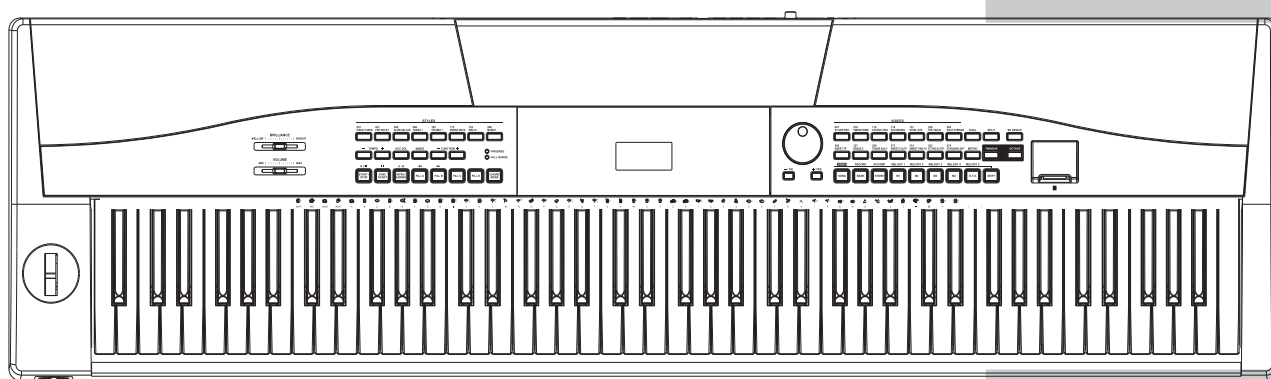


STAGE PIANO



Owner's Manual

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

CAUTION

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

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

Power Supply

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, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

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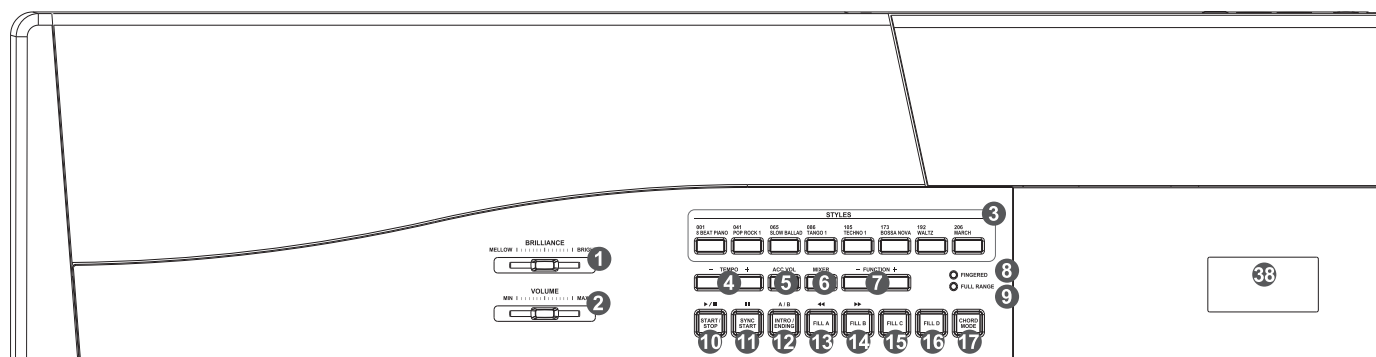
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Panel & Display Description

Front Panel



1. **[BRILLIANCE] Slider**
Adjust voice brilliance

2. **[VOLUME] Slider**
Adjust master volume

When [SHIFT] button pressed
3. **Style button**
Enter the style mode

When [SHIFT] button released
3. **Style direct button**
Select a direct style

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

5. **[ACC VOL] button**
Adjust ACCOMP volume

6. **[MIXER] button**
Enter mixer menu

7. **[FUNCTION+/-] button**
Enter function menu

8. **A.B.C. MODE lamp**
Indicate A.B.C. mode status:
open or closed

9. **FULL RANGE MODE lamp**
Indicate full range mode status:
open or closed

STYLE MODE :

10. **[START/STOP] button**
Start or stop playing the style

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

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

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

14. **[FILL B] button**
A Fill-in B plays

15. **[FILL C] button**
A Fill-in C plays

16. **[FILL D] button**
A Fill-in D plays

17. **[CHORD MODE] button**
Choose chord mode

SONG MODE:

10. **[START/STOP] button**
Start or stop playing the song

11. **[PAUSE] button**
Pause the playing song
or start it

12. **[REPEAT A/B] button**
Set the location of loop
begin and loop end to
the current song

13. **[REW] button**
Rewind the song

14. **[FF] button**
Fast forward the song

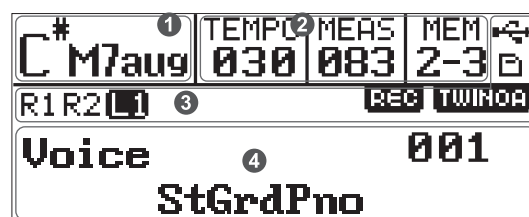
38. **LCD**
Show all important settings for
the instrument

39. **PITCH BEND / MODULATION Joystick**
Add a vibrato effect or bend
note up or down

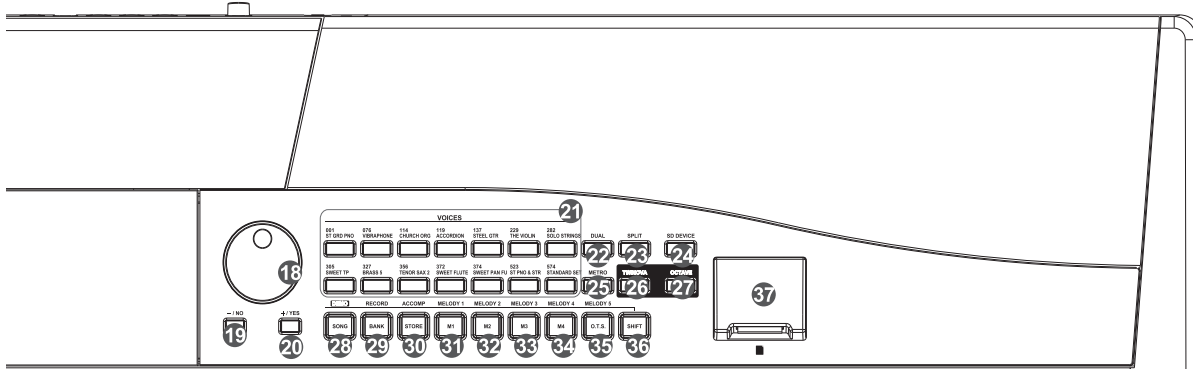
40. **PHONE 1**
41. **PHONE 2**
Please refer to Connecting
a pair of Headphones

LCD

- Chord display area**
Display chord information
- Instant message area**
Display the current tempo, measure, memory/O.T.S. setting.
- Status display area**
Display the status of function, SD card, USB, etc.
- System message display area**
Display the corresponding messages to different status.
For example, in voice status, it displays the selected voice.



Panel & Display Description



18. Data dial
Increase and decrease the value

19. [- / NO] button
Decrease the value

20. [+ / YES] button
Increase the value

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

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

24. [SD DEVICE] button
Enter SD menu

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

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

27. [OCTAVE] button
Set octave in TWINOVA mode

When [SHIFT] button pressed
21. [VOICE] button
Enter the voice mode

28. [DEMO] button
Enter demo mode and play demo songs

29. [RECORD] button
Enter record mode

30. [ACCOMP] button
Select the accomp track to record

31~35. MELODY 1-5 button
Select the melody1-5 track to record

36. [SHIFT] button
Select the second function of some buttons

37. SD card socket
To insert a SD card

When [SHIFT] button released
21. Voice direct button
Select a direct voice

28. [SONG] button
Enter song mode and play songs

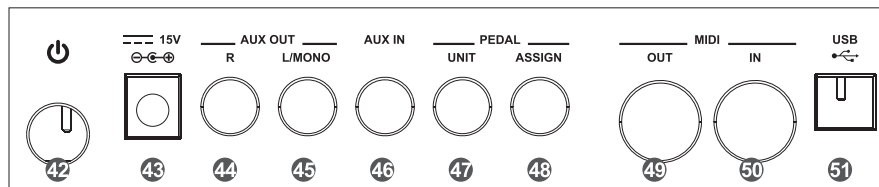
29. [BANK] button
Select a bank to store settings

30. [STORE] button
Register the current panel settings

31~34. M1~M4 button
Recall the registered panel settings

35. [O.T.S] button
Turn one touch setting on and off

Rear Panel



42. POWER SWITCH
Press to turn the power on() and off()

43. DC IN
Connect AC power adaptor

44~45. AUX. OUT
Connect the audio equipment

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

47. UNIT PEDAL
Connect the unit pedal

48. ASSIGN PEDAL
Connect the assign pedal

49. MIDI OUT
Connect the MIDI IN of other Device to the MIDI OUT jack on the rear panel

50. MIDI IN
Connect the MIDI OUT of other Device to the MIDI IN jack on the rear panel

51. USB JACK
Connect to a computer

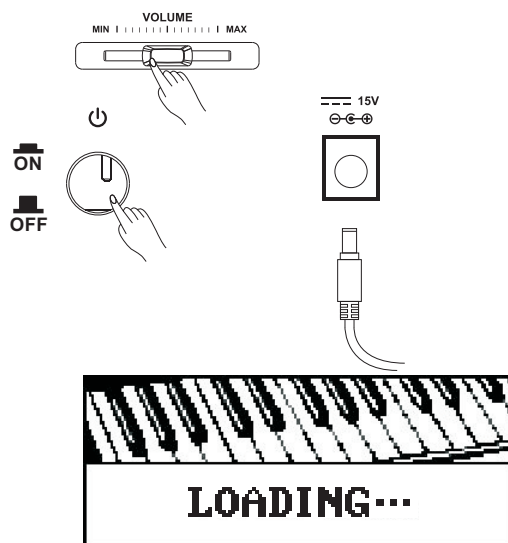
Setup

Power Jack

1. Make sure that the piano is turned off(■). Before you switch your piano on, turn down the volume of piano and the connected audio equipment first.
2. Connect the AC adaptor to the power supply jack of this piano.
3. Plug the AC adaptor into an AC outlet.
4. Press the POWER SWITCH, the LCD will display “LOADING...”, which indicates the piano has powered on.
5. If you want to switch off the piano, press the POWER SWITCH again.

Notes:

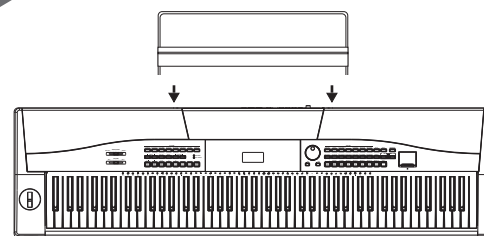
1. In the idle mode, the piano will automatically shutdown in 30 minutes if you do not take any action on the piano.
2. When the keyboard is not in use or during thunderstorm, please disconnect the power for safety purpose.



Setting a Music Stand

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

Please set up the music stand as shown on the right:



Connecting a Unit Pedal

After connecting a unit pedal to the unit pedal jack on the rear panel, the piano will have three pedals with different functions: Sustain, Sostenuto, Soft.

SUSTAIN Pedal

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

SOSTENUTO Pedal

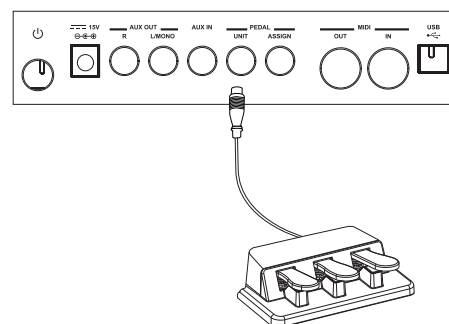
Step on the sostenuto pedal, the notes played before you step on the pedal would have a sustain effect.

SOFT Pedal

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

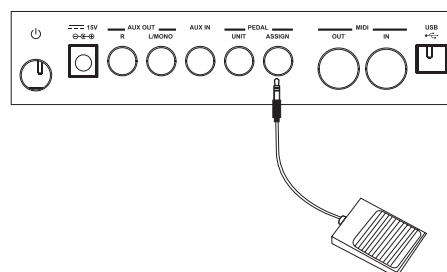
Note:

The unit pedal needs to be purchased separately.



Connecting an Assign Pedal

After connecting an assign pedal to the assign pedal jack on the rear panel, you can set the pedal type as sustain pedal, soft pedal, start/stop pedal or memory select pedal in pedal function settings.



Connecting a pair of Headphones

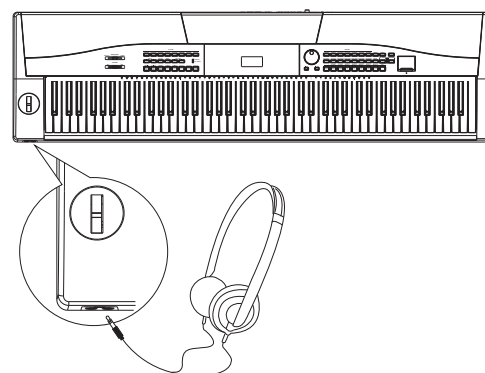
A standard pair of stereo headphones can be plugged in here for private practice or late-night playing.

