu. LCD displays "PowerOff: xxx". Use [+/YES]/[-/NO] or data dial to change time value: OFF, 030, 060

2. Press [+/YES] and [-/NO] simultaneously, the time will be restore default: 030 minutes


```
            TEMPO MEAS  MEM
            096   001  01-1
R1
FunctionSet
PowerOff:          030
```

Register Memory

The keyboard is an instrument with a variety of controls and functions, the Registration Memory feature can make your performance more easily and efficiently. It allows you to save virtually all panel settings to a Registration Memory setting, and you can instantly recall custom panel settings by pressing a single button.

Registering the Panel Setting

1. There are 24 memory banks, each bank has 4 memories (M1-M4).

2. Hold down the [STORE] button, then press one of the REGISTRA-TION MEMORY buttons: [M1] - [M4]. Notice that the new settings will replace the previous memory data.

Recalling the Registered Panel Settings

Press one of the MEMORY buttons [M1] - [M4] to recall a panel setting.
For example, press [M3] and LCD shows "01-3". It will recall a setting from memory 3 of bank 1.
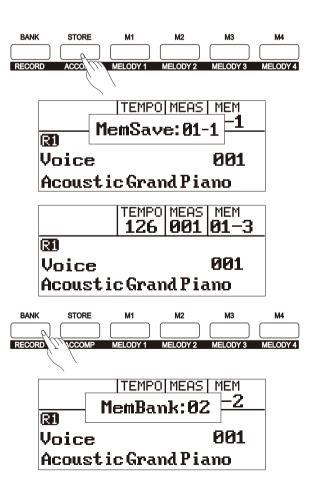
Note:
Registration data cannot be recalled when the One Touch Setting function is on.

Selecting a Registration Bank

1. Press the [BANK] button. There are 24 banks at all and each bank has 4 memories(M1-M4). Press the [BANK] button, the LCD displays "MemBank" .

2. Select a bank. Use the data Ddal, [+/YES] or [-/NO] button to select a bank from 1 to 24.


```
            TEMPO MEAS  MEM
              MemSave:01-1 -1
R1
Voice              001
Acoustic Grand Piano
```



```
            TEMPO MEAS  MEM
            126   001  01-3
R1
Voice              001
Acoustic Grand Piano
```



```
            TEMPO MEAS  MEM
              MemBank:02   -2
R1
Voice              001
Acoustic Grand Piano
```

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Song Recording

With the easy-to-use song recording features, you can record your own keyboard performances as a user song. 10 user songs can be recorded with 6 tracks (1 ACCOMP track, 5 MELODY tracks) each. The accomp track records the accompaniment for a user song, while the melody tracks record melodies for a user song.

An accomp track and a melody track can be recorded independently or together, however, you can not record two melody tracks at the same time.
You can play back the accomp track and melody tracks together. The saved data will not be lost after power off.

Start Recording
Before recording starts, you will need to select a user song to which your recording will be saved.

1. Holding down [SHIFT] button, then press [RECORD] button to enter the user song selection interface. The LCD displays "RecSong1" and sequence number. 10 user songs can be recorded. Press [+/YES] / [-/NO] button to select the user song you want.

2. Hold down [SHIFT] button, then press [RECORD] button again to enter the recording standby mode. "REC" appears on LCD, and the [START/STOP] LED on the panel lights up.
It will automatically select an empty track to record your performance. LED of the selected track (ACCOMP, MELODY1 - MELODY 5) will flash on the panel.

3. In recording standby mode, you can select your desired voice, style and tempo.
Hold down [SHIFT] button, then Press [Accomp] or [Melody1] - [Melody 5] to select a different track. LED of the selected track will light up on the panel.
An accomp track and a MELODY track can be recorded together, but it cannot record two melody tracks simultaneously.

4. Press [START/STOP] button or play the keyboard to start recording. The [RECORD] LED will light up.
When the accomp track is selected and A.B.C is on, recording will start as soon as you play a chord in the left hand area.

Note:
Style can only be recorded in "Accomp" track.
Track indicators on the left of LCD usually shows one of three states: blinking, light up, light off. Press the track buttons repeatedly to shift between different states.
Blinking: the track is selected for recording. All existing data will be over-written.
Light up: the track has data and will play back the data during recording.
Light off: the track either has no data or is under recording and cannot play back.
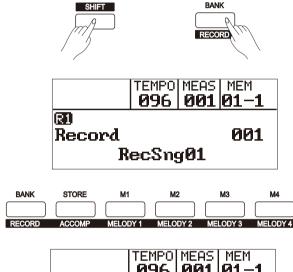
In recording standby mode, the keyboard will automatically select the empty track next to the occupied track. For example, if "Melody 1" is occupied, "Melody 2" will be selected as the record track. When all 6 tracks have been recorded and a specific track needs to be revised, press the button of that track and start recording. The original data will be replaced.

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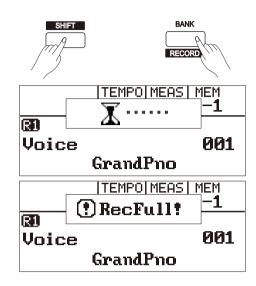
Stop Recording
1. When recording is in process, holding down [SHIFT] button then press the [RECORD] button to stop recording.

2. When recording is in process, if the memory is full, the recording will stop and save automatically, the LCD displays "RecFull".

3. If you are recording a style, the recording will stop automatically when the ending of the rhythm finishes.
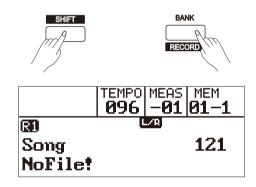
Playback Recording
1. When recording is in process, holding down [STORE] button then press the [RECORD] button, it will stop recording and enter the song mode, and the current recorded song will play automatically in circle.
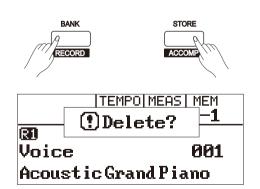
2. Press the [SONG] button to enter the song mode and it will play all songs circularly. Use the data dial, [+/YES] or [-/NO] button to select a song number from 121-130 (corresponding to the 10 user songs). If there is no data in the selected user song, it will display "Nofile" and stop playing.
Alternatively, when the playback stops, you can select a user song and then press [PLAY/STOP] button to play the song in a loop.

Delete User Song
1. Pressing and holding [RECORD] and [STORE] button together and turn power on simultaneously, all user songs will be erased.

2. In the recording standby mode, holding down [SHIFT] button then press the [RECORD] button for two second, the LCD will display "Delete?". And holding down [SHIFT] button then press the [Accomp] (or [Melody1] to[Melody 5]) button to select the track you want to delete. The track selected will light up. If all tracks light up, it will delete the user song after confirmation.

