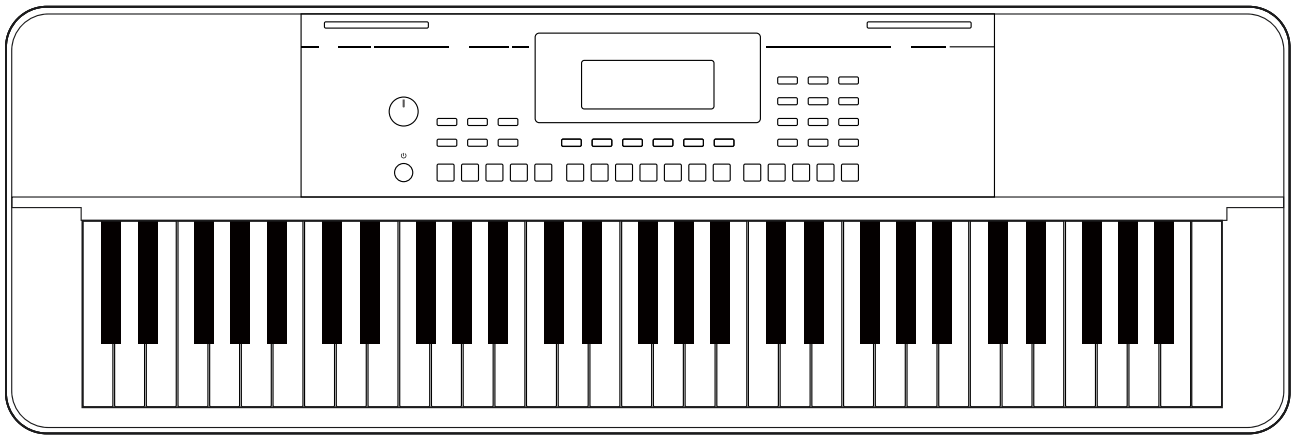


MEDELI



MK110

MUSIC KEYBOARD
OWNER'S MANUAL

Important Messages

Please read this page carefully before operating and keep this manual properly for convenient reference in the future.

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 this product may be subject to strong electromagnetic interference. Should the circumstances arise, please follow the relevant instructions in this manual to restore the product to its default settings. Otherwise, try moving the product to another location.

PACKING LIST

Dear customer, please double-check the following items upon receiving the package:

- This instrument
- 12V power adapter
- Assembly kit
- Owner's manual
- Warranty

Power supply

Please connect the power adapter provided in the package to a power socket with the correct voltage. DO NOT connect to power sources with unmatched voltages. Unplug this device during thunderstorms or when the device is not in active use.

Connections

Power off all devices before making connections. This will effectively prevent potential malfunctioning & damage.

Precautions

To avoid deformation, discoloration or other more serious damages, DO NOT place this instrument in:

- direct sunlight
- extremely hot environments or too close to a heat source (such as a heater)
- severe cold such as snowy and icy outdoors
- dusty environments, or places with high temperatures, high humidity, or unstable locations where strong vibrations or displacements may occur
- proximity of strong electromagnetic fields

Interference

To avoid unwanted interference, please keep this instrument at a proper distance from televisions, radios, and cell phones.

Maintenance

Use only soft, dry cloth for cleaning. DO NOT use thinners, solvents, detergents, or wipes soaked with chemicals. DO NOT apply excessive force when handling switches & knobs.

This instrument is safe for use in tropical climates with a maximum operating temperature of 45°C.

The maximum operating altitude is determined by the selected model of the power adapter.

Handling

Please avoid getting scraps of paper, metal, or other materials inside this instrument. If this happens, unplug this unit and have it checked by a qualified maintenance personnel.

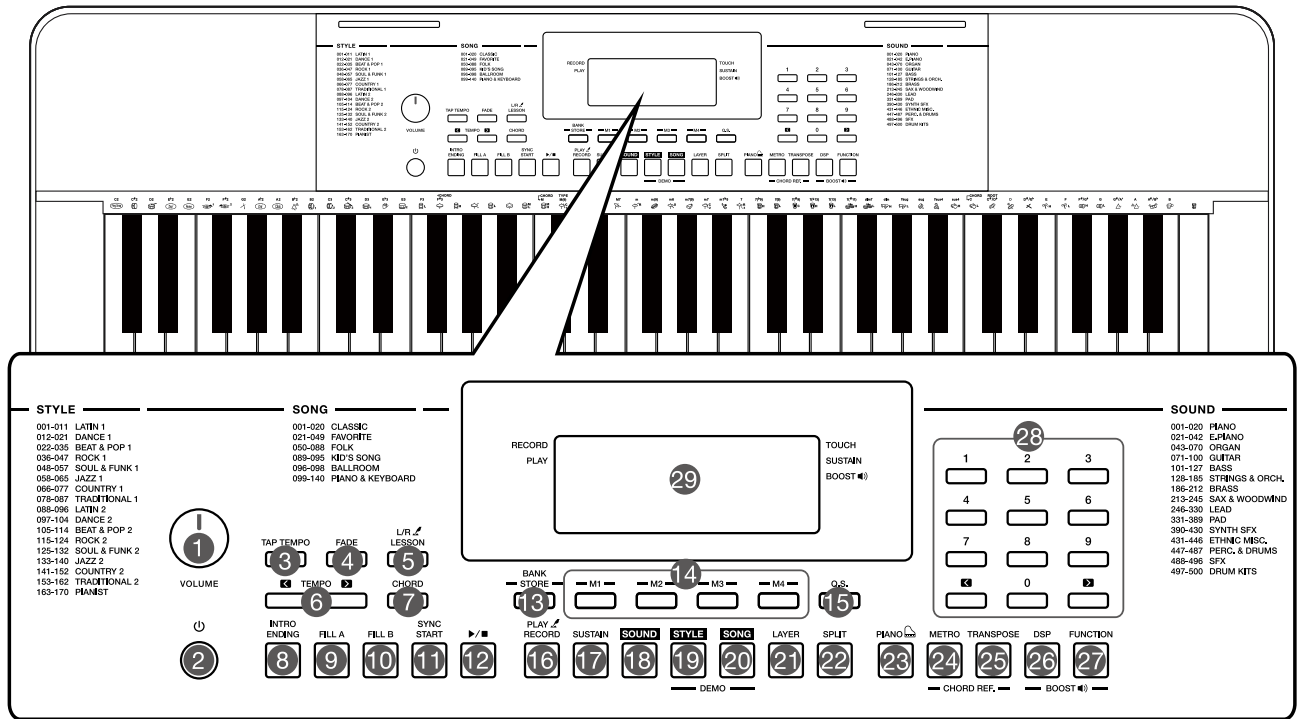
Also, unplug this unit before moving it to another location.

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Panel & Display Description

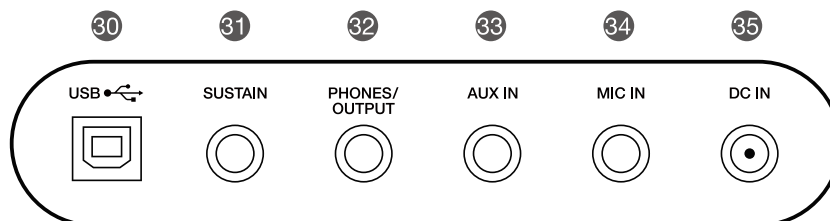
Front Panel



1. **[VOLUME] Knob**
Adjust the master volume.
2. **[ϕ] Switch**
Turn the Power on or off.
3. **[TAP TEMPO] Button**
Press to control the tempo.
4. **[FADE] Button**
Turn the Fade In/Out function on or off.
5. **[L/R] Button**
Choose to practice the left hand or right hand part.
6. **[TEMPO </>] Buttons**
Adjust the current tempo value.
7. **[CHORD] Button**
Enter the Chord Mode.
8. **[INTRO/ENDING] Button**
Play the Intro or Ending pattern.
9. **[FILL A] Button**
Play the fill-in pattern A.
10. **[FILL B] Button**
Play the fill-in pattern B.
11. **[SYNC START] Button**
Turn the Sync Start function on or off.
12. **[START/STOP] Button**
Start or stop playing the style or song.
13. **[BANK] Button**
Switch between memory banks.
14. **[M1]~[M4] Buttons**
Recall the registered panel settings.
15. **[STORE] Button**
Register the current panel settings.

15. **[Q.S.] Button**
Turn the Quick Setting function on or off.
16. **[RECORD] Button**
Enter the Record Mode.
- [PLAY] Button**
Play back the recording.
17. **[SUSTAIN] Button**
Turn the sustain function on or off.
18. **[SOUND] Button**
Switch to Sound Mode.
19. **[STYLE] Button**
Switch to Style Mode.
Press [STYLE] and [SONG] at the same time to enter Demo Mode.
20. **[SONG] Button**
Switch to Song Mode.
Press [STYLE] and [SONG] at the same time to enter Demo Mode.
21. **[LAYER] Button**
Turn the layer function on or off.
22. **[SPLIT] Button**
Turn the split function on or off.
23. **[PIANO] Button**
Turn on the Piano Mode.
24. **[METRO] Button**
Turn the metronome on or off.
Press [METRO] and [TRANSPOSE] at the same time to enter Chord ref. Mode.
25. **[TRANSPOSE] Button**
Adjust the Transpose value.
Press [METRO] and [TRANSPOSE] at the same time to enter Chord ref. Mode.
26. **[DSP] Button**
Turn the DSP effect on or off.
Press [DSP] and [FUNCTION] at the same time to enter Sound Boost Mode.
27. **[FUNCTION] Button**
Enter the function menu.
Press [DSP] and [FUNCTION] at the same time to enter Sound Boost Mode.
28. **[<]/[>] and Number Buttons**
Set parameters value or select the number.
29. **LCD Display**
Display all parameters and values related to the current operation.

Rear Panel



30. [USB] Jack

Connect to a computer.

31. [SUSTAIN] Jack

Connect a sustain pedal.

32. [PHONES/OUTPUT] Jack

Connect a pair of headphones or an audio equipment.

33. [AUX IN] Jack

Connect an external audio source, such as MP3 or CD player.

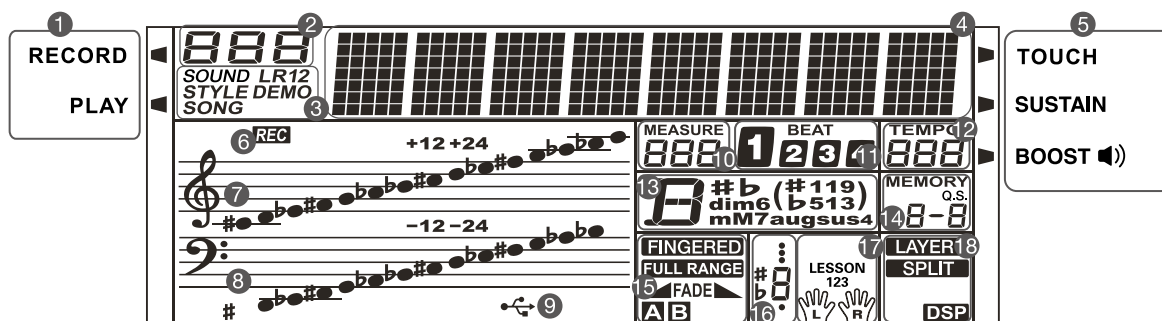
34. [MIC IN] Jack

Connect a microphone.

35. [DC IN] Jack

Connect the DC 12V power adapter.