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

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

Note:

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

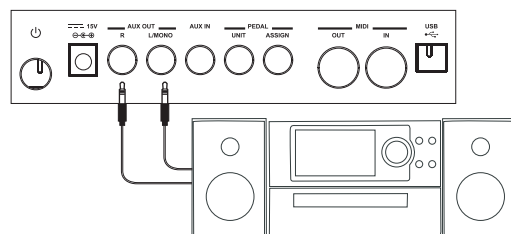


Connecting an Audio Equipment

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

Note:

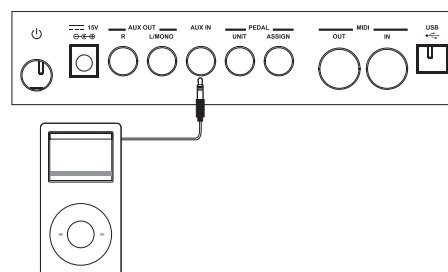
To avoid damaging the speakers, please ensure that the volume has been set to the minimum level before connecting the power and other devices.



Connecting an MP3/CD Player

Connect the audio output of an MP3/CD player or other audio source to the stereo AUX.IN jack on the rear panel.

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



Connecting a Computer

Via the USB Connector

This receives and transmits MIDI messages.

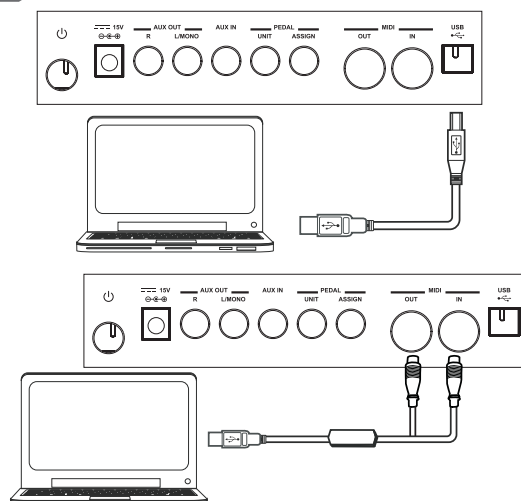
Via the MIDI Connectors

MIDI IN Connector

This receives MIDI messages transmitted from an external MIDI device or a computer.

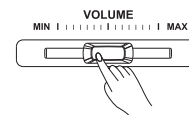
MIDI OUT Connector

Piano performance data is transmitted from this connector to connected computer or MIDI device.



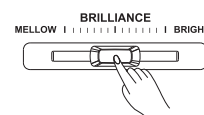
Adjusting the Master Volume

Slide the [VOLUME] slider to right, the volume increases and vice versa.



Adjusting the Voice Brilliance

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



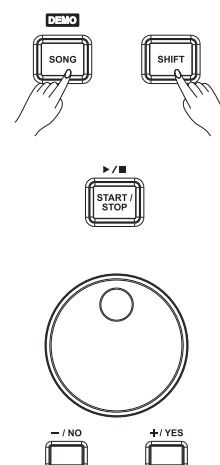
Playing the Demo Song

The instrument features 5 wonderful demos. Please refer to Demo List.

1. Holding down [SHIFT] button, then press the [DEMO] button to start demo song playing, and the LCD will display the number and name of demo.
2. Beat Tips
In demo song playing status, the two-color LED of [START/STOP] button will be flashing with the song rhythm and tempo.
3. You can use the data dial, the [+ / YES] / [- / NO] button to select a demo song.
4. Press the [START/STOP] button to stop playing. Holding down [SHIFT] button, then press the [demo] button to exit demo mode.

Note:

1. In the demo status, all the demo songs will loop playing. And all buttons and keys are unavailable except [DEMO], [START/STOP], [TEMPO+/-], [+ / YES], [- / NO] button, data dial, [VOLUME] slider and POWER SWITCH.
2. In the recording, style or song playing status, the two-color LED of the [START/STOP] button will also be flashing with the rhythm and tempo. The red color indicates strong beat, and the green color means weak beat.



Playing Voices

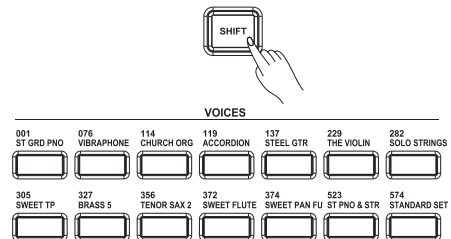
The instrument features 583 exceptionally realistic voices.
10 group of percussion voices. Please refer to Voices List.

Playing Voices

1. In idle mode, holding down [SHIFT] button, and then press one of the voice direct button to enter the voice mode. LCD will display the current voice name and number and highlights "R1".
2. Use the data dial, [+ / YES] / [- / NO] button to select a voice you want to play. You can also use the voice direct button to select one.
3. You can play the keyboard and listen to the wonderful voice.

Note:

When the DUAL and LOWER function is on, you can hold down the [SHIFT] button, and then press one of the voice direct buttons to shift the status of voice sources, and the LCD cursor will highlight between R1,R2,L1.



VOICES

001 ST GRD PNO	076 VIBRAPHONE	114 CHURCH ORG	119 ACCORDION	137 STEEL GTR	229 THE VIOLIN	282 SOLO STRINGS
305 SWEET TP	327 BRASS 5	356 TENOR SAX 2	372 SWEET FLUTE	374 SWEET PAN FU	523 ST PNO & STR	574 STANDARD SET

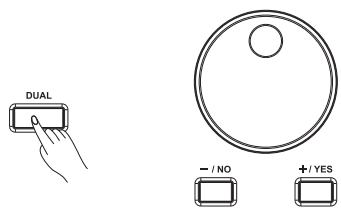
	TEMPO 095	MEAS 001	MEM 1-1
R1	Voice StGrdPno		001

Playing two voices simultaneously-DUAL

1. In idle mode, press [DUAL] button to turn dual function on.
The LCD displays current voice name and number, and highlights "R2".
2. When "R2" is highlighted, use the data dial, the [+ / YES], [- / NO] button or voice direct button to select the dual voice you want to play.
3. Play the keyboard, and then you will hear two different voices are sounded simultaneously in a layer. It seems like two different instruments playing at the same time.

Note:

When the keyboard has been split, only the right hand area will respond the dual voice, the left hand will not respond to it.



	TEMPO 095	MEAS 001	MEM 1-1
R1R2	Voice StGrdPno		001

Playing different voices with both hands-LOWER

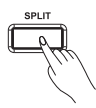
1. In idle mode, press [LOWER] button to turn the lower function on.
The keyboard is split into two independent sections, and each section has its voice. The LCD displays the left hand voice name and number, and highlights "L1".
2. When "L1" is highlighted, use the data dial, the [+ / YES], [- / NO] button or voice direct button to select the lower voice you want to play.
3. Play the keyboard in different sections, and you will hear two different voices.

Note:

The right hand voice does not change when you change lower voice.

Split Point

The Point on the keyboard that separates voice L and voice R1/R2 is called the "split point". The split point is set to F#3/G3 at the factory setting. However you can set this to any key you want. Refer to KeySplit setting for split point setting.



	TEMPO 095	MEAS 001	MEM 1-1
R1L1	Voice SSlowStr		274

Pitch Bend/Modulation effect

Use the pitch bend wheel to bend the pitch of notes up or down while playing the keyboard. The pitch bend wheel will automatically return to normal pitch when released.

1. Roll the wheel right and left to make pitch bend effect, which increase the pitch when rolling right, and decrease the pitch when rolling left. The range of pitch change is 2 semitones.

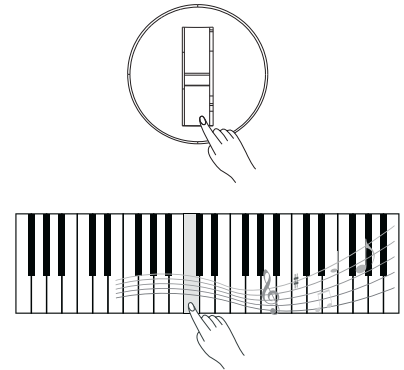
Note:

Use the pitch bend wheel can imitate the pitch bend effect of guitar, violin, saxophone, and so on. It makes the performance more vivid.

2. Roll the wheel up and down to make modulation effect, which increase the effect when rolling up or down, and have no effect when the wheel is in center place.

Note:

The modulation effect is important when playing string instrument like guitar and violin. The modulation effect makes the voice more realistic.



The twinova mode can split the keyboard into two sections which have the same pitch and voice. It helps teaching and learning piano.

1. In idle mode, press [TWINOVA] button to turn twinova function on. The LCD highlights "TWINOVA". In twinova mode, dual voice and lower voice are unavailable. The default split point is E3 (32). When you are ready to exit, press [TWINOVA] button again.
2. In twinova mode, the default voice of right hand and left hand is the upper voice you select before entering twinova mode. Use the data dial, the [+ /YES] /[- /NO] button or the voice direct button to choose voice.
3. In twinova mode, press [OCTAVE] button, LCD temporarily displays the octave value of twinova. Now you can use the data dial, the [+ /YES] /[- /NO] button to set octave value of twinova. The range of octave is -1 to 1.

Note:

1. In the song playing mode, the twinova is invalid.
2. Please refer to KeySplit setting to set the split point setting.



	TEMPO	MEAS	MEM
	095	001	1-1
[R1]	TWINOVA		
Voice	001		
StGrdPno			

	TEMPO	MEAS	MEM
	095	001	1-1
[R1]	Octave: 0		
Voice	001		
StGrdPno			

Auto Accompaniment

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is to play the chords with your left hand using your selected accompaniment style, and then the accompaniment will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra. This keyboard features 235 styles in a variety of musical genres. Try to select some of the different styles (refer to Style List) and enjoy the auto accompaniment feature.

Play Auto Accompaniment(rhythm track only)

1. In idle mode, holding down [SHIFT] button, and then press any of the style direct button to enter the style mode. LCD displays the name and number of the current style.
2. Use the data dial, the [+ /YES], [- /NO] button or the style direct button to choose the style you want to play.
3. Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment. Also you can press [SYNC START] and then play any key to start the rhythm tracks of the auto accompaniment.



	TEMPO	MEAS	MEM
	095	001	1-1
[R1]	Style		
8BtPiano	001		

Auto Accompaniment

Play Auto Accompaniment(all tracks)

1. In style mode, press [CHORD MODE] button to enter "auto bass chord" (A. B. C.) mode. The keyboard is split into two sections. Left hand section is chord detect section. The "FINGERED" LED on the panel will be lighted.
Press [CHORD MODE] button again to enter "full range" mode. The "FULL RANGE" led on the panel will be lighted. The whole keyboard is chord detect section.
2. Press [SYNC START] button and then play a chord in chord detect section to start auto accompaniment of all tracks. When you change a chord, the accompaniment automatically changes. Also press [START/STOP] button to start auto accompaniment of rhythm track, then play a chord in chord detect section. It will start auto accompaniment of all tracks.

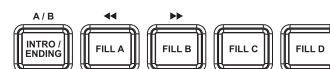


(#9)	TEMPO	MEAS	MEM
B7	083	034	1-1
R1 R2			
Style	086		
Tango1			

Accompaniment Sections

There are various types of Auto Accompaniment sections that allow you to vary the arrangement of the accompaniment to match the song you are playing.

They are: Intro, Main (A, B, C, D), Fill (A, B, C, D), and Ending. By switching among them during your performance you can easily produce the dynamic elements of a professional sounding arrangement in your performance.



INTRO Section

The intro is an opening section of the song.

Each preset style features two different patterns. When the intro pattern finished, the system will automatically shift to the main section.

MAIN Section

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

FILL IN Section

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

ENDING Section

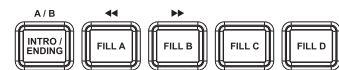
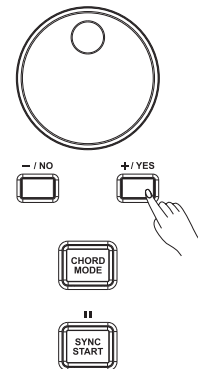
Ending is used for the ending of the song. When the ending is finished, accompaniment automatically stops. The length of the ending differs depending on the selected style.

Note:

Hold down the FILL A/B/C/D button when the style is playing, the selected fill-in pattern repeats continuously until button is released. Press FILL A/B/C/D button when style stops, it will change to the normal section, the LED of A/B/C/D on panel will be lightened.