3. Press [+/YES] to confirm and the recorded data in this track will be erased. Press [-/NO] to quit this step, and go back to recording standby mode.

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Song

The piano has 130 songs in all, including 10 user songs.

Listening to the songs
1. Press the [SONG] button to enter the song mode and it will play all songs circularly.

2. Use the data dial, [+/YES] or [-/NO] button to select a song.

3. In song mode, press the [START/STOP] button, it will play current song repeatedly.

4. When playback stops, press [STYLE] or [VOICE] button to exit song mode.

Song Control
1. Introductory beat
   Before song starts playing, it has the introductory beat, the measure starts from negative value. It begins to play song when the measure goes to 1.

2. REW, FF and PAUSE
   When the song is playing:
   Press the [FF] button to fast forward the song.
   Press the [REW] button to rewind the song (base on the measure).
   Press the [PAUSE] button to pause the playing song.

3. Song Repeat
   During song playback, press [REPEAT A/B] button to set the beginning for a loop section of the current song, then press it again to set the loop end. During loop playback, press [REPEAT A/B] button to quit the loop and go back to song playback.
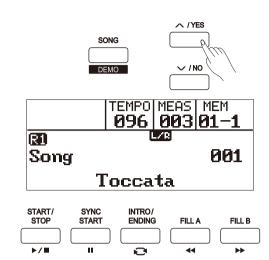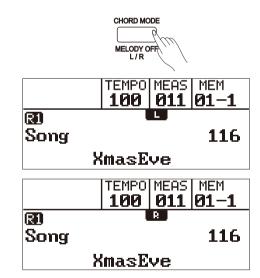
Practice the song
In song mode, press [MELODY OFF L/R] button to turn on/off the left or right hand part, so as to practise each part separately.
A lit "L" on LCD indicates only the left hand melody will play and the right hand part will be muted, so you can practise the right hand melody.
In the same way, a lit "R" on LCD means you can practise the left hand part along with the right hand melody.

SONG
DEMO
∧ / YES
∨ / NO

TEMPO MEAS MEM
096 003 01-1
R1   L/R
Song   001
     Toccata

START/ STOP   SYNC START   INTRO/ ENDING   FILL A   FILL B
▶/■   ‖   ↻   ◀◀   ▶▶

CHORD MODE
MELODY OFF
L / R

TEMPO MEAS MEM
100 011 01-1
R1   L
Song   116
     XmasEve

TEMPO MEAS MEM
100 011 01-1
R1   R
Song   116
     XmasEve

Restore Factory Setting

Pressing and holding [+/YES] and [-/NO] button together and then turn the power on, the piano would be restored to factory setting. It will delete all the user data: user styles, user songs, registered memory. The process will last about 8 seconds, after which the piano will start up normally.

∧ / YES
∨ / NO

Connecting USB Flash Drive

The piano recognizes USB flash drives, sizing from 16M to 32G in the format of FAT16 or FAT32.
We recommend to format the USB flash drive on the piano before using. Do not edit the backup files saved in the USB flash drive.
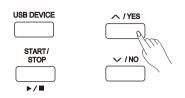
USB Flash Drive Operation
1. The function buttons related to USB Flash Drive are: [USB DEVICE], [+/YES], [-/NO], [START/STOP] and the data dial.
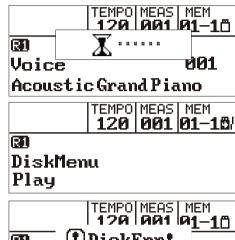
2. Press [USB DEVICE] button to enter USB mode, and press it again can quit that mode.

3. If the USB Flash Drive has been inserted before pressing [USB DEVICE] button, the LCD displays a waiting notice, the upper right corner of LCD displays icon. If initialization succeeds, LCD displays "Play", the icon becomes. If initialization failed, the LCD displays "DiskErr", and the icon remains. If USB Flash Drive is not inserted, the LCD displays "NoDisk", the upper right corner of LCD does not display USB Flash Drive icon.

4. In USB mode, use data dial to select menu, press [+/YES] button to proceed, press [-/NO] to go back.

5. In USB mode, it can read a maximum of 512 files in one folder. Icon represents folder, icon represents file.

6. In USB mode, press [USB DEVICE], voice direct button, style direct button can exit USB device mode.

7. Press [MIXER] button can change the volume when playing MIDI file.

8. In USB mode, the operation to load, save or delete will apply to files in the "MMKD" folder only.

Note:
The "MMKD" folder will be generated automatically when user data is saved to the USB flash drive.
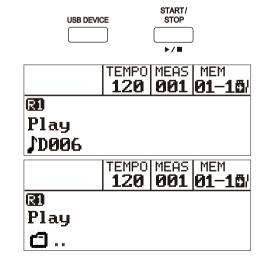
Play
1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Play" menu.

2. Press [+/YES] button, LCD will display the name of MIDI files and sub directories in the root of the USB Flash Drive.

3. If you choose a sub-directory, press [+/YES] button to open the folder, press [-/NO] to return to the root directory. If LCD displays "..", pressing [+/YES] button will return to the previous directory.

4. Use data dial to select a midi MIDI file, press [START/STOP] button to play it repeatedly. Press [+/YES] button to play all files in the current directory circularly. Press [START/STOP]button again to stop playing,

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Connecting USB Flash Drive

Save

1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Save".

2. Press [+/YES] to enter "Save" sub menu. It includes "SaveSong", "SaveSty", "SaveMem". Use [+/YES], [-/NO]button or data dial to select one.

Save user song:

1. Select the menu "SaveSong" sub menu and press [+/YES] button, LCD displays the user song name and number. Use the data dial to select the file to save.

2. After selected the user song, press [+/YES]. The LCD prompts to enter file name "SNG_". Now use keyboard to enter 8 character file name.

3. After entering the file name, press [+/YES]. The LCD prompts to confirm the operation: "Sure?". Press [+/YES] again to save the file. Press [-/NO] to cancel the operation.

4. If the name you enter is the same with the song name in USB Flash Drive, the LCD prompts "SameName!". You need to enter a different name to save file.
   Follow the steps above to save a user style or a user memory.

Load

1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Load" menu.

2. Press [+/YES] to enter "load" submenu. Load submenu are displayed on LCD, it includes "LoadSong", "LoadSty", "LoadMem". Use [+/YES], [-/NO]button or data dial to select one.

Load Song:

1. Select the menu "LoadSong" and press [+/YES] button, LCD displays the MIDI files(*.midi) in the MMKD\SONG directory of USB Flash Drive. Use the data dial to select the file to load.

2. After selected the midi file, press [+/YES]button , and then use the data dial to select user song number.

3. After selected the song number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.

Load Style

1. Select the menu "LoadSty" and press [+/YES] button, LCD displays the style files(*.sty) in the MMKD\STYLE directory of USB Flash Drive. Use the data dial to select the file to load.

