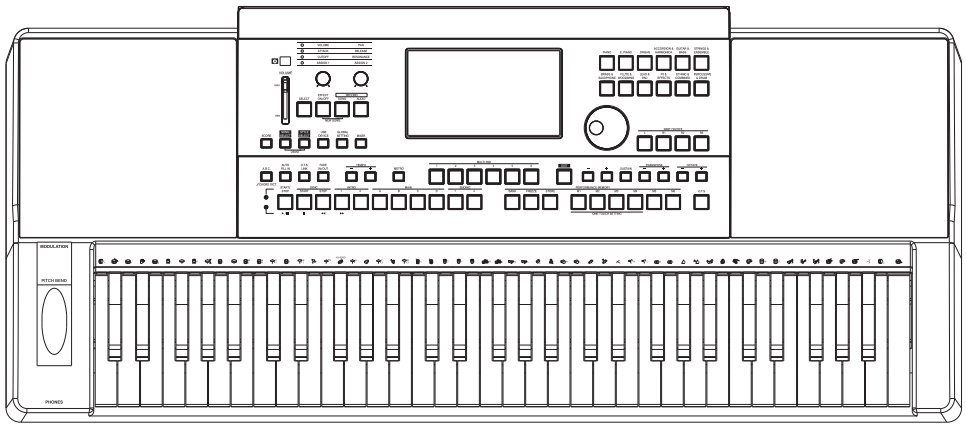
Electronic Keyboard



Owner's Manual

GENERAL MIDI

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.

Regarding the display

This instrument display is a precision device created using extremely high technology, and careful attention has been paid to its product quality. Although you may notice some of the issues listed below, please be aware that these are due to the characteristics of LCD displays, and are not malfunctions.

- There may be pixels in the display that are always dark (unlit) or always bright (lit).
- Depending on the displayed content, the brightness of the display may appear uneven.
- Depending on the displayed content, horizontal stripes of shading may be visible.
- Depending on the displayed content, flickering or moire patterns may be visible.

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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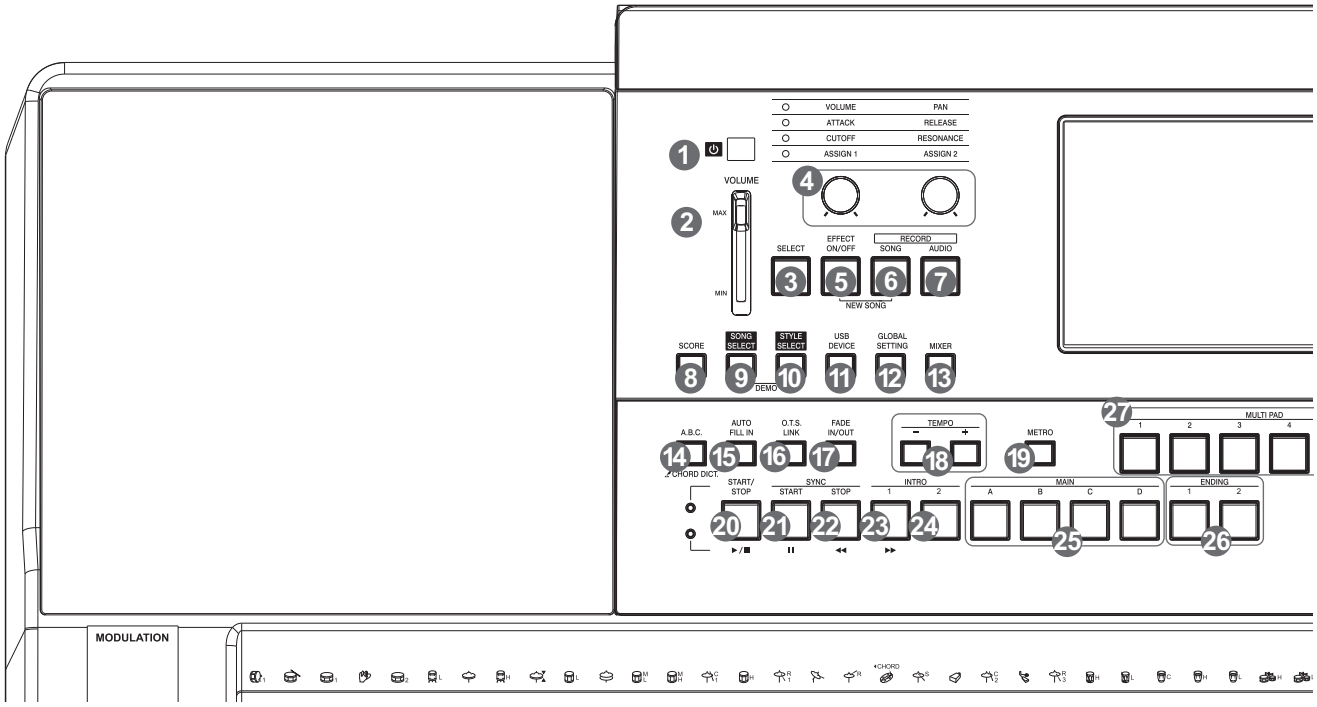
Panel & Display Description

Front Panel



1. POWER ON/OFF BUTTON
Turn the power on or off.

2. MASTER VOLUME SLIDER
Adjust the master volume.

3. SELECT BUTTON
Select the four effect combinations of GROUP KNOBS sequentially.

4. GROUP KNOBS
Effect1: Adjust volume, pan of the current part(R1/R2/R3/L).
Effect2: Adjust attack time, release time of the current part (R1/R2/R3/L).
Effect3: Adjust the filter cutoff frequency, the amount of resonance applied at the filter cutoff frequency of the current part(R1/R2/R3/L).
Effect4: The knob effect can be assigned separately. See “Controller”.