Playing Different Accompaniment Sections

1. Press style direct button or use the data dial, [+ / YES] / [- / NO] button to select a style.
2. Press [CHORD MODE] button to enter A. B. C. (auto bass chord) mode.
3. Press [SYNC START] button.
4. Press [FILL A] button.
5. Press the [INTRO/ENDING] button. Now the "A" LED flashes on panel, the style is ready to play.
6. It will start the accompaniment as soon as you start playing in Chord section. When the playback of the intro is finished, it automatically leads into Main A section.
7. Press the [FILL B] / [FILL C] / [FILL D] button. A fill-in plays, automatically followed by the Main B/C/D section.
8. Press the [INTRO/ENDING] button again, and it will enter the Ending Section. When the ending is finished, the auto accompaniment automatically stops.



Accompaniment Volume

This function is used to change the volume of all tracks of accompaniment.

Press [ACC VOL] button, the LCD will display ACCOMP volume (0 to 127). At this time, you can use the data dial or [+ / YES] / [- / NO] button to adjust ACCOMP volume.

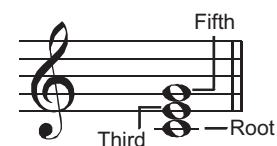


Chord Fingering

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.



Auto Accompaniment

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.



Major Triad Minor Triad



Augmented Triad Diminished Triad

Chord Inversion

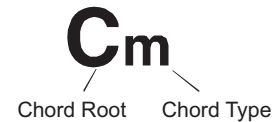
We define this chord its root is not in the bass (i.e., is not the lowest note) as an inversion chord. When the root is in the bass, we call the chord: root-position chord. If we put the Third and Fifth in the root position, then it forms Inversion, we call this chord Inversion Chord. See the following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



Root Position First Inversion Second Inversion

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.

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.

Multi Finger

Multi finger type only can recognize those chords have listed in the chord list, and also can be found in the dictionary function.

0 C	1 C ₆	2 C _{M7}	3 C _{M7} (#11)	4 C _M (9)	5 C _{M7} (⁹)
6 C ₆ (⁹)	7 C _{aug}	8 C _m	9 C _{m6}	10 C _{m7}	11 C _{m7} (b5)
12 C _m (9)	13 C _{m7} (⁹)	14 C _{m7} (¹¹)	15 C _m M ₇	16 C _m M ₇ (⁹)	17 C _{dim}
18 C _{dim7}	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 C _{M7aug}	29 C _{7aug}
30 C _{SUS4}	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+/-] buttons.

1. Use the [TEMPO+/-] button to change the tempo. While the tempo data is flashing, use the data dial can also change the tempo.
2. Press the [TEMPO+] and [TEMPO-] buttons simultaneously to restore the default tempo setting.

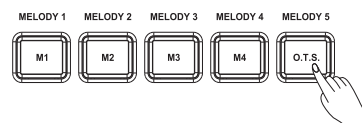


	TEMPO	MEAS	MEM
	126	001	1-1
R1			
Voice			
StGrdPno			
			001

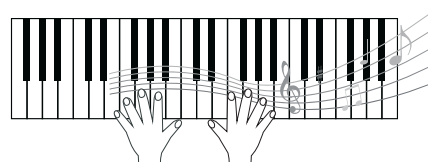
One Touch Setting

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



	TEMPO	MEAS	O.T.S
	126	001	1
R1			
Voice			
VelStel			
			148



One Touch Setting parameter list:

Part ON/OFF (VOICE R1, R2, L1)
 Voice Change (VOICE R1, R2, L1)
 Voice Volume (VOICE R1, R2, L1)
 Voice Reverb Level (VOICE R1, R2, L1)
 Voice Chorus Level (VOICE R1, R2, L1)

Metronome

Using metronome helps you with beat that guides your playing by preset tempo.

1. Open the metronome
Press the [METRO] button to turn the metronome on.
2. Close the metronome
Press the [METRO] button again to turn the metronome off.
3. Metronome beat type setting
Please refer to beat type setting.



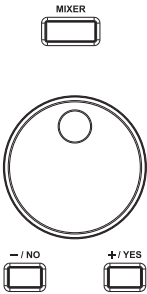
Note:

The metronome will respond in the next beat if it is opened when the accompaniment is playing.
 When recording, metronome beats cannot be recorded.

Mixer

Mixer function can control the volume of different tracks.

- 1. Press the [MIXER] button.
Now you have entered the menu of mixer. Press the [MIXER] button repeatedly, you can select a track and change its volume.
- 2. To adjust the selected volume setting, please use the data dial or the [+ /YES] / [- /NO] button.
Press [+ /YES] and [- /NO] button simultaneously to turn off a track volume.
Press [+ /YES] and [- /NO] button simultaneously again to turn on a track volume.
The option and parameters are as follows:



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

	TEMPO	MEAS	MEM
	126	001	1-1
MixerSet			
Rhythm_m Vol: 108			

The assign pedal is a single pedal which can be configured to different pedal function. Please refer to the pedal setting menu for detail.

1. Sustain Pedal

If assign pedal is set as “Sustain”, step on the assign pedal, all notes played on the keyboard will have a longer sustain.

2. Soft Pedal

If assign pedal is set as “Soft”, step on the assign pedal, all notes played on the keyboard will have a softer effect.

3. Pedal Start/Stop

If pedal assign is set as “St/Sp”, the assign pedal will have the same function as [START/STOP] button.



4. Pedal Memory Select

If pedal assign is set as “MemSw”, it will load the next memory parameter from M1 when you step on the pedal.
The total number of memory you can load is 32.

Note:

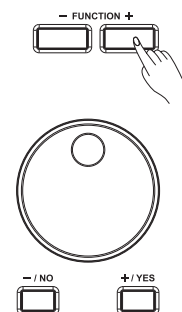
We do not suggest use the assign pedal and unit pedal simultaneously. It may cause a malfunction.

Other Functions

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

The option and parameters are as follows:

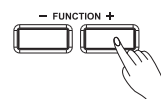
Number	LCD display	Range	Default
1	Tune: xxx	-50 ~ +50	000
2	Transpose: xxx	-12 ~ +12	000
3	SplitPt: xxx	1 ~ 88	034
4	BeatType: xxx	0, 2 ~ 9	004
5	BeatVol: xxx	0 ~ 127	090
6	PedalType: xxx	Sustain, Soft, St/Sp, MemSw	Sustain
7	HarmonyTp: xxx	Duet, 1+5, Octave, CtryDuet, Trio, Block, 4Close1, 4Close2, 4Open	Duet
8	HarmonySwitch: xxx	OFF, ON	OFF
9	MidiIn: xxx	1 ~ 16, ALL	ALL
10	MidiOut: xxx	1 ~ 16	001
11	DspEffect: xxx	OFF, 1, 2, 3	002
12	Touch: xxx	OFF, 1, 2, 3	002
13	Language: xxx	English, 中文	English
14	PowerOff: xxx	OFF, 30, 60	030



Tune

This function sets the pitch of entire keyboard by steps of cents.

1. Press [FUNCTION+/-] button to select tune menu. LCD displays "Tune: xxx". Use [+YES]/ [-NO] or data dial to change tune value. Its range is from -50 to 50 cents.
2. Press [+YES] and [-NO] simultaneously will set the tune value to its default setting: 000.

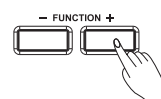


	TEMPO	MEAS	MEM
	126	001	1-1
[F1]	FunctionSet		
	Tune:		+00

Transpose

Transpose function allows the overall pitch of the instrument to be transposed up or down by a maximum of one octave in semitone steps.

1. Press [FUNCTION+/-] button to select transpose menu. LCD displays "Transpose: xxx". Use [+YES]/ [-NO] or data dial to change transpose value. The max transpose is ± 12 semitones.
2. Press [+YES] and [-NO] simultaneously will set the transpose value to its default setting: 000.



	TEMPO	MEAS	MEM
	066	001	1-1
[F1]	FunctionSet		
	Transpose:		+02

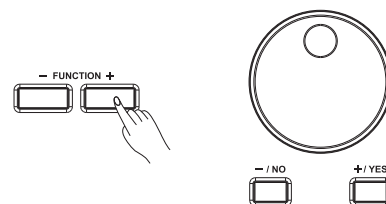
KeySplit

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

1. Press [FUNCTION+/-] button to select keysplit menu. LCD displays "SplitPt: xxx". Use [+ /YES] / [- /NO] or data dial to change keysplit value. The range of keysplit: 1~88.
2. Press [+ /YES] and [- /NO] simultaneously will set the keysplit value to its default setting: F#3(34).

Note:

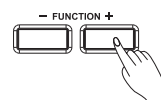
When twinova is opened, the range of keysplit is C3~C6 (28~64). Press [+ /YES] and [- /NO] simultaneously will set twinova keysplit value to its default setting: E3(32).



	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet SplitPt: 034			

Beat Type

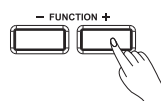
1. Press [FUNCTION+/-] button to select beat type menu. LCD displays "BeatType: xxx". Use [+ /YES] / [- /NO] or data dial to change beat type. The range of beat type: 0, 2~9.
2. Press [+ /YES] and [- /NO] simultaneously will set the beat type value to its default setting: 4.



	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet BeatType: 004			

Beat Volume

1. Press [FUNCTION+/-] button to select beat volume menu. LCD displays "BeatVol: xxx". Use [+ /YES] / [- /NO] or data dial to change beat volume. The range of beat volume: 0~127.
2. Press [+ /YES] and [- /NO] simultaneously will set the beat volume value to its default setting: 090.



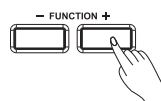
	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet BeatVol: 090			

Pedal Type

1. Press [FUNCTION+/-] button to select pedal type menu. LCD displays "PedalType: xxx". Use [+ /YES] / [- /NO] or data dial to change pedal type. 4 types of pedal are available: sustain pedal(Sustain), soft pedal(Soft), accompaniment start/stop Pedal(St/Sp), memory switch pedal(MemSw).
2. Press [+ /YES] and [- /NO] simultaneously will set the pedal type to its default setting: Sustain.

Note:

1. This piano is compatible with normally open or closed pedal. It will auto detect the pedal type when switching on.
2. If you switch on the piano stepping on the pedal, the pedal status will be converse.



	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet PedalType: Sustain			

Other Functions

Harmony Type

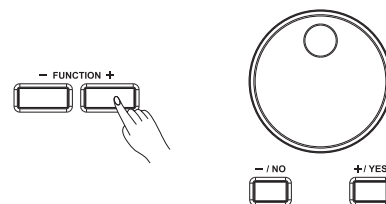
You can add a variety of harmony notes to the keys you played in the right-hand section.

1. Press [FUNCTION+/-] button to select harmony type menu. LCD displays "HarmonyTp: xxx". Use [+ /YES] / [- /NO] or data dial to change harmony type.

The harmony types are as follows:

Number	LCD Display
1	Duet
2	1+5
3	Octave
4	CtryDuet
5	Trio
6	Block
7	4Close1
8	4Close2
9	4Open

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



	TEMPO	MEAS	MEM
	126	001	1-1
[R1] FunctionSet Harmony: Duet			

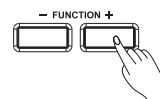
Harmony Switch

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

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

Playing with harmony:

Open the A.B.C., then use left hand play a chord. When playing that chord, the harmony effect notes will be added to the notes you play in the right hand section. While "1+5" or "octave" is selected to a harmony type, you can use the harmony effect without playing the chord. The other type effect notes cannot respond without playing chord.

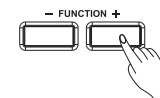


	TEMPO	MEAS	MEM
	126	001	1-1
[R1] FunctionSet HarmonySw: OFF			

MIDI IN

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

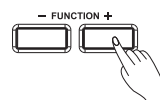
2. Press [+ /YES] and [- /NO] simultaneously will set MIDI IN channel to default setting: ALL.



	TEMPO	MEAS	MEM
	126	001	1-1
[R1] FunctionSet MidiIn: ALL			

MIDI OUT

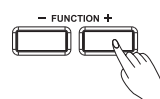
1. Press [FUNCTION+/-] button to select MIDI OUT menu.
LCD displays "MidiOut: xxx". Use [+YES]/ [-NO] or data dial to change MIDI OUT channel:1~16.
2. Press [+YES] and [-NO] simultaneously will set MIDI OUT channel to default setting: 001.



	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet MidiOut: 001			

DSP effect

1. Press [FUNCTION+/-] button to select DSP effect menu.
LCD displays "DspEffect: xxx". Use [+YES]/ [-NO] or data dial to change DSP parameter: OFF, 1~3.
2. Press [+YES] and [-NO] simultaneously will set DSP to default setting: 002.

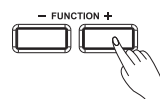


	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet DspEffect: 002			

Touch

The keyboard is equipped with a touch response feature that lets you dynamically and expressively controls the level of the voice with your playing strength just as on an acoustic instrument.

1. Press [FUNCTION+/-] button to select touch menu. LCD displays "Touch: xxx". Use [+YES]/ [-NO] or data dial to change touch type: OFF, 1(soft), 2(normal), 3(hard).
2. Press [+YES] and [-NO] simultaneously will set touch value to default setting: 2(normal).



	TEMPO	MEAS	MEM
	112	001	1-1
FunctionSet Touch: 002			

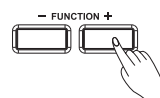
Language

This function is used to set the system language.