2. After selected the style file, press [+/YES] button, and then use the data dial to select user style number.

3. After selected the user style number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.

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Load Memory

1. Select the menu "LoadMem" and press [+/YES] button, LCD displays the memory files(*.mem) in the MMKD\MEMORY directory of USB Flash Drive. Use the data dial to select the file to load.

2. After selected the memory file, press [+/YES] button, and then use the data dial to select user memory number.

3. After selected the user memory number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.

Delete

1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Delete".

2. Press [+/YES] to enter "Delete" sub menu. It includes "UserSong", "UserSty", "UserMem". Use [+/YES], [-/NO] button or data dial to select one.

3. After selected file type to delete, press [+/YES] to enter the corresponding menu.

4. After selected the file to delete, press [+/YES], and the LCD displays "Sure?". Press [+/YES] to confirm, and press [-/NO] to cancel the operation.

Format

1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Format".

2. Press [+/YES] to confirm. LCD displays "Sure?", then press [+/YES] to format, press [-/NO] to cancel operation.
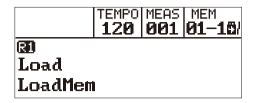
Note:
Formation will delete all data in USB Flash Drive!
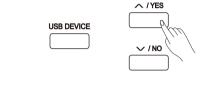
Keyboard and ASCII Character Relative Table
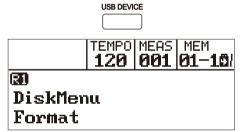
NOTE	C#2	D2	Eb2	E2	F2	F#2	G2	Ab2	A2	Bb2	B2
LETTER	DEL	BACK	NEXT	A	B	C	D	E	F	G	H

NOTE	C3	C#3	D3	Eb3	E3	F3	F#3	G3	Ab3	A3	Bb3
LETTER	I	J	K	L	M	N	O	P	Q	R	S

NOTE	B3	C4	C#4	D4	Eb4	E4	F4	F#4	G4	Ab4	A4
LETTER	T	U	V	W	X	Y	Z	0	1	2	3

NOTE	Bb4	B4	C5	C#5	D5	Eb5
LETTER	4	5	6	7	8	9

```
TEMPO MEAS MEM
 120  001 01-10/

R1
Load
LoadMem
```

∧ / YES
USB DEVICE
∨ / NO

```
TEMPO MEAS MEM
 120  001 01-10/

R1
Delete
UserSty
```

USB DEVICE

```
TEMPO MEAS MEM
 120  001 01-10/

R1
DiskMenu
Format
```

MIDI

By using the MIDI functions you can expand your musical possibilities. This section explains what MIDI is, and what it can do, as well as how you can use MIDI on your instrument.

What's MIDI?

MIDI (short for Musical Instrument Digital Interface) allows a wide variety of electronic musical instruments, computers and other related devices to connect and communicate with one another. MIDI carries event messages that specify notation, pitch and velocity, control signals for parameters such as volume, vibrato, audio panning, and program change information to change the voice selections.

The instrument can output the real-time playback information via MIDI messages and control external MIDI devices. The instrument can also accept incoming MIDI messages and generate sound accordingly.

Downloading Data from the Computer
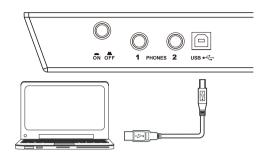
Connect a standard USB cable between the rear-panel of the USB jack of the instrument and the USB jack on your computer.
Power on the instrument first, and then open the PCSUITE software in your computer, the "CONNECTING" will be displayed on LCD. The PCSUITE will connect successfully with the instrument.
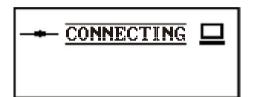
You can download 5 SMF MIDI files to the keyboard as user songs or upload the user songs.
You can upload user styles to the computer as a backup or download them to the keyboard.
You can upload memory files to the computer as a backup or download them to the keyboard.
Please refer to software operation instructions for detail operating methods.

Troubleshooting

Problem	Possible Cause and Solution
The speakers produce a pop sound whenever 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 master volume is set to an appropriate level. Check if headphones are plugged into Jack 1. The R1/R2/L voice volume (Mixer) settings could be set too low. Make sure the voice volumes are set at appropriate levels.
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 further away from the instrument.
The auto accompaniment does not play back even Sync is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Sync Start, make sure to play a key in the left-hand range of the keyboard.
Certain notes sound at wrong pitch.	Make sure that the tuning value is set to 0. Press and hold the [+/YES] and [-/NO] buttons at the same time, then turning the power on will set INSTRUMENT to default.
The Harmony function does not operate.	Please make sure the Harmony function is on. And Harmony cannot be turned on when a drum kit is selected for the voice R1.
After connecting with the computer, the piano is not recognized.	Please check if the USB cable is being connected firmly,or try connecting another USB port of the computer,without the need to install another driver on the PC.

Specifications

LCD Display
Multi-functional LCD

Keyboard
88 Hammer-Action Keys

Polyphony
128

Voice
600

Song
120 preset songs, 10 user songs

Style
230 preset styles, 10 user styles

Demo
5

Control button
Power Switch, Volume knob, Brilliance knob, Styles, Tempo+/-, Acc Vol, Mixer, Function+/-, Start/Stop, Sync Start, Intro/ Ending, Fill A, Fill B, Fill C Fill D, Chord Mode, Voices, Dual, Lower, USB Device, Metro, Twinova, Octave, Song, Bank, Store, M1-M4, O.T.S., Shift, Demo, +/Yes, -/No, Data dial, Melody off L/R

Record Function
Record, Accomp, Melody 1-5

Memory
96

Connectors
PHONES (2 standard. ¼" phone), AUX IN, AUX OUT
USB-MIDI, USB Device Jack
Pedals (Sustain, Soft, Sostenuto), SPEAKER Jack

Power Supply
DC IN 15V

Speaker
4 ohm 15W X 2

Dimensions
1421(L) X 306(W) X 788(H) mm

Weight
38KG

* All specifications and appearances are subject to change without notice.

