ROCKDALE

USER MANUAL

CREATOR 1
Portable Keyboard

PRECAUTIONS

Please read it through carefully
before proceeding.

Power Supply

· Please connect the designated AC adaptor to an AC outlet of the correct
  voltage.

· Do not connect it to an AC outlet of voltage other than that for which your
  instrument is intended.

· Unplug the AC power adaptor when not using the instrument, or during
  electrical storms.

Connections

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

Location

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

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

Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Cleaning

· Clean only with a soft, dry cloth.

· Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling

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

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

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

· Disconnect all cables before moving the instrument.

CONTENTS

1. Panel & Display Description

Front Panel

Rear Panel

---
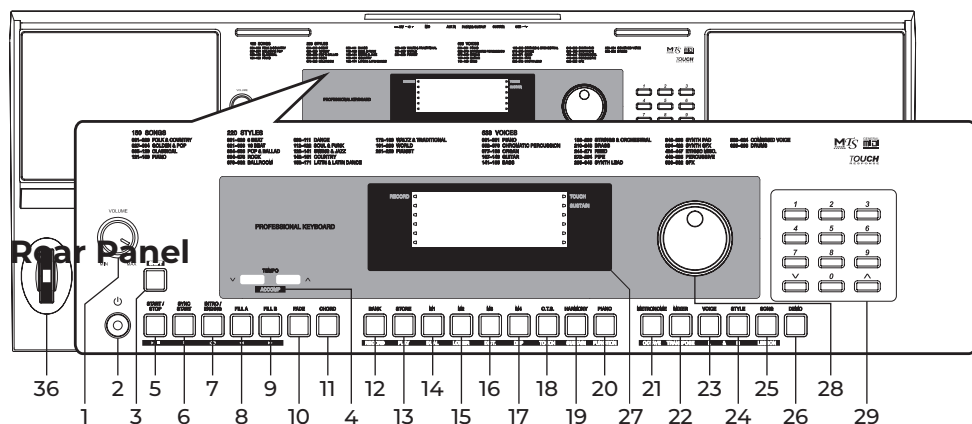
1. **VOLUME knob**
   Adjust the master volume.
2. **POWER SWITCH**
   Turn the Power on or off.
3. **[SHIFT] button**
   Select the secondary functions of other buttons.
4. **[TEMPO +]/[TEMPO -] button**
   Adjust the current Tempo.
5. **[▶/■] button**
   Start or Stop playing the song.
   [START/ STOP] button
   Start or Stop playing the style.

6. **[❙❙] button**
   Pause or continue playing the song.
   [SYNC START] button
   Turn the Sync Start on or off.
7. **[↻] button**
   Set the beginning and the end for a loop section of the current song.
   [INTRO/ ENDING] button
   Play the Intro or Ending.
8. **[◄◄] button**
   Rewind the song.
   [FILL A] button
   Play the fill-in pattern A.
9. **[►►] button**
   Fast forward the song.

   [FILL B] button
   Play the fill-in pattern B.
10. **[FADE] button**
    Turn the fade-in or fade-out function on or off.
11. **[CHORD] button**
    Enter the chord mode.
12. **[BANK] button**
    Select a memory bank.
    [RECORD] button
    Enter the Recording mode.
13. **[STORE] button**
    Register the panel settings.
    [PLAY] button
    Play back the recording.

14. [M1] button
Recall a registered panel setting.
[DUAL] button
Turn the Dual function on or off.

15. [M2] button
Recall a registered panel setting.
[LOWER] button
Turn the Lower function on or off.

16. [M3] button
Recall a registered panel setting.
[DICT.] button
Enter the Chord Dictionary.

17. [M4] button
Recall a registered panel setting.
[DSP] button
Turn the DSP function on or off.

18. [O.T.S.] button
Turn the One Touch Setting function on or off.
[TOUCH] button
Enter the Touch setting menu.

19. [HARMONY] button
Turn the Harmony effect on or off.
[SUSTAIN] button
Turn the Sustain function on or off.

20. [PIANO] button
Enter the Piano Mode.
[FUNCTION] button
Enter the Function menu.

21. [METRONOME] button
Turn the metronome on or off.
[OCTAVE] button
Enter the Octave setting menu.

22. [MIXER] button
Enter the Mixer menu.
[TRANSPOSE] button
Enter the Transpose setting menu.

23. [VOICE] button
Enter the Voice mode.
[L HAND] button
Choose to practise the left hand part in Lesson Mode.

24. [STYLE] button
Enter the Style mode.
[R HAND] button
Choose to practise the right hand part in Lesson Mode.

25. [SONG] button
Enter the Song mode.
[LESSON] button
Enter the Lesson Mode.

26. [DEMO] button
Enter the Demo Mode.

27. LCD Display
Display all parameters and values related to the current operation.

28. DATA DIAL
Adjust the parameter value.

29. [-]/[+] and NUMERIC buttons
Set parameters value or select the number.

30	31	32	33	34	35

12V === –⎓+   MIC   AUX IN   PHONES/OUTPUT   SUSTAIN   USB ⚡
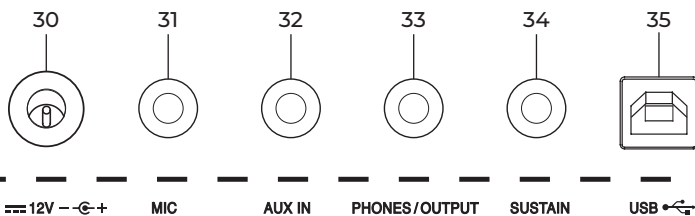
30. DC 12V jack
Connect the DC 12V power adaptor(optional).

31. MIC jack
Connect a microphone.

32. AUX IN jack
Connect an external sound source, such as an MP3 or CD player.

33. PHONES/OUTPUT jack
Connect a pair of headphones or external audio equipment.

34. SUSTAIN jack
Connect a sustain pedal.

35. USB jack
Connect to a computer.

Display
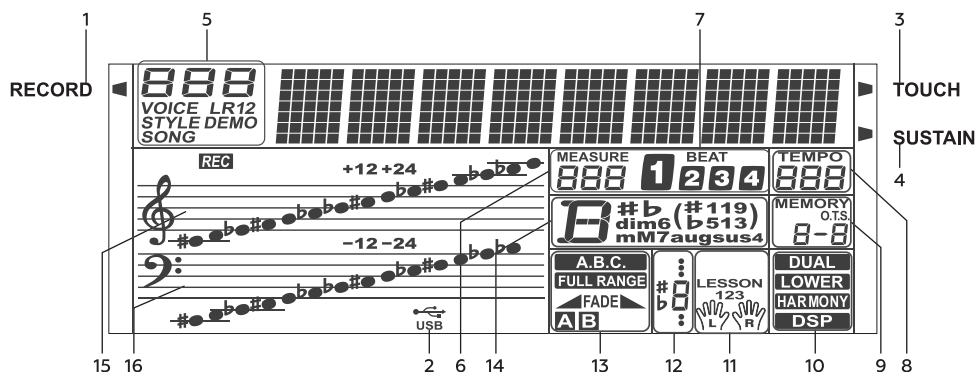
1. **RECORD**
2. **USB CABLE**
3. **TOUCH**
4. **SUSTAIN**
5. **VOICE / STYLE / DEMO / SONG**
6. **MEASURE**
7. **BEAT**
8. **TEMPO**
9. **M1-M4 / ONE TOUCH SETTING**
10. **DUAL / LOWER / HARMONY / DSP**
11. **LEFT / RIGHT HAND / LESSON MODE**
12. **NOTE INDICATION**
13. **A.B.C. / FULL RANGE/ FADE/ ACCOMPANIMENT SECTION**
14. **CHORD**
15. **TREBLE CLEF**
16. **BASS CLEF**

2. Setup

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

Power Supply

You can power the instrument either by batteries or by power adaptor. Before you switch your instrument on, turn down the volume of instrument and the connected audio equipment first.

Using Batteries
The instrument needs 6 pieces of AA (NO.5) or equivalent alkaline batteries for power supply.

1. Open the battery compartment cover located on the bottom of the instrument.

2. Insert the batteries, carefully follow the polarity markings on the cabinet.

3. Replace the compartment cover, making sure that it locks firmly in place.

Note:
1. Do not mix used and new batteries.
2. Always use same types of batteries.
3. Always remove the batteries from the instrument when it is not being used for an extended period of time.
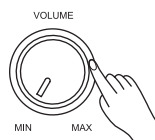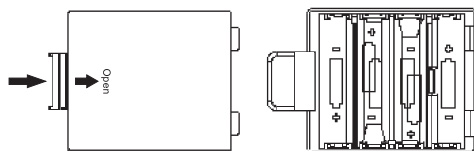
Using Power Adapter

1. Connect the adaptor to the power supply jack of this instrument.

2. Plug the adaptor into an AC outlet.

3. Press the POWER SWITCH, the LCD screen is lit, which indicates the instrument is powered on.

4. If you are ready to turn off the instrument, press the POWER SWITCH again.

Note:

1. In standby mode, the instrument will automatically shut down in 30 minutes if it is not used. (Please refer to "Auto Power Off" for details).
2. For your safety, please unplug the instrument when it is not in use or during a thunderstorm.

Setting a Music Stand

A music stand is supplied with the instrument. You can easily attach it by inserting it into the slots at the rear of the panel.
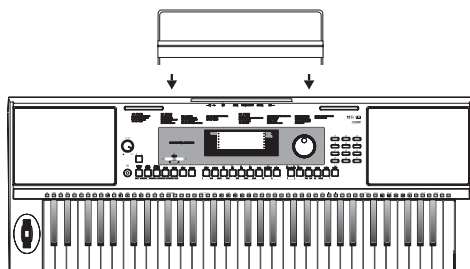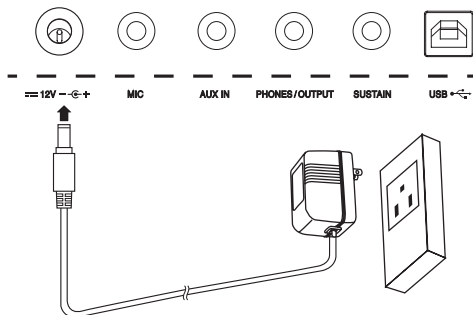
3. Connections

Connecting a Computer

The instrument receives and transmits MIDI messages via the USB connector. Use a USB cable to connect the instrument to a computer.

Note:
We recommend you to use a USB2.0 interface when connecting the instrument to a computer.
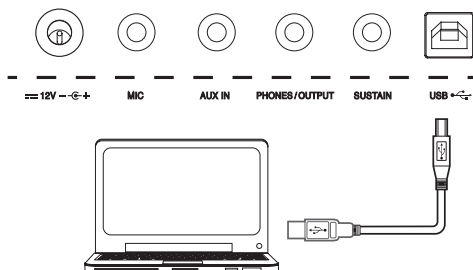
Connecting a Footswitch

An optional footswitch can be plugged into the sustain jack, and you can select one of 4 pedal functions from the Function Menu: Sustain, Soft, Memory Switch and Style Start/Stop.

If you select the sustain pedal, when you step on the pedal, all notes you play on the keyboard will have a longer sustain. (Refer to the Function Menu for details)
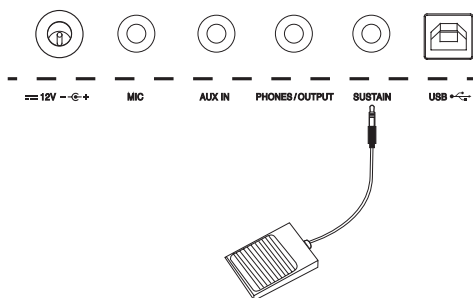
Connecting a pair of Headphones

A standard pair of stereo headphones can be connected to the PHONES/OUTPUT jack for private practice or late-night playing. The internal stereo speaker system is automatically shut off when a pair of head phones is plugged into this jack.

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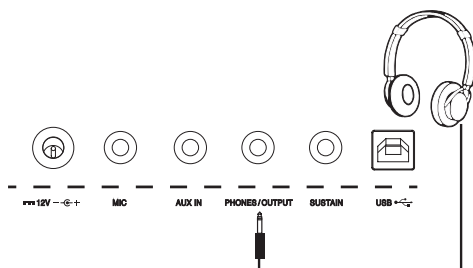
Connecting an Audio Equipment

The rear-panel PHONES/OUTPUT jack delivers the output of the instrument to an external audio equipment such as a keyboard amplifier, a stereo sound system, a mixing console, or a tape recorder. Use an audio cable to connect the PHONES/OUTPUT jack of the instrument to the AUX IN jack of the external audio equipment.

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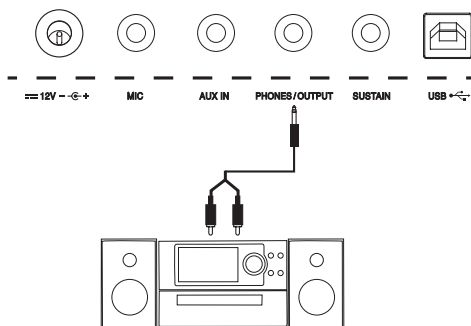
Connecting an MP3/CD Player

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 instrument signal, allowing you to play along.
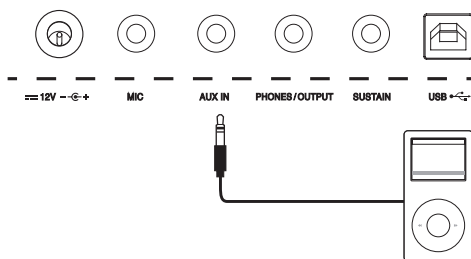
Connecting a Microphone

By connecting a microphone, you can enjoy singing along with your keyboard performance or with Song playback (KARAOKE).

1. Before turning the power on, set the master volume to minimum.

2. Connect a microphone to the [MIC] jack.

3. Turn the power on. Adjust the master volume while singing into the microphone.
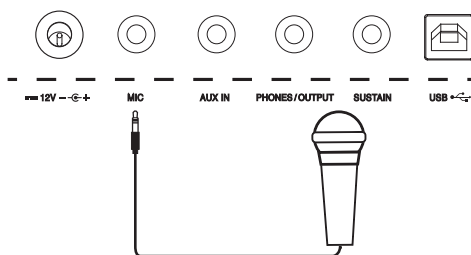
4. Power/Master Volume

Turn the Power On/Off

1. Make sure the instrument is properly connected to power supply.

2. Press POWER SWITCH, the LCD screen is lit, it indicates the instrument is powered on.

Note:
If the LCD isn't lit after you turn on the instrument, please check the power connection.
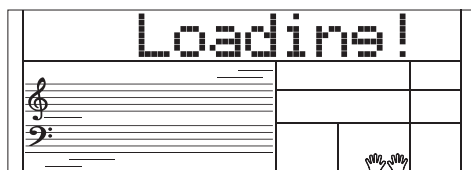
Adjust the Master Volume

Rotate the [VOLUME] knob clockwise, the master volume will increase and vice verse . It can be adjusted as required.
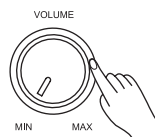
Note:
If the keyboard keeps silent, check if the volume has been set to minimum or if headphones are plugged into the Phone jack.