1. Press [FUNCTION+/-] button to select language menu. LCD displays "Language: xxx". Use [+YES]/ [-NO] or data dial to change language: English, 中文
2. Press [+YES] and [-NO] simultaneously will set the language to its default setting: English.

Note:

The language setting will keep if you switch off the piano.

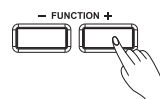


	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet Language: English			

PowerOff

This function is used to set automatic shutdown time.

1. Press [FUNCTION+/-] button to select power off menu.
LCD displays "PowerOff: xxx". Use [+YES]/ [-NO] or data dial to change time value: OFF, 030, 060.
2. Press [+YES] and [-NO] simultaneously, the time will be restored to default: 030 minutes



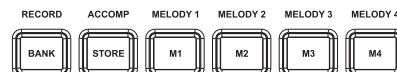
	TEMPO	MEAS	MEM
	126	001	1-1
FunctionSet PowerOff: 030			

Register Memory

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

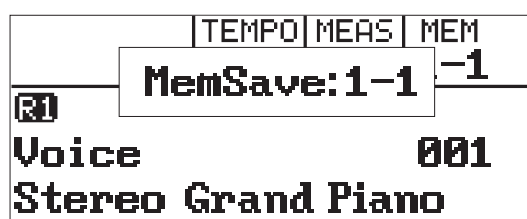
Note:

Press [STORE] and [M1] button then power on, the registration memory will be set to default.



Registering the Panel Setting

1. There are 8 memory banks, and each bank has 4 memories (M1-M4).
2. While holding the [STORE] button, press one of the REGISTRATION MEMORY buttons: [M1] - [M4]. Notice that the new settings will replace the previous memory data.

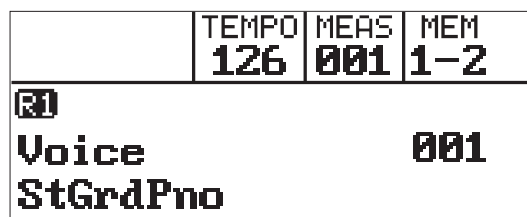
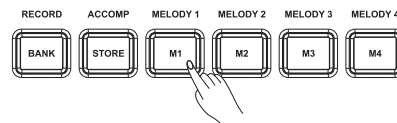


Recalling the Registered Panel Settings

Press one of the REGISTRATION MEMORY buttons: [M1] - [M4]. In this example, the panel settings stored in the memory 2 of bank 1 are recalled.

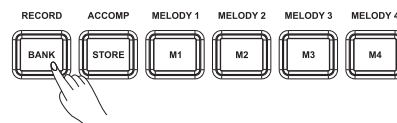
Note:

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



Selecting a Registration Bank

1. Press the [BANK] button. There are 8 banks in all and each bank has 4 memories (M1-M4). Press the [BANK] button, the LCD displays "MemBank".
2. Select a bank. Use the data dial, [+ / YES] or [- / NO] button to select a bank from 1 to 8.



Song Recording

With the easy-to-use song recording features, you can record your own keyboard performances as a user song. 5 user songs can be recorded with 6 tracks (1 ACCOMP track, 5 MELODY tracks) each.

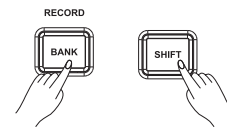
Among them, the accompaniment track is used for recording style and this recorded track is user song's accomp. Melody tracks are used for recording melodies.

Accomp track and melody track can be recorded together, but you cannot record two melody tracks at the same time. Of course you can only record accomp or melody. Accomp and several melody tracks can simultaneous playback. The recorded data will not lose when you turn off the power.

Start Recording

Before you start recording, you need to select a user song to keep the recording song, and set the recording tracks.

1. Holding down [SHIFT] button, then press the [RECORD] button to enter user song selection mode. The LCD displays "RecSong1" and sequence number. 3 user songs can be recorded. Press [+ / YES] / [- / NO] button to select the user song you want to record.
2. Holding down [SHIFT] button, then press the [RECORD] button again to enter record preparation mode. LCD lightens the "REC" flag, and the [START/STOP] button on the panel will light up. It automatically select a empty track to record your performance. The button of track (ACCOMP, MELODY1 to MELODY 5) will flash to indicate which track you would record.
3. In the recording preparation status, you can adjust parameters such as the voice, style and tempo. When recording a new song, It will automatically select "Melody 1" as the recorded track. Holding down [SHIFT] button, then press "ACCOMP" (or "MELODY1" to "MELODY 5") to make your own selection. The ACCOMP track and one of MELODY track can be recorded at the same time, but it cannot record two MOLODY track simultaneously.
4. Press [START/STOP] button or play the keyboard to start recording. The [RECORD] button lightens. When choosing the accomp tack and A.B.C. is open, play an effective chords in left hand section or press [START/STOP] button would start recording.



	TEMPO	MEAS	MEM
	066	001	1-1
[RECORD]	Record		001
	RecSong1		



	TEMPO	MEAS	MEM
	095	001	2-2
[RECORD]	Voice		001
	StGrdPno		

Note:

Style can only be recorded in "Accomp" track. The recording track instructions LED has three states: Blinking, Light, Go out.

Blinking: It means the track was chose for recording. If the track have recorded data, the original data will be replaced.

Light: It means this track have data, the recording process will record data with playback the recorded track at the same time.

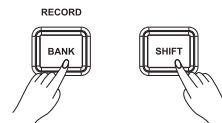
Go out: It means this track has no data or has data which can not playback when recording.

When recording an existing song, the keyboard will automatically select the empty track next to the occupied track. For example, if "Melody 1" is occupied, then "Melody 2" will be selected as the record track. When all 6 tracks have been recorded and a specific track needs to be revised, press the button of that track and start recording. The original data will be replaced.

Song Recording

Stop Recording

1. When recording is in process, holding down [SHIFT] button then press the [RECORD] button to stop recording.
2. When recording is in process, if the memory is full, the recording will stop and save automatically, and the LCD displays "RecFull".
3. If you choose the accomp recording, the recording will stop automatically when the ending of the rhythm finishes.

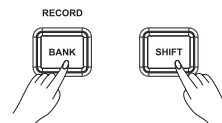


	TEMPO	MEAS	MEM
			-1
[R]	[Hourglass Icon]		
Voice			114
Church Organ			

	TEMPO	MEAS	MEM
			-1
[R]	[! RecFull!]		
Voice			114
Church Organ			

Playback Recording

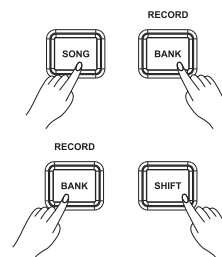
1. When recording is in process, holding down [SHIFT] button then press the [RECORD] button, it will stop recording and enter the song play mode, and the current recorded song will play automatically in circle.
2. Press the [SONG] button to enter the song mode and it will play all songs circularly. Use the data dial, [+ /YES] or [- /NO] button to select a song, there are 125 songs in all, including 5 user songs (121-125). If there is no data in the selected user song, it will display "NoFile" and stop playing. You can also select one user song in song stop playing mode, press [PLAY/STOP] button, this user song will play circularly.



	TEMPO	MEAS	MEM
	095	-01	1-1
[R]			
Song			122
NoFile!			

Delete User Song

1. Pressing and holding [RECORD] and [SONG] button together and turn power on simultaneously, all user songs will be erased.
2. In the recording preparation status, holding down [SHIFT] button then press the [RECORD] button for two second, the LCD will display "Delete?". And holding down [SHIFT] button then press [ACCOMP] (or [MELODY 1] to [MELODY 5]) button to select the track you want to delete.
When some track button is lightened, it indicates that the track data you want to delete, otherwise, it indicate that the track data you want to keep. If all the track buttons are lightened, the whole user song will be erased after confirmation.
3. Choose the track you want to delete, press [+ /YES] to confirm and the recorded data in this track will be erased. Press [- /NO] to quit this step, and go back to the recording preparation status.



	TEMPO	MEAS	MEM
			-1 [D]
[R]	[! Delete?]		
Voice			001
Stereo Grand Piano			

The piano has 125 songs in all, including 5 user songs.

Listening to the songs

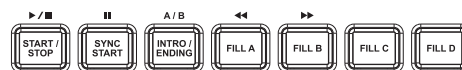
- 1.** Press the [SONG] button to enter the song mode and it will play all songs circularly.
- 2.** Use the data dial, [+ / YES] or [- / NO] button to select a song.
- 3.** Once you start playing a song by pressing [START / STOP] button, it will play current song repeatedly.
- 4.** When the song is stopped, press the style or voice direct button, [DUAL] button and so on will exit the song mode.



	TEMPO	MEAS	MEM
	095	003	Z-2
[R]			
Song			001
RedRiver			

Song Control

- 1. Introductory beat**
Before song start playing, it has the introductory beat, the measure starts from negative value. It begins to play song when the measure goes to 1.
- 2. REW, FF and PAUSE**
When the song is playing:
Press the [►►] 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.
- 3. Song Repeat**
When playing the song, press [A/B] button to set the location of loop begin and loop end to the current song. Press the [A/B] to set the loop begin and press it again to set the loop end. When in loop status, press [A/B] again to quit the loop playing status.



Restore Factory Setting

Pressing and holding [+ / YES] and [- / NO] button together and then turn the power on, the piano would be restored to factory setting. It will delete all the user data: user styles, user songs and registered memory. The LCD will display the power on logo about 8 seconds. After the restore completed, the piano will start normally.

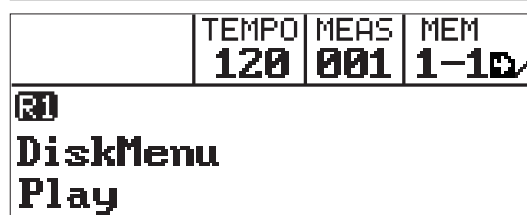
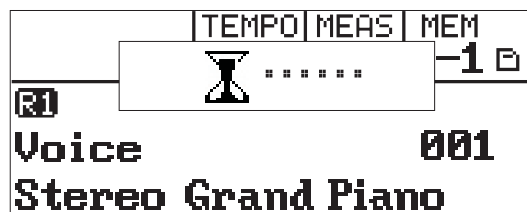
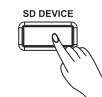
Connecting an SD Device

This piano is compatible with 16M to 32G FAT 16 or FAT 32 SD card. We recommend use SD card after formatting on piano. If not necessary, please do not edit the data that the piano backs up on the SD card.



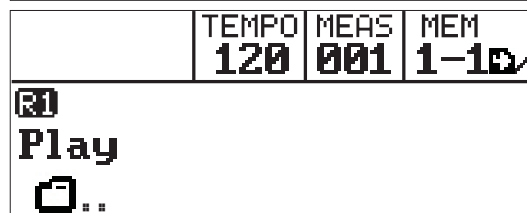
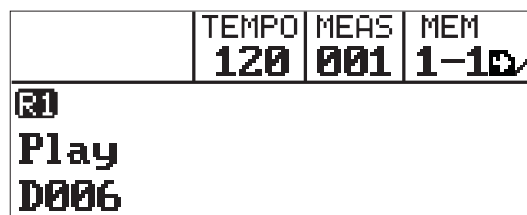
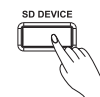
SD Device Operation

1. The function buttons related to SD card are: [SD DEVICE], [+ / YES], [- / NO], [START / STOP] and the data dial.
2. Press [SD DEVICE] button to enter SD card mode. Press [SD DEVICE] button again can quit that mode.
3. If the SD card has been inserted before pressing [SD DEVICE] button, the LCD will display a waiting notice, and the upper right corner of LCD will display SD card icon . If initializing succeeds, LCD will display "Play", the icon becomes . If initializing fails, the LCD will display "DiskErr", and the SD icon remains . If SD card is not inserted, the LCD will display "NoDisk", and the upper right corner of LCD does not display SD card icon.
4. In SD card mode, use data dial to select menu, press [+ / YES] button to proceed, press [- / NO] to go back.
5. In SD card mode, it can read a maximum of 512 files in one folder. Icon represents folder, and icon represents file.
6. In SD card mode, press [SD DEVICE], voice direct button and style direct button can exit SD card mode.
7. Press [MIXER] button can change the volume when playing MIDI file.
8. Loading, Save and Delete operations are intended for the file in "MMKD" folder.



Play

1. Press [SD DEVICE] button to enter SD card mode. Then use data dial to select "Play" menu.
2. Select the menu "Play" and press [+ / YES] button, LCD will display the name of MIDI files and sub directories in the root of the SD Device.
3. If you choose a sub-directory, press [+ / YES] button to open the folder, press [- / NO] to return to the parent directory. If LCD displays "..", pressing either [+ / YES] or [- / NO] will return to parent directory.
4. Use data dial to select a MIDI file, and then press [START / STOP] button to play it repeatedly. Press [+ / YES] button to play all files in the current directory circularly. Press [START / STOP] button again to stop playing.