Voice List

No.	Full Name
Piano	
1	Acoustic Grand Piano
2	Acoustic Grand Piano 2
3	Acoustic Grand Piano 3
4	Acoustic Grand Piano (wide)
5	Acoustic Grand Piano (dark)
6	Bright Acoustic Piano
7	Bright Acoustic Piano 2
8	Bright Acoustic Piano 3
9	Bright Acoustic Piano (wide)
10	Electric Grand Piano
11	Electric Grand Piano 2
12	Electric Grand Piano (wide)
13	Electric Grand Piano (dark)
14	Honky Tonk Piano
15	Honky Tonk Piano 2
16	Honky Tonk Piano (wide)
17	Honky Tonk Piano (dark)
18	Harpsichord
19	Harpsichord 2
20	Harpsichord (octave mix)
21	Harpsichord (wide)
22	Harpsichord (with key off)
23	Octave Grand Piano
24	Octave Grand Piano 2
25	Piano & Strings
26	Piano & Pad
27	Piano & Choir
28	Piano & EP
29	Piano & Vibraphone
30	Detuned Electric Piano
31	Detuned Electric Piano 2
32	Electric Piano
33	Electric Piano 2
34	Electric Piano 3
35	Electric Piano 4
36	Electric Piano 1 (velocity mix)
37	Electric Piano 2 (velocity mix)
38	60's Electric Piano
39	EP Legend
40	Phase EP
41	Clavi
42	Clavi 2
43	Phase Clavi
44	Wah Clavi
45	Pulse Clavi
46	Dream EP
47	Tremolo EP
48	Funk EP
49	Warm EP
50	Choir EP
51	Wah EP
52	Modern EP
53	EP Pad
Chromatic Percussion	
54	Celesta
55	Celesta 2

No.	Full Name
56	Celesta 3
57	Glockenspie
58	Glockenspiel 2
59	Music Box
60	Music Box 2
61	Music Box 3
62	Vibraphone
63	Vibraphone 2
64	Vibraphone (wide)
65	Marimba
66	Marimba 2
67	Marimba (wide)
68	Xylophone
69	Xylophone 2
70	Xylophone 3
71	Tubular Bells
72	Tubular Bells 2
73	Church Bell
74	Carillon
75	Dulcimer
76	Dulcimer 2
77	Santur
Organ	
78	Italian 60's Organ
79	Drawbar Organ
80	Drawbar Organ 2
81	Detuned Drawbar Organ
82	Drawbar Organ 3
83	Detuned Percussive Organ
84	Percussive Organ
85	Percussive Organ 2
86	70's Percussive Organ
87	Percussive Organ 3
88	Rock Organ
89	Rock Organ 2
90	Rock Organ 3
91	Church Organ
92	Church Organ 2
93	Church Organ 3
94	Church Organ (octave mix)
95	Detuned Church Organ
96	Reed Organ
97	Reed Organ 2
98	Rotary Organ
99	Puff Organ
100	Accordion
101	Accordion 2
102	Accordion 3
103	Harmonica
104	Harmonica 2
105	Harmonica 3
106	Tango Accordion
107	Tango Accordion 2
Guitar	
108	Acoustic Guitar (nylon)
109	Acoustic Guitar (nylon) 2
110	Acoustic Guitar (nylon) 3
111	Acoustic Guitar (nylon + key off)

Voice List

112	Ukulele		169	Violin (slow attack)
113	Acoustic Guitar (steel)		170	Viola
114	Acoustic Guitar (steel) 2		171	Viola 2
115	12-Strings Guitar		172	Cello
116	Mandolin		173	Cello 2
117	Mandolin 2		174	Contrabass
118	Steel Guitar with Body Sound		175	Contrabass 2
119	Electric Guitar (jazz)		176	Tremolo Strings
120	Electric Guitar (jazz) 2		177	Tremolo Strings 2
121	Electric Guitar (pedal steel)		178	Tremolo Strings 3
122	Electric Guitar (clean)		179	Pizzicato Strings
123	Electric Guitar (clean) 2		180	Pizzicato Strings 2
124	Electric Guitar (detuned clean)		181	Orchestral Harp
125	Mid Tone Guitar		182	Orchestral Harp 2
126	Electric Guitar (muted)		183	Yang Chin
127	Electric Guitar (muted) 2		184	Timpani
128	Electric Guitar (funky cutting)		185	Timpani 2
129	Electric Guitar (muted velo-sw)		186	String Ensembles
130	Jazz Man		187	String Ensembles 2
131	Overdriven Guitar		188	String Ensembles 3
132	Overdriven Guitar 2		189	String Ensembles 4
133	Guitar Pinch		190	Strings & Brass
134	Distortion Guitar		191	60's Strings
135	Distortion Guitar 2		192	Synth Strings
136	Distortion Guitar (with feedback)		193	Synth Strings 2
137	Guitar Feedback		194	Synth Strings 3
138	Distorted Rhythm Guitar		195	Synth Strings 4
139	Guitar Harmonics		196	Synth Strings 5
140	Guitar Harmonics 2		197	Choir Aahs
141	Velocity Nylon Guitar		198	Choir Aahs 2
Bass			199	Choir Aahs 3
142	Acoustic Bass		200	Voice Oohs
143	Acoustic Bass 2		201	Voice Oohs 2
144	Wah Bass		202	Humming
145	Electric Bass (finger)		203	Anlong Voice
146	Finger Slap Bass		204	Synth Voice
147	Electric Bass (pick)		205	Synth Voice 2
148	Electric Bass (pick) 2		206	Orchestra Hit
149	Fretless Bass		207	Orchestra Hit 2
150	Fretless Bass 2		208	Bass Hit Plus
151	Slap Bass		209	6th Hit
152	Slap Bass 2		210	Euro Hit
153	Slap Bass 3		**Brass**	
154	Slap Bass 4		211	Trumpet
155	Synth Bass		212	Trumpet 2
156	Synth Bass 2		213	Dark Trumpet
157	Synth Bass 3		214	Trombone
158	Synth Bass 4		215	Trombone 2
159	Warm Synth Bass		216	Trombone 3
160	Rsonance SynBass		217	Bright Trombone
161	Clavi Bass		218	Tuba
162	Hammer		219	Tuba 2
163	Attack Bass		220	Muted Trumpet
164	Synth Bass (rubber)		221	Muted Trumpet 2
165	Synth Bass (rubber) 2		222	Muted Trumpet 3
166	Attack Pulse		223	French Horn
Strings & Orchestral			224	French Horn 2
167	Violin		225	French Horn 3
168	Violin 2			