5. Playing Demo Songs

This instrument features several wonderful demos.
(Please refer to Demo List.)

1. Press the [DEMO] button, the LCD will display the current demo number and name, meanwhile, all demo songs will play in a loop.

2. Use the data dial or the [+/Yes]/ [-/No] button to select a demo song.

3. Press the [DEMO] or [START/STOP] button to stop playing, and exit demo mode.
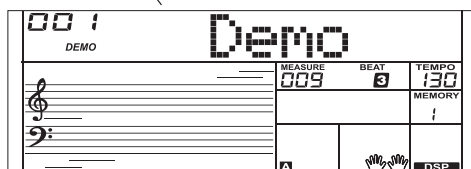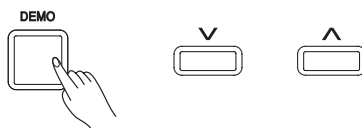
6. Playing Voices

1. Press the [VOICE] button.
Enter the Voice Mode. The LCD
displays the current default voice
name and number.

2. Select a Voice.
Use the data dial, the numeric
buttons or the [+/YES]/[-/NO] button
to select the voice you want to play.

3. Play the Voice.
Play the keyboard and enjoy the
beautiful voice.
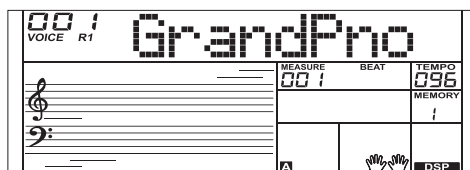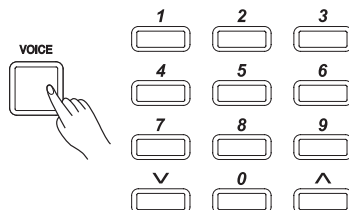
Note:
When the upper/lower voice is on,
and then you press the number keys
button, the corresponding upper/lower
voice will be selected.

7. Playing Styles

1. Press the [STYLE] button.
Enter the Style Mode. The LCD
displays the current default style
name and number.

2. Select a Style.
Use the data dial, the numeric
buttons or the [+/YES]/[-/NO] button
to select the style you want to play.

3. Play the Style.
Press the [START/STOP] button,
directly start a rhythm. Or you can
press the [SYNC START] button, then
press a key to start the rhythm.
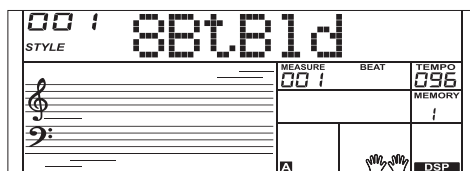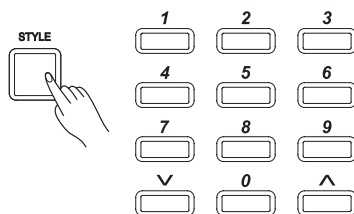
8. Playing Songs

This instrument has featured a variety of preset songs, and each song can be practiced in LESSON mode.

1. Press the [SONG] button.
Enter the song mode. It will play all songs circularly.

2. Select a song.
Use the data dial, the number keys or the [+/YES]/[-/NO] button to select the song you want to play.

3. Press the [START/STOP] button.
It will stop the song playback. Press the button again, it will play the current song repeatedly.

4. When the playback stops, press any of [STYLE] or [VOICE] button, you can exiting the song mode.
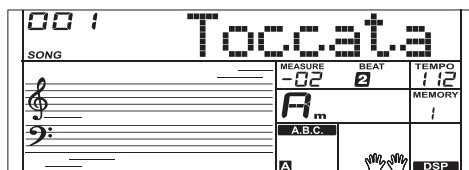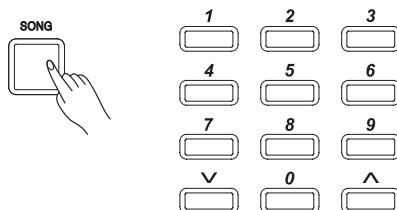
9. Record

You can record your performance and save it to a user song.

1. Press and hold the [SHIFT] button, and then press the [RECORD] button. Enter the user song selection interface, you can use the data dial or the [+/YES]/[-/NO] button to select a user song to which your recording will be saved.

2. Press and hold the [SHIFT] button, and then press the [RECORD] button. Enter the record standby mode, and you can select voice, style or other settings for the recording.
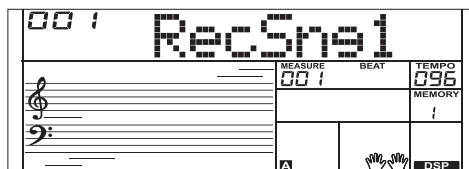
3. Press the [START/STOP] button or play a key on the keyboard to start recording.

4. Press and hold the [SHIFT] button, and then press the [RECORD] button to exit the record mode.

5. If you want to play back a record song, you can press and hold [SHIFT] button, and then press the [PLAY] button to enter the selection interface. Use the data dial or the [+/YES]/ [-/NO] button to select the recorded song you want to play back. Press and hold the [SHIFT] button and then press the [PLAY] button to play back recorded songs.

6. While playing back recorded songs, you can press and hold the [SHIFT] button and then press the [PLAY] button to exit the playing back.

7. In the selection interface of record playing back, press and hold the [SHIFT] button and then press the [RECORD] button, it displays "Delete?", press [+/YES] to delete the song, or [-/NO] to cancel and go back to the selection interface.
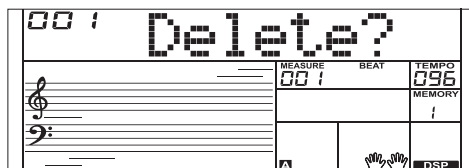
10. Playing Voices

The instrument features a variety of build-in voices .Try selecting different voices and play with various preset effects. Please refer to the Voice List.

Selecting a Voice

When power on, the "VOICE R1" icon will light up and the LCD will display the current voice name and number. Use the data dial, the numeric buttons or [+/YES]/ [-/NO] button to select the voice you want to play.

Note:
Alternatively, you can press the [VOICE] button to switch to the voice mode. The "VOICE R1" icon will light up and the LCD will display the name of upper voice.

Playing two voices simultaneously-DUAL

The dual function allows two different voices to be layered together, creating a much richer sound. Turn the function on, you can select a second voice for the dual voice "VOICE R2".

1. In idle mode, press and hold the [SHIFT] button and then press the [DUAL] button to turn dual function on. The LCD displays the current voice name and number, "VOICE R 2" and "DUAL" will light up. You can use the data dial, the numeric buttons or [+/YES]/ [-/NO] button to select the dual voice you want to play. The default Voice R2 is: String Ensembles.
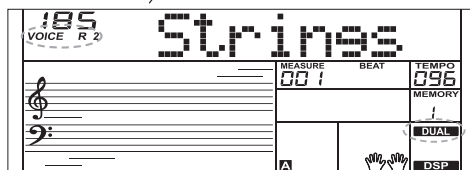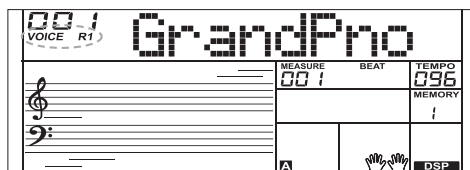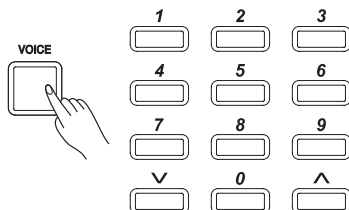
2. Play the keyboard, and then you will hear two different voices layered together. It seems like two different instruments playing at the same time.

3. When dual function is on, press and hold the [SHIFT] button and then press the [DUAL] button, it will turn dual function off.

Note:
When the keyboard is split, only the right hand area will have the dual voice.

Playing Different Voices with Both hands-LOWER

The lower function splits the keyboard into the left and the right hand areas, each with a different voice. The left hand voice is the lower voice "VOICE L" . The default split point is F#3 (19), however, you can set the split point to any key as required. (Refer to Split Point for more details).

1. In idle mode, press and hold the [SHIFT] button and then press the [LOWER] button to turn the lower function on. The LCD displays the left hand voice name and number, and the indicate "VOICE L" and "LOWER".

2. You can use the data dial, the numeric buttons or the [+/YES]/[-/NO] button to select the lower voice you want to play.
The default Voice L is: String Ensembles.

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

4. When lower function is on, press and hold the [SHIFT] button and then press the [LOWER] button, it will turn lower function off.
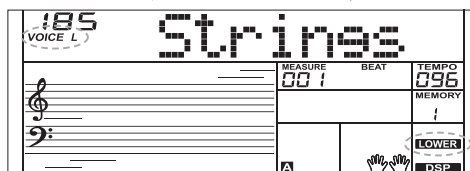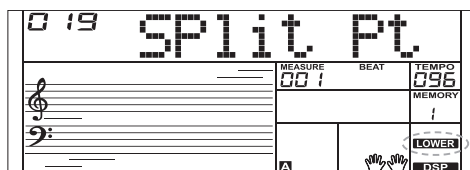
11. Auto Accompaniment

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 in the 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 instrument features a variety of styles. Try selecting some of the different styles (refer to Style List) and enjoy the auto accompaniment feature.

Play Auto Accompaniment (rhythm track only)

1. Press [STYLE] button.
Enter the style mode. The "STYLE" icon on the LCD will light up. The LCD displays the name and number of the current style.

2. Select a style.
Use the data dial, the numeric buttons or the [+/YES]/ [-/NO] button to select a style you want to play.

3. Start playing a style.
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.
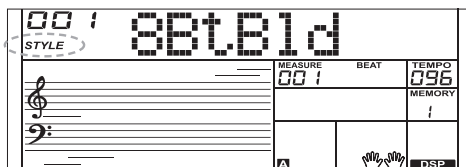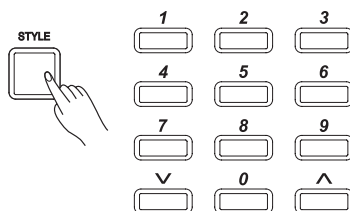
Play Auto Accompaniment (all tracks)

1. Turn the auto accompaniment on. In style mode, you can press the [CHORD] button to enter the "auto bass chord" (A.B.C.) mode. The keyboard is split into two sections. Left hand section is the chord section. The "A.B.C." icon will light up. Now pressing any key in chord section (Sync Start status) you will hear the fantastic accompaniment. Press [CHORD] button again to enter "full range" mode. The "FULL RANGE" icon will light up. You can play chords over the entire keyboard in multi-fingering.
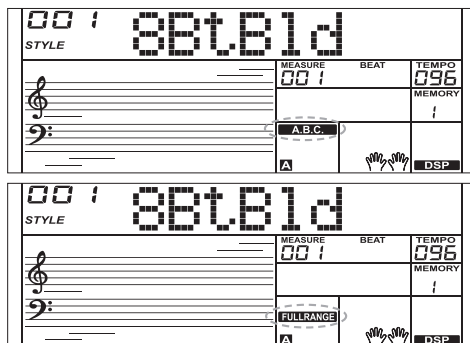
2. Start the auto accompaniment. You can press [SYNC START] button and then play a chord in chord section to start auto accompaniment of all tracks. When you change a chord, the accompaniment automatically changes. You can also press [START/ STOP] button to start auto accompaniment of rhythm track, then play a chord in chord section. 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), Fill (A, B), 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. It will play 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 pattern is finished, accompaniment will shift to the related main section (A,B).

ENDING Section
Ending is used for the ending of the song. When the ending pattern is finished, accompaniment automatically stops.

Note:
1. Hold down the [FILL A]/ [FILL B] button when the style is playing, the selected fill-in pattern repeats continuously until button is released.
2. When style stops, press the [FILL A]/[FILL B] button to select a MAIN section. "A or B" will highlight on LCD.

Playing Different Accompaniment Sections

1. Press the [STYLE] button.

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

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

4. Press [SYNC START] button.

5. Press the [FILL A] button, select the Main A section.

6. Press the [INTRO/ENDING] button. Now the "A" lights up on LCD, and the style is ready to play.
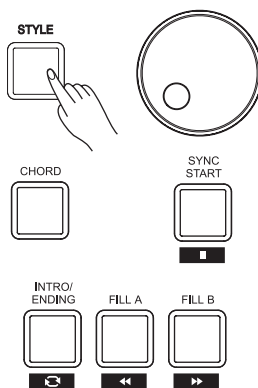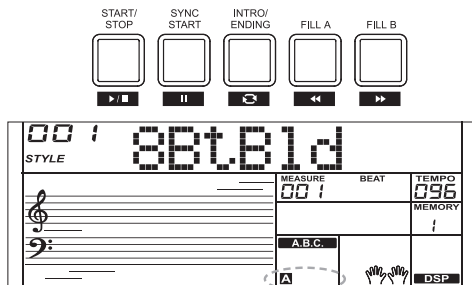
7. As soon as you play a chord with your left hand, the auto accompaniment starts. When the playback of the intro is finished, it automatically leads into Main A section.

8. Press the [FILL B] button. A fill-in plays, automatically followed by the Main B section.

9. Press the [INTRO/ENDING] button again, and it will enter the Ending Section. When the ending is finished, the auto accompaniment automatically stops.

Fade

1. Fade In
Starting the style with fade in produces a smooth beginning, the volume increases from low to high. Press the [FADE] button when Style playback is stopped. The "◢FADE" icon will be lighting up, and then flashing with style playing.

2. Fade Out
Stopping the style with fade out produces a smooth ending, the volume decreases from high to low. Press the [FADE] button during Style playback. The "FADE◣" icon will be lighting up, and then flashing with style playing.

3. Fade In/ Out Time
The default time is 10 seconds.
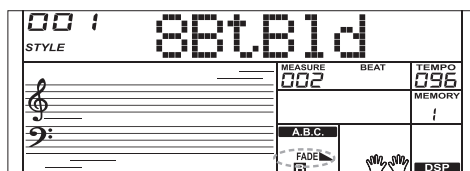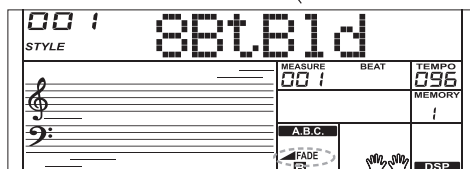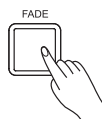
Accompaniment Volume

The function will adjust the accompaniment volume, so as to keep an appropriate balance between the accompaniment volume and the voice volume.
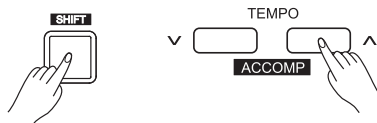
1. Press and hold the [SHIFT] button, and then use the [ACCOMP +]/ [ACCOMP -] button to set accompaniment volume, adjustable range: 0~32, the LCD displays current accompaniment volume level.
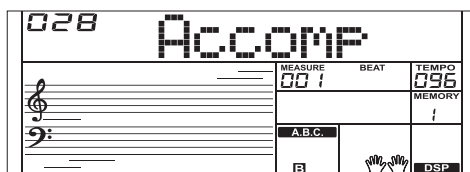
2. Press and hold the [SHIFT] button and then press the [ACCOMP +]/[ACCOMP -] for a while to quickly adjust the volume value.