5. EFFECT ON/OFF BUTTON
Turn the special effect such as arpeggio, harmony, or chopper on or off.

6. RECORD SONG BUTTON
Enter the RECORD SONG interface. You’ll record your performace in SMF format.

7. RECORD AUDIO BUTTON
Enter the audio recording is in ready state. You’ll record your performace in WAV format.

8. SCORE BUTTON
Show the staff of the current song (SMF).

9. SONG SELECT BUTTON
Enter the SONG SELECT interface.

10. STYLE SELECT BUTTON
Enter the STYLE SELECT interface.

11. USB DEVICE BUTTON
Enter the USB DEVICE interface.

12. GLOBAL SETTING BUTTON
Enter the GLOBAL SETTING interface.

13. MIXER BUTTON
Enter the MIXER interface.

14. A.B.C. BUTTON
Turn the A.B.C. MODE on or off.

15. AUTO FILL IN BUTTON
Turn the AUTO FILL IN on or off.

16. O.T.S. LINK BUTTON
Turn the O.T.S. LINK on or off. If it is turned on, the One Touch Settings can be changed when you select different style.

17. FADE IN/OUT BUTTON
Turn the FADE IN or OUT on or off.

18. TEMPO +, TEMPO – BUTTONS
Adjust the current tempo.

19. METRO. BUTTON
Turn the Metronome on or off.

SONG CONTROL
20. PLAY/STOP BUTTON
Start playing the song or stop the song playback.

21. PAUSE BUTTON
Pause the song playback.

22. RW BUTTON
Rewind the song.

23. FF BUTTON
Fast forward the song.

STYLE CONTROL
20. START/STOP BUTTON
Start or stop playing the style.

21. SYNC. START BUTTON
Turn the SYNC. START on or off.

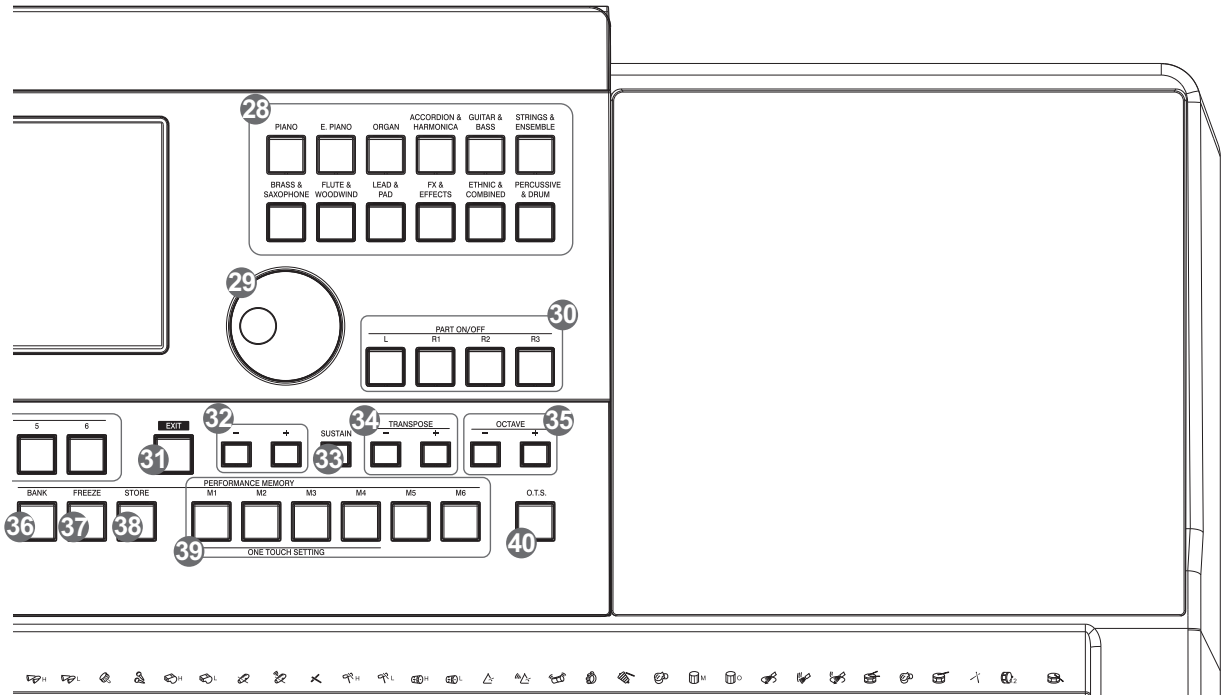
22. SYNC. STOP BUTTON
Turn the SYNC. STOP on or off.

23. INTRO 1 BUTTON
Play the intro 1.

24. INTRO 2 BUTTON
Play the intro 2.

25. MAIN A, B, C, D BUTTONS
Play the main part.

26. ENDING 1, 2 BUTTONS
Play the ending.



27. MULTI PAD BUTTONS
Add spice to your performance with special dynamic phrases by pressing them.

28. VOICE BUTTONS
Enter the VOICE SELECT interface. You'll select a voice category.

29. DATA DIAL
Change the value of current selection.

30. PART ON/OFF BUTTONS
Turn LEFT, RIGHT1, RIGHT2, RIGHT3 on or off individually.

31. EXIT BUTTON
Exit the current interface and return to the previous display.

32. +, - BUTTONS
Increase and decrease the value by 1.

33. SUSTAIN BUTTON
Turn the sustain effect on or off.

34. TRANSPOSE+, TRANSPOSE- BUTTONS
Adjust the TRANSPOSE value.

35. OCTAVE+, OCTAVE- BUTTONS
Adjust the OCTAVE value.

36. BANK BUTTON
Select a performance memory bank.

37. FREEZE BUTTON
Turn the FREEZE function on or off.

38. STORE BUTTON
Save the panel setups to one of the performance memories.

39. M1-M6 BUTTONS
PERFORMANCE MEMROY:
Recall the panel setups from one of the performance memories.
O.T.S (M1-M4):
Call up all the settings (voice, effect, etc) that match the current style.

40. O.T.S. BUTTON
Switch to the O.T.S. function.

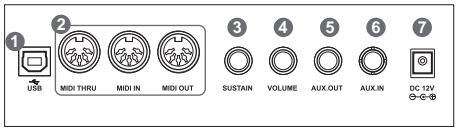
41. MODULATION BUTTON
Apply a vibrato effect.