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Voice List

226	Brass Section		282	Recorder 2
227	Brass Section 2		283	2 Recorders
228	Brass Section 3		284	Pan Flute
229	Synth Brass		285	Pan Flute 2
230	Synth Brass 2		286	Sweet Pan Flute
231	Synth Brass 3		287	Blown Bottle
232	Synth Brass 4		288	Blown Bottle 2
233	Synth Brass 5		289	Shakuhachi
234	Synth Brass 6		290	Shakuhachi 2
235	Synth Brass 7		291	Whistle
236	Synth Brass 8		292	Whistle 2
237	Analog Synth Brass		293	Ocarina
238	Analog Synth Brass 2		294	Ocarina 2
239	Analog Synth Brass 3		**Synth Lead**	
240	Jump Brass		295	Lead 1 (square)
241	Jump Brass 2		296	Lead 1a (square) 2
242	Funny		297	Lead 1 (square) 3
243	Funny 2		298	Lead 1b (sine)
Reed			299	Lead 2 (sawtooth)
244	Soprano Sax		300	Lead 2a (sawtooth) 2
245	Soprano Sax 2		301	Lead 2 (sawtooth) 3
246	Soprano Sax 3		302	Lead 2b (saw + pulse)
247	Alto Sax		303	Lead 2c (double sawtooth)
248	Alto Sax 2		304	Lead 2d (sequenced analog)
249	Alto Sax 3		305	Lead 2d (sequenced analog) 2
250	Tenor Sax		306	Wavy Sawtooth
251	Tenor Sax 2		307	Bauble Lead
252	Tenor Sax 3		308	Super Analog
253	Baritone Sax		309	Lead 3 (calliope)
254	Baritone Sax 2		310	Lead 3 (calliope) 2
255	Baritone Sax 3		311	Lead 4 (chiff)
256	Oboe		312	Lead 4 (chiff) 2
257	Oboe 2		313	Lead 4 (chiff) 3
258	Oboe 3		314	Lead 5 (charang)
259	2 Oboes		315	Lead 5 (charang) 2
260	English Horn		316	Lead 5 (charang) 3
261	English Horn 2		317	Lead 5 (charang) 4
262	English Horn 3		318	Lead 5a (wire lead)
263	2 English Horns		319	Lead 5a (wire lead) 2
264	Bassoon		320	Lead 6 (voice)
265	Bassoon 2		321	Lead 6 (voice) 2
266	Bassoon 3		322	Lead 7 (fifths)
267	2 Bassoons		323	Lead 7 (fifths) 2
268	Clarinet		324	Lead 8 (bass + lead)
269	Clarinet 2		325	Lead 8 (bass + lead) 2
270	Clarinet 3		326	Lead 8 (bass + lead) 3
271	2 Clarinets		327	Lead 8a (soft wrl)
Pipe			328	Massiness
272	Piccolo		329	Square
273	Piccolo 2		330	Slow Square Lead
274	Piccolo 3		331	Sine Solo
275	2 Piccolos		332	Square Lead 4
276	Sweet Flute		333	Thick Square
277	Flute		334	2Oscillators Lead
278	Flute 2		335	Wavy Sawtooth 2
279	Flute 3		336	Analog Lead
280	2 Flutes		337	Big Lead
281	Recorder		338	Fat Lead

Voice List

339	PWM 4th	395	Warm Air	451	Analog Cymbal
340	Delayed Lead	396	FX 5 (brightness)	452	Ride Cymbal
341	Delayed Lead 2	397	Smog	453	China Cymbal
342	Fifth Lead	398	FX 6 (goblins)	454	Ride Bell
343	Corrie	399	FX 6 (goblins) 2	455	Tambourine
344	Quint	400	Choir Bell	456	Splash Cymbal
Synth Pad		401	Choir Bell 2	457	Cowbell
345	Pad 1 (new age)	402	FX 7 (echoes)	458	Analog Cowbell
346	Pad 1 (new age) 2	403	FX 7 (echoes) 2	459	High Bongo
347	Pad 2 (warm)	404	FX 7b (echo pan)	460	Low Bongo
348	Pad 2 (warm) 2	405	FX 7a (echo bell)	461	Mute Hi Conga
349	Pad 2a (sine pad)	406	FX 7a (echo bell) 2	462	Open Hi Conga
350	Pad 3 (polysynth)	407	FX 7a (echo bell) 3	463	Low Conga
351	Pad 3 (polysynth) 2	408	FX 8 (sci-fi)	464	Analog Hi Conga
352	Pad 3 (polysynth) 3	409	FX 8 (sci-fi) 2	465	Analog Mid Conga
353	Pad 3 (polysynth) 4	**Ethnic Misc.**		466	Analog Low Conga
354	Pad 4 (choir)	410	Sitar	467	High Timbale
355	Pad 4 (choir) 2	411	Sitar 2	468	Low Timbale
356	Pad 4a (itopia)	412	Banjo	469	Cabasa
357	Pad 5 (bowed)	413	Banjo 2	470	Maracas
358	Pad 5 (bowed) 2	414	Shamisen	471	Analog Maracas
359	Pad 6 (metallic)	415	Shamisen 2	472	Short Guiro
360	Pad 6 (metallic) 2	416	Koto	473	Long Guiro
361	Pad 7 (halo)	417	Koto 2	474	Claves
362	Pad 7 (halo) 2	418	Taisho Koto	475	Mute Cuica
363	Pad 8 (sweep)	419	Kalimba	476	Open Cuica
364	Pad 8 (sweep) 2	420	Kalimba 2	477	Mute Triangle
365	Pad 8 (sweep) 3	421	Bag Pipe	478	Open Triangle
366	Pan Pad	422	Bag Pipe 2	479	Shaker
367	Pan Pad 2	423	Fiddle	480	Mute Surdo
368	Dipolar Pad	424	Fiddle 2	481	Open Surdo
369	PWM Pad	425	Fiddle 3	482	Melodic Tom
370	Warmly Pad	426	Shanai	483	Melodic Tom 2
371	Horn Pad	427	Shanai 2	484	Synth Drum
372	Click Pad	**Percussive**		485	Rhythm Box Tom
373	Analog Pad	428	Tinkle Bell	486	Electric Drum
374	80's Poly Pad	429	Agogo	487	Reverse Cymbal
375	PWM 4th Soft	430	Steel Drums	**SFX**	
376	Synth Calliope Soft	431	Woodblock	488	Guitar Fret Noise
377	Soft Vox	432	Castanets	489	Guitar Cutting Noise
378	5th SawWave	433	Taiko Drum	490	Acoustic Bass String Slap
379	5th Lead Soft	434	Concert Bass Drum	491	Breath Noise
380	Slow Square	435	Acoustic Bass Drum	492	Flute Key Click
381	New Year Pad	436	Jazz Kick	493	Seashore
382	Space Voice	437	Side Stick	494	Rain
383	Rising	438	Analog Rim Shot	495	Thunder
384	Congregate	439	Acoustic Snare	496	Wind
Synth SFX		440	Jazz Snare	497	Stream
385	FX 1 (rain)	441	Brush Tap	498	Bubble
386	FX 1 (rain) 2	442	Concert SD	499	Bird Tweet
387	FX 2 (soundtrack)	443	Hand Clap	500	Bird Tweet 2
388	FX 2 (soundtrack) 2	444	Tom	501	Dog
389	Prelude	445	Brush Tom	502	Horse Gallop
390	FX 3 (crystal)	446	Closed Hi-hat	503	Telephone Ring
391	FX 3 (crystal) 2	447	Analog Closed Hi-hat	504	Telephone Ring 2
392	FX 3a (synth mallet)	448	Pedal Hi-hat	505	Door Creaking
393	FX 4 (atmosphere)	449	Open Hi-hat	506	Door
394	FX 4 (atmosphere) 2	450	Crash Cymbal	507	Scratch