Load

1. Press [SD DEVICE] button to enter SD card mode.
Then use data dial to select "Load" menu.
2. Press [+ / YES] to enter "load" sub menu. Load sub menu are displayed on LCD, it includes "LoadSong", "LoadSty" and "LoadMem". Use [+ / YES], [- / NO] button or data dial to select one.

Load Song:

1. Select the menu "LoadSong" and press [+ / YES] button, LCD displays the MIDI files (*.midi) in the MMKD\SONG directory of SD DEVICE. Use the data dial to select the file to load.
2. After selected the midi file, press [+ / YES] button, and then use the data dial to select user song number.
3. After selected the song number, press [+ / YES] button, and the LCD displays "Sure?". Press [+ / YES] again to confirm the loading operation. Press [- / NO] to cancel the operation.

Load Style

1. Select the menu "LoadSty" and press [+ / YES] button, LCD displays the style files (*.sty) in the MMKD\STYLE directory of SD DEVICE. Use the data dial to select the file to load.
2. After selected the style file, press [+ / YES] button then use the data dial to select user style number.
3. After selected the user style number, press [+ / YES] button, and the LCD displays "Sure?". Press [+ / YES] again to confirm the loading operation. Press [- / NO] to cancel the operation.

Load Memory

1. Select the menu "LoadMem" and press [+ / YES] button, LCD displays the memory files (*.mem) in the MMKD\MEMORY directory of SD DEVICE. Use the data dial to select the file to load.
2. After selected the memory file, press [+ / YES] button, and then use the data dial to select user memory number.
3. After selected the user memory number, press [+ / YES] button, and the LCD displays "Sure?". Press [+ / YES] again to confirm the loading operation. Press [- / NO] to cancel the operation.



	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> DiskMenu Load </div>			

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> Load LoadSong </div>			

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> LoadSong UserSong </div>			

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> DiskMenu LoadSty </div>			

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> DiskMenu LoadMem </div>			

Save

1. Press [SD DEVICE] button to enter SD card mode. Then use data dial to select "Save".
2. Press [+ / YES] to enter "Save" sub menu. It includes "SaveSong", "SaveSty" and "SaveMem". Use [+ / YES] / [- / NO] button or data dial to select one.




	TEMPO	MEAS	MEM
	120	001	1-10✓
<div> DiskMenu Save </div>			

Connecting an SD Device

Save user song:

1. Select the menu "SaveSong" sub menu and press [+ / YES] button, LCD displays the user song name and number. Use the data dial to select the file to save.
2. After selected the user song, press [+ / YES]. The LCD prompts to enter file name "SNG_". Now use keyboard to enter a file name of 8 character.
3. After entering the file name, press [+ / YES]. The LCD will prompt to confirm the operation: "Sure?". Press [+ / YES] again to save the file. Press [- / NO] to cancel the operation.
4. If you enters the same name to the song in SD card, the LCD prompts "SameName!". You need to enter a different name. The saving operations of user style and user song are just the same.


	TEMPO	MEAS	MEM
	120	001	1-10✓
<div>  </div> <div>Save</div> <div>SaveSong</div>			

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div>  </div> <div>SaveSong</div> <div>FSNG_</div>			

Delete

1. Press [SD DEVICE] button to enter SD card mode. Then use data dial to select "Delete".
2. Press [+ / YES] to enter "Delete" sub menu. It includes "UserSong", "UserSty" and "UserMem". Use [+ / YES] / [- / NO] button or data dial to select one.
3. Select a file type you want to delete. Press [+ / YES] to enter the corresponding menu.
4. Select a file you want to delete. Press [+ / YES], and the LCD displays "Sure?". Press [+ / YES] to confirm, and press [- / NO] to cancel the operation.




	TEMPO	MEAS	MEM
	120	001	1-10✓
<div>  </div> <div>Delete</div> <div>UserSty</div>			

Format

1. Press [SD DEVICE] button to enter SD card mode. Then use data dial to select "Format".
2. Press [+ / YES] to confirm that operation. LCD displays "Sure?", then press [+ / YES] to format, press [- / NO] to cancel that operation.

Note:

Formation will delete all data in SD card!

	TEMPO	MEAS	MEM
	120	001	1-10✓
<div>  </div> <div>DiskMenu</div> <div>Format</div>			

Keyboard and ASCII Character Relative Table

Note	C2	C#2	D2	Eb2	E2	F2	F#2	G2	Ab2	A2	Bb2	B2
Letter	Shift	DEL	Back	Next	A	B	C	D	E	F	G	H
Note	C3	C#3	D3	Eb3	E3	F3	F#3	G3	Ab3	A3	Bb3	B3
Letter	I	J	K	L	M	N	O	P	Q	R	S	T
Note	C4	C#4	D4	Eb4	E4	F4	F#4	G4	Ab4	A4	Bb4	B4
Letter	U	V	W	X	Y	Z	0	1	2	3	4	5
Note	C5	C#5	D5	Eb5	E5	F5	F#5	G5	Ab5	A5	Bb5	B5
Letter	6	7	8	9	!	#	\$	%	&	,	[]
Note	C6	C#6	D6	Eb6	E6	F6						
Letter	-	@	^	`	{	}						

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?

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

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

MIDI Terminals

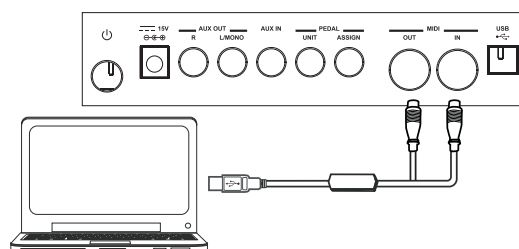
In order to exchange MIDI data between multiple devices, each device must be connected by a cable.

MIDI IN: Receives MIDI data from a computer.

MIDI OUT: Transmits the instrument information as MIDI data to another MIDI device.

Connect the MIDI OUT of other Device to the MIDI IN jack on the rear panel, this instrument will as sound module.

Connect the MIDI IN of other Device to the MIDI OUT jack on the rear panel. This instrument will work as a MIDI Controller.



Downloading Data from the Computer

Connect a standard USB cable between the rear-panel USB jack on the instrument and the USB jack on your computer.

Power on the instrument first, and then open the PCSUITE software in your computer, the "CONNECTING" will be displayed on LCD. The PCSUITE will connect successfully with the instrument.

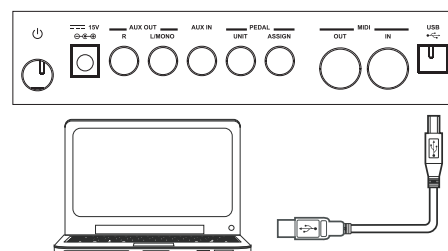
You can download 5 SMF MIDI files to the keyboard as user songs or upload the user songs.

You can upload user styles to the computer as a backup or download them to the keyboard.

You can upload user voices to the computer as a backup or download them to the keyboard.

You can upload memory files to the computer as a backup or download them to the keyboard.

Please refer to software operation instructions for detail operating methods.



Troubleshooting

Problem	Possible Cause and Solution
The speakers produce a “pop” sound whenever the power is turned ON or OFF.	This is normal and is no cause for alarm.
No sound when the keyboard is played.	The R1/R2/L1 voice volume (Mixer) settings could be set too low. Make sure the voice volumes are set at appropriate levels.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
The auto accompaniment does not play back even Sync is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Sync Start, make sure to play a key in the left-hand range of the keyboard.
Certain notes sound at wrong pitch.	Make sure that the tuning value is set to “0” . Press and hold the [+YES] and [-/NO] buttons at the same time, then turning the power on will set INSTRUMENT to default.
The Harmony function does not operate.	And Harmony cannot be turned on when a drum kit is selected for the voice R1.

Specifications

LCD Display

Multi-functional LCD

Keys

88 Hammer-Action Keys

Polyphony

128

Voices

583

Songs

125, including 5 user songs

Styles

235, including 5 user styles

Demos

5

Control button

Power Switch, Volume slider ,Brilliance slider, Styles, Tempo+/-, Acc Vol, Mixer, Function+/-, Start/Stop, Sync Start, Intro/Ending, Fill A, Fill B, Fill C, Fill D, Chord Mode, Voices, Dual, Split, SD Device, Metro, Twinova, Octave, Song, Bank, Store, M1-M4, O.T.S., Shift, Demo, +/Yes, -/No, data dial, pitch bend wheel

Record Function

Record, Accomp, Melody 1-5

Memory

32

Connectors

DC IN, Headphones, AUX IN, AUX OUT, Assign Pedal, Unit Pedal, MIDI IN, MIDI OUT, SD Jack

Power Supply

DC 15V IN

Speaker

4ohm 15WX2

8ohm 25WX2

Dimensions

1360(L)x370(W)x143(H)mm

Weight

20kg

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

No.	Name	LCD Name
PIANO		
1	Stereo Grand Piano	StGrdPno
2	Acoustic Grand Piano (wide) 1	GrandPnW
3	Acoustic Grand Piano (wide) 2	GrandPW2
4	Acoustic Grand Piano (dark)	GrandPnD
5	Octave Piano 1	OctPno1
6	Octave Piano 2	OctPno2
7	Dreamscape	Dreamscp
8	Piano & Strings	Pno&Str
9	Piano & Choir	Pno&Cho
10	Acoustic Grand Piano	GrandPno
11	Stereo Bright Piano	StBrPno
12	Bright Acoustic Piano	BritePno
13	Bright Acoustic Piano (wide) 1	BritePnW
14	Bright Acoustic Piano (wide) 2	BritePW2
15	Chorus Piano	ChoruPno
16	Piano Pad	PianoPad
17	Piano & Vibraphone	Pno&Vib
18	Electric Grand Piano	E.Grand
19	Electric Grand Piano (wide)	E.GrandW
20	Stereo Honk-Tonk	StHonkTo
21	Honky-tonk Piano	HnkyTonk
22	Honky-tonk Piano (wide) 1	HnyTonkW
23	Honky-tonk Piano (wide) 2	HnyTonW2
24	Stereo Hard Electric Piano	StHarEp
25	Detuned Electric Piano 1	DetunEP1
26	Detuned Electric Piano 2	DetunEP2
27	Detuned Electric Piano 3	DetunEP3
28	Electric Piano 1	E.Piano1
29	Electric Piano 2	E.Piano2
30	Electric Piano (wide) 1	EPnoW1
31	Electric Piano (wide) 2	EPnoW2
32	EP Legend	EPLegend
33	EP Phase	EPPhase
34	60's Electric Piano	60'sEP
35	Electric Piano 1 (velocity mix)	E.PnoV1
36	Electric Piano 2 (velocity mix)	E.PnoV2
37	Velocity Crossfade Electric Piano	VeCrosEP
38	Layered Electric Piano 1	LayerEp1
39	Layered Electric Piano 2	LayerEp2
40	Nylon Electric Piano	NylonEP
41	Warm Electric Piano	WarmEp
42	Cloudy Electric Piano	CloudyEp
43	Grand Harpsichord	GraHarps
44	Harpsichord 1	Harpsi
45	Harpsichord 2	Harpsi2
46	Harpsichord (wide)	HarpsiW
47	Harpsichord (octave mix) 1	HarpsiO
48	Harpsichord (octave mix) 2	HarpsiO2
49	Harpsichord Release	HarpsiR
50	Harpsichord (with key off)	HarpsiOf
51	Piano & Harpsichord	Pno&Harp
52	Stereo Clavichord	StClavi
53	Clavi 1	Clavi
54	Clavi 2	Clavi2

No.	Name	LCD Name
55	Clavi (wide) 1	ClaviW1
56	Clavi (wide) 2	ClaviW2
57	Clavi Wah	ClaviWa
58	Pulse Clavi	PluseClv
CHROMATIC PERCUSSION		
59	Celesta 1	Celesta
60	Celesta 2	Celesta2
61	Birght Celeasta	BirCelea
62	Celesta & Sine	Celes&Si
63	Reecho Bell	RechBell
64	Celesta & Music Box	Celes&MB
65	Glockenspiel 1	Glocken
66	Glockenspiel 2	Glocken2
67	Glockenspiel & Sine	Glock&Si
68	Glockenspiel & Celesta	Glock&Ce
69	Music Box 1	MusicBox
70	Music Box 2	MusicBo2
71	Music Box 3	MusicBo3
72	Toy Box	ToyBox
73	Music Box & Harp	Mbx&Harp
74	Stereo Vibrapho	StVibes
75	Rigid Vibraphone	RigVibe
76	Vibraphone 1	Vibra
77	Vibraphone 2	Vibra2
78	Vibraphone (wide) 1	VibraW
79	Vibraphone (wide) 2	VibraW2
80	Vibraphone & Bell	Bell&Vib
81	Vibraphone & Harpsichord	Vib&Harp
82	Marimba 1	Marimba
83	Marimba 2	Marimba2
84	Marimba (wide)	MarimbaW
85	Sine Marimba	SinMrmb
86	Stereo Marimba	StMarim
87	Marimba & Vibraphone	Mar&Vib
88	Wood Drum	WoodDrum
89	Xylophone 1	Xylophon
90	Xylophone 2	Xylopho2
91	Tubular Bells	TubulBel
92	Church Bell	ChurBell
93	Carillon	Carillon
94	Dulcimer	Dulcimer
95	Santur	Santur
96	Shorty	Shorty
ORGAN		
97	Drawbar Organ 1	DrawOrgn
98	Drawbar Organ 2	DrawOrg2
99	Soft Stereo Drawbar Organ	SfDrawOr
100	Mellow Drawbar Organ	MellDrOr
101	Detuned Drawbar Organ 1	DeDraOrg
102	Detuned Drawbar Organ 2	DeDraOr2
103	Italian 60's Organ	60'sOrgn
104	1970 Percussive Organ	1970PcOr
105	Percussive Organ 1	PercOrgn
106	Percussive Organ 2	PercOrg2
107	Light Click Organ	LClickOr