42. PITCH BEND
Bend note up and down.

43. PHONES
Connect the headphones to the keyboard.

44. USB PORT
Connect the USB storage device.

Rear Panel



1. USB JACK
Connect to a computer.

2. MIDI IN/OUT/THRU JACKS
Connect other products equipped with a MIDI interface.

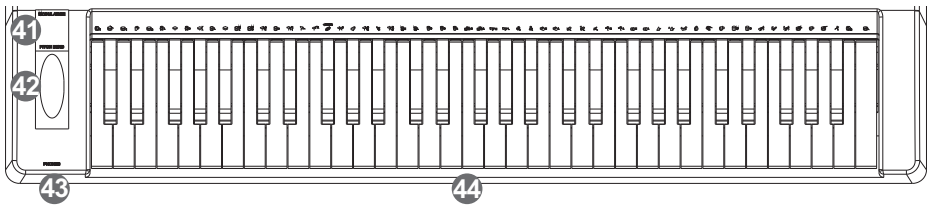
3. SUSTAIN JACK
Connect a sustain pedal.

4. VOLUME JACK
Connect a volume pedal.

5. AUX. OUT JACK
Connect to your amplifier/audio.

6. AUX. IN JACK
Connect any external audio source, such as an MP3 or CD player.

7. DC 12V
Connect DC 12V power adaptor. (Optional)



Main Display



1. **Voice**

Display voice name and octave data of each part. (Right1, Right2, Right3, Left)
How to select the voice for each part?
For example:

1. Pressing anywhere in the R1 display area makes the R1 part selected.
2. Pressing again will call up the Voice Selection display. Now, you can select the voice for R1.

2. **Style&Song**

Display the currently selected style name, for example “8Beat Ballad”. Pressing this name will call up the Style Selection.
Pressing song tab will display the currently selected song name, for example “Brahms Waltz”. Pressing this name will call up the Song Selection display.

3. **Performance**

Display the currently selected performance name. Pressing this name will call up the Performance Selection display.

4. **Chord**

Display the chord name and related information.
A. Chord Name
B. Chord Mode
C. Split

5. **Shortcut to setup pages**

- Pressing “Split Point” will call up the Split Setting quickly.
- Pressing “Effect” will call up the Effect Setting quickly.
- Pressing “Controllers” will call up the Controllers display quickly.

6. **Others**

- The amount of transposition in semitone units.
- Current tempo.
- Current playback position.
- Current time signature.

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

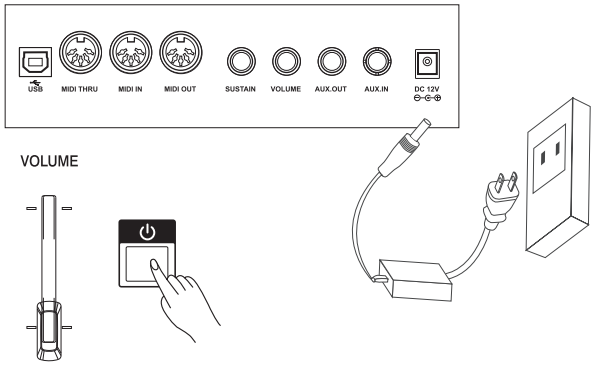
Power Supply

1. Move the MASTER VOLUME slider downwards to set the minimum volume level.

2. Connect the AC/DC adaptor to the power supply jack.

3. Plug the AC/DC adaptor into an AC outlet.

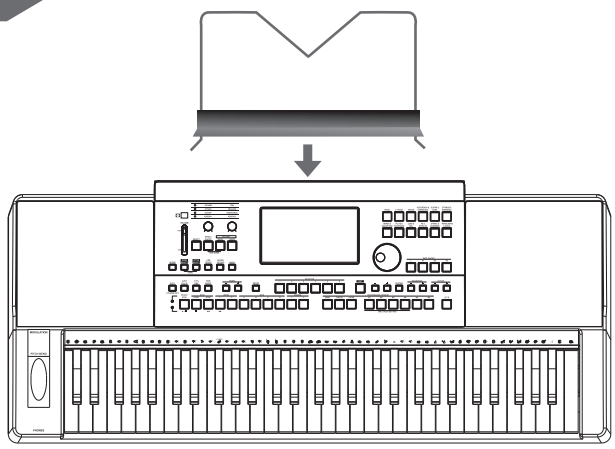
4. Turn the power ON. The LCD on the panel will light up.



Note:
When the keyboard is not in use or in the time of thunderstorm, please disconnect the power for safety purpose.

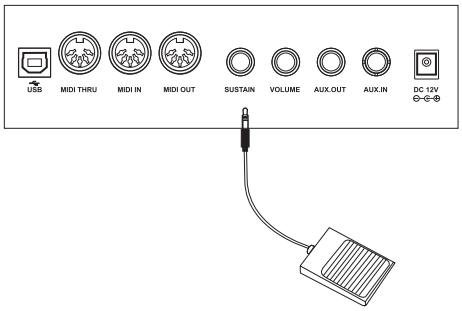
Setting a Music Stand

The instrument is supplied with a music stand that can be attached to the instrument by inserting it into the slot at the rear of the panel.



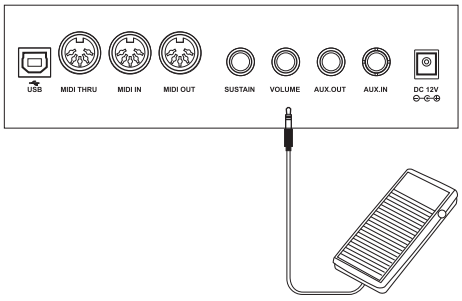
Connecting a Footswitch

The sustain function lets you produce a natural sustain as you play by pressing a footswitch. Plug an optional footswitch into this jack and use it to switch sustain on or off.



Connecting a Volume Pedal

An optional volume control can be plugged into the volume jack for adjusting the volume of sound.