Display



1. RECORD/PLAY

2. NUMBER

3. SOUND/STYLE/DEMO/SONG

4. CHARACTER

5. TOUCH/SUSTAIN/SOUND BOOST

6. RECORD

7. TREBLE CLEF

8. BASS CLEF

9. USB

10. MEASURE

11. BEAT

12. TEMPO

13. CHORD

14. MEMORY/Q.S.

15. FINGERED/FULL RANGE/FADE/A/B

16. NOTE INDICATION

17. LESSON

18. LAYER/SPLIT/DSP

Setup

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

Power Supply

You can power the instrument either by batteries or by power adaptor. Follow the instructions described below.

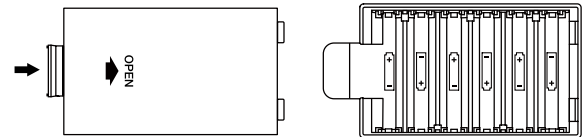
Using Batteries

The instrument needs 6 pieces of AA or equivalent alkaline batteries for power supply.

1. Open the battery cabinet cover located on the bottom of the instrument.
2. Insert the batteries, carefully following the polarity markings on the cabinet.
3. Replace the cabinet cover. Make sure it locks firmly in place.

Note:

1. Do not mix using any used and new batteries.
2. Always use the same types of batteries.
3. Remove the batteries when the instrument is not in use for a long period of time.

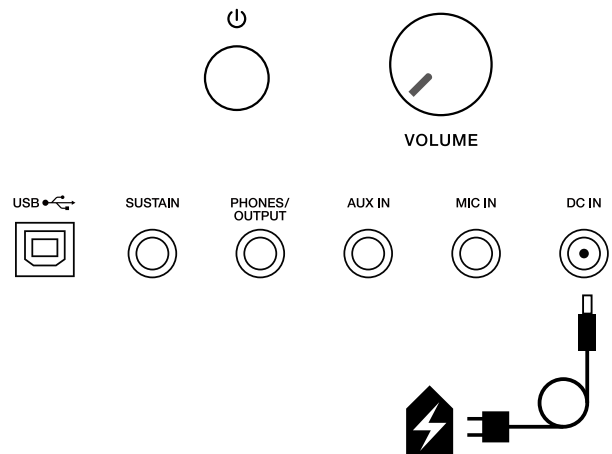


Using Power Adapter

1. Turn down the volume before connecting to power supply.
2. Connect the adaptor to the DC IN jack of the instrument.
3. Plug the adaptor into an AC outlet. This will automatically cut off the battery power supply.

Note:

1. In order to save energy, the instrument will automatically shut down after 15 minutes if it is not used. (Please refer to Auto Power Off).
2. For your safety, please unplug the instrument when it is not in use or during a thunderstorm.

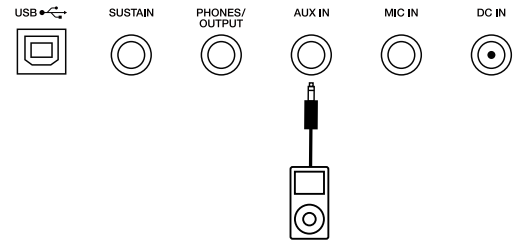


Connections

The Connecting an MP3/CD Player

The rear-panel AUX IN jack receives audio signals from an external audio source such as an MP3 or a CD player.

Use an audio cable to connect the AUX IN jack of the instrument to the OUTPUT jack of the MP3/CD player. The instrument's speakers will play the music transmitted from the external player, and you can play along.



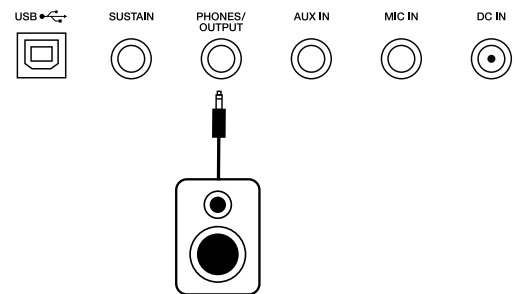
Connecting an Audio Equipment

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

Use an audio cable to connect the PHONES/OUTPUT jack of the instrument to the INPUT jack of the external audio equipment.

Notes:

1. Turn off the power to all units before connecting or disconnecting the external equipment.
2. To avoid damaging the speakers, please set the master volume to minimum level before turning on the power.

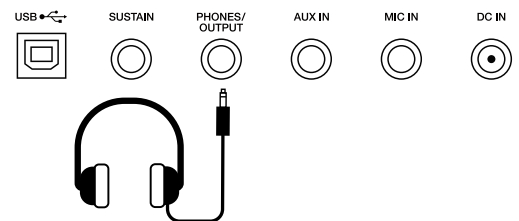


Connecting a pair of Headphones

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

Note:

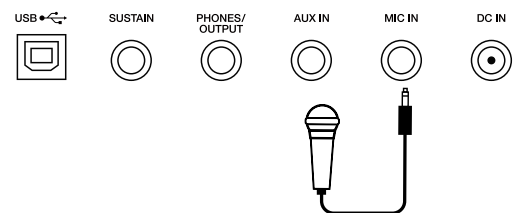
Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.



Connecting a Microphone

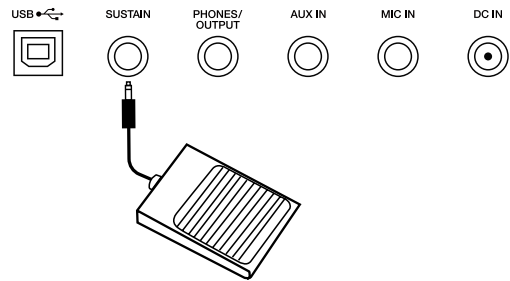
You can plug a microphone to the MIC jack to sing along with your keyboard performance or song playback.

1. Set the master volume to minimum level before connecting or disconnecting a microphone.
2. Plug a microphone into the MIC jack.
3. Adjust the master volume to an appropriate level.



Connecting a Sustain Pedal

An optional footswitch can be plugged into the sustain jack and be used to switch sustain on or off. Simply by pressing the pedal, you will have a natural sustain as you play.

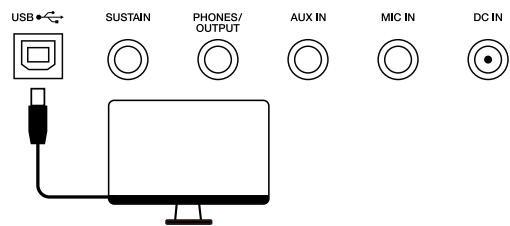


Connecting a Computer

Use a standard USB cable to connect the USB jack of the instrument to the USB port of a computer. You can transmit MIDI messages between the instrument and the computer.

Notes:

1. Do not set the USB device to be input and output simultaneously when setting the software on the computer. Otherwise, the sound will be overlapped when playing the keyboard.
2. We recommend using a USB2.0 interface to connect the instrument to computer.

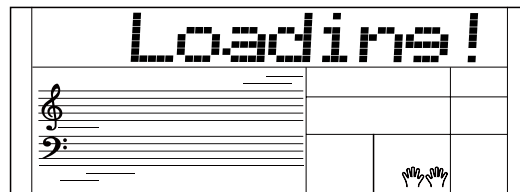


Power Switch and Master Volume

Power Switch

Before you switch your instrument on, please turn down the volume of instrument and the connected audio equipment first.

1. Make sure the instrument is properly connected to power supply.
2. Press POWER SWITCH, the LCD screen is lit, and displays "Loading!", indicating the instrument is powered on.

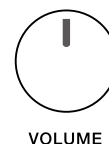


Master Volume

Rotate the [VOLUME] knob clockwise to increase the master volume or counter-clockwise to decrease it. You can use the knob to set the desired volume level.

Note:

If the speakers do not produce sound, please check if the master volume is set too low or headphone is plugged into the PHONES jack.



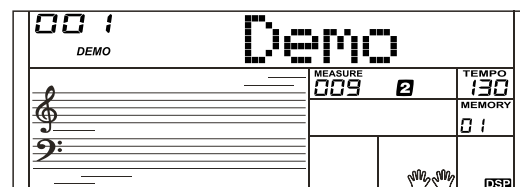
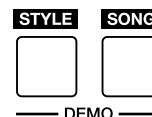
Playing the Demos

The instrument features one demo song to demonstrate the tonal qualities of the instrument.

1. Press the [STYLE] and [SONG] buttons simultaneously to enter Demo mode. The screen will display "Demo", and the demo song will start playing after 1-bar countdown.
2. Press the [STYLE] and [SOUND] buttons simultaneously again or press the [START/STOP] button to stop playing and exit the demo mode.

Note:

While In Demo mode, most panel functions will be disabled.



Playing the Sounds

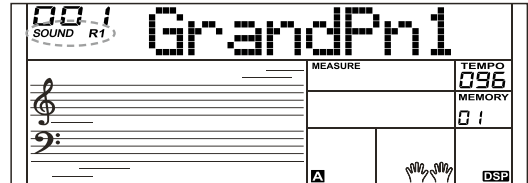
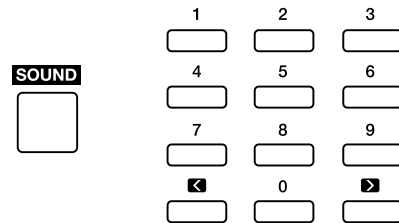
The instrument features a variety of exceptionally realistic sounds. Please refer to Sound List.

Playing a Sound

1. Press the [SOUND] button.
Enter the SOUND mode. LCD shows "SOUND R1", the sound number and the sound name.
2. Select a sound.
Use the number keys, the [←]/[→] buttons to select the sound you want to play.
3. Play the sound.
Play the keyboard and enjoy the beautiful sound.

Note:

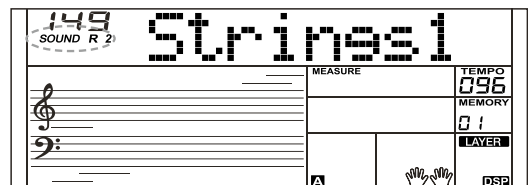
When the LAYER and SPLIT function is on, you can press [SOUND] button repeatedly to choose the sound source. The corresponding LCD indicator will highlight between R1, R2, and L.



Playing Two Sounds Simultaneously - LAYER

1. Press the [LAYER] button to turn on the layer function. LCD shows "SOUND R2", the layer sound number and name.
2. Use the number keys, the [←]/[→] buttons to select a sound for SOUND R2.
3. Play the keyboard, you will hear two different sounds layered together, just like two different instruments being played at the same time.
4. Press the [LAYER] button again to turn off the layer function.

LAYER

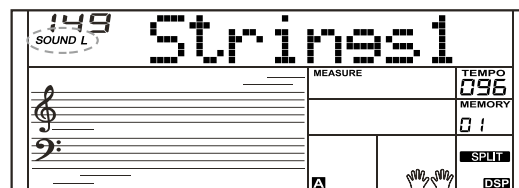


Playing Different Sounds with Both Hands - Split

The Split function splits the keyboard into two areas so as to create different sounds for each of your hands. The left hand sound is the split sound “L” .

1. In idle mode, press the [SPLIT] button to turn the split function on. The LCD displays the left hand sound name and number, and the indicator “SOUND L” and “SPLIT”.
2. Use the number keys, the [<|/|>] buttons to select a sound for SOUND L.
3. Play the keyboard with both hands, and you will hear two different sounds.
4. Press the [SPLIT] button again to turn off the split function.

SPLIT

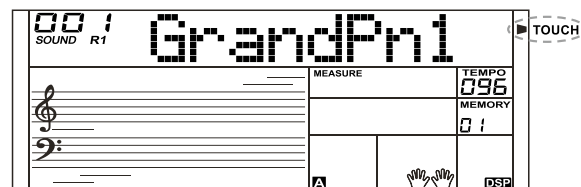


Split Point

The key on the keyboard that separates sound L and sound R1/R2 is called the “split point”. The default split point is at F#3 (19) , however you can assign it to any other key. Refer to the Function Menu.