3. When LCD displays the volume level, press and hold [SHIFT] and then, press the [ACCOMP +]/ [ACCOMP -] button simultaneously to turn the accompaniment volume off. The LCD displays "OFF Accomp". Keep the [SHIFT] button pressed and then press the [ACCOMP +]/ [ACCOMP -] button again to turn the accompaniment volume on.

Note:
It will automatically exit the setting if there is no operation in 5 seconds.

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.

Major Triad   Minor Triad

Diminished Triad   Augmented Triad

Root position   First Inversion   Second Inversion
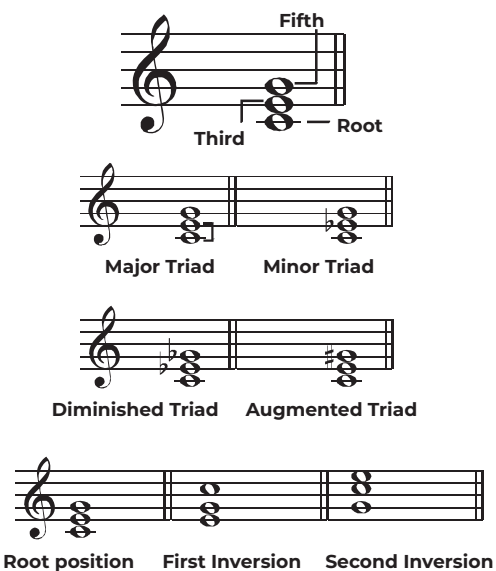
Triad Type
There are following basic triad types:

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. the root 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 type not only can detect single finger but also can detect multi finger. And the single finger makes it easily to play chords through only one, two or three keys. Including major, minor, seventh, and minor seventh chord. Refer to relevant picture on the right for details.

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.

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.

0 C	1 C_6	2 CM_7	3 $CM_7(\#11)$	4 $CM(9)$	5 $CM_7{}^{(9)}$
6 $C_6{}^{(9)}$	7 Caug	8 Cm	9 Cm_6	10 Cm_7	11 $Cm_7{}^{(b5)}$
12 Cm(9)	13 $Cm_7{}^{(9)}$	14 $Cm_7{}^{(11)}$	15 CmM_7	16 $CmM_7{}^{(9)}$	17 Cdim
18 $Cdim_7$	19 C_7	20 C_{7sus4}	21 $C_7{}^{(b5)}$	22 $C_7{}^{(9)}$	23 $C_7{}^{(\#11)}$
24 $C_7{}^{(13)}$	25 $C_7{}^{(b9)}$	26 $C_7{}^{(b13)}$	27 $C_7{}^{(\#9)}$	28 CM_{7aug}	29 C_{7aug}
30 $Csus_4$	31 C_{1+2+5}				

Notes enclosed in parentheses ✻ are optional; the chords could be recognized without them.

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 -] button.
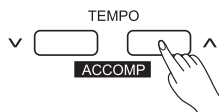
1. Use the [TEMPO +]/ [TEMPO -] button to change the tempo. While the tempo value is flashing, use the data dial to quickly change the tempo.

2. Press the [TEMPO+] and [TEMPO-] buttons simultaneously to restore the default tempo setting.
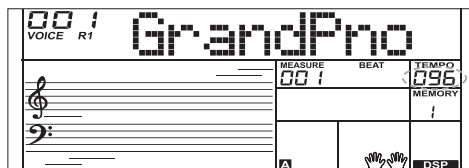
Note:
When style stops, changing the style will automatically reset the tempo. However, changing the style during style playback will not result in tempo change.

12. Function Menu

Press and hold the [SHIFT] button and then press the [FUNCTION] button to enter function menu. The LCD displays the current function menu option. Use [+/YES]/[-/NO] button or the data dial to adjust the parameter of the current option.
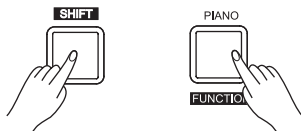
The option and parameters are as follows:

NO.	Content	LCD display	Range	Default
1	Tune	xxx Tune	-50 ~ +50	0
2	Split Point	xxx Split pt	1-61	19
3	Beat Type	xxx Beat	0, 2-9	4
4	Pedal Type	xxx Ped XXX	Ped Sust, Ped Soft, Ped Mem, Ped St/S	Ped Sust
5	EQ Type	xxx EQ XXX	EQ Pop, EQ Rock, EQ Class, EQ Jazz, EQ Dance, EQ Reset	EQ Reset

NO.	Content	LCD display	Range	Default
6	Reverb Type	xxx RevHall1	RevRoom1, RevRoom2, RevRoom3, RevHall1, RevHall2, RevHall3, RevChrh1, RevChrh2, RevDelay, RevPnDly	RevHall1
7	Reverb Level	xxx Rev Lev	0-32	20
8	Chorus Type	xxx ChrGMCr2	ChrChrs1, ChrChrs2, ChrGMCr1, ChrGMCr2, ChrFlgr1, ChrFlgr2, ChrRtry1, ChrRtry2	ChrGMCr2
9	Chorus Level	xxx Chr Lev	0-32	0
10	Harmony Types	xxx HrmDuet	HrmDuet, HrmStdTri, HrmFulCd, HrmRkDut, HrmCtDut HrmCtTri, HrmBlock, Hrm4Cls1, Hrm4Cls2, Hrm4Open, Hrm1+5, HrmOctv1, HrmOctv2, HrmStrum	HrmDuet
11	MIDI Receive	xxx Midi In	01-16, ALL	ALL
12	MIDI Transmit	xxx Midi Out	01-16	01
13	Auto Power Off	xxx PowerOff	30, 60, OFF	30

Note:
It will exit the function menu if there is no operation in 5 seconds.

Tune

This function sets the pitch of entire keyboard in 2-cent increments.

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select the tune menu. The LCD displays "xxx Tune".
   Use [+/YES]/ [-/NO] button or data dial to change tune value. Its range is from -50 to 50 cents.
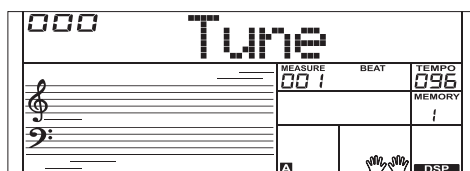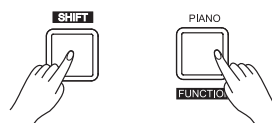
2. Press [+/YES] and [-/NO] buttons simultaneously will set the tune value to its default setting: 0. The setting applies to both accompaniment and the voice.

Split Point

This function sets the point which separates the entire keyboard to two sections. The left hand section controls the auto bass chord accompaniment when the A.B.C. function is on, or it plays the lower voices when the A.B.C. function is off.

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select split point menu. The LCD displays "xxx Split Pt". Use [+/YES]/ [-/NO] button or data dial to change Split Point. The range of Split Point is: 1~61.

2. Press [+/YES] and [-/NO] buttons simultaneously will set the split point to its default setting.

Note:
The Split Point belongs to the left hand area.

Beat Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select beat type menu. The LCD displays "xxx Beat".
Use [+/YES]/ [-/NO] button or data dial to change beat type. The range of beat type: 0, 2~9.

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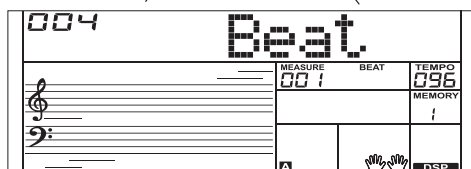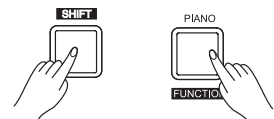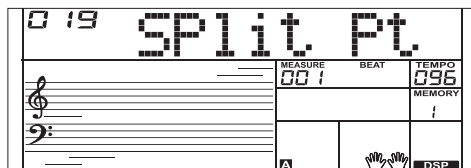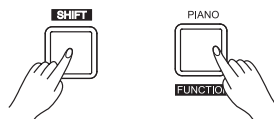
Pedal Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select pedal type menu. The LCD displays "001 Ped Sust".
Use [+/YES]/ [-/NO] button or data dial to change pedal type.

2. There are 4 types of pedal function available.

3. Press [+/YES] and [-/NO] buttons simultaneously will set the pedal type to its default setting: Sust.
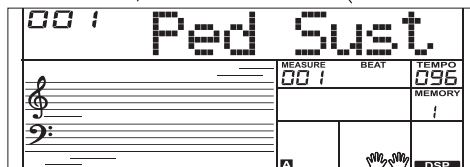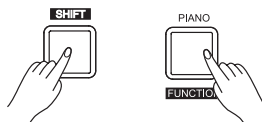
No.	LCD	Pedal Function
1	Ped Sust	Sustain Pedal
2	Ped Soft	Soft Pedal
3	Ped Mem	Memory Switch Pedal
4	Ped St/S	Start/Stop Pedal

Note:
1. The instrument will automatically detect the pedal when power on.
2. Do not press the pedal when turning on the instrument, otherwise, it will reverse the pedal operation.

EQ Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select the EQ type menu. The LCD displays "006 EQ Reset".
Use [+/YES]/ [-/NO] button or data dial to change EQ type.
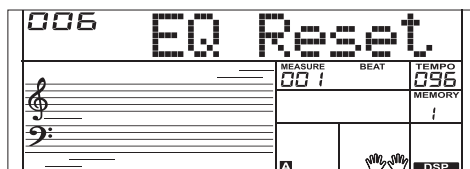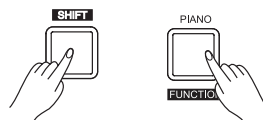
There are 6 EQ types available.

No.	LCD	EQ Type
1	EQ Pop	Pop
2	EQ Rock	Rock
3	EQ Class	Classical
4	EQ Jazz	Jazz
5	EQ Dance	Dance
6	EQ Reset	Reset

Reverb Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select reverb type menu. The LCD displays "004 RevHall1".
Use [+/YES]/ [-/NO] button or data dial to change reverb type. The default setting is Hall 1.

No.	LCD	Reverb Type
1	RevRoom1	Room 1
2	RevRoom2	Room 2
3	RevRoom3	Room 3
4	RevHall1	Hall 1
5	RevHall2	Hall 2
6	RevHall3	Hall 3
7	RevChrh1	Church 1
8	RevChrh2	Church 2
9	RevDelay	Delay
10	RevPnDly	Pan Delay
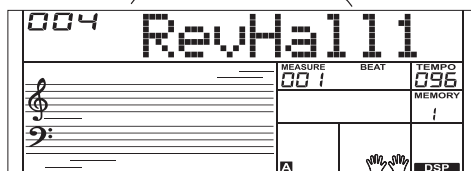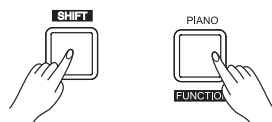
Reverb Level

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select reverb level. The LCD displays "xxx Rev Lev", adjustable range is: 0-32.
Use the [+/YES]/ [-/NO] button or data dial to change reverb level,

2. Press the [+/YES] and [-/NO] buttons simultaneously to restore its default setting: 20.
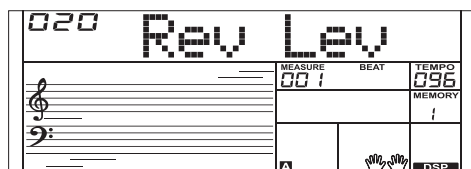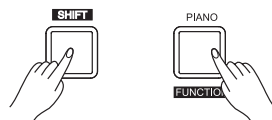
Chorus Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select chorus type menu. The LCD displays "004 ChrGMCr2", Use the [+/YES]/[-/NO] button or data dial to change chorus type, the default setting is GM Chorus 2.
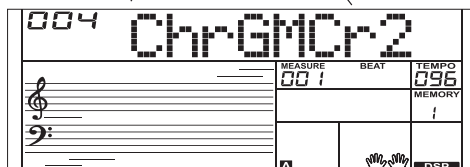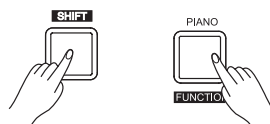
| No.	LCD	Chorus Type
1	ChrChrs1	Chorus 1
2	ChrChrs2	Chorus 2
3	ChrGMCr1	GM Chorus 1
4	ChrGMCr2	GM Chorus 2
5	ChrFlgr1	Flanger 1
6	ChrFlgr2	Flanger 2
7	ChrRtry1	Rotary 1
8	ChrRtry2	Rotary 2

Chorus Level

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select chorus level menu. The LCD displays "xxx Chr Lev", adjustable range: 0-32. Use the [+/YES]/ [-/NO] button or data dial to change chorus level.

2. Press the [+/YES] and [-/NO] buttons simultaneously to restore its default setting: 0.
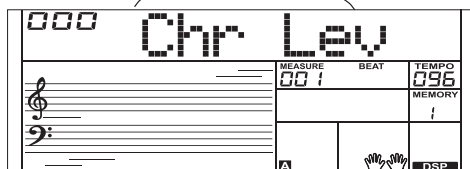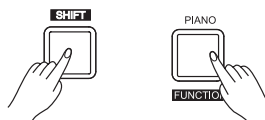
MIDI IN/OUT

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select MIDI IN/OUT menu. The LCD displays "xxx Midi In"/ "xxx Midi Out".

1. Use [+/YES]/ [-/NO] button or data dial to change MIDI IN channel: 1~16, ALL. Press [+/YES] and [-/NO] buttons simultaneously to restore MIDI IN channel to its default setting: ALL.

2. Use [+/YES]/ [-/NO] button or data dial to change MIDI OUT channel: 1~16. Press [+/YES] and [-/NO] buttons simultaneously to restore MIDI OUT channel to its default setting: 1.
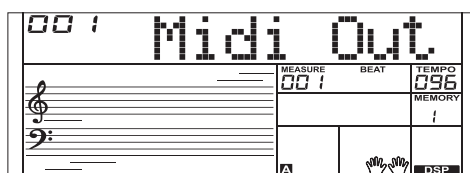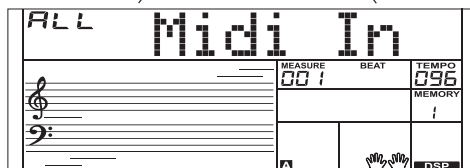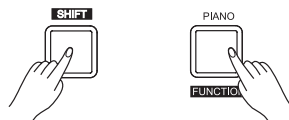
Auto Power Off

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select auto power off menu. The LCD displays "xxx Power Off".
Use [+/YES]/ [-/NO] button or data dial to change auto power off time. This function offers 3 options: 30 minutes, 60 minutes or OFF and the default setting is: 30 minutes.
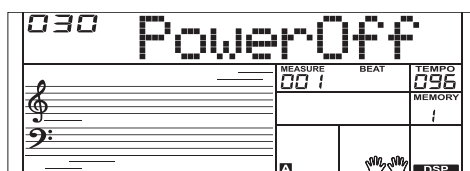
13. Mixer

Mixer function adjusts separately the volume of different tracks.

1. Press the [MIXER] button to enter the mixer function menu, the LCD displays "030 Rhythm_s" for the initial time when powered on; Next time when you enter the menu, it will show the same option of your last operation.