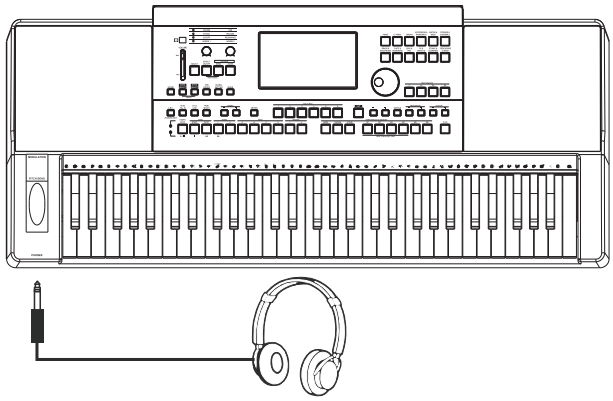


Connections

Connecting a pair of Headphones

When an optional pair of stereo headphones is connected with the headphones jack, the sound from speakers will switch off automatically resulting in only the sound from headphone to be heard for private practice or late-night playing.

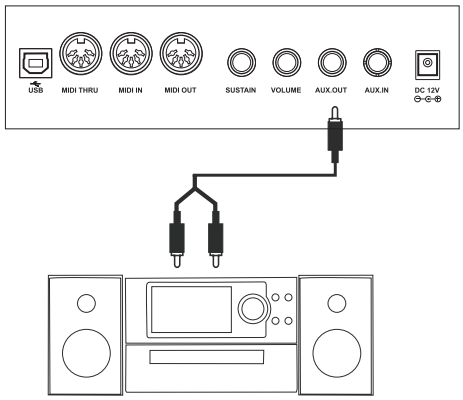
Note:
Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.



Connecting an Audio Equipment

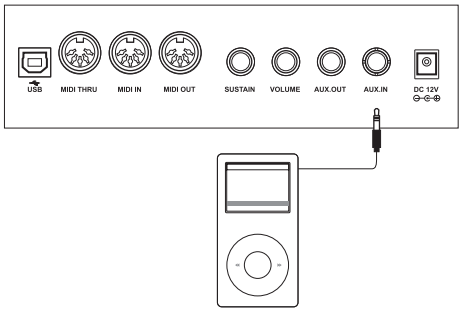
Connect the rear-panel AUX.OUT jack to amplified speakers, amplifiers or domestic hi-fi units for external amplification.

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.



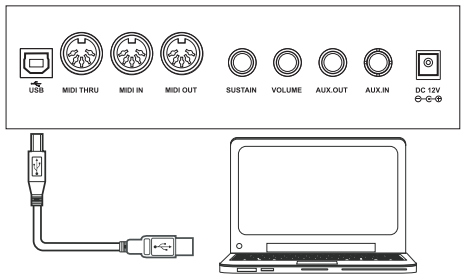
Connecting an MP3/CD Player

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 instrument signal, allowing you to play along.

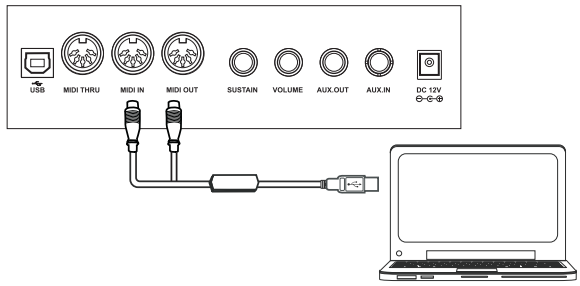


Connecting a Computer

You can simply connect the computer with USB cable via the USB connector.



You can use a commercially available MIDI interface to connect the keyboard to the computer via the MIDI connectors.



Note:
The default MIDI I/O device is USB, So please first set this device as MIDI, and then connect to the computer. (The setting operation see Global Setting-MIDI IN/OUT.)

After the driver is installed and initialization is finished, you can choose USB MIDI Keyboard in the device menu of the software to transfer MIDI data.

Note:
Do not select USB MIDI Keyboard in both of input and output settings together, otherwise the sound overlaps.

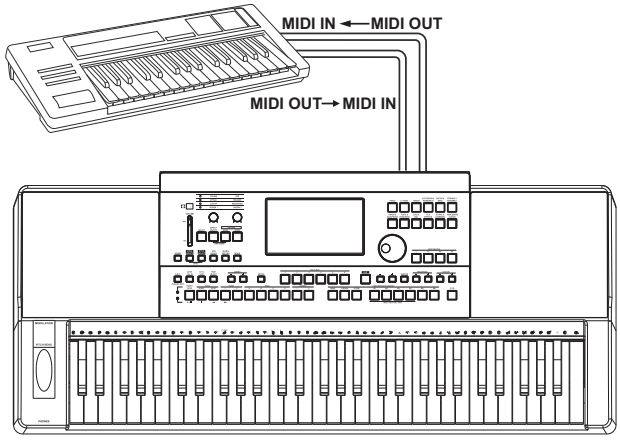
Connecting external MIDI devices

You can use standard MIDI cables to connect external MIDI devices.

MIDI IN: Receive MIDI message from an external MIDI device.
MIDI OUT: Transmits MIDI message generated by the instrument.
MIDI THRU: Simply relays the MIDI message received at MIDI IN.

Note:
To avoid damages, please be sure to turn off the power switches before you disconnect the related devices from the keyboard.

The default MIDI I/O device is USB, So please first set this device as MIDI, and then connect to the external MIDI device. (The setting operation see Global Setting-MIDI IN/OUT.)



Selection Operation

There are some selection interfaces: voice selection, style selection, song selection, performance selection, etc.
How to select the file in these selection interfaces?



For example:

***1.* Location of data**

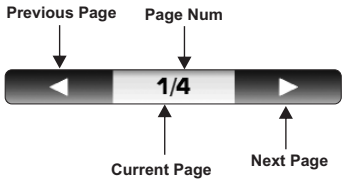
Preset: Location where pre-programmed (preset) data is stored.
User: Location where recorded or edited data is saved.
USB: Location where data on USB storage device is saved.

***2.* Category of data**

The files are divided into categories according to their types. The categorization will be selected by pressing this categorization name on LCD. For example: The voice file (Grand Piano) is in the Piano categorization. Pressing “Piano” will select the Piano categorization.