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Voice List

508	Wind Chime
509	Helicopter
510	Car Engine
511	Car Stop
512	Car Pass
513	Car Crash
514	Siren
515	Train
516	Jetplane
517	Starship
518	Burst Noise
519	Applause
520	Laughing
521	Screaming
522	Punch
523	Heart Beat
524	Footsteps
525	Gunshot
526	Machine Gun
527	Lasergun
528	Explosion
Combined Voice	
529	Stereo Piano & Strings Pad
530	Stereo Piano & Choir
531	Stereo Piano & Synth Strings
532	Stereo Piano & Warm Pad
533	Stereo Piano & Soft EP
534	FM Electric Piano
535	Digital Piano
536	E.Piano & Strings
537	E.Piano & Acoustic Guitar
538	E.Piano & Vibraphone
539	E.Piano 2 & Pad
540	E.Piano 2 & Strings
541	Harpsichord & Stereo Strings
542	Music Box & Stereo Strings
543	Vibraphone & Stereo Strings
544	Vibraphone Octave
545	Vibraphone & Marimba & Kalimba
546	Marimba & Kalimba
547	Marimba Delay
548	Xylophone Octave
549	Organ & Stereo Strings
550	Stereo Organ & Piano
551	Rock Organ & Strings
552	Church Organ & Choir
553	Church Organ & Strings
554	Acoustic Guitar & Flute
555	Acoustic Guitar & Clavi
556	24 String Guitar
557	Steel Guitar & Warm Pad
558	Stereo Strings & Horn
559	Orchestra
560	Full Strings
561	Full Strings 2
562	Symphonic
563	Stereo Choir & Strings
564	Stereo Choir & Steel Guitar

565	3 Trumpet Loose
566	Trombone & Stereo Strings
567	3 Trombones Loose
568	3 Muted Trumpets Loose
569	Club Brass
570	Brass & Woodwinds
571	Woodwinds & Strings
572	Section Woods Small
573	Pan Flute & Strings Pad
574	Koto & Shamisen
575	Flute & Clarinet
576	Flute & Oboe
577	Flute & Bassoon
578	Flute & Oboe & Clarinet
579	Flute & Clarinet & Bassoon
580	Flute & Oboe & Bassoon
581	Flute Octave
582	Flute & Oboe Octave
583	Flute & Clarinet Octave
584	Oboe & Bassoon
585	Oboe & Clarinet
586	Oboe & Clarinet & Bassoon
587	Oboe Octave
588	Oboe & Clarinet Octave
589	Oboe & Bassoon Octave
590	Clarinet & Bassoon
591	Clarinet & Oboe Octave
Drums	
592	Standard Set
593	Room Set
594	Power Set
595	Electronic Set
596	Analog Set
597	Jazz Set
598	Brush Set
599	Orchestra Set
600	SFX Set

Style List

NO.	Name
8 BEAT	
1	8Beat Ballad
2	8Beat Piano
3	8Beat 1
4	Guitar Pop 1
5	8Beat Hip Hop
6	8Beat Blues Rock
7	8Beat Pop
8	Pop Funk 1
9	Rhythm&Beat 1
10	8Beat Disco 1
11	8Beat Rock
12	Guitar Pop 2
13	8Beat 2
14	Sweet Beat
15	8Beat Dance
16	8Beat Disco 2
17	Pop Funk 2
18	8Beat 3
19	60's 8Beat
20	Rhythm&Beat 2
16 BEAT	
21	16Beat 1
22	16Beat Funk 1
23	16Beat Ballad 1
24	16Beat R&B
25	Pop 16Beat 1
26	16Beat Funk 2
27	16Beat Dance
28	Pop 16Beat 2
29	16Beat 2
30	Pop 16Beat 3
31	Pop 16Beat 4
32	Modern 16Beat
33	16Beat Hot
34	16Beat Modern
35	16Beat Funk 3
36	16Beat 3
37	Cool Beat
38	16Beat Ballad 2
39	16Beat 4
40	Pop Shuffle
POP & BALLAD	
41	Pop Rock 1
42	Pop Dance 1
43	Pop Fusion
44	Analog Night 1
45	6/8 Pop
46	Brit. Pop 1
47	Brit. Pop 2
48	Pop Hit
49	Fusion Shuffle
50	Analog Night 2
51	Guitar Pop 3
52	Pop Beat
53	Soft Beat
54	60's Pop

NO.	Name
55	Sting Latin
56	R&B Ballad 1
57	Guitar Ballad
58	Ballad Rock
59	Piano Pop
60	Soft Ballad
61	Natural Ballad
62	Love Ballad
63	Easy Ballad
64	Miami Folk
65	Slow Ballad
66	Folk Ballad
67	Pop Ballad 1
68	Pop Ballad 2
69	EP Ballad
70	New R&B Ballad
ROCK	
71	Rock
72	New Wave
73	Ska
74	Pop Rock 2
75	Slow Rock
76	70's Rock&Roll
77	Folk Rock
78	Soft Rock
79	Old Rock
80	Easy Rock
81	New Shuffle
82	Rock Hip Hop
83	Rock&Roll 1
84	Rock Shuffle
85	Rock&Roll 2
BALLROOM	
86	Tango 1
87	Spain Matador
88	Twist 1
89	Twist 2
90	Big Band Fox
91	Tango 2
92	Slow Fox
93	Slow Waltz 1
94	Swing Fox
95	Salsa 1
96	Cha Cha 1
97	Cha Cha 2
98	Beguine 1
99	Beguine 2
100	Rumba 1
101	Samba 1
102	Samba 2
103	Jive
104	Fox Trot
DANCE	
105	Techno 1
106	Hip Hop 1
107	House 1
108	Down Beat
109	Progressive

NO.	Name
110	Rap 1
111	Disco
112	Soft Disco
113	70's Disco
114	Club Dance
115	Euro Dance
116	Garage
SOUL & FUNK	
117	Funk 1
118	Classic Funk
119	Jay R&B
120	Gospel Swing
121	Gospel
122	Funk 2
123	Electric Funk
124	Groove Funk
125	Rubber Funk
126	Cool Funky
127	Jazz Funk
128	Groove
129	Soul
130	Hip Hop Soul
131	Hip Hop Beat
132	R&B
133	Soul Beat
134	British Soul Pop
135	Latin Jazz 1
136	Big Band 1
137	Dixieland 1
138	Guitar Swing 1
139	Broadway Big Band
140	Swing
141	Latin Jazz 2
142	Fusion
143	Acid Jazz
144	Cool Jazz Ballad
145	Swing Shuffle
146	Big Band Medium
147	Dixieland 2
148	Acoustic Jazz
149	Guitar Swing 2
150	Ragtime
151	Modern Jazz Ballad
152	Swing Ballad
153	Orchestra Swing
COUNTRY	
154	Country Pop 1
155	Bluegrass 1
156	8Beat Country
157	Modern Country
158	Country Pop 2
159	Bluegrass 2
160	2/4 Country
161	Country Quick Steps
162	Country Folk
163	Country Shuffle
LATIN&LATIN DANCE	
164	Samba 3