No.	Name	LCD Name
108	Detuned Percussive Organ	DePerOrg
109	Stereo Rotary Organ	StRotaOr
110	Rock Organ	RockOrgn
111	Rotary Organ	RotaOrgn
112	Slow Rotary Organ	SloRotOr
113	Detuned Church Organ	DeChuOrg
114	Church Organ 1	ChurOrgn
115	Church Organ 2	ChurOrg2
116	Church Organ (octave mix)	ChurOrgO
117	Reed Organ	ReedOrgn
118	Puff Organ	PuffOrgn
119	Accordion 1	Acordion
120	Accordion 2	Acordin2
121	Accordion 3	Acordin3
122	Chorus Accordion	ChAccord
123	Mustte	Mustte
124	Accord It Solo	AccordSo
125	Sweet Harmonica	SwetHarm
126	Harmonica 1	Harmnica
127	Harmonica 2	Harmnic2
128	Detuned Harmonica	DetHarmo
129	Tango Accordion	TangoAcad
GUITAR		
130	Acoustic Guitar (nylon) 1	NylonGtr
131	Acoustic Guitar (nylon) 2	NylonGt2
132	Acoustic Guitar (nylon + key off)	NylGtrOf
133	Ukulele	Ukulele
134	Velocity Nylon Guitar	NylnGtVe
135	Chorus Nylon Guitar	ChoNyGt
136	Bright Nylon Guitar	BrNyGt
137	Acoustic Guitar (steel) 1	SteelGtr
138	Acoustic Guitar (steel) 2	SteelGt2
139	Steel Guitar with Body Sound	SteelBdy
140	Tremolo Steel Guitar	TremGt
141	Mandolin	Mandolin
142	12-Strings Guitar	12StrGtr
143	Chorus Steel Guitar	ChoSteGt
144	Nylon & Steel Guitar	Ny&SteGt
145	Stereo Steel Guitar	StSteGt
146	Steel Guitar Bend	GtBend
147	Steel Guitar Harmonics	GtHarm
148	Velocity Steel Guita 1	VelSte1
149	Velocity Steel Guita 2	VelSte2
150	Velocity Steel Guita 3	VelSte3
151	Velocity Steel Guita 4	VelSte4
152	Electric Guitar (jazz) 1	JazzGtr
153	Electric Guitar (jazz) 2	JazzGt2
154	Electric Guitar (pedal steel)	PedalGtr
155	Mellow Guitar	MelloGt
156	Velocity Jazz Guitar	JazzGtVe
157	Jazz Guitar Detuned	JazzGtDt
158	Mid Tone Guitar	MidTonGt
159	Electric Guitar (clean) 1	CleanGtr
160	Electric Guitar (clean) 2	CleanGt2
161	Stereo Clean Guitar	StCleGtr

Voice List

No.	Name	LCD Name
162	Velocity Clean Guitar	CleGtVel
163	Electric Guitar (detuned clean)	DetClnGt
164	Electric Guitar (muted velo-sw)	MutVelGt
165	Electric Guitar (muted)	MutedGtr
166	Electric Guitar (funky cutting)	FunkGt
167	Jazz Man	JazzMan
168	Stereo Muted Guitar	StMuGt
169	Guitar Pinch	GtPinch
170	Overdriven Guitar	Ovrdrive
171	Detuned Overdriven Guitar	DtOdrvGt
172	Distortion Guitar 1	DistGtr
173	Distortion Guitar 2	DistGt2
174	Distortion Guitar (with feedback) 1	FeedbkGt
175	Distortion Guitar (with feedback) 2	FeedbkG2
176	Distorted Rhythm Guitar	DistRyth
177	5th Distortion	5thDist
178	Distortion Guitar Octave	DistGtO
179	Stereo Distorted Guitar	StDistor
180	Guitar Feedback	GtrFedbK
181	Guitar Harmonics	GtrHarmo
BASS		
182	Acoustic Bass 1	AcoBass
183	Acoustic Bass 2	AcoBass2
184	Acoustic Bass Detuned	AcosBaDt
185	Acoustic Bass Filter	AcBasFil
186	Jazz Style	JazzSty
187	A.Bass & Mute G.T.	Bs&GtMu
188	Resonant Bass	ResBass
189	Velocity Crossfade Bass	VelCBass
190	Wah Bass 1	WahBass1
191	Wah Bass 2	WahBass2
192	Electric Bass (finger) 1	FngrBass
193	Electric Bass (finger) 2	FngrBas2
194	Electric Bass (finger) 3	FngrBas3
195	Detuned Finger Bass	DtFngrBa
196	Dark Finger Bass	DarkFiBs
197	Finger Slap Bass	FngrSlap
198	Resonant Finger Bass	ResoFnBa
199	Wah Finger Bass	WahFnBs
200	Bass & Distorted Elec Guitar	Ba&DtEG
201	Electric Bass (pick) 1	PickBass
202	Electric Bass (pick) 2	PickBas2
203	Mute Pick Bass	MuPkBass
204	Detuned Pick Bass	DetPicBs
205	Fretless Bass 1	Fretless
206	Fretless Bass 2	Fretlss2
207	1990 Bass	90Bass
208	Fretless Bass & Sine	Fret&Sin
209	Fretless Bass Detuned 1	FretDet1
210	Fretless Bass Detuned 2	FretDet2
211	Fretless Bass Detuned 3	FretDet3
212	Slap Bass 1	SlapBas1
213	Slap Bass 2	SlapBas2
214	Slap Bass 3	SlapBas3
215	Slap Bass 4	SlapBas4

No.	Name	LCD Name
216	Power Slap Bass	PowSlap
217	Lash Thumb Bass	LashThm
218	Resonant Slap Bass	ResonSlp
219	Velocity Switch Slap Bass	VeloSSlp
220	Synth Bass 1	SynBass1
221	Synth Bass 2	SynBass2
222	Synth Bass 3 (resonance)	ResoBass
223	Synth Bass 4 (attack)	AtackBas
224	Synth Bass (warm)	WarmBass
225	Clavi Bass	ClavBass
226	Hammer	Hammer
227	Synth Bass (rubber)	RubbBass
228	Attack Pulse	AtackPls
STRINGS & ORCHESTRAL INSTRUMENTS		
229	The Violin	TheVin
230	Violin 1	Violin
231	Violin 2	Violin2
232	Violin (slow attack)	SlViolin
233	Mono Violin	MonoVin
234	Octave Violin	OctVin
235	Electric Violin	EViolin
236	Violin & Viola	Vin&Vio
237	Two Violin	TwoVin
238	Soft Violin	SoftVin
239	Velocity Violin	VelVioli
240	Viola 1	Viola
241	Viola 2	Viola2
242	Viola 3	Viola3
243	Dark Viola	ViolaD
244	Cello 1	Cello
245	Cello 2	Cello2
246	Cello 3	Cello3
247	Cello 4	Cello4
248	Celloen 16'	Celloen
249	Chamber Music	Chamber
250	Contrabass 1	Contrabs
251	Contrabass 2	Contrbs2
252	Tremolo Strings 1	TremStr
253	Tremolo Strings 2	TremStr2
254	Slow Tremolo Strings 1	SlwTrSt1
255	Slow Tremolo Strings 2	SlwTrSt2
256	Pizzicato Strings 1	PizzStr
257	Pizzicato Strings 2	PizzStr2
258	Octave Pizzicato	OctoPizz
259	Orchestral Harp 1	Harp
260	Orchestral Harp 2	Harp2
261	Yang Chin	YangChin
262	Africa	Africa
263	Timpani 1	Timpani
264	Timpani 2	Timpani2
ENSEMBLE		
265	The Strings	TheStr
266	String Ensembles 1	Strings1
267	String Ensembles 2	Strings2
268	Synth Strings 1	SynStrs1

No.	Name	LCD Name
269	Synth Strings 2	SynStrs2
270	Synth Strings 3	SynStrs3
271	Synth Strings 4	SynStrs4
272	Synth Strings 5	SynStrs5
273	Resonant Strings	ResonSt
274	Stereo Slow Strings	SSlowStr
275	Slow Strings	SlowStr
276	Strings and Brass	Str&Bras
277	Legato Strings	LegatStr
278	Orchestra	Orchstr
279	Arco Strings	ArcoStr
280	60's Strings	60'sStr
281	1970 Strings	70'Str
282	Solo Strings	SoloStr
283	Choir Aahs 1	ChoirAah
284	Choir Aahs 2	ChoirAh2
285	Choir Aahs 3	ChoirAh3
286	Choir Aahs 4	ChoirAh4
287	Mellow Choir	MelCho
288	Stereo Choir Aahs	StChoir
289	Strings & Choir	StrChoir
290	Humming	Humming
291	Voice Oohs	VoiceOoh
292	Analog Voice	AnaVoice
293	Synth Voice	SynVoice
294	Choral	Choral
295	Bass Hit Plus	BassHit
296	Orchestra Hit 1	OrchHit
297	Orchestra Hit 2	OrchHi2
298	Euro Hit	EuroHit
299	6th Hit	6thHit
BRASS		
300	Trumpet 1	Trumpet
301	Trumpet 2	Trumpet2
302	Trumpet 3	Trumpet3
303	Dark Trumpet Soft	DarkTrp
304	Resonant Trumpet	ResoTp
305	Sweet Trumpet	SweetTp
306	Wah Trumpet	WahTp
307	Trombone 1	Trombone
308	Trombone 2	Trmbone2
309	Bright Trombone	BritBone
310	Dark Trombone	DarkTrom
311	Strings & Trombone	Str&Trb
312	Tuba 1	Tuba
313	Tuba 2	Tuba2
314	Tuba Solo	TubaSolo
315	Soft Tuba	SoftTuba
316	Muted Trumpet 1	MuteTrp1
317	Muted Trumpet 2	MuteTrp2
318	French Horn 1	FrHorn
319	French Horn 2 (warm)	FrHorn2
320	French Horn 3	FrHorn3
321	Stereo French Horn	StFrHorn
322	Horn Orchestra	5thHornO

No.	Name	LCD Name
323	Brass Section 1	Brass
324	Brass Section 2 (octave mix)	Brass2
325	Brass Section 3	Brass3
326	Brass Section 4	Brass4
327	Brass Section 5	Brass5
328	Brass Swell	BrasSwel
329	Brass Band	BrasBand
330	Bright Brass Section	BrBraSec
331	Dark Brass	DarkBras
332	Mute Brass Ensemble	MuteEns
333	Sforzato Brass	SfrzBras
334	Brass & Strings	Bras&Str
335	Synth Brass 1	SynBras1
336	Synth Brass 2	SynBras2
337	Synth Brass 3	SynBras3
338	Synth Brass 4	SynBras4
339	Analog Synth Brass 1	AnaBras1
340	Analog Synth Brass 2	AnaBras2
341	Jump Brass	JumpBras
342	Octave Synth Brass	SynBraOc
343	Synth Brass & Strings 1	SyBr&St1
344	Synth Brass & Strings 2	SyBr&St2
345	Echo Brass	EchoBr
REED		
346	Soprano Sax 1	SprmoSax
347	Soprano Sax 2	SprnSax2
348	Soprano Sax Soft	SopSaxSf
349	Slow Soprano Sax	SlSopSax
350	Sweet Soprano Sax	SweSpSax
351	Alto Sax	AltoSax
352	Soft Alto Sax	SoftAlto
353	Super Alto Sax	SuprAlto
354	Sax Band	SaxBand
355	Tenor Sax 1	TenorSax
356	Tenor Sax 2	TenoSax2
357	Baritone Sax	BariSax
358	Soft Baritone Sax	SoftBari
359	Sweet Oboe	SwetOboe
360	Oboe 1	Oboe
361	Oboe 2	Oboe2
362	English Horn 1	EngHom
363	English Horn 2	EngHom2
364	Analog Horns	AnaHorns
365	Woodwinds	Woodwind
366	Bassoon 1	Bassoon
367	Bassoon 2	Bassoon2
368	Clarinet 1	Clarinet
369	Clarinet 2	Clarinet2
PIPE		
370	Piccolo	Piccolo
371	Flute	Flute
372	Sweet Flute	SweeFlut
373	Recorder	Recorder
374	Sweet Pan Flute	SwPanFu
375	Pan Flute	PanFlute