***3.* Flip and File Browsing**

If there are too many files in one category, the files will be on paging show. You can select your desired page by pressing the cursor button on LCD.



***4.* File Selecting**

Select the desired file by pressing the file name on the current page.

Using the Soft Keyboard

When you name or rename a file or a folder, you should call up soft keyboard display.







1. Deleting characters:
Press the delete button.

2. Moving the cursor:
Press the right or left cursor button.

3. Entering capital characters:
Press the CAPS button, the capital characters will be displayed.

4. Entering space:
Press the space button.

5. Entering numbers or marks:
Press the numbers button, the numbers and marks will be displayed.
Enter the number or mark by pressing its button.

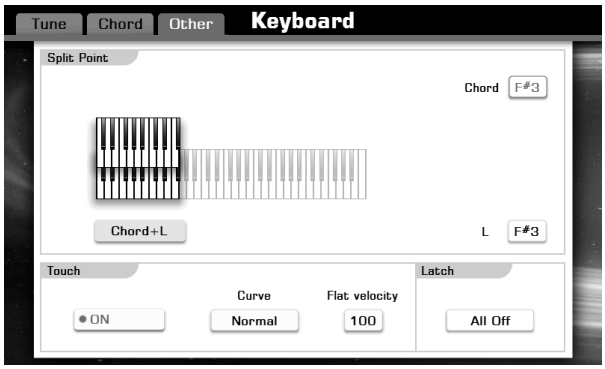
Press the OK button to actually enter the new name and return to the previous display.

Press the CANCEL button to cancel operations and return to the previous display.

Setting Operation

There are three types on parameter setting.

1. **ON/OFF** (as in the picture: ● On)
Press this “ON” button to switch the keyboard touch response ON or OFF.

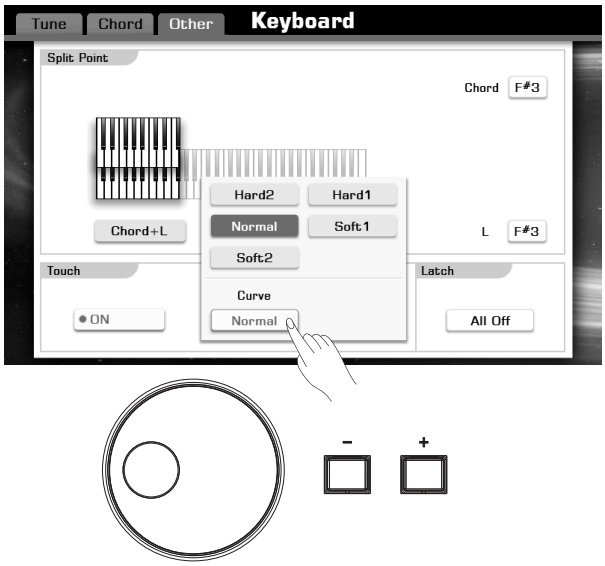


2. **LIST** (as in the picture: Curve Normal)
Press this “Normal” button, all available parameters would be listed.
You can choose any one of 3 ways below:
1. Press your desired parameter on LCD to select it.

2. Use the DATA DIAL to select your desired parameter.

3. Press the [+] or [-] button to select your desired parameter.

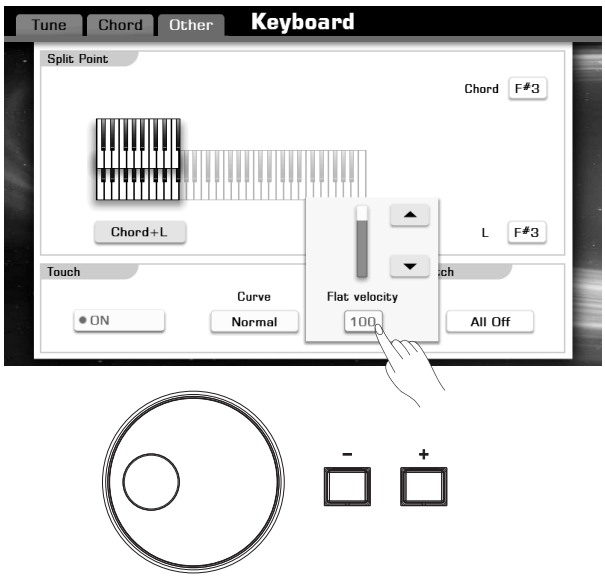
The selected parameter will be highlighted.



3. **DATA** (as in the picture: Flat velocity 100)
Press this “100” button to display a pop-up box.
You can choose any one of 3 ways below:
1. Press the “+” or “-” button to adjust the data.

2. Use the DATA DIAL to adjust the data.

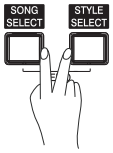
3. Press the [+] or [-] button to adjust the data.

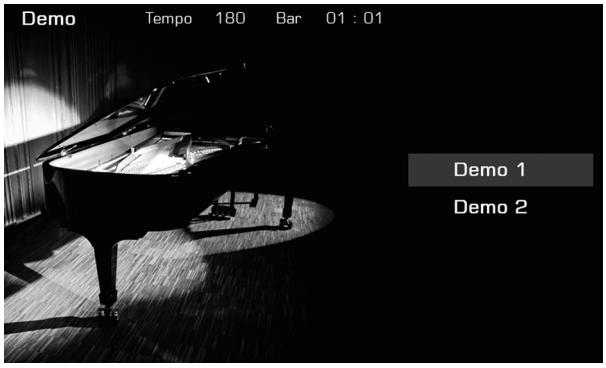


Playing the Demos

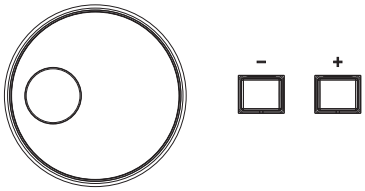
The instrument features 2 wonderful demos. Please refer to ***DEMO LIST***.

Press the [SONG SELECT] and [STYLE SELECT] buttons simultaneously to start playing the demo.