Style List

165	Bossa Nova
166	Latin
167	New Reggae
168	Reggae Dance
169	Paso Doble
170	Lite Bossa
171	Latin Rock
172	Beguine 3
173	Slow Bolero
174	Disco Samba
175	Mambo
176	Meneito
177	Rumba 2
178	Rumba 3
179	Tikitikita
180	Lambada
181	Pop Cha Cha 1
WALTZ&TRADITIONAL	
182	Waltz
183	Old Waltz
184	English Waltz
185	German Waltz
186	Italian Mazurka
187	Mexico Waltz
188	Vienna Waltz
189	Slow Waltz 2
190	Jazz Waltz
191	Polka
192	6/8 March
193	German Polka
194	Party Polka
195	Army March
196	March
197	US March
198	Musette
199	French Musette
200	Mazurka
WORLD	
201	Enka Ballad
202	Laendler
203	Hawaiian
204	Sirtake
205	Dangdut
206	6/8 Flipper
207	New Age
208	Tarantella
209	Scottish
210	Norteno
PIANIST	
211	Pianist 1
212	Pianist 2
213	Pianist 3
214	March 1
215	March 2
216	Pop Waltz
217	Slow Waltz
218	Pop Bossa
219	Jazz Pub

220	Jazz 1
221	Jazz 2
222	Piano Rock
223	Blues 1
224	Piano Beat
225	Piano Bar
226	Pop 1
227	Pop 2
228	Ballad 1
229	Ballad 2
230	6/8 Ballad

Song List

No.	Name	LCD Name
FOLK & COUNTRY		
1	Toccata	Toccata
2	Carry Me Back To Old Virginny	Virginny
3	El Condor Pasa	ElCondor
4	Traumerei	Traumere
5	Aloha Oe	AlohaOe
6	Greensleeves	Sleeves
7	Home Sweet Home	SwetHome
8	Heidenroslein	Heidenro
9	Long Long Ago	LongAgo
10	Die Lorelei	Lorelei
11	Over The Waves	OverWave
12	My Darling Clementine	Clemtine
13	Gwine To Run All Night	Gwine
14	Symphony No.6 "Pathetic"	Sympony6
15	Oh! Susanna	Susanna
16	Prelude Op.28 No.15	Prelude
17	The House Of The Rising Sun	RiseSun
18	Menuet	Menuet
GOLDEN & POP		
19	Valse Des Fleurs	Fleurs
20	Fruhlingsstimmen	Fruhling
21	Frohlicher Landmann	Landmann
22	Are You Lonesome Tonight?	Lonesome
23	Toy Symphony	ToySymph
24	Auld Lang Syne	LangSyne
25	Ave Maria	AveMaria
26	Tales Of Hoffman	Hoffman
27	La Donne Mobile	DoneMble
28	Serenata	Serenata
29	Bridal March	Bridal
30	Can't Help Fallin' In Love	InLove
31	Chanson Du Toreador	Toreador
32	Danny Boy	DannyBoy
33	Ich Liebe Dich	LieDich
34	Wiegenlied 2	Wieglid2
35	Spanish Serenade	Serenade
36	Piano Concerto	Concerto
37	Piano Concerto 2	Concrto2
38	Madame Butterfly	Madame
39	Invitation To The Dance	ToDance
40	Wiegenlied 3	Wieglid3
41	Jingle Bells	JingBell
42	Joy To The World	JoyWorld
43	La Paloma	LaPaloma
44	My Bonnie	MyBonnie
45	La Reine De Saba	Saba
46	La Cucaracha	Cucarach
47	Little Brown Jug	BrownJug
48	Battle Hymne Of The Republic	BatlHyme
49	Yellow Rose Of Texas	YellRose
50	The Wabash Cannon Ball	CannBall
51	Annie Laurie	AnnieLa
52	Turkish March	Turkish
53	An Die Musik	Musik
54	Lieder Ohne Worte Op.62 No.6	Lieder

No.	Name	LCD Name
55	Red River Valley	RedRiver
56	Die Forelle	Forelle
57	Symphony No. 94 "Suprise"	No. 94
58	Polonaise	Polonais
59	Rondeau	Rondeau
60	Moments Musicaux	Musicaux
61	Silent Night	SltNight
62	Moldau	Moldau
63	Summertime	Summer
64	Dreaming Of Home And Mother	Dreaming
65	Ring Ring De Banjo	DeBanjo
66	Der Lindenbaum	DerLinde
67	Zigeunerweisen	Zigeuner
68	The Maiden's Prayer	Prayer
69	Fur Elise	FurElise
70	Der Freischutz	DerFreis
71	Maria! Mari!	Maria!
CLASSICAL		
72	Waves Of The Danube	Danube
73	Santa Lucia	SantaLuc
74	Solveig's Song	Solveig
75	Piano Sonatan No. 8 In C Minor (Pathetique)	Patheque
76	Brahms Waltz	BrmsWltz
77	Aida	Aida
78	Carmen-Prelude	Carmen
79	L'Arlesienne	L'Arlesi
80	Uungarische Tanz	Uungaris
81	Mazurka	Mazurka
82	Pizzicato Polka	Polka
83	Menuett	Menuett
84	Rigoletto	Rigoleto
85	Serenade	Serenade
86	Song Without Words	SongNoWd
87	Swan	Swan
88	The Dying Swan	DyingSwn
89	Swan Lake Valse	SwnWalse
90	The Happy Farmer	HpFarmer
91	The Sleeping Beauty	SleepBty
92	La Traviata	LaTravia
93	Wiegenlied	Wiegenli
94	Mov. 2 Adagio Non Troppo Piano Sonata No. 9 In D	Sonata9
95	Piano Sonata No. 11 In A	Sonata11
96	Prelude In C	Prelude
97	Chinese Dance	ChDance
98	Emperor Waltz	Emperor
99	March Militaire	Militair
100	Symphony No. 40	Symphony
PIANO		
101	Hanon Piano Fingering 1	Hanon1
102	Hanon Piano Fingering 2	Hanon2
103	Hanon Piano Fingering 3	Hanon3
104	Hanon Piano Fingering 4	Hanon4
105	Hanon Piano Fingering 5	Hanon5
106	Basic Tutorial Beyer Piano 12	Beyer12
107	Basic Tutorial Beyer Piano 13	Beyer13
108	Basic Tutorial Beyer Piano 14	Beyer14