2. Repeatedly press the [MIXER] button to select an option. Use [+/YES]/ [-/NO] button or data dial to change parameters. The option and parameters are as follows:
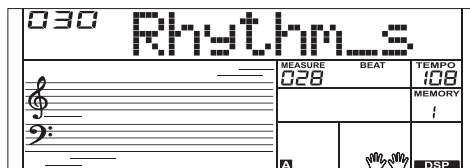
Content	LCD Display	Range
Adjust the Rhythm track volume.	XXX Rhythm_s	0-32
Adjust the Percussion track volume.	XXX Rhythm_m	0-32
Adjust the Bass track volume.	XXX Bass	0-32
Adjust the Chord 1 track volume.	XXX Chord1	0-32
Adjust the Chord 2 track volume.	XXX Chord2	0-32
Adjust the Chord 3 track volume.	XXX Chord3	0-32
Adjust the Phrase 1 track volume.	XXX Phrase1	0-32
Adjust the Phrase 2 track volume.	XXX Phrase2	0-32
Adjust the Upper 1 track volume.	XXX Upper 1	0-32
Adjust the Upper 2 track volume.	XXX Upper 2	0-32
Adjust the Lower track volume.	XXX Lower	0-32

Note:
It will exit the mixer menu if there is no operation in 5 seconds.

14. Effect Related Settings

Octave

1. Press and hold the [SHIFT] button and then press the [OCTAVE] button to select octave function menu. The LCD displays "xxx Octave". Use [+/YES]/ [-/NO] button or data dial to change octave value, adjustable range is: -1~ +1.

2. Press the [+/YES] and [-/NO] buttons simultaneously to restore default setting: 0.
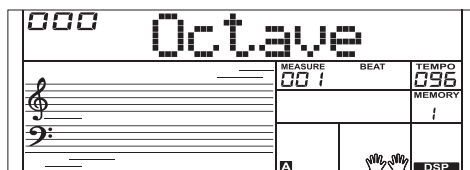
Touch

The touch function lets you dynamically and expressively controls the level of the voice with your playing strength – just as on an acoustic instrument.

1. Press and hold the [SHIFT] button and then press the [TOUCH] button to enter touch menu. The LCD displays "xxx Touch".

2. Use [+/YES]/ [-/NO] button or data dial to change touch response level. Default level of touch response is 2.

3. If the value is set to OFF, there will be no touch response to keyboard.
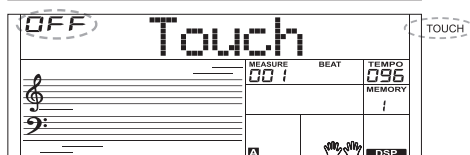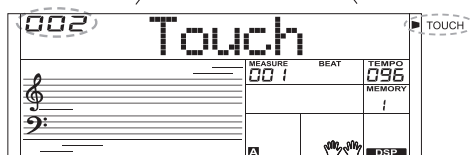
Metronome

The metronome provides a steady beat to help you practise at a preset tempo. Press [METRONOME] button to start the metronome.
To stop the metronome, press the [METRONOME] button again. (The metronome type can be set in the function menu.)

Note:
The metronome will respond in the next beat if it is turned on during style playback.

Sustain

1. Press and hold the [SHIFT] button and then press the [SUSTAIN] button to start sustain function. All notes will sustain even after releasing the keys.

2. To stop the sustain function, press and hold the [SHIFT] button and then press the [SUSTAIN] button again.
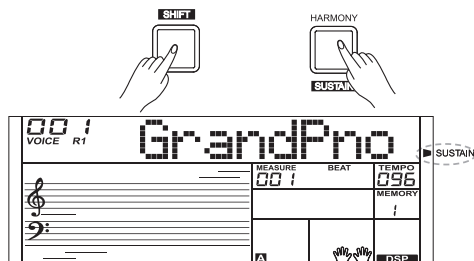
Note:
To have a better sustain effect, please use a sustain pedal. (Refer to pedal function for more details.)

Pitch Bend

Use the pitch bend wheel to bend notes up (roll the wheel away from you) or down (roll the wheel toward you) while playing the keyboard. The pitch bend wheel is self-centering and will automatically return to normal pitch when released.
You can use the pitch bend wheel to imitate the guitar, violin, saxophone, urheen, suona and other instruments pitch bend effect, make your performance more vivid.
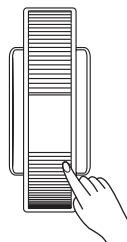
DSP

The DSP simulates sounds in the real environment. With the DSP effect, you can add ambiance and depth to your performance in a variety of ways.

1. Press and hold the [SHIFT] button and then press the [DSP] button to set the DSP effect on. The DSP indicator lights up on LCD. The DSP effect is automatically activated when turning on the instrument.

2. Press and hold the [SHIFT] button and then press the [DSP] button again to turn DSP effect off.
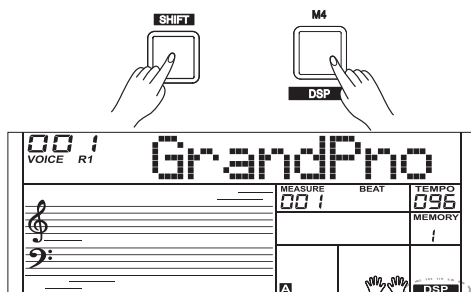
Transpose

1. Press and hold the [SHIFT] button and then press the [TRANSPOSE] button to enter the transpose menu. The LCD displays "xxx Transpos".

2. Use [+/YES]/ [-/NO] button or data dial to change transpose value, adjustable range:-12~ +12, the default value is: 0.
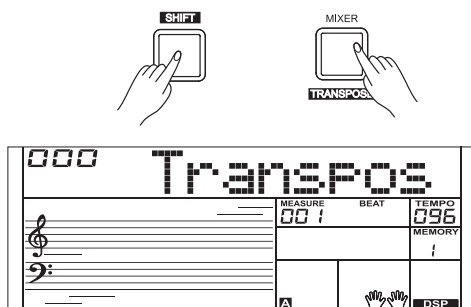
Harmony

The harmony function will automatically add harmony effect to the notes you play in the right-hand section, which gives you a rich and harmonic expression.

1. Press the [CHORD] button to turn on the A.B.C. function.

2. Press the [HARMONY] button to turn the harmony effect on.

3. Play a chord in the left hand section.

4. As soon as you play in the right hand section, it will automatically add harmony effect to the notes you play.

Note:

1. Harmony cannot be turned on when the Full Range fingering mode is selected.
2. The harmony types of "1+5", "Octave 1" or "Octave 2" are always available. Other types of harmony will respond only when the A.B.C. is ON.
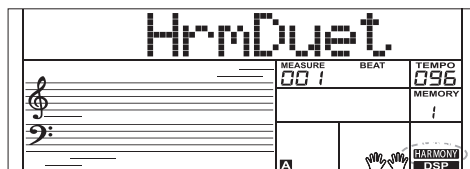
15. Register Memory

The Registration Memory feature can make your performance more easy and efficient. It allows you to save virtually all panel settings to a Registration Memory setting, and you can instantly recall them by pressing a single button.

Registering the Panel Setting

1. There are 8 memory banks, and each bank has 4 memories (M1-M4).

2. Holding down the [STORE] button, then press one of the memory buttons [M1] - [M4]. Note that new settings will replace the previous memory data.

3. Parameters that can be saved to the registration memory:
   Voice: main voice, dual, lower, DSP, mixer.
   Accompaniment: style, tempo, accompaniment on/off.
   Function: touch, some parameters in the function menu.
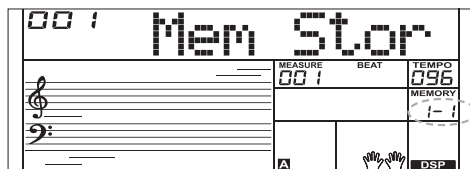
Recalling the Registered Panel Settings

1. Press one of the memory buttons: [M1] - [M4]. For example, press [M2], and the panel settings stored in the memory 2 of bank 1 are recalled.

Note:
Registration data cannot be recalled when the One Touch Setting function is on.

Selecting a Registration Bank

1. Press the [BANK] button, the LCD displays "00X Mem Bank".

2. Press the [BANK] button repeatedly to select a bank from 1 to 8.
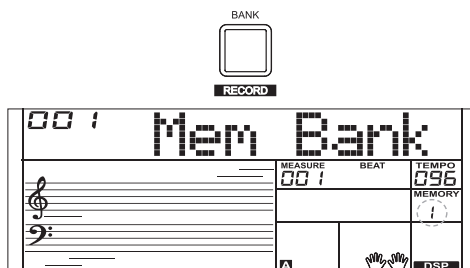
16. One Touch Setting

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 turns on the One Touch Setting for current style. The LCD displays "O.T.S. ".
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 and the lower and dual functions are disengaged.
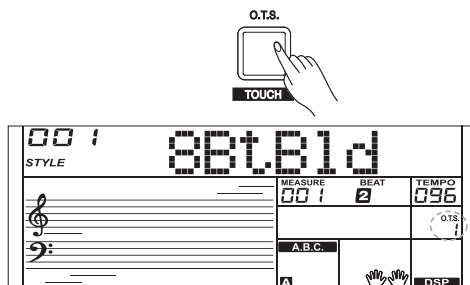
2. Press the [O.T.S.] button again to turn off the One Touch Setting. It will automatically switch to the registered memory.
The LCD displays "MEMORY".

3. One Touch Setting parameter list:
Voice (Volume, Pan, Octave)
Dual (Volume, Pan, Octave)
Left Hand (Volume, Pan, Octave)

Note:
The O.T.S. is automatically turned off when you enter the song mode.

17. RECORD

Use the powerful record function; you can record your own keyboard performance in real time and save it as a user song, just like using recording equipment, and you can play back the recording.

Prepare for Recording

1. Before you start recording, you need to select a user song to which your recording will be saved.

2. Press and hold the [SHIFT] button and then press the [RECORD] button to select a user song, the "REC" icon lights up. The LCD displays "XXX NoFileX", if you have selected a user song with no record data; or the LCD displays "XXX RecSngX", if you have selected a user song with record data, for example, "001 RecSng1". You can use [+/YES]/ [-/NO] button or data dial to select a user song you want.
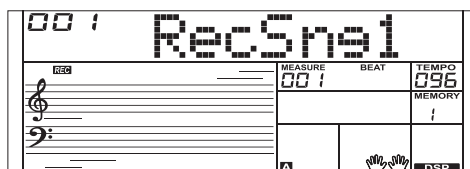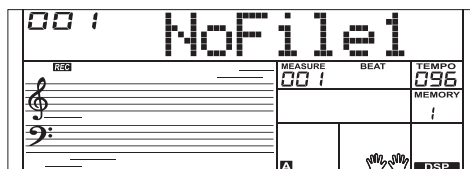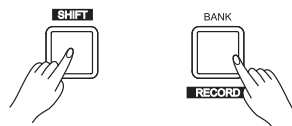
3. Press and hold the [SHIFT] button and then press the [RECORD] button to enter the recording standby mode, the REC icon starts flashing. Now you can adjust such settings as the voice, style and so on.

4. In the recording standby mode, press and hold the [SHIFT] button and then press the [RECORD] button to exit the record mode.

Note:
The new record will overwrite the previous data in the user song you have selected.

Start Recording

1. In the recording standby mode, press the [START/STOP] button to start recording. The four beats on LCD start flashing and the measures start counting down. You can stop recording by pressing the [STAR/ STOP] button.

2. Or you can play the keyboard to start recording. When the A.B.C. is ON, play any key in left hand section to start the accompaniment. When the A.B.C is OFF, press the [START/ STOP] button twice to start accompaniment.

3. While recoding, the [SYNC START] button is unavailable.

Stop Recording

Manually Stop Recording
Press and hold the [SHIFT] button and then press the [RECORD] button to stop recording. The "REC" icon, beat count and record icon will light off.
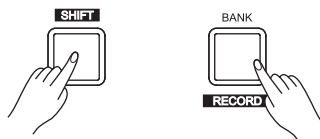
Automatically Stop Recoding
1. When recording is in process, if the memory is full, the recording will stop and save automatically.

2. If you are recording the accompaniment, the recording will stop automatically when the ending of the rhythm finishes.

Playback Recording

1. In idle mode, holding down [SHIFT] button and then press the [PLAY] button to enter the selection interface. The LCD displays "XXX NoFileX", if you have selected a user song with no record data; or the LCD displays "XXX PlySngX", if you have selected a user song with record data, for example, "001 PlySng1".
You can use [+/YES]/[-/NO] button or data dial to select a user song you want to playback.
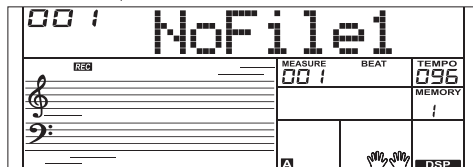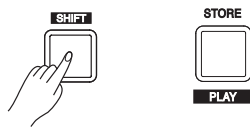
2. Press and hold the [SHIFT] button and then press the [PLAY] button to playback the user song.

3. To stop the playback, press and hold the [SHIFT] button and then press the [PLAY] button.

Delete Recording

1. Pressing and holding [RECORD] and [PLAY] buttons together and turn power on simultaneously, all user songs will be erased.

2. In the recording playback status, holding down [SHIFT] button and then press the [RECORD] button, the LCD will display "Delete?", press [+/YES] button to delete user song, press the [-/NO] button to cancel.
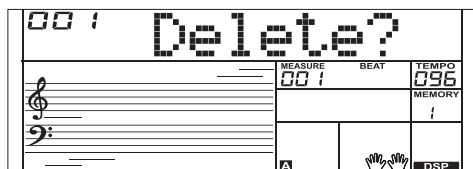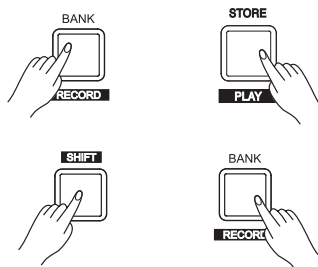
Note:
The saved user songs will not be lost after power off.

18. Playing the Demo Song

This instrument features several wonderful demos. Please refer to Demo List.

1. Press the [DEMO] button, the DEMO icon is lit, all demo songs will play in circle.

2. Use [+/YES]/ [-/NO] button or data dial to select different demo song. Press the [DEMO] or [START/STOP] button to stop playing and exit the demo mode.

Note:
In the demo status, all buttons and keys are unavailable except [DEMO], [START/STOP], [+/YES], [-/NO] button, [TEMPO +], [TEMPO -], data dial, [VOLUME] knob and POWER SWITCH.
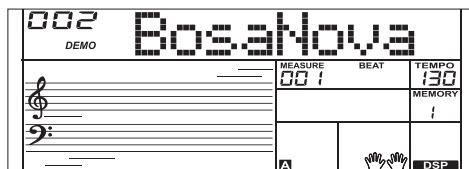
19. Piano Mode

This function is to set the voice of the whole keyboard to piano instantly.

1. Press the [PIANO] button to enter or exit piano mode.

2. In piano mode, the accompaniment control is the same as in other mode. The accompaniment only plays the rhythm part.

Note:
In piano mode, you can enter the mixer menu and the function menu. In piano mode, the A.B.C. is automatically turned off.