Select your desired demo
Press the Demo name on LCD or use the DATA DIAL, the [+] or the [-] button to select your desired demo.



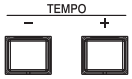
Pause the demo
Press the [PAUSE] button to pause the demo playing or continue playing the demo.



Stop the demo
Press the [PLAY/STOP] button to stop the demo playback.



Adjust the tempo of the demo playback
Press the [TEMPO+] or [TEMPO-] button to adjust the tempo of the playback demo.



Exit the demo
Press the [EXIT] button to stop the demo playback and return to the main display.

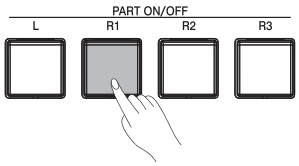


The instrument features exceptionally realistic 672 voices(Including 256 GM2 instrument voices and 15 drum kits), including piano, guitar, strings, brass and many more. Please refer to ***Voice List.***

Turn the R1 PART on

Press the PART ON/OFF [RIGHT 1] button to turn the R1 part on.

You can play different voices simultaneously or play different voices with the left and right hands. First, turn on the corresponding part.



Select a Voice for R1 PART

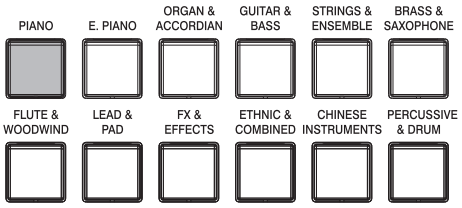
1.There are 2 methods to select the voice category.

- Press one of the VOICE buttons to select a voice category and call up the Voice Selection display.
- Press the R1 display area on Main Display to call up the Voice Selection display. Press one of the voice categories NAME on the Voice Selection display.

2. Press the cursor button on LCD to select your desired voice page.

3. Press the voice NAME to select the desired voice on the current page display.

You can also select the user voice, details see ***Voice***.

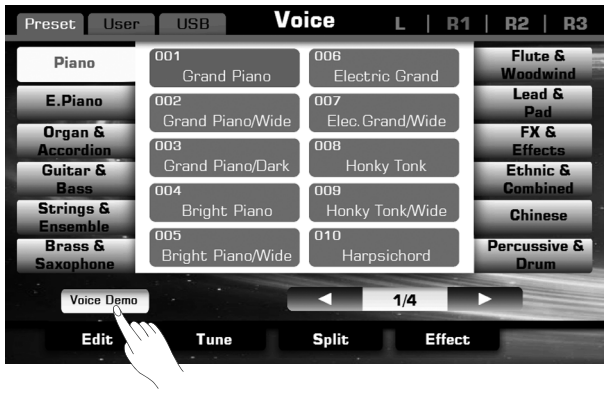




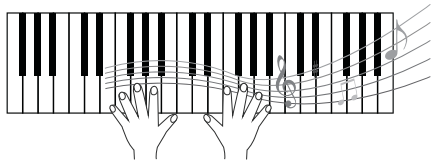
Play the Voice Demo

Press the “Voice Demo” on the Voice Selection display to start the demo for the selected voice. Press the “Voice Demo”again to stop it.

Note:
If there isn't voice demo for the selected voice, “Voice Demo” will not be displayed.



Play the keyboard and listen to the selected voice.



Playing with a Style

The instrument features 240 styles in a variety of different musical genres. Try selecting some of the different styles (Refer to ***Style List***) and play with the auto accompaniment.

Select a style

1. There are 2 methods to call up the Style Selection display.
- Press the [STYLE SELECT] button.
- Press STYLE Name on the Main Display.

2. Press one of the style categories NAME on the Style Selection display to select the style category.

3. Press the cursor button on LCD to select your desired style page.

4. Press the style NAME to select the desired style on the current page display.

You can also select the user style, details see ***Style***.





Start a style

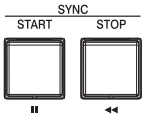
1. Press the [A.B.C.] button, the specified left-hand section of the keyboard becomes the “Auto Accompaniment” section, and chords played in this section are automatically detected and used as a basis for fully automatic accompaniment with the selected style.

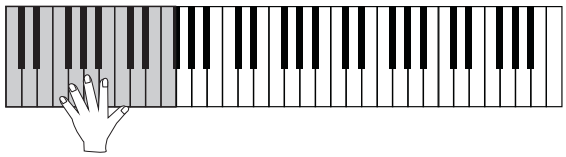
2. Press the [SYNC START] button to set Auto Accompaniment to standby—letting you simultaneously start the accompaniment as soon as you start playing.

3. As soon as you play a chord with your left hand, the accompaniment starts.

4. Press the [START/STOP] button to stop the accompaniment.









The instrument features 90 songs.

Select a Song



1. There are 2 methods to call up the Song Selection display.
- Press the [SONG SELECT] button.
- Press Song Name on the Main Display.

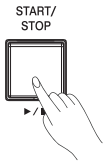
2. Press the song NAME to select the desired song on the current page display.



You can also select the user song, details see ***Song***.

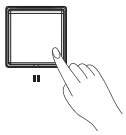
Playback a Song

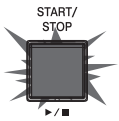
1. Press the [PLAY/STOP] button to start playback the selected song. The LED of [PLAY/STOP] will light up.



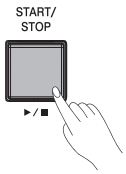


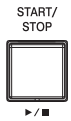
2. Press the [PAUSE] button to pause the playing song, Press the [PAUSE] button again to continue it.





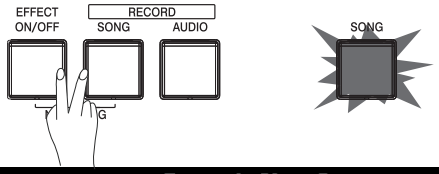
3. Press the [PLAY/STOP] button to stop the playing song.