Song List

109	Basic Tutorial Beyer Piano 15	Beyer15
110	Basic Tutorial Beyer Piano 18	Beyer18
111	Cuckoo	Cuckoo
112	Basic Tutorial Beyer Piano 21	Beyer21
113	Basic Tutorial Beyer Piano 29	Beyer29
114	Butterfly	Buterfly
115	Basic Tutorial Beyer Piano 45	Beyer45
116	Christmas Eve	XmasEve
117	Basic Tutorial Beyer Piano 50	Beyer50
118	Basic Tutorial Beyer Piano 52	Beyer52
119	Basic Tutorial Beyer Piano 55	Beyer55
120	Basic Tutorial Beyer Piano 59	Beyer59
DEMO		
1	Demo1	Demo1
2	Demo2	Demo2
3	Bossa Nova	Bossa Nova
4	Fusion	Fusion
5	Jazz	Jazz

Chord name [abbreviation]	Normal Voicing (For root C)	Chord	Display
Major [M]	1+3+5	C	C
Sixth [6]	1+(3)+5+6	C6	C6
Major seventh [M7]	1+3+(5)+7	CM7	CM7
Major seventh add sharp eleventh [M7(#11)]	1+(2)+3+#4+(5)+7	CM7(#11)	CM7(#11)
Major seventh add sharp eleventh (9)]	1+2+3+5	C(9)	CM(9)
Major seventh ninth [M7(9)]	1+2+3+(5)+7	CM7(9)	CM7(9)
Sixth ninth [6(9)]	1+2+3+(5)+6	C6(9)	C6(9)
Augmented [aug]	1+3+#5	Caug	Caug
Minor [m]	1+b3+5	Cm	Cm
Minor sixth [m6]	1+b3+5+6	Cm6	Cm6
Minor seventh [m7]	1+b3+(5)+b7	Cm7	Cm7
Minor seventh flatted fifth [m7b5]	1+b3+b5+b7	Cm7b5	Cm7(b5)
Minor add ninth [m(9)]	1+2+b3+5	Cm(9)	Cm(9)
Minor seventh ninth [m7(9)]	1+2+b3+(5)+b7	Cm7(9)	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+b3+4+5+(b7)	Cm7(11)	Cm7(11)
Minor major seventh [mM7]	1+b3+(5)+7	CmM7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+b3+(5)+7	CmM7(9)	CmM7(9)
Diminished [dim]	1+b3+b5	Cdim	Cdim
Diminished seventh [dim7]	1+b3+b5+6	Cdim7	Cdim7
Seventh [7]	1+3+(5)+b7	C7	C7
Seventh suspended fourth [7sus4]	1+4+5+b7	C7sus4	C7sus4
Seventh flatted fifth [7b5]	1+3+b5+b7	C7b5	C7(b5)
Seventh ninth [7(9)]	1+2+3+(5)+b7	C7(9)	C7(9)
Seventh add sharp eleventh [7(#11)]	1+2+3+#4+(5)+b7 or 1+(2)+3+#4+5+b7	C7(#11)	C7(#11)
Seventh add thirteenth [7(13)]	1+ 3+(5)+6+b7 or 2+ 3+5+6+b7	C7(13)	C7(13)
Seventh flatted ninth [7(b9)]	1+b2+3+(5)+b7	C7(b9)	C7(b9)
Seventh add flatted thirteenth [7(b13)]	1+3+5+b6+b7	C7(b13)	C7(b13)
Seventh sharp ninth [7(#9)]	(1)+#2+3+(5)+b7	C7(#9)	C7(#9)
Major seventh augmented [M7aug]	1+3+#5+7	CM7aug	CM7aug
Seventh augmented [7aug]	(1)+3+#5+b7	C7aug	C7aug
Suspended fourth [sus4]	1+4+5	Csus4	Csus4
One plus two plus five [sus2]	1+2+5	C/Csus2	C

MIDI Implementation Chart

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

Notes: *1
When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted.

- Mode 1: OMNI ON, POLY
- Mode 2: OMNI ON, MONO
- Mode 3: OMNI OFF, POLY
- Mode 4: OMNI OFF, MONO
- ○: YES
- ×: NO

Scale tuning system

A tuning system is the system used to define which tones, or pitches, to use when playing music. In other words, it is the choice of number and spacing of frequency values used. The equal temperament (has only one tuning method, and is suitable for keyboard) is the common musical scale used at present, used for the tuning of pianos and other instruments of relatively fixed scale. One of the advantages of the equal tempered scale is that it is the same in any musical "key", so that compositions may be freely transposed up or down without changing the musical intervals.

Especially for piano, equal temperament is widely used and taken for granted. But people used several other scales to compose and perform before adopting the equal temperament. This piano has been equipped with 6 scale tuning systems, you can select one to reappearing its matched chord of the melody at that time.

Characteristics of Different Scale Tuning Systems

Pythagorean
The Pythagorean tuning, named after the ancient mathematician and philosopher Pythagoras, is based on a stack of intervals called perfect fifths. It is particularly well suited to music which treats fifths as consonances, and thirds as dissonances.

Pure Major & Pure Minor
In music, just intonation (sometimes abbreviated as JI) or pure intonation is any musical tuning in which the frequencies of notes are related by ratios of small whole numbers. Any interval tuned in this way is called a pure or just interval. And the major scale which consisted of just intonations especially for this triad chords: Root, Third, Fifth are sounded extremely harmony. The just intonation must be the most natural temperament.

Meantone
The Meantone System is a musical temperament which is close to just intonation. Used to tuning pipe organ in 16th century Europe. These musical scales which based on the Pythagorean System, minus quarter of common comma for once, are extremely approaching just intonation. So, use this system to create musical scales are sound beautiful and pure, just like a perfect triad chord.

Werckmeister
The Werkmeister was named after Andreas Werckmeister, and this scale was created as an improvement on the Pythagorean scale. This tuning collapse comma maxima, created by Pythagorean, into four perfect fifths, the rest fifths still remain their Pythagorean scale characteristics. Werkmeister Tuning can tune scale from harmonic to melodic by increasing tone number, making each tonality sound distinct, this is the important gist for classicists and romanticism tonality music to name the tone name.

Kirnberger
Kirnberger temperament is an irregular temperament developed in the second half of the 18th century by Johann Kirnberger and regarded as an improved version of Meantone temperament. It makes possible to switch different tunes freely when performing.

Twelve-tone equal temperament
In twelve-tone equal temperament, which divides the octave into 12 equal parts, the width of a semitone , i.e. the frequency ratio of the interval between two adjacent notes, is the twelfth root of two. There is minute difference of the same amount between each two intervals.