44
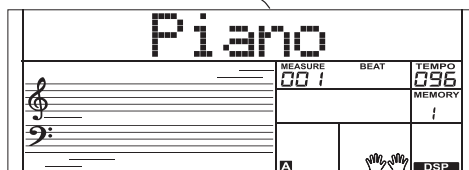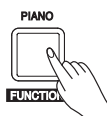
20. Song

The instrument has a variety of songs, use [+/YES]/ [-/NO] button and data dial to select a song. All songs can be practised in the lesson mode.

Listen to the songs

1. Press the [SONG] button to enter the song mode. All songs will play circularly.

2. Use the [+] or [-] button to select a song.

3. During song playback, press [SONG] or [START/STOP] to stop the playback.
When the song stops, press the [START/STOP] button, it will play the current song repeatedly.

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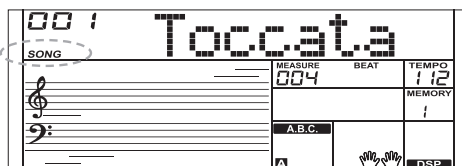
Song Control

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

2. REW, FF and PAUSE
When the song is playing:
Press the [⏩] button to fast forward the song.
Press the [⏪] button to rewind the song (base on the measure).
Press the [‖] button to pause the playing song, press again to continue playing.
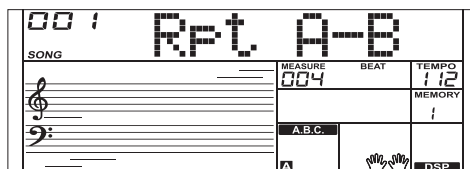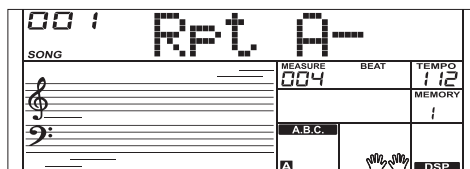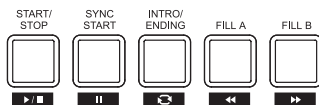
3. Song Repeat
When playing the song, press the [↻] to set the beginning for a loop section of the current song, then press it again to set the loop end. During loop playback, press the same button to quit the loop and go back to song playback.

Lesson Mode

Control buttons in the lesson mode: [SHIFT] + [LESSON], [SHIFT] + [L], [SHIFT] + [R] and [SHIFT] + [L] + [R].
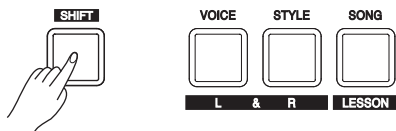
1. Enter the lesson mode
While the song stops, holding down the [SHIFT] button and press the [LESSON] button.

2. Select the practice hand.
All songs can be practised in three types: time training, note training and performance mode. The grading system will help you keep track of your progress.

Use [SHIFT] + [L], [SHIFT] + [R] or [SHIFT] + [L] + [R] button to select the lesson you want to practice. Alternatively, the keyboard will automatically select the right hand practice for you.

Note:
1. The left-hand practice may vary for different type of songs. If you choose a rhythm song, the left hand practices the chord; if you choose a piano song, the left hand practices the melody. Some MIDI songs may not have practice for the left hand.
2. You cannot change the practice mode when the song is playing. When you finish the song, it will grade your practice automatically. However, no score will be given if you stop halfway.
3. When the song is playing, the staff and the chord will be displayed on the LCD, telling you the note position.

Lesson 1 - Practice timing

While the song stop playing, holding down [SHIFT] button and then press the [LESSON] button to enter the lesson mode. The "LESSON 1"icon lights up on LCD. In Lesson 1 mode, you need to play at the correct time value. As long as you play any key at the right time, the correct note will sound.
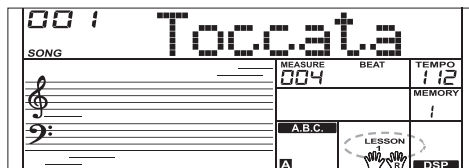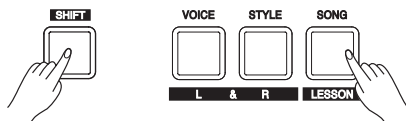
Lesson 2 - Practice note accuracy

Press the [SHIFT] + [LESSON] buttons again to enter the lesson 2 mode. The "LESSON 2" icon lights up. In LESSON 2 mode, you need to play the correct notes. The lesson will continue only when you have played the note displayed on LCD, otherwise the song will stop and wait.
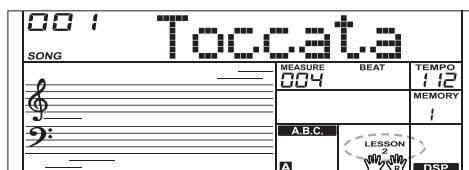
Lesson 3 - Performance

Press the [SHIFT] + [LESSON] button the third time to enter the lesson 3 mode. Or you can repeatedly press the [LESSON] button when the song stops playing. The "LESSON 3" icon lights up. In LESSON 3 mode, it will score your practice by the correction of the time value and notes.
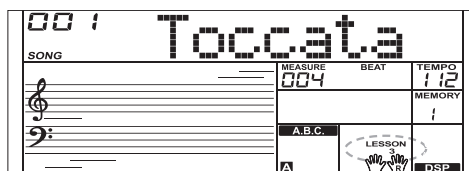
Comment Function:

In LESSON 1, LESSON 2 and LESSON 3, your performance will be graded as follows:
The 1 class: "Excellent!"
The 2 class: "Very Good!"
The 3 class: "Good!"
The 4 class: "Try Again!"
It will automatically play back the current song after giving comments.

47

21. Chord Dictionary

If you know the name of a chord but don't know how to play it, you can use the Chord Dictionary function. You can learn the chord and test in this features.

DICT 1 (Chord Learning Mode)

Press and hold the [SHIFT] button and then press the [DICT.] button to enter the DICT 1 mode.

The LCD display "Dict.1", and the A.B.C. is automatically set to on. In DICT 1 mode, the keys C4~B5 are used to assign the Chord Type, the keys C6~B6 are used to assign the Chord Root. When the Chord Type and Chord Root are confirmed, the chord notes will be shown on display. You will hear a prompt sound if you correctly play the note in the left hand section.

DICT 2 (Chord Testing Mode)

In DICT 1 mode, press and hold the [SHIFT] button and then press the [DICT.] button to enter the DICT 2 mode.

In DICT 2 mode, you can have a chord test. LCD will display a chord name in random order. If the chord fails to be played in 3 seconds, its notes will appear on LCD. Once the chord is played correctly, a new chord name will appear after a few seconds.

Exit Chord Dictionary

In DICT 2 mode, press and hold the [SHIFT] button and then press the [DICT.] button again to turn off chord dictionary.
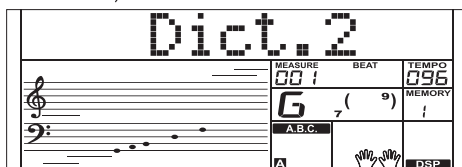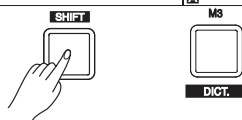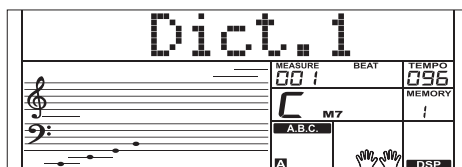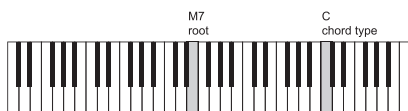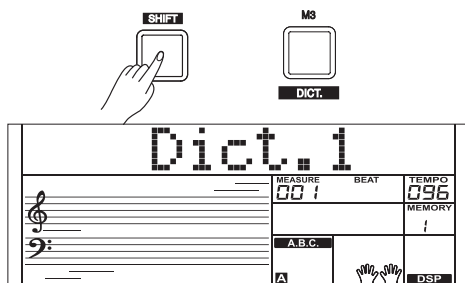
24 Chord Types in the chord dictionary are as follows:

Note	Chord Type	Note	Chord Type	Note	Chord Type
C6	C	C4	M	C5	7(b9)
C#6	C#/Db	C#4	M(9)	C#5	7(9)
D6	D	D4	6	D5	7(#9)
Eb6	Eb/D#	Eb4	mM7	Eb5	7(b13)
E6	E	E4	M7	E5	7(13)
F6	F	F4	M	F5	7(#11)
F#6	F#/Gb	F#4	M(9)	F#5	dim7
G6	G	G4	M6	G5	dim
Ab6	Ab/G#	Ab4	M7(9)	Ab5	7aug
A6	A	A4	M7	A5	aug
Bb6	Bb/A#	Bb4	M7b5	Bb5	7sus4
B6	B	B4	7	B5	sus4

22. Pedal Function

The pedal function will make your performance more natural and with greater expressiveness.
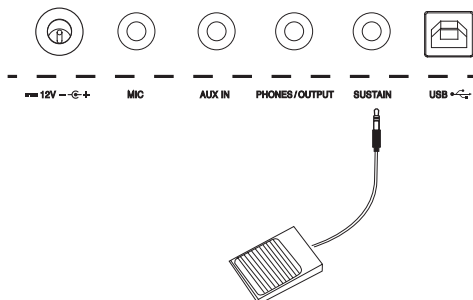
Multi-function Pedal

You can refer to Pedal Type chapter for details.

1. Sustain Pedal
This pedal function performs the same function as the damper pedal on an acoustic piano, letting you sustain the sound of voices even after releasing the keys.
Step and press on the pedal to turn the sustain effect on.
Release the pedal to turn the sustain effect off.
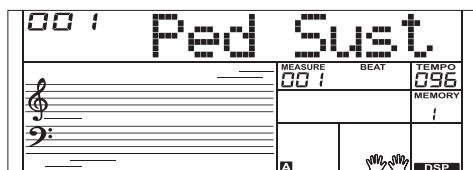
2. Soft Pedal
When the soft pedal is selected, pressing this pedal will make the notes you play sound softer.

```
002   Ped Soft.
                    MEASURE   BEAT   TEMPO
                     001            096
                                    MEMORY
                                      1
                    A        [hand] DSP
```
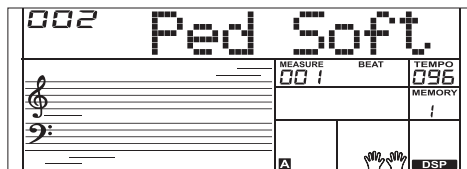
3. Memory Pedal
When the memory pedal is selected, press this pedal at the first time to call up register memory: M1, and then you can call up register memory M2, M3...by pressing this pedal step by step.

```
003   Ped Mem
                    MEASURE   BEAT   TEMPO
                     001            096
                                    MEMORY
                                      1
                    A        [hand] DSP
```
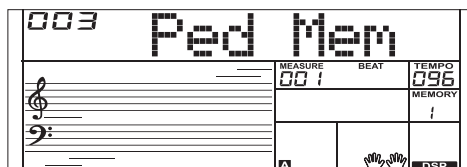
Note:
If the current memory recalled cantains pedal settings, the pedal function will be automatically re-defined by the settings.

4. Style Start/Stop Pedal
When the style start/stop pedal is selected, press this pedal to start/ stop accompaniment.

```
004   Ped St./S
                    MEASURE   BEAT   TEMPO
                     001            096
                                    MEMORY
                                      1
                    A        [hand] DSP
```
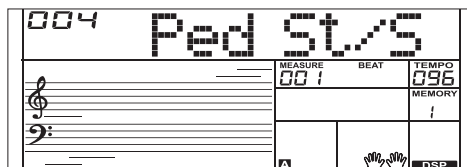
23. MIDI

With the MIDI functions you can expand your musical possibilities.
This section will let you know what MIDI is, and what it can do, as well as how you can use MIDI on your instrument.

What's MIDI?

1. 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.

2. 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.

Note:
This instrument has a USB(DEVICE) terminal, which can be connected to a PC as an MIDI input or MIDI output. This can not be connected with another instrument, unless the instrument has a USB host terminal.

The main application of MIDI

1. Used as a tone generator
This instrument can receive MIDI data from computer, and execute MIDI controls to change channels, change voices, add effect and make sound and so on. Refer to MIDI Implementation Chart for more MIDI controls.

2. Used as a MIDI Keyboard
When you play the keyboard, change the voices or turn the DSP on/off, the instrument will send MIDI data to the computer, which will be saved as records. (It only records your keyboard performance when playing along with accompaniment.) You can edit the records on the computer, such as changing the channels or voices, adding DSP effects. Then play back the records with the instrument or other sound source (such as a sound card). You can play the keyboard along with the playback. Refer to MIDI Implementation Chart for more MIDI controls.

3. Select a MIDI Device
To use the USB port of the instrument, you need to set the software on your computer. For example, set the Cakewalk Pro Audio MIDI software under WINDOWS XP operating system.
Open the Cakewalk Pro Audio MIDI software.

Set the USB AUDIO DEVICE either as the MIDI Input port on the left of the pop-up window, or as the MIDI Output port on the right, then press "OK".

Alternatively, you can select the MIDI device on the TOOLS MIDI DEVICES menu of Cakewalk. Make the same settings when using other similar MIDI software.
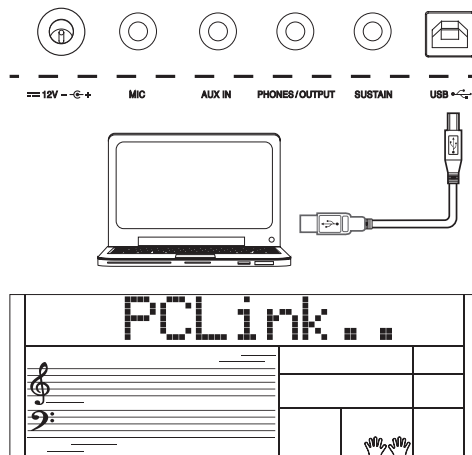
24. Troubleshooting

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 the PHONES/OUTPUT jack. 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 righthand 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.

Notice:
If you notice any abnormality that cannot be handled, please connect the provider or specified repair agent, and have the instrument inspected by qualified service personnel.