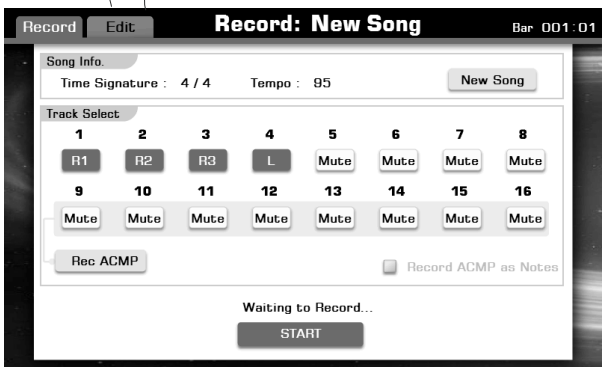




Record Your Performance to MIDI

1. Press the [RECORD SONG] and [EFFECT ON/OFF] buttons simultaneously to call up the Recording Display. A blank song ("New Song") is called up for recording. The LED of [RECORD SONG] is flashing that means it is in the recording standby mode.

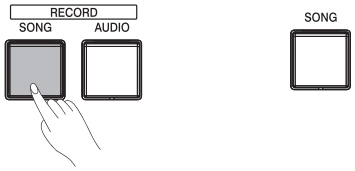




2. Press the [PLAY/STOP] button or play the keyboard to start recording. The LED of [RECORD SONG] will light up.

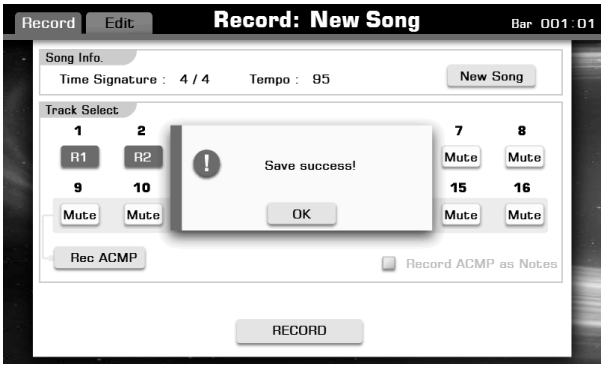


3. Press the "STOP" button on the Recording Display or press the [RECORD SONG] button to stop recording and call up soft keyboard display. The LED of [RECORD SONG] will be turned off.



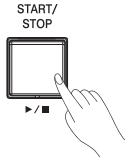
4. Enter the new name and press "OK" to save the new user song.





5. Press the [PLAY/STOP] button to playback the recorded user song.

If you want to record R1, R2, R3, L simultaneously or record melody and accompaniment simultaneously, you may refer to ***MIDI RECORDING*** for details.

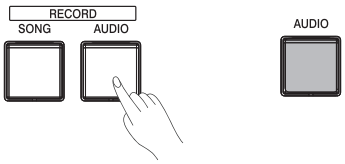


Recording Your Performance as Audio

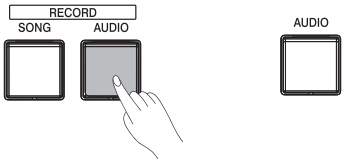
You can record your performance as CD quality audio file to a USB device.

1. Please connect your USB storage device drive to the keyboard.

2. Press the [RECORD AUDIO] button to start recording your performance. The LED of [RECORD AUDIO] will light up.



3. Press the [RECORD AUDIO] button again to stop recording your performance and call up soft keyboard display. The LED of [RECORD AUDIO] will be turned off.



3. Enter the name and press “OK” to save the audio file you just recorded.



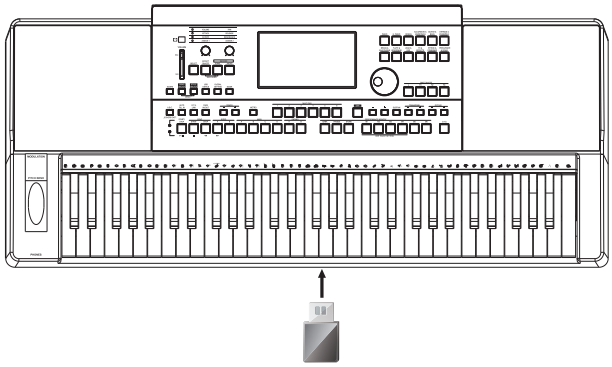
4. Press the [PLAY/STOP] button to play the recorded audio song.



For details see ***Audio Recording***.

Using a USB Storage Device

By connecting a USB storage device to your instrument, you can save data you've created to the connected device, as well as read data from the connected device.



Compatible USB device
Recommended Brand: KINGSTON, SANDISK, SONY, LEXAR, TRANSCEND
Format: FAT 16/32
Capacity: 1G,2G,4G,8G,16G,32G

Using the USB device
1. Connect the USB storage device to the USB port.
2. Press the [USB DEVICE] button to display the folders and files under the root directory of USB device.



Press the USB tab on each selection display (such as voice, style, song, performance), enter the relevant folder directly, and save, rename or delete the user files from USB device.



Note
If you save your files to your USB storage device in file selection displays (like VOICE Selection or Song Selection), the files would be saved into folder "PianoUser" in the root directory of your USB storage device.



The instrument has a huge selection of various musical instrument voices which you can play. Try out the different voices referring to the voice list in the appendix.

Playing Various Voices

The instrument allows you to play several different voices together in a layer, or play one voice with your left hand while you play a different voice (or even three layered voices!) with your right.

Keyboard Parts

Voices can be assigned independently to each keyboard part: Right 1, Right 2, Right3, and Left. You can combine these parts by using the PART ON/OFF buttons to create a rich, ensemble sound.

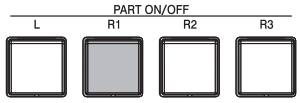
Playing a single Voice (Right 1)

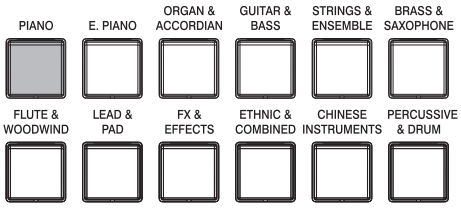
You can play a single voice over the entire keyboard range.