Touch

The keyboard is equipped with a touch response feature that lets you dynamically and expressively controls the level of the sound with your playing strength – just as on an acoustic instrument. Please refer to the function menu to adjust the touch level.



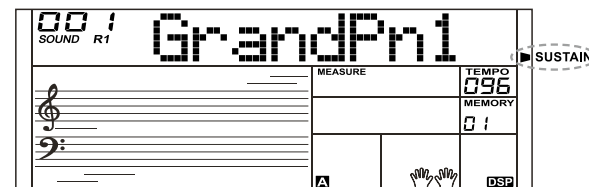
Sustain

When the Sustain feature is ON, all notes played on the keyboard will have a longer sustain. Press the [SUSTAIN] button to turn sustain on or off.

Note:

When using a sustain pedal, you can produce a much stronger and more natural sustain effect than by using the [SUSTAIN] button.

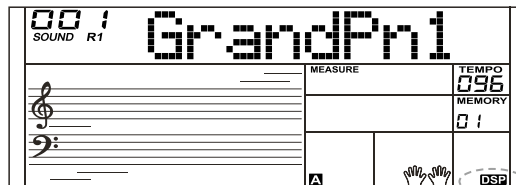
SUSTAIN



DSP Effect

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

The function is turned on by default. You can press the [DSP] button to turn DSP effect on or off.

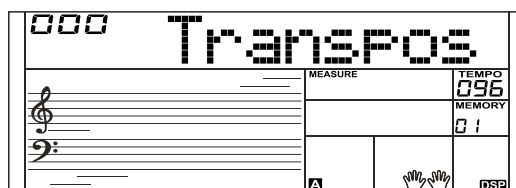
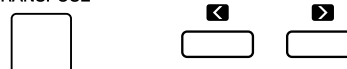


Transpose

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

1. the [TRANPOSE] button to enter transpose menu. The LCD shows the current transpose value.
2. Use [<|/|>] buttons to adjust the transpose value.
3. Press the [<] and [>] buttons simultaneously to reset the transposition to 0.

TRANPOSE



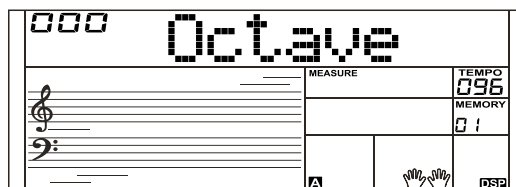
Octave

The octave function will shift the pitch of the specified sound layer up or down in the step of an octave.

You can refer to the function menu to adjust the octave value.

Note:

After adjusting the octave, notes in the highest and lowest keyboard range may not sound normally.

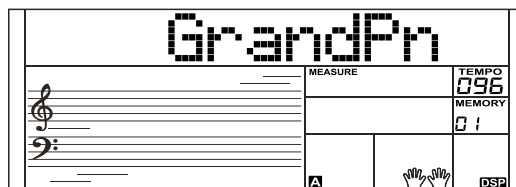


PIANO 



Piano Mode

Press [PIANO] button to enter the piano mode, which can set the sound of the entire keyboard to piano instantly.



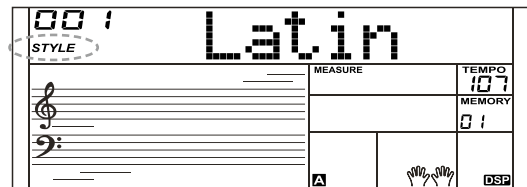
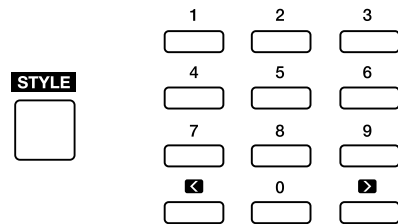
Auto Accompaniment

The auto accompaniment function puts a full backing band at your fingertips. All you have to do is to play chords with your left hand, and 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.

The instrument features a variety of styles, please refer to the Style List. Try selecting the different styles and enjoy the auto accompaniment.

Selecting a Style

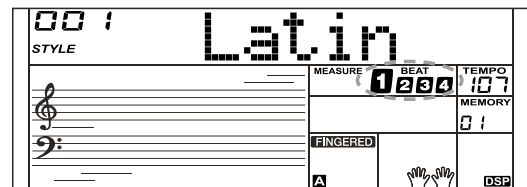
1. Press the [STYLE] button.
Enter the STYLE mode. LCD shows "STYLE", the style number and the style name.
2. Use the number keys, the [<]/[>] buttons to select the style you want to play.
3. Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment.



Sync Start

When style stops, press the [SYNC START] button to turn on the function. The beats on LCD will flash along with the tempo.

1. In Sync Start mode, if the CHORD function is turned off, you can press a key on the keyboard to start playing auto accompaniment of the rhythm track.
2. In Sync Start mode, if the CHORD function is in use, you can press a key on the chord range of the keyboard to start playing auto accompaniment of all tracks.



Intro/Ending

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

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

1. Press the [STYLE] button.
2. Select a style.
3. Turn the Chord Mode on.
4. Turn SYNC START on.
5. Press the [INTRO/ENDING], the "A" or "B" flashes on LCD, 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 switched to main A or B section.
7. Press the [INTRO/ENDING] again to play the ending section. When the ending is finished, the auto accompaniment automatically stops.

Note:

If you press [FILL A] or [FILL B] before the ending is finished, it will play a fill-in then switch to the corresponding main section.

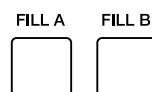
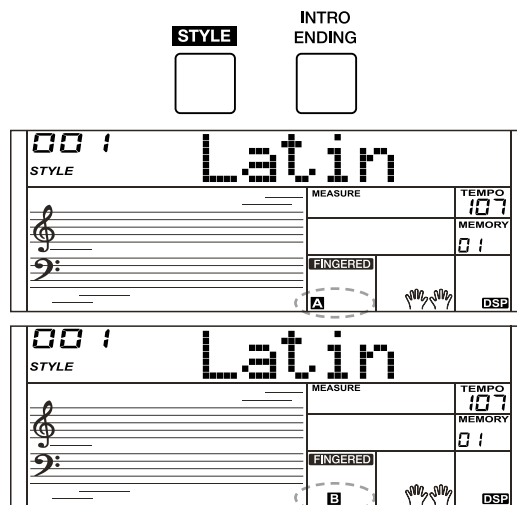
Playing a Fill

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).

Note:

If you keep pressing [FILL A]/[FILL B] buttons during style playback, the fill-in pattern will repeat playing until the button is released. Playback will then shift to the related MAIN section.

When style stops, press the [FILL A]/[FILL B] buttons to select a MAIN section. "A or B" will highlight on LCD.



Fade In/Out

Fade In

Starting the style with fade in produces a smooth beginning, the volume increases from low to high. Press the [FADE] button when Style is stopped, LCD will show FADE. Press the [START/STOP] button to start Style playing. LCD will show ▲FADE.

The Accompaniment Volume will change from 0 to the set value in about 8 seconds. The keyboard volume will change from 0 to default value at the same time.

Fade Out

Stopping the style with fade out produces a smooth ending, the volume decreases from high to low. Press the [FADE] button during Style playing. LCD will show FADE ▾.

The Accompaniment Volume will change from the set value to 0 in about 8 seconds, and the style stops.



Tempo

Each style of the instrument has been programmed with a default tempo; however, you can change it as needed.

1. Use the [TEMPO <]/[TEMPO >] buttons to change the tempo. The value ranges from 5 to 280.
2. Hold down the [TEMPO <]/[TEMPO >] buttons to change the tempo quickly.
3. Press the [TEMPO <] and [TEMPO >] buttons simultaneously to restore the default tempo setting.

You can also use the Tap Tempo feature to change the current tempo, which is an efficient way to get the desired tempo.

1. When the Style is playing, you can press the [TAP TEMPO] button several times to change the tempo.
2. When the Style stops, press the [TAP TEMPO] button several times in succession, and the Style will start playing at the tempo you tapped.



Chord Mode

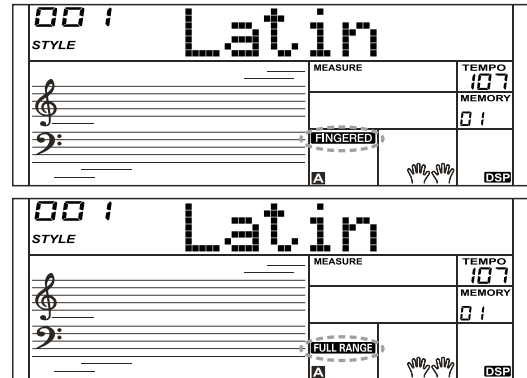
1. Press the [CHORD] button, the LCD will display the “FINGERED” indicator by default. The left hand section of the keyboard is the chord section. You can play different chords in the chord section.

If you want to change the chord detection mode, please refer to the function menu to set the chord mode.

2. Play chords in the chord section, and the LCD will display the corresponding chord names.

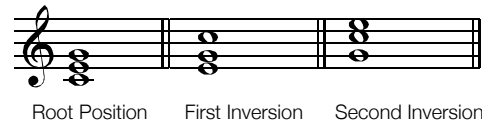
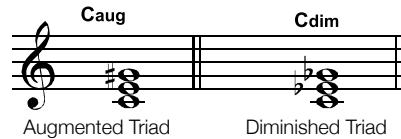
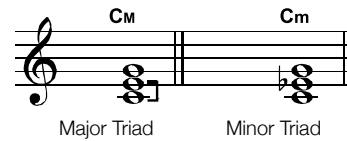
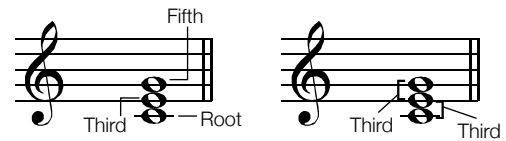
3. Split Point Setting
Please refer to the function menu to set the split point. The split point and the keys to its left all belong to the chord section.

CHORD



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 notes, from lowest pitched tone to highest, are called: the Root, the Third, and the Fifth.



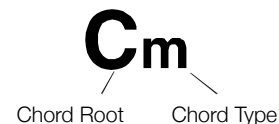
Triad Type

There are following basic triad types:

Button	Operation
Major Triad	A root with a major third added above and a perfect fifth forms a “Major Triad”.
Minor Triad	A root with a minor third added above and a perfect fifth forms a “Minor Triad”.
Augmented Triad	A root with a major third added above and an augmented fifth forms an “Augmented Triad”.
Diminished Triad	A root with a minor third added above and a diminished fifth forms a “Diminished Triad”.

Chord Inversion

We define a chord as an “inversion chord” when its root is not in the bass (i.e., the root is not the lowest note). When the root is the lowest note, the chord is called a “root-position chord”. If either the Third or the Fifth takes the place of the root as the lowest note, the chord is considered an ‘inversion’ and is referred to as an ‘inversion chord.’ Below are examples of a major triad and its inverted forms.



Chord Name

The chord name contains two parts: Chord Root and Chord Type.

Single Finger





Single Finger mode detects both single and normal fingerings. The single fingering allows for playing chords with than three keys, including major, minor, seventh, and minor seventh chords. Refer to the chart on the right for details.
































Multi-finger

Multi-Finger mode detects only normal fingering. Refer to the chart on the right for the 32 available C chords.

Note:

Full Range mode detects normal fingering for the entire keyboard, not limited to the left-hand chord section.

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.