25. Specifications

Keys	61 Keys with Touch Response, 3 Touch Levels
LCD Display	Multi-functional LCD
Polyphony	128
Voices	633
Styles	220
Demos	8
Songs	150
Tempo	30-280
Panel Memory	32
Chord mode	Single-finger, Multi-finger
Chord dictionary	Convenient for users to learn chords
Accompaniment/Song Control	Start/Stop, Sync Start, Intro/Ending, Fill A, Fill B,
Record	10 user song, support playback
Control button	Power Switch, Volume Knob, Shift, Tempo+/- (Accomp+/-), Metronome(Octave), Mixer (Transpose), Harmony(Sustain), Start/ Stop, Sync Start, Intro/Ending, Fill A, Fill B, A.B.C., Fade Bank(Record), Store(Play), M1(Dual), M2(Lower), M3(Dict.), M4(DSP), O.T.S.(Touch), Voice(L), Style(R), Song(Lesson), Piano(Function), Demo, -/NO, +/YES, Data Dial
Connectors	PHONES/OUTPUT, SUSTAIN, AUX IN, MIC, USB, DC IN.
Power Supply	DC IN 12V/800mA
Speaker	4 ohm 3W X 2
Dimensions	956(L) x 360(W) x 133(H) mm
Weight	5.0KG

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

26. Voice List

NO.	English Name	LCD Name
Piano		
1	Acoustic Grand Piano	GrandPno
2	Acoustic Grand Piano 2	GrandPn2
3	Acoustic Grand Piano (wide)	GrandPnW
4	Acoustic Grand Piano (dark)	GrandPnD
5	Bright Acoustic Piano	BritePno
6	Bright Acoustic Piano 2	BritePn2
7	Bright Acoustic Piano (wide)	BritePnW
8	Electric Grand Piano	E.Grand
9	Electric Grand Piano 2	E.Grand2
10	Electric Grand Piano (wide)	E.GrandW
11	Electric Grand Piano (dark)	E.GrandD
12	Honky Tonk Piano	HnkyTonk
13	Honky Tonk Piano 2	HnyTonk2
14	Honky Tonk Piano (wide)	HnyTonkW
15	Honky Tonk Piano (dark)	HnyTonkD
16	Harpsichord	Harpsi
17	Harpsichord 2	Harpsi2
18	Harpsichord (octave mix)	HarpsiO
19	Harpsichord (wide)	HarpsiW
20	Harpsichord (with key off)	HarpsiOf

NO.	English Name	LCD Name
21	Octave Grand Piano	OctPno
22	Octave Grand Piano 2	OctPno2
23	Piano & Strings	Pno&Str
24	Piano & Pad	Pno&Pad
25	Piano & Choir	Pno&Cho
26	Piano & EP	Pno&EP
27	Piano & Vibraphone	Pno&Vib
28	Detuned Electric Piano	DetunEP
29	Detuned Electric Piano 2	DetunEP2
30	Electric Piano	E.Piano
31	Electric Piano 2	E.Piano2
32	Electric Piano 3	E.Piano3
33	Electric Piano 4	E.Piano4
34	Electric Piano 1 (velocity mix)	E.PnoV1
35	Electric Piano 2 (velocity mix)	E.PnoV2
36	60's Electric Piano	60'sEP
37	EP Legend	EPLegend
38	Phase EP	PhaseEP
39	Clavi	Clavi
40	Clavi 2	Clavi2
41	Phase Clavi	PhaseClv
42	Wah Clavi	WahClv
43	Pulse Clavi	PluseClv
44	Dream EP	DreamEP
45	Tremolo EP	TremoEP
46	Funk EP	FunkEP
47	Warm EP	WarmEP
48	Choir EP	ChoriEP
49	Wah EP	WahEP

NO.	English Name	LCD Name
50	Modern EP	ModernEP
51	EP Pad	EPPad
Chromatic Percussion		
52	Celesta	Celesta
53	Celesta 2	Celesta2
54	Celesta 3	Celesta3
55	Glockenspiel	Glocken
56	Glockenspiel 2	Glocken2
57	Glockenspiel 3	Glocken3
58	Music Box	MusicBox
59	Music Box 2	MuscBox2
60	Music Box 3	MuscBox3
61	Vibraphone	Vibra
62	Vibraphone 2	Vibra2
63	Vibraphone (wide)	VibraW
64	Marimba	Marimba
65	Marimba 2	Marimba2
66	Marimba (wide)	MarimbaW
67	Xylophone	Xylophon
68	Xylophone 2	Xylopho2
69	Xylophone 3	Xylopho3
70	Tubular Bells	TubulBel
71	Tubular Bells 2	TubulBe2
72	Church Bell	ChurBell
73	Carillon	Carillon
74	Dulcimer	Dulcimer
75	Dulcimer 2	Dulcime2
76	Santur	Santur
Organ		
77	Italian 60's Organ	60'sOrgn
78	Drawbar Organ	DrawOrgn
79	Drawbar Organ 2	DrawOrg2
80	Detuned Drawbar Organ	DeDraOrg
81	Drawbar Organ 3	DrawOrg3
82	Detuned Percussive Organ	DePerOrg
83	Percussive Organ	PercOrgn

NO.	English Name	LCD Name
84	Percussive Organ 2	PercOrg2
85	70's Percussive Organ	70'sPcOr
86	Percussive Organ 3	PercOrg3
87	Rock Organ	RockOrgn
88	Rock Organ 2	RockOrg2
89	Rock Organ 3	RockOrg3
90	Church Organ	ChurOrgn
91	Church Organ 2	ChurOrg2
92	Church Organ 3	ChurOrg3
93	Church Organ (octave mix)	ChurOrgO
94	Detuned Church Organ	DeChuOrg
95	Reed Organ	ReedOrgn
96	Reed Organ 2	ReedOrg2
97	Rotary Organ	RotyOrgn
98	Puff Organ	PuffOrgn
99	Accordion	Acordion
100	Accordion 2	Acordin2
101	Accordion 3	Acordin3
102	Harmonica	Harmnica
103	Harmonica 2	Harmnic2
104	Harmonica 3	Harmnic3
105	Tango Accordion	TangoAcd
106	Tango Accordion 2	TangAcd2
Guitar		
107	Acoustic Guitar (nylon)	NylonGtr
108	Acoustic Guitar (nylon) 2	NylonGt2
109	Acoustic Guitar (nylon) 3	NylonGt3
110	Acoustic Guitar (nylon + key off)	NylGtrOf
111	Ukulele	Ukulele
112	Acoustic Guitar (steel)	SteelGtr

NO.	English Name	LCD Name
113	Acoustic Guitar (steel) 2	SteelGt2
114	12-Strings Guitar	12StrGtr
115	Mandolin	Mandolin
116	Mandolin 2	Mandoli2
117	Steel Guitar with Body Sound	SteelBdy
118	Electric Guitar (jazz)	JazzGtr
119	Electric Guitar (jazz) 2	JazzGtr2
120	Electric Guitar (pedal steel)	PedalGtr
121	Electric Guitar (clean)	CleanGtr
122	Electric Guitar (clean) 2	CleanGt2
123	Electric Guitar (detuned clean)	DetClnGt
124	Mid Tone Guitar	MidTonGt
125	Electric Guitar (muted)	MutedGtr
126	Electric Guitar (muted) 2	MutedGt2
127	Electric Guitar (funky cutting)	FunkGt
128	Electric Guitar (muted velo-sw)	MutVelGt
129	Jazz Man	JazzMan
130	Overdriven Guitar	Ovrdrive
131	Overdriven Guitar 2	Ovrdriv2
132	Guitar Pinch	GtPinch
133	Distortion Guitar	DistGtr
134	Distortion Guitar 2	DistGtr2
135	Distortion Guitar (with feedback)	FeedbkGt
136	Guitar Feedback	GtrFedbk
137	Distorted Rhythm Guitar	DistRyth

NO.	English Name	LCD Name
138	Guitar Harmonics	GtrHarmo
139	Guitar Harmonics 2	GtHarmo2
140	Velocity Nylon Guitar	NylnGtVe
Bass		
141	Acoustic Bass	AcoBass
142	Acoustic Bass 2	AcoBass2
143	Wah Bass	WahBass
144	Electric Bass (finger)	FngrBass
145	Finger Slap Bass	FngrSlap
146	Electric Bass (pick)	PickBass
147	Electric Bass (pick) 2	PickBas2
148	Fretless Bass	Fretless
149	Fretless Bass 2	Fretles2
150	Slap Bass	SlapBass
151	Slap Bass 2	SlapBas2
152	Slap Bass 3	SlapBas3
153	Slap Bass 4	SlapBas4
154	Synth Bass	SynBass
155	Synth Bass 2	SynBass2
156	Synth Bass 3	SynBass3
157	Synth Bass 4	SynBass4
158	Warm Synth Bass	WarmBass
159	Rsonance SynBass	ResoBass
160	Clavi Bass	ClavBass
161	Hammer	Hammer
162	Attack Bass	AtackBas
163	Synth Bass (rubber)	RubbBass
164	Synth Bass (rubber) 2	RubbBas2
165	Attack Pulse	AtackPls
Strings & Orchestral		
166	Violin	Violin
167	Violin 2	Violin2
168	Violin (slow attack)	SlViolin

NO.	English Name	LCD Name	NO.	English Name	LCD Name
169	Viola	Viola	206	Orchestra Hit 2	OrchHit2
170	Viola 2	Viola2	207	Bass Hit Plus	BassHit
171	Cello	Cello	208	6th Hit	6thHit
172	Cello 2	Cello2	209	Euro Hit	EuroHit
173	Contrabass	Contrabs	**Brass**		
174	Contrabass 2	Contrbs2	210	Trumpet	Trumpet
175	Tremolo Strings	TremStr	211	Trumpet 2	Trumpet2
176	Tremolo Strings 2	TremStr2	212	Dark Trumpet	DarkTrp
177	Tremolo Strings 3	TremStr3	213	Trombone	Trombone
178	Pizzicato Strings	PizzStr	214	Trombone 2	Trmbone2
179	Pizzicato Strings 2	PizzStr2	215	Trombone 3	Trmbone3
180	Orchestral Harp	Harp	216	Bright Trombone	BritBone
181	Orchestral Harp 2	Harp2	217	Tuba	Tuba
182	Yang Chin	YangChin	218	Tuba 2	Tuba2
183	Timpani	Timpani	219	Muted Trumpet	MuteTrp
184	Timpani 2	Timpani2	220	Muted Trumpet 2	MuteTrp2
185	String Ensembles	Strings	221	Muted Trumpet 3	MuteTrp3
186	String Ensembles 2	Strings2	222	French Horn	FrHorn
187	String Ensembles 3	Strings3	223	French Horn 2	FrHorn2
188	String Ensembles 4	Strings4	224	French Horn 3	FrHorn3
189	Strings & Brass	Str&Bras	225	Brass Section	Brass
190	60's Strings	60'sStr	226	Brass Section 2	Brass2
191	Synth Strings	SynStrs	227	Brass Section 3	Brass3
192	Synth Strings 2	SynStrs2	228	Synth Brass	SynBrass
193	Synth Strings 3	SynStrs3	229	Synth Brass 2	SynBras2
194	Synth Strings 4	SynStrs4	230	Synth Brass 3	SynBras3
195	Synth Strings 5	SynStrs5	231	Synth Brass 4	SynBras4
196	Choir Aahs	ChoirAah	232	Synth Brass 5	SynBras5
197	Choir Aahs 2	ChorAah2	233	Synth Brass 6	SynBras6
198	Choir Aahs 3	ChorAah3	234	Synth Brass 7	SynBras7
199	Voice Oohs	VoiceOoh	235	Synth Brass 8	SynBras8
200	Voice Oohs 2	VoicOoh2	236	Analog Synth Brass	AnaBrass
201	Humming	Humming	237	Analog Synth Brass 2	AnaBras2
202	Anlong Voice	AnlVoice	238	Analog Synth Brass 3	AnaBras3
203	Synth Voice	SynVoice	239	Jump Brass	JumpBras
204	Synth Voice 2	SynVoic2	240	Jump Brass 2	JumpBrs2
205	Orchestra Hit	OrchHit			

NO.	English Name	LCD Name
241	Funny	Funny
242	Funny 2	Funny2
243	French Horn	FrHorn
Reed		
244	Soprano Sax	SprnoSax
245	Soprano Sax 2	SprnSax2
246	Soprano Sax 3	SprnSax3
247	Alto Sax	AltoSax
248	Alto Sax 2	AltoSax2
249	Alto Sax 3	AltoSax3
250	Tenor Sax	TenorSax
251	Tenor Sax 2	TenoSax2
252	Tenor Sax 3	TenoSax3
253	Baritone Sax	BariSax
254	Baritone Sax 2	BariSax2
255	Baritone Sax 3	BariSax3
256	Oboe	Oboe
257	Oboe 2	Oboe2
258	Oboe 3	Oboe3
259	2 Oboes	2Oboes
260	English Horn	EngHorn
261	English Horn 2	EngHorn2
262	English Horn 3	EngHorn3
263	2 English Horns	2EngHons
264	Bassoon	Bassoon
265	Bassoon 2	Bassoon2
266	Bassoon 3	Bassoon3
267	2 Bassoons	2Basoons
268	Clarinet	Clarinet
269	Clarinet 2	Clarine2
270	Clarinet 3	Clarine3
271	2 Clarinets	2Clarins
Pipe		
272	Piccolo	Piccolo
273	Piccolo 2	Piccolo2
274	Piccolo 3	Piccolo3
275	2 Piccolos	2Picolos

NO.	English Name	LCD Name
276	Sweet Flute	SweeFlut
277	Flute	Flute
278	Flute 2	Flute2
279	Flute 3	Flute3
280	2 Flutes	2Flutes
281	Recorder	Recorder
282	Recorder 2	Recorde2
283	2 Recorders	2Records
284	Pan Flute	PanFlute
285	Pan Flute 2	PanFlut2
286	Sweet Pan Flute	SwPanFlu
287	Blown Bottle	Bottle
288	Blown Bottle 2	Bottle2
289	Shakuhachi	Shakhchi
290	Shakuhachi 2	Shakhch2
291	Whistle	Whistle
292	Whistle 2	Whistle2
293	Ocarina	Ocarina
294	Ocarina 2	Ocarina2
Synth Lead		
295	Lead 1 (square)	SquareLd
296	Lead 1a (square) 2	SquarLd2
297	Lead 1 (square) 3	SquarLd3
298	Lead 1b (sine)	SineLead
299	Lead 2 (sawtooth)	SawLead
300	Lead 2a (sawtooth) 2	SawLead2
301	Lead 2 (sawtooth) 3	SawLead3
302	Lead 2b (saw + pulse)	SawPlsLd
303	Lead 2c (double sawtooth)	DubSawLd
304	Lead 2d (sequenced analog)	SquAnaLd
305	Lead 2d (sequenced analog) 2	SqAnaLd2

NO.	English Name	LCD Name
306	Wavy Sawtooth	WavySaw
307	Bauble Lead	BaubleLd
308	Super Analog	SuperAna
309	Lead 3 (calliope)	CaliopLd
310	Lead 3 (calliope) 2	CalipLd2
311	Lead 4 (chiff)	ChiffLd
312	Lead 4 (chiff) 2	ChiffLd2
313	Lead 4 (chiff) 3	ChiffLd3
314	Lead 4 (chiff) 4	ChiffLd4
315	Lead 5 (charang)	CharanLd
316	Lead 5 (charang) 2	CharaLd2
317	Lead 5 (charang) 3	CharaLd3
318	Lead 5 (charang) 4	CharaLd4
319	Lead 5a (wire lead)	WireLead
320	Lead 5a (wire lead) 2	WireLd2
321	Lead 6 (voice)	VoiceLd
322	Lead 6 (voice) 2	VoiceLd2
323	Lead 7 (fifths)	FifthsLd
324	Lead 7 (fifths) 2	FifthLd2
325	Lead 8 (bass + lead)	BassLead
326	Lead 8 (bass + lead) 2	BasLead2
327	Lead 8 (bass + lead) 3	BasLead3
328	Lead 8a (soft wrl)	SftWrlLd
329	Massiness	Massin
330	Square	Square
331	Slow Square Lead	SlwSquLd
332	Sine Solo	SineSolo
333	Square Lead 4	SquarLd4
334	Thick Square	ThickSqu
335	2Oscillators Lead	2OscLd
336	Wavy Sawtooth 2	WavySaw2
337	Analog Lead	AnaLead
338	Big Lead	BigLead
339	Fat Lead	FatLead
340	PWM 4th	Rezz4th