No.	Name	LCD Name
376	Dark Pan Flute	DarPanFu
377	Blown Bottle	Bottle
378	Shakuhachi	Shakhchi
379	Whistle 1	Whistle
380	Whistle 2	Whistle2
381	Ocarina	Ocarina
SYNTH LEAD		
382	Lead 1 (square)	SquareLd
383	Square	Square
384	Lead 1b (sine)	SineLead
385	Slow Square Lead	SlwSquLd
386	Sine Solo	SineSolo
387	Square Lead 1	SquarLd1
388	Lead 1a (square 2)	SquarLd2
389	Thick Square	ThickSqu
390	Corrie	Corrie
391	Quint	Quint
392	2 Oscillators Lead	2OscLd
393	Lead 2a (sawtooth 2)	SawLead2
394	Lead 2d (sequenced analog)	SquAnaLd
395	Wavy Sawtooth	WavySaw
396	Lead 2 (sawtooth)	SawLead1
397	Lead 2b (saw + pulse)	SawPlsLd
398	Super Analog	SuperAna
399	Big Lead	BigLead
400	Lead 2c (double sawtooth)	DubSawLd
401	Bauble Lead	BaubleLd
402	PWM 4th	PWM4th
403	Lead 3 (calliope)	CalliopLd
404	Lead 4 (chiff)	ChiffLd
405	Lead 5 (charang)	CharanLd
406	Lead 5a (wire lead)	WireLead
407	Lead 6 (voice)	VoiceLd
408	Lead 7 (fifths)	FifthsLd
409	Fifths Lead Soft	FifLdSf
410	Fifth Lead	FifLead
411	Lead 8 (bass + lead)	BassLead
412	Massiness	Massin
413	Lead 8a (soft wrl)	SfWrlLd
SYNTH PAD		
414	Pad 1 (new age)	NewAgePd
415	Slow Square	SlowSqu
416	New Year Pad	NewYrPd
417	Pad 2 (warm)	WarmPad
418	PWM Pad	PWMPad
419	Pad 2a (sine pad)	SinePad
420	Warmly Pad	WarmlyPd
421	Horn Pad	HornPad
422	Pad 3 (polysynth) 1	PolySyPd
423	Pad 3 (polysynth) 2	PolySyP2
424	Click Pad	ClickPd
425	Analog Pad	AnaloPad
426	Poly Pad	PolyPad
427	Pad 4 (choir)	ChoirPad
428	Pad 4a (itopia)	ItopiaPd

No.	Name	LCD Name
429	Pad 5 (bowed) 1	BowedPad
430	Pad 5 (bowed) 2	BowdPad2
431	Pad 6 (metallic) 1	MetalPad
432	Pad 6 (metallic) 2	MetaPad2
433	Pan Pad	PanPad
434	Pad 7 (halo) 1	HaloPad
435	Pad 7 (halo) 2	HaloPad2
436	Pad 8 (sweep) 1	SweepPad
437	Pad 8 (sweep) 2	SweePad2
438	Dipolar Pad	DipolPad
439	Rising	Rising
440	Congregate	Congrega
SYNTH SFX		
441	FX 1 (rain)	FXRain
442	FX 2 (soundtrack)	Soundtrk
443	Progenitor	Progenit
444	FX 3a (synth mallet)	SynMalet
445	FX 3 (crystal)	Crystal
446	FX 4 (atmosphere)	Atmosphr
447	Warm Air	WarmAir
448	FX 5 (brightness)	Bright
449	Smog	Smog
450	FX 6 (goblins)	Goblins
451	Choir Bell	ChoirBel
452	FX 7 (echoes) 1	Echoes
453	FX 7 (echoes) 2	Echoes2
454	FX 7a (echo bell) 1	EchoBell
455	FX 7a (echo bell) 2	EchoBel2
456	FX 7b (echo pan)	EchoPan
457	FX 8 (sci-fi)	Sci-Fi
ETHNIC MISC.		
458	Sitar 1	Sitar
459	Sitar 2 (bend)	Sitar2
460	Banjo	Banjo
461	Shamisen	Shamisen
462	Koto	Koto
463	Taisho Koto	TaishoKt
464	Kalimba	Kalimba
465	Bag Pipe	Bagpipe
466	Fiddle	Fiddle
467	Shana	Shanai
PERCUSSIVE		
468	Tinkle Bell	TnkIBell
469	Agogo	Agogo
470	Steel Drums	SteelDrm
471	Woodblock	WoodBlk
472	Castanets	Castanet
473	Taiko Drum	TaikoDum
474	Concert Bass Drum	ConBasDm
475	Melodic Tom 1	MelodTom
476	Melodic Tom 2 (power)	MeldTom2
477	Synth Drum	SynDrum
478	Rhythm Box Tom	RhythBox
479	Electric Drum	ElecDrum
480	Reverse Cymbal	RevCymb

Voice List

No.	Name	LCD Name
SFX		
481	Guitar Fret Noise	FretNoiz
482	Guitar Cutting Noise	GtCtNoiz
483	Acoustic Bass String Slap	BsStSlap
484	Breath Noise	BrthNoiz
485	Flute Key Click	FlKeyClk
486	Seashore	Seashore
487	Rain	Rain
488	Thunder	Thunder
489	Wind	Wind
490	Stream	Stream
491	Bubble	Bubble
492	Bird Tweet 1	Tweet
493	Dog	Dog
494	Horse Gallop	HouseGlp
495	Bird Tweet 2	Tweet2
496	Sheep	Sheep
497	Telephone Ring 1	Telephone
498	Telephone Ring 2	Telephon2
499	Door Creaking	DoorCrek
500	Door	Door
501	Scratch	Scratch
502	Wind Chime	WindChim
503	Helicopter	Helicptr
504	Car Engine	CarEngin
505	Car Stop	CarStop
506	Car Pass	CarPass
507	Car Crash	CarCrash
508	Siren	Siren
509	Train	Train
510	Jetplane	Jetplane
511	Starship	Starship
512	Burst Noise	BurtNois
513	Applause	Applause
514	Laughing	Laughing
515	Screaming	Scream
516	Punch	Punch
517	Heart Beat	HeartBet
518	Footsteps	Footstep
519	Gunshot	Gunshot
520	Machine Gun	MachnGun
521	Lasergun	Lasergun
522	Explosion	Explosio
COMBINED VOICE		
523	Stereo Piano & Strings Pad	StPn&Str
524	Stereo Piano & Choir	StPn&Cho
525	Stereo Piano & Synth Strings	StPn&Syn
526	Stereo Piano & Warm Pad	StPn&Pad
527	Stereo Piano & Soft Ep	StPn&Ep
528	FM Electric Piano	FMEp
529	Digital Piano	DigiPn
530	E.Piano & Strings	EP&Str
531	E.Piano & Ac Guitar	EP&Gt
532	E.Piano & Vibraphone	Ep&Vib
533	E.Piano 2 & Pad	Ep&Pad

No.	Name	LCD Name
534	E.Piano 2 & Strings	Ep2&Str
535	Harpichord & Stereo Strings	Harps&St
536	Music Box & Stereo Strings	Mxb&Str
537	Vibraphone & Stereo Strings	Vib&Str
538	Vibraphone Octave	VibOct
539	Vibraphone & Marimba & Kalimba	VibMK
540	Marimba & Kalimba	Mar&Kal
541	Marimba Delay	MarDel
542	Xylophone Octave	XylopOct
543	Organ & Stereo Strings	Org&Str
544	Stereo Organ & Piano	StOr&Pno
545	Rock Organ & Strings	RoOr&Str
546	Church Organ & Choir	ChuOr&Ch
547	Church Organ & Strings	ChuOr&St
548	Acoustic Guitar & Flute	Gt&Fl
549	Acoustic Guitar & Clav	Gt&Cl
550	24 String Guitar	24Gt
551	Steel Guitar & Warm Pad	StGt&Pad
552	Stereo Strings & Horn	StStr&Hn
553	Orchestra	Orchest
554	Full Strings 1	FullStr1
555	Full Strings 2	FullStr2
556	Symphonic	Symphon
557	Stereo Choir & Strings	StCh&Str
558	Stereo Choir & Steel Guitar	Ch&Gt
559	3 Trumpet Loose	3Trump
560	Trombone & Stereo Strings	Tb&StStr
561	3 Trombones Loose	3Tromb
562	3 Muted Trumpets Loose	3MuTrumb
563	Club Brass	ClubBras
564	Brass & Woodwinds	Br&Wood
565	Woodwinds & Strings	Wind&Str
566	Section Woods Small	WoodSma
567	Pan Flute & Strings Pad	PanFu&St
568	Koto & Shamisen	Koto&Sh
ORIENTAL INSTRUMENTS		
569	Kanoun	Kanoun
570	Aoud	Aoud
571	Bouzouk	Bouzouk
572	Nay	Nay
573	Mizmar	Mizmar
DRUM SET		
574	Standard Set	StandSet
575	Room Set	RoomSet
576	Power Set	PowerSet
577	Electronic Set	ElectSet
578	Analog Set	AnalgSet
579	Jazz Set	JazzSet
580	Brush Set	BrushSet
581	Orchestra Set	OrcheSet
582	SFX Set	SFXSet
583	Arabic Set	ArabiSet

No.	Name	LCD Name
8 BEAT		
1	8Beat Piano	8BtPiano
2	8Beat 1	8Beat1
3	8Beat Shuffle	8BtShuf
4	Guitar Pop 1	GtPop1
5	8Beat Hip Hop	8BtHiHop
6	8Beat R&B	8BeatR&B
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
16 BEAT		
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	16BDanc
28	Pop 16Beat 2	Pop16Bt2
29	16Beat 2	16Beat2
30	Pop 16Beat 3	Pop16Bt3
31	Pop 16Beat 4	Pop16Bt4
32	Modern 16Beat	Modrn16B
33	16Beat Hot	16BtHot
34	16Beat Modern	16BModr
35	16Beat Funk 3	16BtFuk3
36	16Beat 3	16Beat3
37	Cool Beat	CoolBeat
38	16Beat Ballad 2	16BtBld2
39	16Beat 4	16Beat4
40	Pop Shuffle	PopShuf
POP		
41	Pop Rock 1	PopRock1
42	Pop Dance 1	PopDanc1
43	Pop Fusion	PopFusn
44	Analog Night 1	AnalgNt1
45	6/8 Pop	6/8Pop
46	Brit. Pop 1	BritPop1
47	Brit. Pop 2	BritPop2
48	Pop Hit	PopHit
49	Fusion Shuffle	FusShuf
50	Analog Night 2	AnalgNt2
51	Guitar Pop 3	GtPop3
52	Pop Beat	PopBeat

No.	Name	LCD Name
53	Soft Beat	SoftBeat
54	60's Pop	60'sPop
55	Sting Latin	StigLatn
BALLAD		
56	R&B Ballad 1	R&BBad1
57	Guitar Ballad	GtBallad
58	Ballad Rock	BalladRk
59	Piano Pop	PianoPop
60	Soft Ballad	SoftBald
61	Natural Ballad	NatuBld
62	Love Ballad	LoveBld
63	Easy Ballad	EasyBld
64	Miami Ballad	MiamiBld
65	Slow Ballad	SlowBald
66	Folk Ballad	FolkBld
67	Pop Ballad 1	PopBld1
68	Pop Ballad 2	PopBld2
69	EP Ballad	EPBallad
70	New R&B Ballad	NewRBBld
ROCK		
71	Rock	Rock
72	New Wave	NewWave
73	Ska	Ska
74	Pop Rock 2	PopRock2
75	Slow Rock	SlowRock
76	70's Rock & Roll	70'sRock
77	Folk Rock	FolkRock
78	Soft Rock	SoftRock
79	Old Rock	OldRock
80	Easy Rock	EasyRock
81	New Shuffle	NewShuf
82	Rock Hip Hop	RkHipHop
83	Rock&Roll 1	R'N'R1
84	Rock Shuffle	RockShfl
85	Rock & Roll 2	R'N'R2
BALLROOM		
86	Tango 1	Tango1
87	Spain Matador	Matador
88	Twist 1	Twist1
89	Twist 2	Twist2
90	Big Band Fox	BandFox
91	Tango 2	Tango2
92	Slow Fox	SlowFox
93	Slow Waltz 1	SlowWltz1
94	Swing Fox	SwingFox
95	Salsa 1	Salsa1
96	Cha Cha 1	ChaCha1
97	Cha Cha 2	ChaCha2
98	Beguine 1	Beguine1
99	Beguine 2	Beguine2
100	Rumba 1	Rumba1
101	Samba 1	Samba1
102	Samba 2	Samba2
103	Jive	Jive
104	Fox Trot	FoxTrot