1 C 	2 C ₆ 	3 CM ₇ 	4 CM ₇ (#11) 	5 CM(9) 	6 CM ₇ (9) 	7 C ₆ (9) 	8 Caug 
9 Cm 	10 Cm ₆ 	11 Cm ₇ 	12 Cm ₇ (b5) 	13 Cm(9) 	14 Cm ₇ (9) 	15 Cm ₇ (11) 	16 CmM ₇ 
17 CmM ₇ (9) 	18 Cdim 	19 Cdim ₇ 	20 C ₇ 	21 C ₇ sus4 	22 C ₇ (b5) 	23 C ₇ (9) 	24 C ₇ (#11) 
25 C ₇ (13) 	26 C ₇ (b9) 	27 C ₇ (b13) 	28 C ₇ (#9) 	29 CM ₇ aug 	30 C ₇ aug 	32 C ₁₊₂₊₅ 	

Notes enclosed in parentheses (⊕) are optional; the chords could be recognized without them.

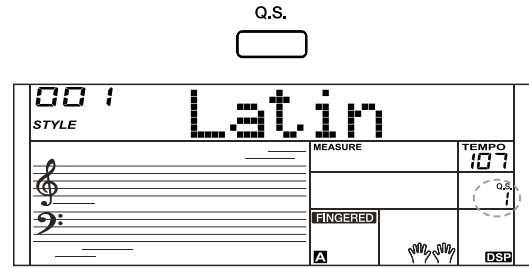
Quick Setting

When Quick Setting is switched on, you can instantly recall all auto accompaniment related settings including sounds selection and digital effects simply with a single touch of a button.

1. Press the [Q.S.] button to turns on the Quick Setting for current style. LCD shows "Q.S.".
2. Press one of the [M1]-[M4] buttons, various panel settings (such as sound, effect, etc.) that match the selected style can be instantly recalled.
3. CHORD mode is automatically turned on during Q.S. mode.
4. Press the [Q.S.] button again to quit

Note:

In Q.S. mode, the memory is not selectable.

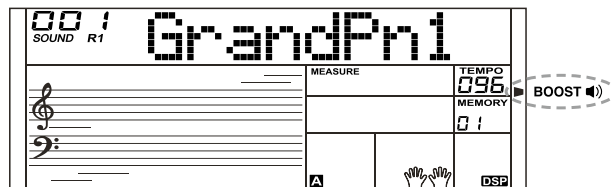
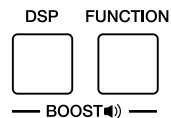


Sound Boost

Turn on Sound Boost Mode

This keyboard includes a Sound Boost feature that enhances performing and listening experiences. To turn on the Sound Boost mode, simply press the [DSP] and [FUNCTION] buttons together.

The corresponding icon in the upper right corner of the screen will be lit.



Metronome

Turning on the Metronome

Press the [METRO] button to turn on the metronome.
 Press the [METRO] button again to turn off the metronome.
 Press the [TEMPO <] / [TEMPO >] buttons to change the tempo of the metronome.

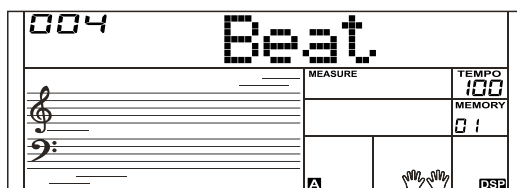
You can also use the Tap Tempo feature to change the current tempo.



Selecting the Beat

You can set the beat type in the function menu, please refer to the function menu for details.

If you turn on the metronome during style playback, the metronome sound will start from the next beat and its beat will match the current style. When style stops, you can change the metronome beat as desired. The metronome is not usable in song mode.



Function Menu

Press the [FUNCTION] button to enter the function menu. The LCD displays the current parameter item.



Press repeatedly the [FUNCTION] button to select an item, then use the [<]/[>] buttons to change the value of the selected item.

Parameter items and the value range in the function menu:

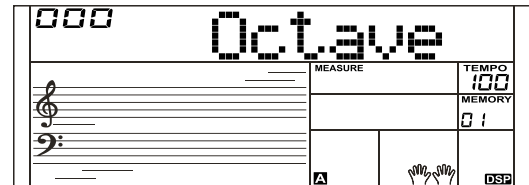
Parameter Item	LCD Display	Range
Octave	XXX Octave	-2 - 2
Split Point	XXX Split Pt	1 - 61
ChordMod	XXX ChordMod	1, 2
Beat Type	XXX Beat	0, 2 - 9
Accompaniment Volume	XXX Accomp	0 - 32
Touch	XXX Touch	OFF, 0 - 3
Tune	XXX Tune	-50 - 50
Reverb Level	XXX Rev Lev	0 - 127
Chorus Level	XXX Chr Lev	0 - 127
Auto Power Off	XXX PowerOff	OFF, 15, 60

Note:

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

Octave

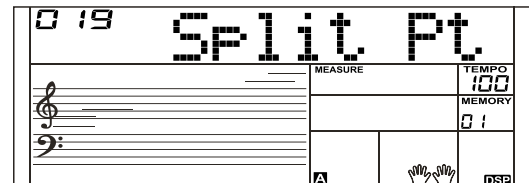
1. Repeatedly press the [FUNCTION] button to select the octave menu. The LCD displays "Octave". Use the [<]/[>] buttons to change the value over the range of -2 - 2.
2. Pressing [<] and [>] buttons at the same time will reset the octave value to default "000".



Split Point

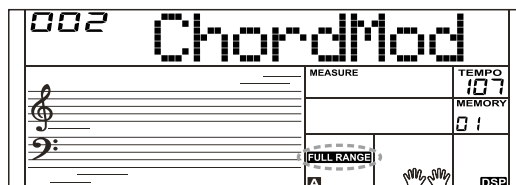
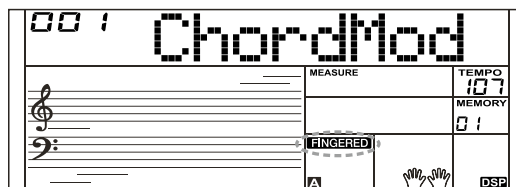
The Point on the keyboard that separates sound L and sound R1/R2 is called the "split point". Left hand section controls the auto bass chord accompaniment when the CHORD function is on, or it plays the lower sounds when the CHORD function is off.

1. Repeatedly press the [FUNCTION] button to select split point menu. The LCD displays "Split Pt". Use [<]/[>] buttons to change Split Point. The range of Split Point is: 1~61.
2. Press [<]/[>] buttons simultaneously will set the split point value to its default setting: F#3 (19).



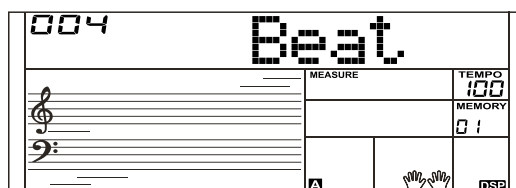
Chord Mode Setting

1. Repeatedly press the [FUNCTION] button to select the Chord Mode. The LCD displays “ChordMod”. Then you can select the chord mode by using the [<]/[>] buttons. This function provides two chord modes for you to choose from.
2. The default mode is “FINGERED”, where the left hand area of the keyboard will be used as the chord detection area. The keys you press in the chord detection area will determine the type of chord you play.
3. When switching to 002, “FULL RANGE” full keyboard mode, the full keyboard will be the chord detection zone, and only multi-fingering chord detection is supported at this time.



Beat Type

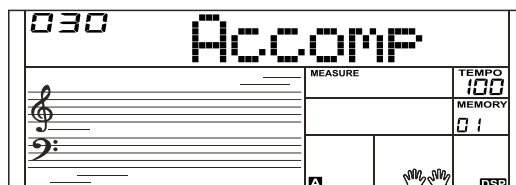
1. Repeatedly press the [FUNCTION] button to select the beat menu. The LCD displays “Beat”. Use the [<]/[>] buttons to change the beat type.
2. Pressing [<] and [>] buttons at the same time will reset the beat type to default “004”.



Accompaniment Volume

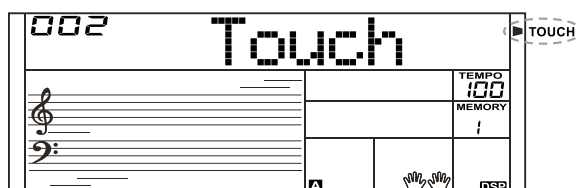
The function adjusts the accompaniment volume.

1. Repeatedly press the [FUNCTION] button to enter the function menu, and when the LCD displays “Accomp”, you can adjust the volume level over the range of 0-32. LCD will show the current volume level.
2. In the function menu, press both [>] and [<] buttons simultaneously to mute the accompaniment part. LCD shows “OFF Accomp”. Press both buttons again to unmute the accompaniment volume.



Touch

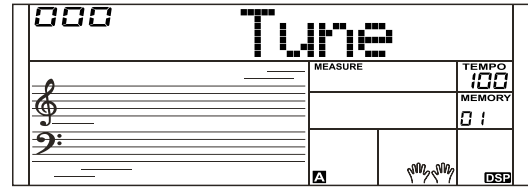
1. Repeatedly press the [FUNCTION] button to select the touch menu. The LCD displays “Touch”. Use the [<]/[>] buttons to change the touch level.
2. Pressing [<] and [>] buttons at the same time will reset the touch level to default “002”.



Tune

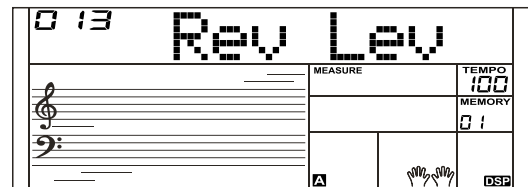
The function adjusts the pitch of the entire keyboard in a 2-cent increment.

1. Repeatedly press the [FUNCTION] button to select the tune menu. The LCD displays “Tune”.
Use the [<|/>] buttons to change the value over the range of -50 - +50.
2. Pressing [<] and [>] buttons at the same time will reset the tune value to default “000”.
The setting applies to both accompaniment and the sound.



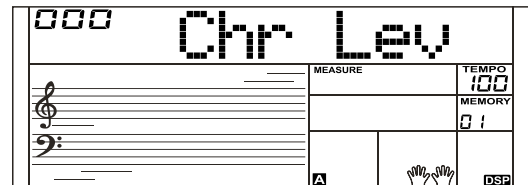
Reverb Level

1. Repeatedly press the [FUNCTION] button to select the reverb level menu. The LCD displays “Rev Lev”.
Use the [<|/>] button to adjust the level over the range of 0-127.
2. Pressing [<] and [>] buttons at the same time will reset the reverb level to default.



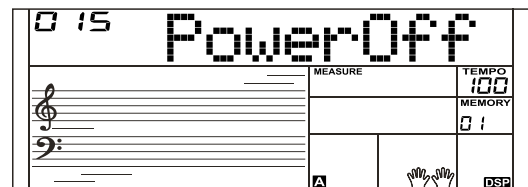
Chorus Level

1. Repeatedly press the [FUNCTION] button to select the chorus level menu. The LCD displays “Chr Lev”. Use the [<|/>] button to adjust the level over the range of 0-127.
2. Pressing [<] and [>] buttons at the same time will reset the chorus level to default.



Auto Power Off

1. Repeatedly press the [FUNCTION] button to select the power off menu. The LCD displays “PowerOff”.
Use the [<|/>] button to change the time setting.
2. Pressing [<] and [>] buttons at the same time will reset the setting to default “015” (15 min).



Performance Memory

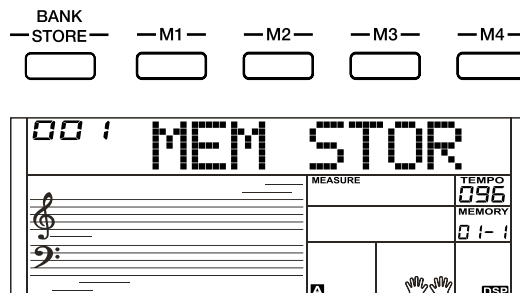
The Performance Memory feature allows you to save virtually all panel settings to a performance memory, and you can instantly recall them by pressing a single button.