NO.	English Name	LCD Name
341	Delayed Lead	DelyLead
342	Delayed Lead 2	DlyLead2
343	Fifth Lead	FifLead
344	Corrie	Corrie
345	Quint	Quint
Synth Pad		
346	Pad 1 (new age)	NewAge
347	Pad 1 (new age) 2	NewAge2
348	Pad 1 (new age) 3	NewAge3
349	Pad 1 (new age) 4	NewAge4
350	Pad 2 (warm)	WarmPad
351	Pad 2 (warm) 2	WarmPad2
352	Pad 2 (warm)3	WarmPad3
353	Pad 2a (sine pad)	SinePad
354	Pad 3 (polysynth)	PolySyn
355	Pad 3 (polysynth) 2	PolySyn2
356	Pad 3 (polysynth) 3	PolySyn3
357	Pad 3 (polysynth) 4	PolySyn4
358	Pad 4 (choir)	ChoirPad
359	Pad 4 (choir) 2	ChoirPd2
360	Pad 4a (itopia)	ItopiaPd
361	Pad 5 (bowed)	BowedPad
362	Pad 5 (bowed) 2	BowedPd2
363	Pad 5 (bowed) 3	BowedPd3
364	Pad 5 (bowed) 4	BowedPd4
365	Pad 6 (metallic)	MetalPad
366	Pad 6 (metallic) 2	MetalPd2
367	Pad 6 (metallic) 3	MetalPd3
368	Pad 7 (halo)	HaloPad
369	Pad 7 (halo) 2	HaloPad2
370	Pad 7 (halo) 3	HaloPad3
371	Pad 7 (halo) 4	HaloPad4
372	Pad 8 (sweep)	SweepPad
373	Pad 8 (sweep) 2	SweepPd2
374	Pad 8 (sweep) 3	SweepPd3
375	Pan Pad	PanPad
376	Pan Pad 2	PanPad2

NO.	English Name	LCD Name	NO.	English Name	LCD Name
377	Dipolar Pad	DipolPad	412	Choir Bell	ChorBell
378	PWM Pad	PWMPad	413	Choir Bell 2	ChorBel2
379	Warmly Pad	WarmlyPd	414	FX 7 (echoes)	Echoes
380	Horn Pad	HornPad	415	FX 7 (echoes) 2	Echoes2
381	Click Pad	ClickPad	416	FX 7 (echoes) 3	Echoes3
382	Analog Pad	AnalogPd	417	FX 7b (echo pan)	EchoPan
383	80's Poly Pad	80'sPoly	418	FX 7a (echo bell)	EchoBell
384	PWM 4th Soft	PWM4thSf	419	FX 7a (echo bell) 2	EchoBel2
385	Synth Calliope Soft	SynCalSf	420	FX 7a (echo bell) 3	EchoBel3
386	Soft Vox	SoftVox	421	FX 8 (sci-fi)	Sci-Fi
387	5th SawWave	5thSaw	422	FX 8 (sci-fi) 2	Sci-Fi2
388	5th Lead Soft	5thLdSf	423	FX 8 (sci-fi) 3	Sci-Fi3
389	Slow Square	SlSquare	**Ethnic Misc.**		
390	New Year Pad	NewYear	424	Sitar	Sitar
391	Space Voice	SpcVoice	425	Sitar 2	Sitar2
392	Rising	Rising	426	Sitar 3	Sitar3
393	Congregate	Congrega	427	Banjo	Banjo
Synth SFX			428	Banjo 2	Banjo2
394	FX 1 (rain)	FXRain	429	Banjo 3	Banjo3
395	FX 1 (rain) 2	FXRain2	430	Shamisen	Shamisen
396	FX 2 (soundtrack)	Soundtrk	431	Shamisen 2	Shamise2
397	FX 2 (soundtrack) 2	Sondtrk2	432	Shamisen 3	Shamise3
398	Prelude	Prelude	433	Koto	Koto
399	FX 3 (crystal)	Crystal	434	Koto 2	Koto2
400	FX 3 (crystal) 2	Crystal2	435	Taisho Koto	TaishoKt
401	FX 3 (crystal) 3	Crystal3	436	Kalimba	Kalimba
402	FX 3a (synth mallet)	SynMalet	437	Kalimba 2	Kalimba2
403	FX 4 (atmosphere)	Atmosphr	438	Kalimba 3	Kalimba3
404	FX 4 (atmosphere) 2	Atmosph2	439	Bag Pipe	BagPipe
405	Warm Air	WarmAir	440	Bag Pipe 2	BagPipe2
406	FX 5 (brightness)	Bright	441	Bag Pipe 3	BagPipe3
407	FX 5 (brightness) 2	Bright2	442	Fiddle	Fiddle
408	Smog	Smog	443	Fiddle 2	Fiddle2
409	FX 6 (goblins)	Goblins	444	Fiddle 3	Fiddle3
410	FX 6 (goblins) 2	Goblins2	445	Shanai	Shanai
411	FX 6 (goblins) 3	Goblins3	446	Shanai 2	Shanai2
			447	Shanai 3	Shanai3

NO.	English Name	LCD Name
Percussive		
448	Tinkle Bell	TnklBell
449	Tinkle Bell 2	TnklBel2
450	Tinkle Bell 3	TnklBel3
451	Agogo	Agogo
452	Agogo 2	Agogo2
453	Agogo 3	Agogo3
454	Steel Drums	SteelDrm
455	Steel Drums 2	StelDrm2
456	Steel Drums 3	StelDrm3
457	Woodblock	WoodBlok
458	Woodblock 2	WodBlok2
459	Woodblock 3	WodBlok3
460	Castanets	Castanet
461	Castanets 2	Castant2
462	Taiko Drum	TaikoDrm
463	Taiko Drum 2	TaikDrm2
464	Taiko Drum 3	TaikDrm3
465	Concert Bass Drum	ConBasDm
466	Concert Bass Drum 2	ConBsDm2
467	Acoustic Bass Drum	BassDrum
468	Room Kick	RoomKick
469	Power Kick	PowrKick
470	Electric Bass Drum	ElBsDrum
471	Analog Bass Drum	AnBsDrum
472	Jazz Kick	JazzKick
473	Side Stick	SidStick
474	Analog Rim Shot	AnRiShot
475	Acoustic Snare	A.Snare
476	Room Snare	RomSnare
477	Power Snare	PowSnare
478	Electric Snare	E.Snare
479	Analog Snare	AnaSnare
480	Jazz Snare	JazSnare
481	Brush Tap	BrushTap
482	Concert SD	ConcetSD

NO.	English Name	LCD Name
483	Hand Clap	HandClap
484	Tom	Tom
485	Room Tom	RoomTom
486	Power Tom	PowerTom
487	Electric Tom	ElecTom
488	Analog Tom	AnaTom
489	Brush Tom	BrushTom
490	Closed Hi-hat	ClosedHH
491	Analog Closed Hi-hat	AnCloHH
492	Pedal Hi-hat	PedalHH
493	Open Hi-hat	OpenHH
494	Crash Cymbal	CrashCym
495	Analog Cymbal	AnaCym
496	Ride Cymbal	RideCym
497	China Cymbal	ChinaCym
498	Ride Bell	RideBell
499	Tambourine	Tambouri
500	Splash Cymbal	SplashCy
501	Cowbell	Cowbell
502	Analog Cowbell	AnaCowbl
503	High Bongo	HiBongo
504	Low Bongo	LoBongo
505	Mute Hi Conga	MuHiCnga
506	Open Hi Conga	OpHiCnga
507	Low Conga	LowConga
508	Analog Hi Conga	AnHiCnga
509	Analog Mid Conga	AnMiCnga
510	Analog Low Conga	AnLoCnga
511	High Timbale	HiTimbal
512	Low Timbale	LoTimbal
513	Cabasa	Cabasa
514	Maracas	Maracas
515	Analog Maracas	AnMaraca
516	Short Guiro	ShGuiro
517	Long Guiro	LoGuiro
518	Claves	Claves

NO.	English Name	LCD Name	NO.	English Name	LCD Name
519	Mute Cuica	MuCuica	552	Bubble	Bubble
520	Open Cuica	OpCuica	553	Bird Tweet	Tweet
521	Mute Triangle	MuTrgle	554	Bird Tweet 2	Tweet2
522	Open Triangle	OpTrgle	555	Dog	Dog
523	Shaker	Shaker	556	Horse Gallop	HouseGlp
524	Mute Surdo	MuSurdo	557	Telephone Ring	Telphone
525	Open Surdo	OpSurdo	558	Telephone Ring 2	Telphon2
526	Melodic Tom	MeloTom	559	Door Creaking	DoorCrek
527	Melodic Tom 2	MeloTom2	560	Door	Door
528	Melodic Tom 3	MeloTom3	561	Scratch	Scratch
529	Synth Drum	SynDrum	562	Wind Chime	WindChim
530	Synth Drum 2	SynDrum2	563	Helicopter	Helicptr
531	Rhythm Box Tom	RhythBox	564	Car Engine	CarEngin
532	Electric Drum	ElecDrum	565	Car Stop	CarStop
533	Electric Drum 2	EleDrum2	566	Car Pass	CarPass
534	Reverse Cymbal	RevCymbl	567	Car Crash	CarCrash
535	Reverse Cymbal 2	RevCymb2	568	Siren	Siren
SFX			569	Train	Train
536	Guitar Fret Noise	FretNoiz	570	Jetplane	Jetplane
537	Guitar Fret Noise 2	FreNoiz2	571	Starship	Starship
538	Guitar Cutting Noise	GtCtNoiz	572	Burst Noise	BurtNois
539	Guitar Cutting Noise 2	GtCtNoz2	573	Applause	Applause
540	Acoustic Bass String Slap	BsStSlap	574	Laughing	Laughing
541	Acoustic Bass String Slap 2	BsStSlp2	575	Screaming	Scream
542	Breath Noise	BrthNoiz	576	Punch	Punch
543	Breath Noise 2	BrthNoz2	577	Heart Beat	HeartBet
544	Flute Key Click	FlKeyClk	578	Footsteps	Footstep
545	Flute Key Click 2	FlKeyCk2	579	Gunshot	Gunshot
546	Seashore	Seashore	580	Machine Gun	MachnGun
547	Seashore 2	Seashor2	581	Lasergun	Lasergun
548	Rain	Rain	582	Explosion	Explosio
549	Thunder	Thunder	**Combined Voice**		
550	Wind	Wind	583	Stereo Piano & Strings Pad	Pn&StrPd
551	Stream	Stream	584	Stereo Piano & Choir	Pn&Choir
			585	Stereo Piano & Synth Strings	Pn&SyStr

NO.	English Name	LCD Name
586	Stereo Piano & Warm Pad	Pn&WrmPd
587	Stereo Piano & Soft EP	Pn&SfEP
588	FM Electric Piano	FMEP
589	Digital Piano	DigitlPn
590	E.Piano & Strings	EP&Str
591	E.Piano & Acoustic Guitar	EP&Gtr
592	E.Piano & Vibraphone	EP&Vibra
593	E.Piano 2 & Pad	EP2&Pad
594	E.Piano 2 & Strings	EP2&Str
595	Harpsichord & Stereo Strings	Hrps&Str
596	Music Box & Stereo Strings	MBox&Str
597	Vibraphone & Stereo Strings	Vib&Str
598	Vibraphone Octave	VibraOct
599	Vibraphone & Marimba & Kalimba	Vib&M&K
600	Marimba & Kalimba	Mar&Kal
601	Marimba Delay	MarDelay
602	Xylophone Octave	XylopOct
603	Organ & Stereo Strings	Orgn&Str
604	Stereo Organ & Piano	Orgn&Pno
605	Rock Organ & Strings	RkOr&Str
606	Church Organ & Choir	ChOr&Cho
607	Church Organ & Strings	ChOr&Str
608	Acoustic Guitar & Flute	Gtr&Flut

NO.	English Name	LCD Name
609	Acoustic Guitar & Clavi	Gtr&Clav
610	24 String Guitar	24StrGtr
611	Steel Guitar & Warm Pad	StGt&Pad
612	Stereo Strings & Horn	Str&Horn
613	Orchestra	Orchestr
614	Full Strings	FullStr
615	Full Strings 2	FullStr2
616	Symphonic	Symphon
617	Stereo Choir & Strings	Cho&Str
618	Stereo Choir & Steel Guitar	Cho&Gtr
619	3 Trumpet Loose	3Trumpet
620	Trombone & Stereo Strings	Tomb&Str
621	3 Trombones Loose	3Trmbone
622	3 Muted Trumpets Loose	3MuTrump
623	Club Brass	ClubBras
624	Brass & Woodwinds	Brs&Wood
Drums		
625	Standard Set	StandSet
626	Room Set	RoomSet
627	Power Set	PowerSet
628	Electronic Set	ElectSet
629	Analog Set	AnalgSet
630	Jazz Set	JazzSet
631	Brush Set	BrushSet
632	Orchestra Set	OrcheSet
633	SFX Set	SFXSet

27. Style List

NO.	English Name	LCD Name
8BEAT		
1	8Beat Ballad	8BtBld
2	8Beat Piano	8BtPiano
3	8Beat 1	8Beat1
4	Guitar Pop 1	GtPop1
5	8Beat Hip Hop	8BtHiHop
6	8Beat Blues Rock	8BtBluRk
7	8Beat Pop	8BtPop
8	Pop Funk 1	PopFunk1
9	Rhythm&Beat 1	Rhy&Bt1
10	8Beat Disco 1	8BtDisc1
11	8Beat Rock	8BtRock
12	Guitar Pop 2	GtPop2
13	8Beat 2	8Beat2
14	Sweet Beat	SweetBt
15	8Beat Dance	8BtDance
16	8Beat Disco 2	8BtDisc2
17	Pop Funk 2	PopFunk2
18	8Beat 3	8Beat3
19	60's 8Beat	60's8Bt
20	Rhythm&Beat 2	Rhy&Bt2
16BEAT		
21	16Beat 1	16Beat1
22	16Beat Funk 1	16BtFuk1
23	16Beat Ballad 1	16BtBld1
24	16Beat R&B	16BtR&B
25	Pop 16Beat 1	Pop16Bt1
26	16Beat Funk 2	16BtFuk2
27	16Beat Dance	16BtDanc
28	Pop 16Beat 2	Pop16Bt2
29	16Beat 2	16Beat2
30	Pop 16Beat 3	Pop16Bt3
31	16Beat Ballad 2	16BtBld2
32	16Beat 4	16Beat4
33	Pop Shuffle	PopShfl