No.	Name	LCD Name
DANCE		
105	Techno 1	Techno1
106	Hip Hop 1	HipHop1
107	Dream Dance	DrmDance
108	House	House
109	Pop Dance 2	PopDanc2
110	Down Beat	DownBeat
111	Techno 2	Techno2
112	Progressive	Progress
113	Rap 1	Rap1
114	Rap 2	Rap2
115	Disco	Disco
116	Soft Disco	SoftDisc
117	Disco Party	DscParty
118	70's Disco	70'sDisc
119	70's Disco Funk	70'sFunk
120	Club Dance	ClubDanc
121	Euro Dance	EuroDanc
122	Hip Hop 2	HipHop2
123	Garage	Garage
SOUL & FUNK		
124	Funk 1	Funk1
125	Classic Funk	ClasFunk
126	Jay R&B	JayR&B
127	Gospel Swing	GopSwing
128	Gospel	Gospel
129	Funk 2	Funk2
130	Electric Funk	ElecFunk
131	Groove Funk	GrooveFk
132	Rubber Funk	RubberFk
133	Cool Funky	ColFunky
134	Jazz Funk	JazzFunk
135	Groove	Groove
136	Soul	Soul
137	Hip Hop Soul	HipHopSl
138	Hip Hop Beat	HipHopBt
139	R&B	R&B
140	Soul Beat	SoulBeat
141	R&B Ballad 2	R&BBld2
142	British Soul Pop	BritSoul
SWING&JAZZ		
143	Latin Jazz 1	LatinJz1
144	Big Band	BigBand
145	Dixieland 1	Dixland1
146	Guitar Swing 1	GtSwing1
147	Broadway Big Band	BwayBand
148	Swing	Swing
149	Latin Jazz 2	LatinJz2
150	Fusion	Fusion
151	Acid Jazz	AcidJazz
152	Cool Jazz Ballad	CoolJzBd
153	Swing Shuffle	SwingSfl
154	Big Band Medium	BandMid
155	Dixieland 2	Dixland2
156	Acoustic Jazz	AcoustJz

Style List

No.	Name	LCD Name
157	Guitar Swing 2	GtSwing2
158	Ragtime	Ragtime
159	Modern Jazz Ballad	MdJzBald
160	Swing Ballad	SwingBal
161	Orchestra Swing	OrhSwing
COUNTRY		
162	Country Pop 1	CntyPop1
163	Bluegrass 1	Bluegrs1
164	Country 8Beat	Ct8Beat
165	Modern Country	ModernCt
166	Country Pop 2	CntyPop2
167	Bluegrass 2	Bluegrs2
168	2/4 Country	2/4Cntry
169	Country Quick Steps	QuickStp
170	Country Folk	CntyFolk
171	Country Shuffle	CnyShufi
LATIN & LATIN DANCE		
172	Samba 3	Samba3
173	Bossa Nova	BosaNov
174	Latin	Latin
175	New Reggae	NewRegga
176	Dance Reggae	DanRegga
177	Pasodoble	Pasodobl
178	Lite Bossa	LteBossa
179	Latin Rock	LatinRock
180	Beguine 3	Beguine3
181	Slow Bolero	SlBolero
182	Disco Samba	DscSamba
183	Mambo	Mambo
184	Meneito	Meneito
185	Rumba 2	Rumba2
186	Rumba 3	Rumba3
187	Tikitikita	Tikitikta
188	Lambada	Lambada
189	Pop Cha Cha 1	PChaCha1
190	Pop Cha Cha 2	PChaCha2
191	Salsa 2	Salsa2
WALTZ & TRADITIONAL		
192	Waltz	Waltz
193	Old Waltz	OldWaltz
194	English Waltz	EngWaltz
195	German Waltz	GernWaltz
196	Italian Mazurka	ItaMazuk
197	Mexico Waltz	MexWaltz
198	ViennaWaltz	VinaWltz
199	Slow Waltz 2	SlwWltz2
200	Jazz Waltz	JzWaltz
201	Polka	Polka
202	6/8 March	6/8March
203	German Polka	GerPolka
204	Party Polka	PtyPolka
205	Army March	ArmMarch
206	March	March
207	US March	USMarch

No.	Name	LCD Name
208	Musette	Musette
209	French Musette	FMusette
210	Mazurke	Mazurke
WORLD		
211	Enka Ballad	EnkaBald
212	Laendler	Laendler
213	Hawaiian	Hawaiian
214	Sirtake	Sirtake
215	Dangdut	Dangdut
216	6/8 Flipper	6/8Flipp
217	New Age	NewAge
218	Tarantella	Tarantel
219	Scottish	Scottish
220	Norteno	Norteno
ARAB		
221	Zarb 6/8	Zarb 6/8
222	Zarb Tempo	ZarbTemp
223	Bandary	Bandary
224	Zarb Daf	Zarb Daf
225	Pop 2/4	Pop 2/4
226	Saidi IR	Saidi IR
227	Cifte	Cifte
228	Baladi	Baladi
229	Masmoudi	Masmoudi
230	Wehda	Wehda

No.	Name	LCD Name
FOLK & COUNTRY		
1	Red River Valley	RedRiver
2	Troika	Troika
3	Susanna	Susanna
4	Wave of Danube	Danube
5	Long Long Ago	LongAgo
6	Country	Country
7	Bridge	Bridge
8	In The Rain	Rain
9	Killing Me Softly With His Song	Sft Song
10	Santa Lucia	SantaLuc
11	Jambalaya	Jambalay
12	Ding! Dong! Merrily On High	DingDong
13	Battle Hymne Of The Republic	Battle
14	The Old Gray Mare	GrayMare
15	American Patrol	USPatrol
16	Christmas Is Coming	IsComing
17	Sippin`Cider Through A Straw	SCTStraw
18	Christmas Sound	Sound
GOLDEN & POP		
19	On London Bridge	LdBridge
20	Are You Lonesome Tonight	Lonesome
21	Only You	OnlyYou
22	End Of The World	EndWorld
23	House Of Rising Sun	HouseSun
24	Solveig's Song	Solveig
25	The Blue-Bells Of Scotland	BlueBell
26	Over The Rainbow	Rainbow
27	Beautiful Dreamer	Dreamer
28	It'S Been A Long Long Time	LongTime
29	Edelweiss	Edelweis
30	O Sole Mio	OSoleMio
31	Der Deitcher's Dog	DerDDog
32	Joy to The World	JoyWorld
33	Silent Night	SltNight
34	Ave Maria	AveMaria
35	Five Hundred Miles	FHMiles
36	Happy New Year	HappyNY
37	It's Beginning To Look A Lot Like Christmas	LikeXmas
38	Jeanie With The Light Brown Hair	LighHair
39	My Bonnie	MyBonnie
40	Song Of The Pearlfisher	SongOfTP
41	Summer Palace	SummerPa
42	Go Tell It On The Mountain	GoTellIt
43	Entertainer	Entertai
44	Annie Laurie	AnnieLau
45	Rumba Romance	Romance
46	El Bimbo	ElBimbo
47	Last Rose Of Summer	LastRose
48	The Old King Cole	OldKingC
CLASSICAL		
49	Pianosonatan 08 IN Cm IN Pathetique	Piano08
50	Brahms Waltz	BrmsWalz
51	Aida	Aida

No.	Name	LCD Name
52	Carmen-Prelude	Carmen2
53	L'Arlesienne	L'Arlesi
54	Ungarische Tanz	Ungaris
55	Mazurka	Mazurka
56	Pizzicato Polka	Polka
57	Menuett	Menuett
58	Rigoletto	Rigolett
59	Serenade	Serenade
60	Song Without Words	SongNoWd
61	Swan	Swan
62	Prelude To Act 2 (Swan Lake)	SwanLak1
63	Valse (Swan lake)	SwanLak2
64	The Happy Farmer	HpFarmer
65	The Sleeping Beauty	SleepBty
66	La Traviata	LaTravia
67	Wiegenlied	Wiegenli
68	Mov.2 Adagio Non Troppo	Sonata9
69	Piano Sonata No.9 In D	Sonata11
	Mov.1 Andante Grazioso Piano Sonata	
	No.11 In A [Alla TurSonata11ca]	
70	Prelude In C	Prelude
71	Chinese Dance	ChDance
72	Emperors Waltz	EmprWalz
73	March Militaire	MillMar1
74	Symphony No.40	Symphony
JAZZ & FUSION		
75	ShanZhaShu	ShanZhaS
76	You Are My Sunshine	MySun
77	June Samba	JunSamba
78	Funk	Funk
79	I Can.....	I Can...
80	Sea Shore	SeaShore
81	Guitar&Saxphone	Gt&Sax
82	The Hip Hop's Night	HipHopNt
83	Blue Lunch	BluLunch
84	Cobweb	Cobweb
85	Wine	Wine
86	Jazz Old Man	JzOldMan
87	Dark Eyes	DarkEyes
88	Carlos	Carlos
89	Sad	Sad
90	The Jazz	TheJazz
PIANO		
91	Fur Elise	FurElise
92	Military March	MMarch
93	Habanera	Habanera
94	Minuet	Minuet
95	Austria Variation	AVariati
96	Old Macdonald Had A Farm	OldAFarm
97	Wedding March	Wedding
98	2-Part Invention #13 In A Minor.B.W. Iii	Invtion
99	Minuet In G	MinuetG
100	Turkish March	TurkishM
101	Hey Diddle Diddle	HeDiddle

Song List

No.	Name	LCD Name
102	Italian Polka	ItaPolka
103	Moseta Dance	MosetaDn
104	Bulie Dance	BulieDn
105	Fantasia	Fantasia
106	Wild Rose	WildRose
107	Away In A Manger	AwayInAM
108	Jack & Jill	JackJill
109	Angles We Have Heard On High	Angles
110	Waltz	Waltz
111	Did You Ever See A Lassie	Lassie
112	Chopsticks	Chopstik
113	Four Little Swans	FLSwans
114	Old France	OldFranc
115	Jesus Saviour Pilot Me	PilotMe
116	Eclogue	Eclogue
117	Santa Claus Is Coming To Town	SantaCT
118	Brave Cavalier	Cavalier
119	America The Beautiful	USFair
120	Music Box Dancer	Dancer

Demo List

No.	Name	LCD Name
1	Funk	Funk
2	Ballad	Ballad
3	Dream of freedom	Dream
4	Jazz	Jazz
5	Fusion	Fusion

Chord Name (Abbreviation)	Normal Voicing	Chord	Display
Major [M]	1-3-5	C	C
Major sixth [6]	1-(3)-5-6	C6	C6
Major seventh [M7]	1-3-(5)-7	CM7	CM7
Major seventh sharp eleventh [M7#11]	1-(2)-3-#4-(5)-7	CM7#11	CM7#11
Major add ninth [Madd9]	1-2-3-5	Cmadd9	CM(9)
Major ninth [M9]	1-2-3-(5)-7	CM9	CM7(9)
Major sixth add ninth [6 9]	1-2-3-(5)-6	C6 9	C6(9)
Augmented [aug]	1-3-#5	Caug	Caug
Minor [m]	1-b3-5	Cm	Cm
Minor sixth [m6]	1-b3-5-6	Cm6	Cm6
Minor seventh [m7]	1-b3-(5)-b7	Cm7	Cm7
Minor seventh flatted fifth [m7b5]	1-b3-b5-b7	Cm7b5	Cm7b5
Minor add ninth [madd9]	1-2-b3-5	Cmadd9	Cm(9)
Minor ninth [m9]	1-2-b3-(5)-b7	Cm9	Cm7(9)
Minor eleventh [m11]	1-(2)-b3-4-5-(b7)	Cm11	Cm7(11)
Minor major ninth [mM7]	1-b3-(5)-7	CmM7	CmM7
Minor major ninth [mM9]	1-2-b3-(5)-7	CmM9	CmM7(9)
Diminished [dim]	1-b3-b5	Cdim	Cdim
Diminished seventh [dim7]	1-b3-b5-6	Cdim7	Cdim7
Seventh [7]	1-3-(5)-b7	C7	C7
Seventh suspended fourth [7sus4]	1-4-5-b7	C7sus4	C7sus4
Seventh flatted fifth [7b5]	1-3-b5-b7	C7b5	C7b5
Seventh ninth [7 9]	1-2-3-(5)-b7	C7 9	C7(9)
Seventh sharp eleventh [7#11]	1-2-3-#4-(5)-b7 or 1-(2)-3-#4-5-b7	C7#11	C7(#11)
Seventh thirteenth [7 13]	1- 3-(5)-6-b7 or 2- 3-5-6-b7	C7 13	C7(13)
Seventh flatted ninth [7b9]	1-b2-3-(5)-b7	C7b9	C7(b9)
Seventh flatted thirteenth [7b13]	1-3-5-b6-b7	C7b13	C7(b13)
Seventh sharp ninth [7#9]	(1)-#2-3-(5)-b7	C7#9	C7(#9)
Major seventh augmented [M7aug]	1-3-#5-7	CM7aug	CM7aug
Seventh augmented [7aug]	(1)-3-#5-b7	C7aug	C7aug
Suspended fourth [sus4]	1-4-5	Csus4	Csus4
One plus two plus five [1+2+5]	1-2-5	C1+2+5	C

MIDI Implementation Chart

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

- Mode 1: OMNI ON, POLY
- Mode 2: OMNI ON, MONO ○: YES

- Mode 3: OMNI OFF, POLY
- Mode 4: OMNI OFF, MONO ×: NO