The instrument has 4 memory banks, and each bank has 4 memories (M1-M4).

1. Hold down [STORE] button, then press one of the memory buttons [M1] - [M4] to save the panel settings. The LCD will display "MEM STOR" and the new settings will replace the previous memory data.
2. Press one of the memory buttons [M1] - [M4] to recall the panel settings saved to that memory.
3. You can save following parameters to the memory:
 Sound Parameter: sound, layer, DSP.
 Accompaniment Parameter: style, tempo, and chord no/off, accompaniment sections.
 Function Parameter: touch, some parameters in the function menu.

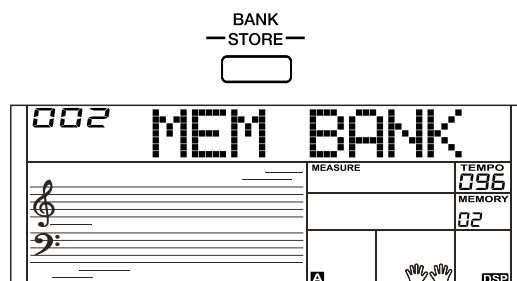
Note:

Performance memory cannot be recalled when the Quick Setting function is in use. The performance memory will reset to default settings after power off.



Selecting a Bank

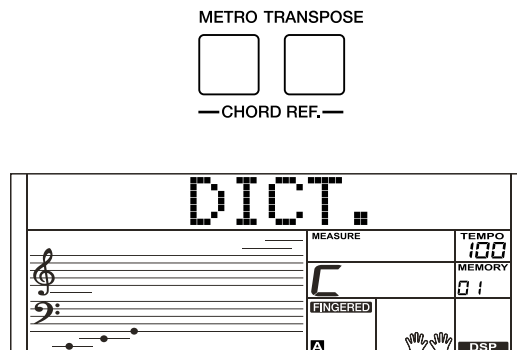
1. Press the [BANK] button. The LCD will display the bank number.
2. Repeatedly press the [BANK] button to select a bank over the range of 1-4.



Chord Reference

If you know the name of a chord but don't know how to play it, you can use the Chord Reference function.

1. Press the [METRO] and [TRANPOSE] buttons to enter this mode. The LCD displays the Chord Type and Chord Notes.
2. The keys above C4 (including C4) are used to assign the Chord Type, and the keys above C6 (including C6) are used to assign the Chord Root. When the Chord Type and Chord Root are confirmed, the LCD will display the Chord and the staff notation.
3. When you play the correct chord on the chord range of the keyboard, an applause sound will be heard.
4. Press the [METRO] and [TRANPOSE] buttons again to exit this mode.

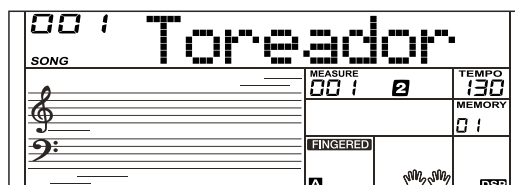


Playing the Songs

The instrument has a variety of songs (Please refer to the Song List). Each song can be practiced in LESSON mode.

Listening to the Songs

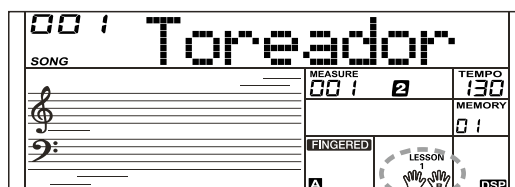
1. Press the [SONG] button to enter the song mode. It will play all songs circularly. Press the [SONG] button again, it will stop the song.
2. In song mode, use the number keys and [<]/[>] buttons to select a song.
3. During song playback, you can press the [START/STOP] button to stop the song, press it again to play the current song repeatedly.
4. Use the [TEMPO <]/[TEMPO >] buttons to change the tempo of the current song.
5. When the song is stopped, press [STYLE], [SOUND], [LAYER] to exit the song mode.



Lesson Mode

The instrument presets 3 different ways to practice a song, as specified in Lesson 1, Lesson 2 and Lesson3. The instrument will grade your practice when you finish a lesson, helping you to keep track of your progress.

1. When song playback is stopped, press the [LESSON] button to enter the lesson mode or select a lesson to practice.
2. Press the [START/STOP] button to start the lesson. The LCD displays the note that needs to be played.
3. Press the [START/STOP] button again to stop the lesson.
4. In lesson mode, press and hold the [LESSON] button for 2 seconds to select to practice the left hand part, the right hand part, or both hands.
5. You can select to practice one of the three lessons. It will grade your practice when you finish a lesson.



In lesson 1, you will learn to practice at the correct time value. It doesn't matter even you play the wrong notes.

In lesson 2, you will learn to play the correct notes. The lesson will continue only when you have played correctly the note displayed on LCD.

In lesson 3, you will learn to play the correct notes at the correct time value.

When you finish a lesson, the instrument will grade your practice by telling you the level you get.

- Level 1: OK.
- Level 2: Good.
- Level 3: Very Good.
- Level 4: Excellent.

After grading, the song will play back again, and you can practice again.

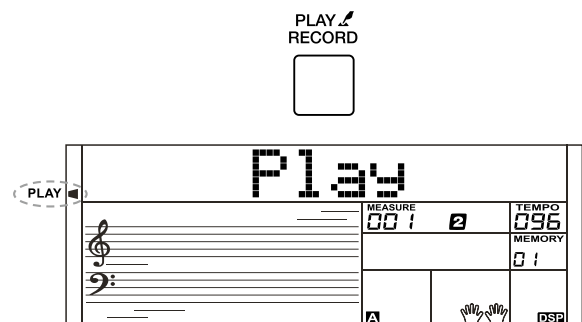
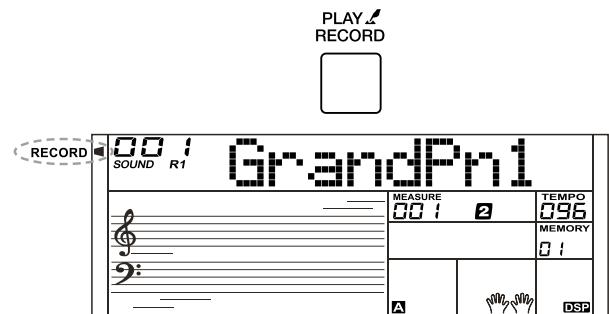
Recording and Playback

You can record your performance and then play it back.

1. Press the [RECORD] button, the RECORD indicator will be lit, and the beats will flash.
2. Play the keyboard or press the [START/STOP] button to start recording. If you want to record the accompaniment, please turn on the CHORD function, then play chords in the chord section of the keyboard.
3. Press the [RECORD] button again to stop recording. The RECORD indicator goes out.
4. Press and hold the [PLAY] button for 2 seconds to play back the recording. The PLAY indicator will be lit.
5. Press and hold the [PLAY] button for 2 seconds again to stop playback. The PLAY indicator goes out.

Note:

The recording data will be lost after power off.



MIDI Function

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

What's MIDI ?

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

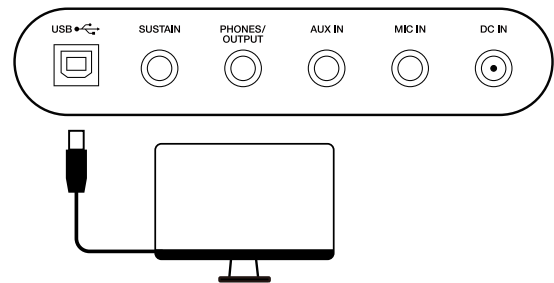
The instrument is equipped with a standard USB interface, which allows the instrument to be connected to a computer. Most computers will automatically recognize the instrument, and allow MIDI messages to be transmitted between the instrument and the computer via the USB-MIDI jack.

Use a standard USB cable to connect the USB jack of the instrument to the USB port of a computer.

Note:

Activate the computer from a sleep/suspended/standby mode before connecting the USB cable.

Connect the USB cable to the instrument and a computer before turning the power of the instrument on.



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 results when the keyboard is played.	1. Check if the master volume is set too low. 2. Check if headphones are plugged into the PHONES jack.
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.

Specifications

Keyboard & Display	
Keyboard	61 Keys with Touch Response
Touch Response	3 types, Off
Display	Multi-functional backlit LCD
Sounds	
Polyphony (max.)	64
Sounds	500 preset
Layer	Left, Right1, Right2
Split	Yes
Styles	
Styles	170 preset
Style Control	Start / Stop Sync Start Intro / Ending Main A / Fill in A Main B / Fill in B Chord mode Fade in / out Accomp volume
Q.S.	Yes
Chord Types	32
Effects	
Effects	DSP on / off
Reverb	128 levels
Chorus	128 levels
Sound Boost	Yes
Song & Recording	
Music Library	140 preset Music tutorial system
Sequencer	1 user song
Demo Song	Yes

Pitch Adjustment	
Transpose	-12 ~ +12
Octave	-2 ~ +2
Tuning	-50 ~ +50
Other Functions	
Accompaniment Volume	0~32
Performance Memory	4 preset banks x 4
Metronome	0, 2 ~ 9
Tempo	5 ~ 280
Other control	Piano Mode, Chord Ref
Connections	
Phones	1 standard stereo
Microphone	Yes
Pedals	Sustain
USB	USB MIDI & Audio
Input	Standard stereo
Output	Yes (Phones jack)
Power Supply	
Power	DC 12V / 1A
Power Off Protection	Yes
Amplifiers & Speakers	
Amplifiers	2.5 watt x 2
Speakers	12cm x 2
Dimensions & Weight	
Dimensions LWH (mm)	946 x 315 x 101
Weight (kg)	4.3

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

Sound List

No.	English Name	LCD Name
PIANO		
1	Acoustic Grand Piano 1	GrandPn1
2	Acoustic Grand Piano 2	GrandPn2
3	Piano Dark	GrdPnD
4	Octave Piano 1	OctPno1
5	Octave Piano 2	OctPno2
6	Honky-Tonk Piano	HnkyTonk
7	Dark Honky-Tonk	HnkTonkD
8	Honky-Tonk / W	HnkyTkW
9	Piano & Choir	Pno&Cho
10	Grand Piano / W	GrandPnW
11	Bright Piano	BritPno
12	Stereo Bright Piano	BritePnS
13	Detuned Piano	DetunPno
14	Chorus Piano	ChoPno
15	Bright Piano / W	BritPnW
16	Piano & Vibraphone	Pno&Vib
17	Harpsichord	Harpsi
18	Harpsichord / W	HarpsiW
19	Harpsichord Octave	HarpsiO
20	Harpsichord Off	HarpsiOf
E.PIANO		
21	Fancy Electric Piano	FancyEP
22	Electric Piano 1	E.Piano1
23	Electric Piano 2	E.Piano2
24	Analog E.Piano 1	AnEPno1
25	Analog E.Piano 2	AnEPno2
26	Wah Analog E.Piano	WahAnPno
27	Electric Grand Piano	EPianoG
28	Electric Grand Piano / W	E.PianoW
29	Stereo Synth E.Piano 1	StSyEPn1
30	Stereo Synth E.Piano 2	StSyEPn2
31	50's E.Piano	50'sEP
32	E.Piano / W 1	EPianoW1
33	E.Piano / W 2	EPianoW2
34	Electric Piano 3	E.Piano3
35	Detuned E.P	DetunEP
36	Digital E.Piano 1	DigiEP1
37	Digital E.Piano 2	DigiEP2
38	Clavichord	Clavi
39	Stereo Clavichord	ClaviS
40	Clavichord / W	ClaviW
41	Wah Clavichord	WaClavi
42	Synth Clavi	SynClavi
ORGAN		
43	Drawbar Organ	DrawOrg
44	Stereo Drawbar Organ	DrawOrgS
45	Soft Stereo Drawbar Organ	DrawOgSf
46	Mellow Drawbar Organ	MellDOrg
47	Bright Drawbar Organ	DrawOrgB
48	Percussive Organ	PercOrgn