NO.	English Name	LCD Name
POP&BALLAD		
34	Pop Rock 1	PopRock1
35	Pop Dance 1	PopDanc1
36	Pop Fusion	PopFusn
37	Analog Night 1	AnalgNt1
38	6/8 Pop	6/8Pop
39	Brit. Pop 1	BritPop1
40	Brit. Pop 2	BritPop2
41	Pop Hit	PopHit
42	Fusion Shuffle	FusShufl
43	Analog Night 2	AnalgNt2
44	Guitar Pop 3	GtPop3
45	Pop Beat	PopBeat
46	Soft Beat	SoftBeat
47	60's Pop	60'sPop
48	Sting Latin	StigLatn
49	R&B Ballad 1	R&BBld1
50	Guitar Ballad	GtBallad
51	Ballad Rock	BaldRock
52	Piano Pop	PianoPop
53	Soft Ballad	SoftBald
54	Natural Ballad	NatulBld
55	Love Ballad	LoveBald
56	Easy Ballad	EasyBald
57	Miami Folk	MiamiBld
58	Slow Ballad	SlowBald
59	Folk Ballad	FolkBald
60	Pop Ballad 1	PopBald1
61	Pop Ballad 2	PopBald2
62	EP Ballad	EPBallad
63	New R&B Ballad	NewRBBld
ROCK		
64	Rock	Rock
65	New Wave	NewWave
66	Ska	Ska

NO.	English Name	LCD Name
67	Pop Rock 2	PopRock2
68	Slow Rock	SlowRock
69	70's Rock&Roll	70'sRock
70	Folk Rock	FolkRock
71	Soft Rock	SoftRock
72	Old Rock	OldRock
73	Easy Rock	EasyRock
74	New Shuffle	NewShufl
75	Rock Hip Hop	RkHipHop
76	Rock&Roll 1	R'N'R1
77	Rock Shuffle	RockShfl
78	Rock&Roll 2	R'N'R2
BALLROOM		
79	Tango 1	Tango1
80	Spain Matador	Matador
81	Slow Waltz 1	SlowWlz1
82	Swing Fox	SwingFox
83	Salsa 1	Salsa1
84	Cha Cha 1	ChaCha1
85	Cha Cha 2	ChaCha2
86	Beguine 1	Beguine1
87	Beguine 2	Beguine2
88	Rumba 1	Rumba1
89	Samba 1	Samba1
90	Samba 2	Samba2
91	Jive	Jive
92	Fox Trot	FoxTrot
DANCE		
93	Techno 1	Techno1
94	Hip Hop 1	HipHop1
95	House 1	House1
96	House 2	House2
97	Pop Dance 2	PopDanc2
98	Down Beat	DownBeat
99	Techno 2	Techno2
100	Progressive	Progress
101	Rap 1	Rap1
102	Rap 2	Rap2

NO.	English Name	LCD Name
103	Disco	Disco
104	Soft Disco	SoftDisc
105	Disco Party	DscParty
106	70's Disco	70'sDisc
107	70's Disco Funk	70'sFunk
108	Club Dance	ClubDanc
109	Euro Dance	EuroDanc
110	Hip Hop 2	HipHop2
111	Garage	Garage
SOUL & FUNK		
112	Funk 1	Funk1
113	Classic Funk	ClasFunk
114	Jay R&B	JayR&B
115	Gospel Swing	GopSwing
116	Gospel	Gospel
117	Hip Hop Soul	HipHopSl
118	Hip Hop Beat	HipHopBt
119	R&B	R&B
120	Soul Beat	SoulBeat
121	R&B Ballad 2	R&BBld2
122	British Soul Pop	BritSoul
SWING & JAZZ		
123	Latin Jazz 1	LatinJz1
124	Big Band 1	BigBand1
125	Dixieland 1	Dixland1
126	Guitar Swing 1	GtSwing1
127	Broadway Big Band	BwayBand
128	Swing	Swing
129	Latin Jazz 2	LatinJz2
130	Fusion	Fusion
131	Acid Jazz	AcidJazz
132	Cool Jazz Ballad	CoolJzBd
133	Swing Shuffle	SwingSfl
134	Big Band Medium	BandMid
135	Dixieland 2	Dixland2
136	Acoustic Jazz	AcoustJz
137	Guitar Swing 2	GtSwing2

NO.	English Name	LCD Name		NO.	English Name	LCD Name
138	Ragtime	Ragtime		**WALTZ & TRADITIONAL**		
139	Modern Jazz Ballad	MdJzBald		172	Waltz	Waltz
140	Swing Ballad	SwingBal		173	Old Waltz	OldWaltz
141	Orchestra Swing	OrhSwing		174	English Waltz	EngWaltz
COUNTRY				175	German Waltz	GemWaltz
142	Country Pop 1	CntyPop1		176	Italian Mazurka	ItaMazuk
143	Bluegrass 1	Blugras1		177	Mexico Waltz	MexWaltz
144	8Beat Country	8BtCnty		178	Vienna Waltz	VinaWltz
145	Modern Country	ModrCnty		179	Slow Waltz 2	SlwWltz2
146	Country Pop 2	CntyPop2		180	Jazz Waltz	JazzWltz
147	Bluegrass 2	Blugras2		181	Polka	Polka
148	2/4 Country	2/4Cntry		182	6/8 March	6/8March
149	Country Quick Steps	QuickStp		183	German Polka	GemPolka
				184	Party Polka	PtyPolka
150	Country Folk	CntyFolk		185	Army March	ArmMarch
151	Country Shuffle	CnyShufl		186	March	March
LATIN & LATIN DANCE				187	US March	USMarch
152	Samba 3	Samba3		188	Musette	Musette
153	Bossa Nova	BosaNova		189	French Musette	FMusette
154	Latin	Latin		190	Mazurka	Mazurka
155	New Reggae	NewRegga		**WORLD**		
156	Reggae Dance	DanRegga		191	Enka Ballad	EnkaBald
157	Paso Doble	Pasodobl		192	Laendler	Laendler
158	Lite Bossa	LteBossa		193	Hawaiian	Hawaiian
159	Latin Rock	LatinRck		194	Sirtake	Sirtake
160	Beguine 3	Beguine3		195	Dangdut	Dangdut
161	Slow Bolero	SlBolero		196	6/8 Flipper	6/8Flipp
162	Disco Samba	DscSamba		197	New Age	NewAge
163	Mambo	Mambo		198	Tarantella	Tarantel
164	Meneito	Meneito		199	Scottish	Scottish
165	Rumba 2	Rumba2		200	Norteno	Norteno
166	Rumba 3	Rumba3		**PIANIST**		
167	Tikitikita	Tikitkta		201	Pianist 1	Pianist1
168	Lambada	Lambada		202	Pianist 2	Pianist2
169	Pop Cha Cha 1	PChaCha1		203	Pianist 3	Pianist3
170	Pop Cha Cha 2	PChaCha2		204	Jazz 1	Jazz1
171	Salsa 2	Salsa2		205	Jazz 2	Jazz2

NO.	English Name	LCD Name	NO.	English Name	LCD Name
206	Jazz Pub	JazzPub	214	Pop Waltz	PopWaltz
207	Piano Rock	PianoRk	215	Slow Waltz	SlowWltz
208	Pop Bossa	PopBossa	216	Ballad 1	Ballad1
209	March 1	March1	217	Ballad 2	Ballad2
210	March 2	March2	218	6/8 Ballad	6/8Bald
211	Piano Beat	PianoBt	219	Pop 1	Pop1
212	Piano Bar	PianoBar	220	Pop 2	Pop2
213	Blues	Blues			

28. Song List

No.	English Name	LCD Name
FOLK & COUNTRY		
1	Toccata	Toccata
2	Carry Me Back To Old Virginny	Virginny
3	El Condor Pasa	ElCondor
4	Five Hundred Miles	500Miles
5	Green Grass Of Home	GreenGrs
6	Greensleeves	Sleeves
7	Home Sweet Home	SwetHome
8	La Mer	LaMer
9	Long Long Ago	LongAgo
10	Massachusetts	Maschuse
11	Moon River	MoonRivr
12	My Darling Clementine	Clemtine
13	Never On Sunday	NeverSun
14	Oh! Carol	Oh!Carol
15	Oh! Susanna	Susanna
16	Turkey in the straw	TukyStaw
17	The Girl From Ipanema	Ipanema
18	Tombe La Neige	LaNeige
19	You Are My Sunshine	Sunshine
20	My old kentucky home	Kentucky
21	Home on the range	HomeRnge
22	Her bright smile haunts me still	HerSmile
23	The blue-bells of scotland	BlueBell

No.	English Name	LCD Name
24	Old black joe	BlackJoe
25	Old dog tray	DogTray
26	Moulin rouge	MoulinRg
GOLDEN & POP		
27	A Whiter Shade Of Pale	WhtShade
28	Again	Again
29	Mambo No. 5	MamboNo5
30	Are You Lonesome Tonight?	Lonesome
31	Around The World	AroWorld
32	Auld Lang Syne	LangSyne
33	Ave Maria	AveMaria
34	Beyond The Reef	BeyndRef
35	Blue Tango	BluTango
36	Brazil	Brazil
37	Bridal March	Bridal
38	Can'T Help Fallin' In Love	InLove
39	Chanson Du Toreador	Toreador
40	Danny Boy	DannyBoy
41	Do Re Mi	DoReMi
42	Ebb Tide	EbbTide
43	Fly Me To The Moon	FlyMoon
44	Happy Birthday To You	Birthday
45	Hey Jude	HeyJude
46	How Deep Is Your Love	DeepLove
47	If	If
48	In The Mood	InMood
49	Jingle Bells	JingBell
50	Joy To The World	JoyWorld
51	La Paloma	LaPaloma
52	La Playa	LaPlaya
53	La Reine De Saba	Saba
54	Lara'S Theme From "Doctor Zhivago"	Zhivago
55	Always In My Heart	MyHeart
56	Mambo No. 8	MamboNo8
57	Misty	Misty
58	My Way	MyWay
59	Annie Laurie	AnnieLa

No.	English Name	LCD Name
60	One Way Ticket To The Blues	OWTickts
61	Only You	OnlyYou
62	Petite Fleur	Fleur
63	Red River Valley	RedRiver
64	Rhythm Of The Rain	RhymRain
65	Rock Around The Clock	Rock
66	Sail Along Silv'ry Moon	SilyMoon
67	Sealed With A Kiss	Sealed
68	Siboney	Siboney
69	Silent Night	SltNight
70	Speak Softly Love	SoftLove
71	Summertime	Summer
72	Superstar	Superstr
73	Sweet And Gentle	SwetGtle
74	Tennessee Waltz	Tennesse
75	The End Of The World	EndWorld
76	The Sound Of Silence	Silence
77	The Way We Were	TheWay
78	Top Of The World	TopWorld
79	Una Lacrima Sul Viso	Lacrima
80	Unchained Melody	Melody
81	Love Story	LoveStry
82	Words	Words
83	Yesterday	Yestday
84	Yesterday Once More	OnceMore
CLASSICAL		
85	13 Jours En France	13France
86	A Lover'S Concerto	Concerto
87	Air For The G-String	G-String
88	An Der Shonen Blauen Donau	Donau
89	Auf Flugeln Des Gesanges	Gesanges
90	Beautiful Dreamer	Dreamer
91	Dance Des Mirlitons	Mirliton
92	Etude Op. 10 No. 3	Etude3
93	Gavotte	Gavotte
94	Hungarian Dances No. 5	Hungaian
95	Whispering hope	Whisper

No.	English Name	LCD Name
96	From The New World	NewWorld
97	Serenata Rimpiant	Serenata
98	Sleepy Lagoon	Lagoon
99	The Skaters Waltze	Skaters
100	O Sole Mio	OSoleMio
101	Waves Of The Danube	Danube
102	Jeanie with the light brown hair	Jeanie
103	Santa Lucia	SantaLuc
104	Solveig's Song	Solveig
105	Piano Sonatan No. 8 In C Minor (Pathetique)	Patheque
106	Brahms Waltz	BrmsWltz
107	Aida	Aida
108	Carmen-Prelude	Carmen
109	L'Arlesienne	L'Arlesi
110	Uungarische Tanz	Uungaris
111	Mazurka	Mazurka
112	Pizzicato Polka	Polka
113	Menuett	Menuett
114	Rigoletto	Rigoleto
115	Serenade	Serenade
116	Song Without Words	SongNoWd
117	Swan	Swan
118	The Dying Swan	DyingSwn
119	Swan Lake Valse	SwnWalse
120	The Happy Farmer	HpFarmer
PIANO		
121	Hanon Piano Fingering 1	Hanon1
122	Hanon Piano Fingering 2	Hanon2
123	Hanon Piano Fingering 3	Hanon3
124	Hanon Piano Fingering 4	Hanon4
125	Hanon Piano Fingering 5	Hanon5
126	Basic Tutorial Beyer Piano 12	Beyer12
127	Basic Tutorial Beyer Piano 13	Beyer13
128	Basic Tutorial Beyer Piano 14	Beyer14
129	Basic Tutorial Beyer Piano 15	Beyer15
130	Basic Tutorial Beyer Piano 18	Beyer18
131	Cuckoo	Cuckoo

No.	English Name	LCD Name
132	Basic Tutorial Beyer Piano 21	Beyer21
133	Basic Tutorial Beyer Piano 29	Beyer29
134	Butterfly	Buterfly
135	Basic Tutorial Beyer Piano 45	Beyer45
136	Christmas Eve	XmasEve
137	Basic Tutorial Beyer Piano 50	Beyer50
138	Basic Tutorial Beyer Piano 52	Beyer52
139	Basic Tutorial Beyer Piano 55	Beyer55
140	Basic Tutorial Beyer Piano 59	Beyer59
141	Beyer Eight Degrees Jump Etude	BeyrJump
142	Basic Tutorial Beyer Piano The Scale Of C Major	BeyerC
143	Basic Tutorial Beyer Piano 65	Beyer65
144	Basic Tutorial Beyer Piano 66	Beter66
145	Old Folks At Home (Piano)	OldFolk2
146	Basic Tutorial Beyer Piano The Scale Of G Major	BeyerG
147	Basic Tutorial Beyer Piano 70	Beyer70
148	Basic Tutorial Beyer Piano 72	Beyer72
149	Basic Tutorial Beyer Piano 73	Beyer73
150	Basic Tutorial Beyer Piano 74	Beyer74

29. Demo List

No.	English Name	LCD Name
1	Demo	Demo
2	Bossa Nova	BosaNova
3	Fusion	Fusion
4	Jazz	Jazz
5	Funk	Funk
6	Ballad	Ballad
7	Modern R&B	ModrnR&B
8	Electric	Electric

30. MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic	Default	1ch	1-16ch	
Channel	Changed	1-16ch	1-16ch	
Mode	Default	×	3	
	Messages	×	×	
	Altered	***********	×	
Note	Note	0–127	0–127	
Number	: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	key's	×	×	
Touch	Ch's	×	×	
Pitch Bend		×	○	
Control	0	○	○	Bank Select
Change	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

Function		Transmitted	Recognized	Remarks
Program Change	:true	○ ***********	○ 0–127	
System Exclusive		×	○	
System Common	:SongPosition	×	×	
	:Song Select	×	×	
	:Tune	×	×	
System Real Time	:Clock	○	×	
	:Commands	×	×	
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

×: NO
○: YES