No.	English Name	LCD Name
49	Percussive Organ Detuned	DePerOrg
50	Stereo Rock Organ	St.RocOr
51	Rock Organ	RokOrgn
52	Church Organ	ChurOrgn
53	Detuned Church Organ	DeChuOrg
54	Octave Church Organ 1	ChrOrgO1
55	Octave Church Organ 2	ChrOrgO2
56	Finale	Finale
57	Digital Organ	DigiOrg
58	Analog Organ 1	AnaOrg1
59	Analog Organ 2	AnaOrg2
60	Reed Organ 1	RedOrgn1
61	Reed Organ 2	RedOrgn2
62	Stereo Reed Organ	ReedOrgS
63	Accordion 1	Acordin1
64	Accordion 2	Acordin2
65	Stereo Accordion	AcordinS
66	Harmonica	Harmonica
67	Dark Harmonica	HarmnicD
68	Tango Accordion 1	TangAccl1
69	Tango Accordion 2	TangAccl2
70	Dark Tango Accordion	TangAcclD
GUITAR		
71	Stereo Nylon Guitar 1	St.NyGt1
72	Nylon Guitar	NylonGtr
73	Chorus Nylon Guitar	NylonGtC
74	Stereo Nylon Guitar 2	St.NyGt2
75	Stereo Nylon Guitar 3	St.NyGt3
76	Steel Guitar 1	SteelGt1
77	Steel Guitar 2	SteelGt2
78	12 String Guitar	12StrGtr
79	Detuned Steel Guitar	DetStlGt
80	Jazz. Guitar	JazzGtr
81	Clean Electric Guitar 1	CleanGt1
82	Clean Electric Guitar 2	CleanGt2
83	Clean Electric Guitar 3	CleanGt3
84	Stereo Clean Guitar	CleanGtS
85	Soft Clean Guitar	ClnGtSof
86	Chord Clean Guitar	ClnGtCho
87	Muted Guitar	MutedGt
88	Stereo Muted Guitar	MutedGtS
89	Chord Muted Guitar	MutGtCho
90	Overdrive Guitar	Ovrdrive
91	Dance Lead	DancLead
92	Distortion Guitar	DistGtr
93	Analog Distortion Guitar	AnDistGt
94	5th Distortion 1	5thDist1
95	5th Distortion 2	5thDist2
96	Analog Distortion 1	AnaDist1
97	Analog Distortion 2	AnaDist2
98	Analog Distortion Wah 1	AnDisWa1
99	Analog Distortion Wah 2	AnDisWa2
100	Guitar Harmonics	GtrHarmo

No.	English Name	LCD Name
BASS		
101	Acoustic Bass 1	AcoBass1
102	Acoustic Bass 2	AcoBass2
103	Acoustic Bass Detuned	DetAcoBs
104	Velocity Crossfade Bass	VelCroBs
105	Jazz Style	JazzSty
106	A.Bass & Mute G.T.	ABs&MtGT
107	Finger Bass 1	FngrBs1
108	Finger Bass 2	FngrBs2
109	Finger Bass 3	FngrBs3
110	Dark Finger Bass	FngrBsD
111	Detuned Finger Bass	DetFngBs
112	Velocity Bass	VelBass
113	Bass & Distortion Guitar	Bs&DisGt
114	Pick Bass 1	PickBs1
115	Pick Bass 2	PickBs2
116	Mute Pick Bass	PickBsM
117	Pick & Finger Bass	Pk&FgBs
118	Pick Bass & Clean Guitar	PBs&ClGt
119	Detuned Pick Bass	DetPkBs
120	Fretless Bass 1	Fretles1
121	Fretless Bass 2	Fretles2
122	Slap Bass 1	SlapBas1
123	Slap Bass 2	SlapBas2
124	Slap Bass 3	SlapBas3
125	Synth Bass 1	SynBass1
126	Synth Bass 2	SynBass2
127	Synth Bass 3	SynBass3
STRINGS & ORCHESTRAL		
128	Violin 1	Violin1
129	Violin 2	Violin2
130	2 Violin	2Violin
131	Viola 1	Viola1
132	Viola 2	Viola2
133	2 Viola	2Viola
134	Cello 1	Cello1
135	Cello 2	Cello2
136	2 Cello	2Cello
137	Contrabass 1	Contrbs1
138	Contrabass 2	Contrbs2
139	Tremolo Strings 1	TremStr1
140	Tremolo Strings 2	TremStr2
141	Pizzicato Strings 1	PizzStr1
142	Pizzicato Strings 2	PizzStr2
143	Orchestral Harp 1	Harp1
144	Orchestral Harp 2	Harp2
145	Stereo Harp	HarpS
146	Timpani 1	Timpani1
147	Timpani 2	Timpani2
148	Stereo Strings 1	StringS1
149	String Ensemble 1	Strings1
150	String Ensemble 2	Strings2
151	Boiling Life	Boiling

No.	English Name	LCD Name
152	Stereo Strings 2	StringS2
153	Stereo Strings 3	StringS3
154	Synth Strings 1	SynStrs1
155	Synth Strings 2	SynStrs2
156	Synth Strings 3	SynStrs3
157	Stereo Synth Strings 1	SynStrS1
158	Stereo Synth Strings 2	SynStrS2
159	Analog Orchestra	AnaOrch
160	Analog String 1	AnaStr1
161	Analog String 2	AnaStr2
162	Slow Strings 1	SlowStr1
163	Slow Strings 2	SlowStr2
164	Choir Aahs 1	ChoirAh1
165	Choir Aahs 2	ChoirAh2
166	Dark Aahs 1	ChoAhD1
167	Stereo Aahs 1	ChoAhS1
168	Stereo Aahs 2	ChoAhS2
169	Mellow Choir Aahs	ChoAhMel
170	Aahs & SynStr	Ah&SyStr
171	Big Aahs	BigAahs
172	Analog Sound 1	AnSound1
173	Analog Sound 2	AnSound2
174	Voice Ooh	VoiceOoh
175	Synth Voice	SynVoic
176	Stereo Synth Voice	SynVoicS
177	HK 80's	HK80's
178	Homesick	Homesick
179	Child Interest	Intrest
180	Mechanical Voice	MechanVo
181	Power Voice	PoweVo
182	Child Interest Wah	InterWah
183	Orchestra Hit	OrchHit
184	Orchestra Hit Stereo	OrchHitS
185	Orchestra Hit Octave	HitOctO
BRASS		
186	Trumpet 1	Trumpet1
187	Trumpet 2	Trumpet2
188	Trumpet 3	Trumpet3
189	Dark Trumpet 1	TrmpetD1
190	Dark Trumpet 2	TrmpetD2
191	Wah Trumpet	TrumpetW
192	Trombone 1	Trmbone1
193	Trombone 2	Trmbone2
194	Tuba 1	Tuba1
195	Tuba 2	Tuba2
196	Muted Trumpet 1	MuteTrp1
197	Muted Trumpet 2	MuteTrp2
198	French Horn 1	Horn1
199	French Horn 2	Horn2
200	Stereo Synth Brass	StSyBras
201	5th Horn	5thHorn
202	Brass Section 1	Brass1
203	Brass Section 2	Brass2

No.	English Name	LCD Name
204	Majestic Unison	Unison
205	Synth Brass 1	SynBras1
206	Synth Brass 2	SynBras2
207	Synth Brass 3	SynBras3
208	Sharp Brass	SharpBra
209	Analog Brass 1	AnaBras1
210	Analog Brass 2	AnaBras2
211	Dynamics Analog Brass	DyAnaBra
212	Octave Synth Brass	SynBrasO
SAX & WOODWIND		
213	Soprano Sax 1	SprnSax1
214	Soprano Sax 2	SprnSax2
215	Soprano Sax 3	SprnSax3
216	Alto Sax 1	AltoSax1
217	Alto Sax 2	AltoSax2
218	Alto Sax 3	AltoSax3
219	Tenor Sax 1	TenoSax1
220	Tenor Sax 2	TenoSax2
221	Baritone Sax 1	BariSax1
222	Baritone Sax 2	BariSax2
223	Oboe 1	Oboe1
224	Oboe 2	Oboe2
225	Sweet Oboe	SwetOboe
226	English Horn 1	EngHorn1
227	English Horn 2	EngHorn2
228	Bassoon 1	Bassoon1
229	Bassoon 2	Bassoon2
230	Clarinet 1	Clarine1
231	Clarinet 2	Clarine2
232	Piccolo 1	Piccolo1
233	Piccolo 2	Piccolo2
234	Flute 1	Flute1
235	Flute 2	Flute2
236	Recorder 1	Recordr1
237	Recorder 2	Recordr2
238	Pan Flute 1	PanFlut1
239	Pan Flute 2	PanFlut2
240	Blown Bottle 1	Bottle1
241	Blown Bottle 2	Bottle2
242	Shakuhachi 1	Shakchi1
243	Shakuhachi 2	Shakchi2
244	Whistle	Whistle
245	Ocarina	Ocarina
LEAD		
246	Square Lead 1	SquarLd1
247	Square Lead 2	SquarLd2
248	Analog Lead	AnaLead
249	Lead Sine 1	SinLead1
250	Lead Sine 2	SinLead2
251	Analog Electric	AnaElect
252	Slow Square Lead	SlowLead
253	Analog Classic Lead	AnClasLd
254	Thick Square	ThickSq

No.	English Name	LCD Name
255	Quint	Quint
256	Sine Solo	SineSolo
257	Pulse Lead 1	PulseLd1
258	Pulse Lead 2	PulseLd2
259	Mellow Wind	Wind
260	80's Digital	80'sDig
261	Classic TRI	ClassTRI
262	Stereo Analog Wind 1	StAnWid1
263	Stereo Analog Wind 2	StAnWid2
264	Sawtooth Lead 1	SawLead1
265	Super Sawtooth	SpSawLd
266	Sawtooth Lead 2	SawLead2
267	Sawtooth Lead 3	SawLead3
268	Stereo Sawtooth 1	SawLdS1
269	Stereo Sawtooth 2	SawLdS2
270	Electronic Lead	ElecLead
271	Psychedelic	Psyched
272	80's Synth	80'sSyn
273	5th Analog 1	5thAna1
274	5th Analog 2	5thAna2
275	Vitality	Vitality
276	5th Sawtooth 1	5thSaw1
277	5th Sawtooth 2	5thSaw2
278	Comedy 1	Comedy1
279	Comedy 2	Comedy2
280	Fazli Lead	FazliLd
281	80's Sawtooth	80'sSaw
282	Wind Chimes	WindChi
283	5th Digital Age 1	5thDgAg1
284	5th Digital Age 2	5thDgAg2
285	5th Square 1	5thSqu1
286	5th Square 2	5thSqu2
287	Stereo Pulse 1	StPulse1
288	Stereo Pulse 2	StPulse2
289	Analog Signal 1	AnSign1
290	Analog Signal 2	AnSign2
291	Stereo Electronic Lead 1	StEleLd1
292	Stereo Electronic Lead 2	StEleLd2
293	Stereo Electronic Lead 3	StEleLd3
294	Stereo Electronic Lead 4	StEleLd4
295	Calliope Lead 1	CalipLd
296	Calliope Lead 2	CalipLd2
297	Calliope Lead 3	CalipLd3
298	Grand	Grand
299	Octave Pad	OctPad
300	Classic Lead	ClassLD
301	Wah Sawtooth	WahSaw
302	Chiff Lead 1	ChiffLd1
303	Chiff Lead 2	ChiffLd2
304	Charang Lead	CharnLd1
305	Fruity Lead	FruyLd
306	Voice Lead	VoiceLd
307	Robot	Robot

No.	English Name	LCD Name
308	Modulation Distortion	ModDist
309	Control	Control
310	Vague Vocals	VagueVo
311	Singl Synth	SinglSyn
312	Analog Filter	AnaFilt
313	Analog Voice 1	AnaVo1
314	Analog Voice 2	AnaVo2
315	Fifths Lead	FifthsLd
316	Ninja 1	Ninja1
317	Ninja 2	Ninja2
318	Bass & Lead 1	Bs&Lead1
319	Bass & Lead 2	Bs&Lead2
320	Classic Synth 1	ClassSy1
321	Classic Synth 2	ClassSy2
322	Electron Impac	EleImpac
323	Elastic Across	Across
324	Analog Wind	AnaWind
325	Electron Saw	EleSaw
326	Boring Sine	BorSine
327	Steel Wire	SteelWir
328	Analog Pulse	AnaPulse
329	Happiness	Happines
330	Deformation Pulse	DefPulse
PAD		
331	New Age Pad 1	NewAgPd1
332	New Age Pad 2	NewAgPd2
333	Rise	Rise
334	Praise	Praise
335	Intangible	Intangi
336	Warm Day	WarmDay
337	Dunhuang	Dunhuang
338	Free Space	FreeSpa
339	Plump Sawtooth	PlumpSaw
340	Wah Square	WahSqua
341	Double Pulse	DoubPul
342	Comedy Wah	ComeWah
343	Phase Shift	PhaShift
344	Warm Pad 1	WarmPad1
345	Warm Pad 2	WarmPad2
346	Overture	Overture
347	Verve	Verve
348	Fulness Pad	FulnesPd
349	Wah Overture	WahOvert
350	Digital Age	DigitAge
351	Analog Pad 1	AnalPd1
352	Analog Pad 2	AnalPd2
353	Analog Wah	AnaloWah
354	Sharp	Sharp
355	Warm Pulse	WarmPul
356	Happiness Pad	HappiPd
357	Sawtooth Pad 1	SawPad1
358	Sawtooth Pad 2	SawPad2
359	Poly Synth Pad 1	PlySyPd1

No.	English Name	LCD Name
360	Poly Synth Pad 2	PlySyPd2
361	Modulation Distortion Wah	ModDiWah
362	Choir Pad 1	ChoPad1
363	Choir Pad 2	ChoPad2
364	Plush Pad	PlushPad
365	Wah Dawn	WahDawn
366	Chorus Pad Wah	ChoPdWah
367	Electric Pad	ElecPad
368	5th PAD	5thPad
369	Bowed Pad 1	BowdPad1
370	Bowed Pad 2	BowdPad2
371	Metallic Pad	MetalPad
372	Dream 1	Dream1
373	Dream 2	Dream2
374	Dpray	Dpray
375	Digital Pad	DigiPad
376	Wah Organ Pad	WahOrgan
377	Pipe Organ Pad	PipOrPd
378	Scene Pad	ScenePad
379	Halo Pad	HaloPad
380	Background 1	Backgrd
381	Background 2	Backgrd2
382	Sweep Pad	SweepPad
383	Star Trek	StarTrek
384	Digital Wah	DigiWah
385	Warm Wah	WarmWah
386	Wah Pulse	WahPulse
387	Digital Distortion Wah	DiDisWah
388	Pulse 1	Pulse1
389	Pulse 2	Pulse2
SYNTH SFX		
390	Rain	Rain
391	Mysterious	Mysterio
392	Clusters of Stars	Stars
393	Additive Synthesis	AddSynth
394	Want To Go	Wanttogo
395	Wah Additive Synth	WahAdd
396	Soundtrack	Soundtrk
397	Lost Garden	Garden
398	Far Away	FarAway
399	Crystal 1	Crystal1
400	Crystal 2	Crystal2
401	Game	Game
402	Fly Into Space	Space
403	Little Funny	Funny
404	Funny Hammer	FunnyHam
405	Surface Of The Water	Surface
406	Atmosphere	Atmosphr
407	Clouds	Clouds
408	Brightness 1	Bright1
409	Brightness 2	Bright2
410	Life 1	Life1
411	Life 2	Life2

No.	English Name	LCD Name
412	Fresh	Fresh
413	Goblins	Goblins
414	Fantasy	Fantasy
415	Space Trojan	SpaceTro
416	Ceremony	Ceremony
417	Phonism	Phonism
418	Echoes	Echoes
419	Empty	Empty
420	Deformation	Deformat
421	Sci-Fi	Sci-Fi
422	Wind Bells	WindBell
423	Artistic 1	Artisti1
424	Artistic 2	Artisti2
425	Artistic 3	Artisti3
426	Digital Effect	DigitaEf
427	Abyss 1	Abyss1
428	Abyss 2	Abyss2
429	Spectrum 1	Spectru1
430	Spectrum 2	Spectru2
ETHNIC MISC.		
431	Sitar 1	Sitar1
432	Sitar 2	Sitar2
433	Banjo 1	Banjo1
434	Banjo 2	Banjo2
435	Shamisen 1	Shamisl1
436	Shamisen 2	Shamisl2
437	Koto 1	Koto1
438	Koto 2	Koto2
439	Kalimba 1	Kalimba1
440	Kalimba 2	Kalimba2
441	Bagpipe 1	Bagpipe1
442	Bagpipe 2	Bagpipe2
443	Fiddle 1	Fiddle1
444	Fiddle 2	Fiddle2
445	Shania 1	Shania1
446	Shania 2	Shania2
PERC. & DRUMS		
447	Celesta	Celesta
448	Dark Celesta	CelestD
449	Celesta & Sine	Cele&Sin
450	Reecho Bell	ReBell
451	Celesta & Music Box	Cel&Mbox
452	Glockenspiel	Glocken
453	Glockenspiel & Sine	Glock&Sin
454	Children's Song	ChilSong
455	Analog Bell	AnaBell
456	Stereo Analog Bell	StAnaBel
457	Music Box	MusicBox
458	Vibraphone	Vibra
459	Vibraphone / W	VibraW
460	Vibraphone & Bell	Vibr&Bel
461	Vibraphone & Harpsichord	Vibr&Hrp
462	Marimba	Marimba

No.	English Name	LCD Name
463	Marimba / W	MarimbaW
464	Sine Marimba	Marm&Sin
465	Stereo Marimba	MarimbaS
466	Marimba & Vibraphone	Marm&Vib
467	Wood Drum	WoodDrum
468	Rotating	Rotating
469	Dual Attack	DualAtta
470	Stereo TRI	StTRI
471	Xylophone	Xylophon
472	Tubular Bells	TubuBel
473	Rotate Octave	RotateOc
474	Synth Organ Staccato 1	SyOrSta1
475	Synth Organ Staccato 2	SyOrSta2
476	Dulcimer	Dulcimer
477	Tinkle Bell	TnklBell
478	Agogo	Agogo
479	Steel Drums	StelDrum
480	Bass Drum	BassDrum
481	Wood Block	WoodBlok
482	Snare	Snare
483	Taiko Drum	TaikoDrm
484	Melodic Tom	MelodTom
485	Synth Drum	SynDrum
486	Dynamics Jump	DynJump
487	Reverse Cymbal	RevCymbI
SFX		
488	Guitar Fret Noise	FretNoiz
489	Breath Noise	BrthNoiz
490	Seashore	Seashore
491	Bird Tweet	Tweet
492	Telephone Ring	Telephone
493	Helicopter	Helicptr
494	Applause	Applause
495	Gunshot	Gunshot
496	Fall	Fall
DRUM KITS		
497	Standard Drum Set 1	StdSet1
498	Standard Drum Set 2	StdSet2
499	Rock Drum Set	RockSet
500	Electronic Drum Set	ElecSet

Style List

No.	English Name	LCD Name
LATIN 1		
1	Latin	Latin
2	Bossa Nova 1	BossNv1
3	Cha Cha 1	ChaCha1
4	Pop Cha Cha 1	PopCha1
5	Rhumba 1	Rhumba1
6	Pop Rhumba 1	PopRhm1
7	Bossa Nova 2	BossNv2
8	Tango 1	Tango1
9	Jazz Samba 1	JazzSmb1
10	Reggae 1	Reggae1
11	Pop Reggae 1	PopReg1
DANCE 1		
12	Cha Cha Dance	ChaChaDn
13	Salsa	Salsa
14	Disco 1	Disco1
15	Disco Funk 1	DiscoFk1
16	Dance 1	Dance1
17	House 1	House1
18	Rap 1	Rap1
19	Euro Beat 1	EuroBt1
20	Hip Hop 1	HipHop1
21	Techno 1	Techno1
BEAT & POP 1		
22	Sunshine Beat	SunBt
23	80's Pop Rock	80sPopRk
24	Blues Ballad	BluBld
25	Unplugged	Unplg
26	8 Beat 1	8Beat1
27	8 Beat 2	8Beat2
28	60's 8 Beat 1	60s8Bt1
29	8 Beat Ballad 1	8BtBld1
30	8 Beat Rock 1	8BtRck1
31	16 Beat 1	16Beat1
32	16 Beat Pop 1	16BtPp1
33	16 Beat Shuffle 1	16BtSh1
34	Ballad 1	Ballad1
35	Slow Ballad 1	SlowBld1
ROCK 1		
36	Rock & Roll 1	R&Roll1
37	Blues Rock	BluRk
38	Rock 1	Rock1
39	Pop Rock 1	PopRck1
40	Fast Rock 1	FastRk1
41	Slow Rock 1	SlowRk1
42	Rock & Roll 2	R&Roll2
43	Blues Boogie 1	BluesBg1
44	Blues 1	Blues1
45	Blues Shuffle 1	BluShf1
46	Rock Shuffle 1	RckShf1
47	Charleston 1	Charlst1

No.	English Name	LCD Name
SOUL & FUNK 1		
48	Funk	Funk
49	New Soul	NewSoul
50	Funky Pop 1	FunkyPp1
51	Jazz Funk 1	JazzFk1
52	Cool Funky 1	CoolFk1
53	Soul 1	Soul1
54	Soul Blues 1	SoulBl1
55	R & B 1	R&B1
56	6/8 Gospel 1	6/8Gsp1
57	Pop Groove 1	PopGr1
JAZZ 1		
58	Swing 1	Swing1
59	Cool Jazz 1	CoolJz1
60	Pop Swing 1	PopSw1
61	Swing Fox 1	SwFox1
62	Big Band 1	BigBnd1
63	Ragtime 1	Ragtime1
64	Dixieland 1	Dixie1
65	Quick Step 1	QuickSt1
COUNTRY 1		
66	Country Pop 1	CntryPp1
67	Bluegrass 1	Bluegr1
68	Country 1	Country1
69	Country Pop 2	CntryPp2
70	Country Rock 1	CntryRk1
71	Country Folk 1	CntryFk1
72	3/4 Country 1	3/4Cnt1
73	Country Waltz 1	CntryWz1
74	Country Shuffle 1	CntrySh1
75	Country Boogie 1	CntryBg1
76	Country Quick Step 1	CntryQS1
77	Bluegrass 2	Bluegr2
TRADITIONAL 1		
78	French Musette 1	FrMuset1
79	March 1	March1
80	German March 1	GerMar1
81	6/8 March 1	6/8Mar1
82	Polka 1	Polka1
83	Pop Polka 1	PopPk1
84	Waltz 1	Waltz1
85	Slow Waltz 1	SlowWz1
86	Vienna Waltz 1	VienWz1
87	Musette 1	Musette1
LATIN 2		
88	Cha Cha 2	ChaCha2
89	Pop Cha Cha 2	PopCha2
90	Rhumba 2	Rhumba2
91	Pop Rhumba 2	PopRhm2
92	Bossa Nova 3	BossNv3
93	Tango 2	Tango2
94	Jazz Samba 2	JazzSmb2

No.	English Name	LCD Name
95	Reggae 2	Reggae2
96	Pop Reggae 2	PopReg2
DANCE 2		
97	Disco 2	Disco2
98	Disco Funk 2	DiscoFk2
99	Dance 2	Dance2
100	House 2	House2
101	Rap 2	Rap2
102	Euro Beat 2	EuroBt2
103	Hip Hop 2	HipHop2
104	Techno 2	Techno2
BEAT & POP 2		
105	8 Beat 3	8Beat3
106	8 Beat 4	8Beat4
107	60's 8 Beat 2	60s8Bt2
108	8 Beat Ballad 2	8BtBld2
109	8 Beat Rock 2	8BtRck2
110	16 Beat 2	16Beat2
111	16 Beat Pop 2	16BtPp2
112	16 Beat Shuffle 2	16BtSh2
113	Ballad 2	Ballad2
114	Slow Ballad 2	SlowBld2
ROCK 2		
115	Rock 2	Rock2
116	Pop Rock 2	PopRck2
117	Fast Rock 2	FastRk2
118	Slow Rock 2	SlowRk2
119	Rock & Roll 3	R&Roll3
120	Blues Boogie 2	BluesBg2
121	Blues 2	Blues2
122	Blues Shuffle 2	BluShf2
123	Rock Shuffle 2	RckShf2
124	Charleston 2	Charlst2
SOUL & FUNK 2		
125	Funky Pop 2	FunkyPp2
126	Jazz Funk 2	JazzFk2
127	Cool Funky 2	CoolFk2
128	Soul 2	Soul2
129	Soul Blues 2	SoulBl2
130	R & B 2	R&B2
131	6/8 Gospel 2	6/8Gsp2
132	Pop Groove 2	PopGr2
JAZZ 2		
133	Swing 2	Swing2
134	Cool Jazz 2	CoolJz2
135	Pop Swing 2	PopSw2
136	Swing Fox 2	SwFox2
137	Big Band 2	BigBnd2
138	Ragtime 2	Ragtime2
139	Dixieland 2	Dixie2
140	Quick Step 2	QuickSt2

No.	English Name	LCD Name
COUNTRY 2		
141	Country 2	Country2
142	Country Pop 3	CntryPp3
143	Country Rock 2	CntryRk2
144	Country Folk 2	CntryFk2
145	3/4 Country 2	3/4Cnt2
146	Country Waltz 2	CntryWz2
147	Country Shuffle 2	CntrySh2
148	Country Boogie 2	CntryBg2
149	Country Quick Step 2	CntryQS2
150	Bluegrass 3	Bluegr3
151	Country Pop 4	CntryPp4
152	Bluegrass 4	Bluegr4
TRADITIONAL 2		
153	French Musette 2	FrMuset2
154	March 2	March2
155	German March 2	GerMar2
156	6/8 March 2	6/8Mar2
157	Polka 2	Polka2
158	Pop Polka 2	PopPk2
159	Waltz 2	Waltz2
160	Slow Waltz 2	SlowWz2
161	Vienna Waltz 2	VienWz2
162	Musette 2	Musette2
PIANIST		
163	Piano 8 Beat	Pno8Bt
164	Piano Ballad	PnoBld
165	Piano Boogie	PnoBoog
166	Piano Jazz	PnoJazz
167	Piano Jazz Waltz	PnoJzWz
168	Piano March	PnoMarch
169	Piano 6/8 March	Pno6/8Mr
170	Piano Waltz	PnoWaltz

Song List

No.	English Name	LCD Name
CLASSIC		
1	Chanson Du Toreador	Toreador
2	Meditation	Meditati
3	Wiegenlied	WieGenli
4	A Lover's Concerto	Concerto
5	Whispering Hope	Whisper
6	From The New World	NewWorld
7	O Sole Mio	OSoleMio
8	Auf Flugeln Des Gesanges	Gesanges
9	Santa Lucia	SantaLuc
10	Air For The G-String	G-String
11	An Der Shonen Blauen Donau	Donau
12	Beautiful Dreamer	Dreamer
13	Dance Des Mirlitons	Mirliton
14	Etude Op. 10 No. 3	Etude3
15	Hungarian Dances No. 5	Hungaian
16	Carmen-Prelude	Carmen
17	L'Arlesienne	L'Arlesi
18	The Dying Swan	DyingSwn
19	The Skaters Waltz	Skaters
20	Waves Of The Danube	Danube
FAVORITE		
21	Deck The Halls	DeckHall
22	Old Folks At Home	OldFolks
23	Jeanie With The Light Brown Hair	Jeanie
24	Aida	Aida
25	Annie Laurie	AnnieLa
26	Aloha Oe	AlohaOe
27	The Blue-Bells Of Scotland	BlueBell
28	Joy To The World	JoyWorld
29	Jingle Bells	JingBell
30	Silent Night	SttNight
31	Ode To Joy	OdeToJoy
32	My Bonnie	MyBonnie
33	Yellow Rose Of Texas	YellRose
34	The Wabash Cannon Ball	CannBall
35	Red River Valley	RedRiver
36	Dreaming Of Home And Mother	Dreaming
37	Der Freischutz	DerFreis
38	Tales Of Hoffman	Hoffman
39	Die Forelle	Forelle
40	Ave Maria	AveMaria
41	Bridal March	Bridal
42	Do Re Mi	DoReMi
43	If	If
44	La Paloma	LaPaloma
45	La Reine De Saba	Saba
46	Piano Concerto 2	Concrto2
47	Turkish March	Turkish
48	Fruhlingsstimmen	Fruhling
49	Toy Symphony	ToySymph

No.	English Name	LCD Name
FOLK		
50	Aura Lea	AuraLea
51	When The Saints Go Marching In	Marching
52	Twinkle Twinkle Little Star	Twinkle
53	With Games	WithGame
54	Way Home	WayHome
55	Yankee Doodle	YankeeD
56	Michael Row The Boat Ashore	RowBoat
57	Auld Lang Syne	LangSyne
58	My Darling Clementine	Clemtine
59	Sealed With A Kiss	Sealed
60	Danny Boy	DannyBoy
61	El Condor Pasa	ElCondor
62	Greensleeves	Sleeves
63	Heidenroslein	Heidenro
64	Wiegenlied 2	Wieglied2
65	Her Bright Smile Haunts Me Still	HerSmile
66	Symphony No.6 "Pathetic"	Sympony6
67	Old Dog Tray	DogTray
68	Serenata Rimpiant	Serenata
69	Arirang	Arirang
70	The Quilting Party	TheParty
71	The Colorado Trail	TheTrail
72	I'D Like To Be In Texas	InTexas
73	Shenandoah	Shenando
74	Down In The Valley	Valley
75	On Top Of Old Smoky	TopSmoky
76	Barbara Allen	Allen
77	Careless Love	CaleLove
78	Sweet Betsy From Pike	SwetPike
79	Jesse James	James
80	The Cowboy's Lament	CowboyLa
81	Toccata	Toccata
82	Moulin Rouge	MoulinRg
83	Wedding March	Wedding
84	Traumerei	Traumere
85	Die Lorelei	Lorelei
86	Over The Waves	OverWave
87	Gwine To Run All Night	Gwine
88	Prelude Op.28 No.15	Prelude
KID'S SONG		
89	Skip To My Lou	SkipMyLo
90	London Bridge Is Falling Down	Bridge
91	Home On The Range	HomeRang
92	This Old Man	OldMan
93	Polly Wolly Doodle	PlyWlyDo
94	Home Sweet Home	SwetHome
95	Mary Had A Little Lamb	MaryLamb
BALLROOM		
96	Valse Brillante Op.34 #3 In F Major	ValOpFMr
97	Musette In D Major	MusetDMr
98	Blue Bird Waltz	BlueBird

No.	English Name	LCD Name
PIANO & KEYBOARD		
99	Kaiser Walzer	Kaiser
100	Hanon Piano Fingering 1	Hanon1
101	Hanon Piano Fingering 2	Hanon2
102	Hanon Piano Fingering 3	Hanon3
103	Hanon Piano Fingering 4	Hanon4
104	Hanon Piano Fingering 5	Hanon5
105	Hanon Piano Fingering 6	Hanon6
106	Hanon Piano Fingering 7	Hanon7
107	Basic Tutorial Beyer Piano 8	Beyer8
108	Basic Tutorial Beyer Piano 12	Beyer12
109	Basic Tutorial Beyer Piano 13	Beyer13
110	Basic Tutorial Beyer Piano 14	Beyer14
111	Basic Tutorial Beyer Piano 15	Beyer15
112	Basic Tutorial Beyer Piano 16	Beyer16
113	Basic Tutorial Beyer Piano 18	Beyer18
114	Basic Tutorial Beyer Piano 19	Beyer19
115	Basic Tutorial Beyer Piano 20	Beyer20
116	Basic Tutorial Beyer Piano 21	Beyer21
117	Basic Tutorial Beyer Piano 29	Beyer29
118	Basic Tutorial Beyer Piano 45	Beyer45
119	Basic Tutorial Beyer Piano 50	Beyer50
120	Basic Tutorial Beyer Piano 52	Beyer52
121	Beyer Eight Degrees Jump Etude	BeyrJump
122	Basic Tutorial Beyer Piano 65	Beyer65
123	Basic Tutorial Beyer Piano 66	Beyer66
124	Larghetto	Largheto
125	Duke Aria From "The Rigoletto"	DukeAria
126	The Happy Farmer	HpFarmer
127	Dance Of The Four Swans From "Swan Lake"	SwanLake
128	Jesus Saviour Pilot Me	Jesus
129	Old Macdonald Had A Farm	OldAFarm
130	2-Part Invention No.13 In A Minor BWV 784	Invetion
131	Musette	Musette
132	Bourree	Bourree
133	Carl Czerny 599 No.92	599No92
134	Away In A Manger	AwayInAM
135	Marriage Of Figaro	Marriage
136	Angels We Have Heard On High	Angles
137	Did You Ever See A Lassie	Lassie
138	Old France	OldFranc
139	Alfredo And Violetta Column Tower Duet	Alfredo
140	Als Die Alte Mutter Mich Noch lehrte Singen	Mutter

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1ch x	ALL x	
Mode	Default Messages Altered	x x *****	1 x x	
Note Number	Note True voice	12-114 *****	0-127 0-127	
Velocity	Note on Note off	o 9nH,V=1-127 x 9nH,V=0	o 9nH,V=1-127 o 9nH,V=0; 8nH,V=0-127	
After Touch	Key's Channel	x x	x x	
Pitch Bend		o	o	
Control Change	0	o	o	Bank Select
	5	x	x	Modulation
	6	x	o	Portamento Time
	7	x	o	Data Entry
	10	x	o	Volume
	11	x	o	Pan
	64	o	o	Expression
	65	x	x	Sustain Pedal
	66	x	o	Portamento On/Off
	67	x	o	Sostenuto Pedal
	91	x	o	Soft Pedal
	93	x	o	Reverb Program
	120	x	o	Chorus Program
	121	x	o	Reverb Level
123	o	o	Chorus Level All Sound Off Reset All Controllers All Notes Off	
Program Change	True number	o *****	o 0-127	
System Exclusive		x	o	
System Common	SongPosition	x	x	
	Song Select	x	x	
	Tune Request	x	x	
System Real Time	Clock	x	x	
	Commands	x	x	
Aux Messages	Local On/Off	x	x	
	All Notes Off	o	o	
	Active sense	x	o	
	Reset	x	o	
Notes				

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

○ : YES
× : NO