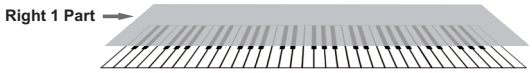
1. Press the PART ON/OFF [RIGHT 1] button to turn the R1 part on. Use the other PART ON/OFF buttons to turn R2 part, R3 part, L part off.

2. Select a voice for R1.
Press one of the VOICE buttons to call up the Voice selection display for the R1 part.
If you want to select the user voice, press the “User” to select the USER display or press the “USB” to select the USB display.
Press the cursor button on LCD to select your desired voice page.
Press the voice NAME to select the desired voice on the current page display.

3. Play the keyboard and listen to the voice.









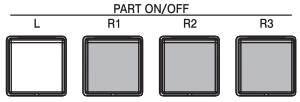
Playing Two or Three Voices Simultaneously (Right 1, 2, 3)

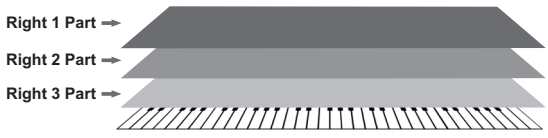
You can simulate a melody duet or trio.

1. Turn on all the keyboard parts you need by using the PART ON/OFF buttons on the panel.

2. Open the voice selection screen by voice buttons, choose a keyboard part in the top left corner of the screen to select its voice. You can select voices for different parts by doing so.

3. Play the keyboard and listen to the performance.





Playing Different Voices with the Left and Right Hands

You can combine these four parts to create a rich, ensemble sound.

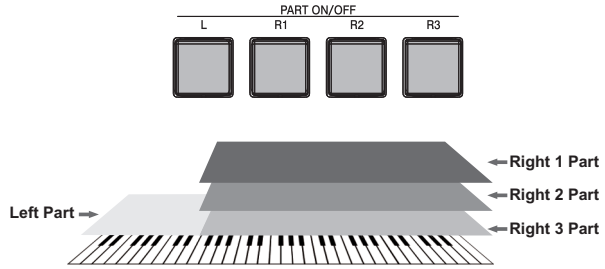
1. Make sure one or more right hand parts are turned on.

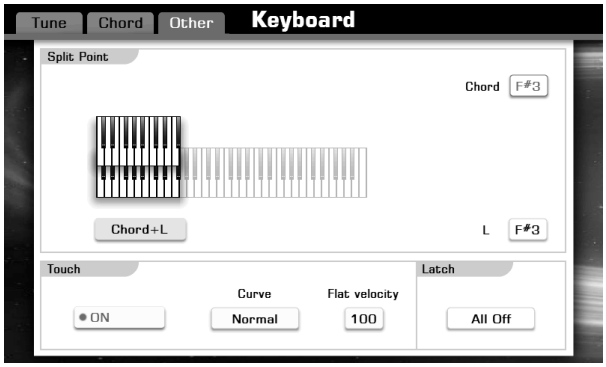
2. Press the PART ON/OFF [LEFT] button to turn it on.

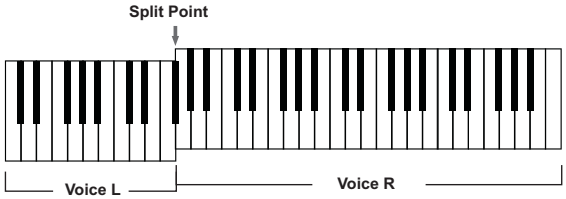
3. Select a voice for LEFT.
Press one of the VOICE buttons to call up the voice selection display for the Left part.
Press the cursor button on LCD to select your desired voice page.
Press the voice NAME to select the desired voice on the current page display.

4. Set split point.
The point on the keyboard that separates L and R1/R2/R3 is called the “split point”. The split point is set to F#3 at the factory setting, however you can set this to any key you wish.
Pressing “SPLIT POINT” on main display or pressing “Split” on voice selection display will call up the Split Setting display.
Press Left area and make the left split point selected. Use the DATA DIAL, the [+] or the [-] button or press the key directly to set your desired split point.

5. Play the keyboard with your hands.





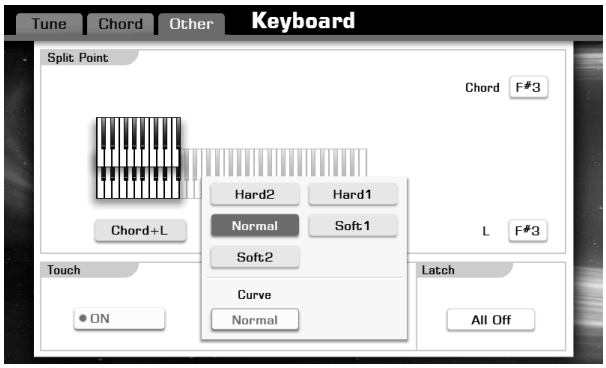


Setting the touch sensitivity of the keyboard

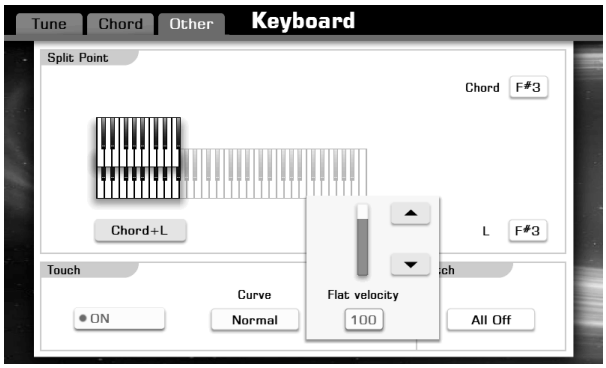
Pressing “SPLIT POINT” on main display or pressing “Split” on voice selection display will call up the Touch Sensitivity Setting display.

1. Press this “ON/OFF” button to switch the keyboard touch response ON (orange font display) or OFF (gray font display).

2. Press this “Normal” button to call up a pop-up box showing the other velocity curves.
Use the DATA DIAL, the [+] or the [-] button to select the other curve.
Play the keyboard and select your desired curve.



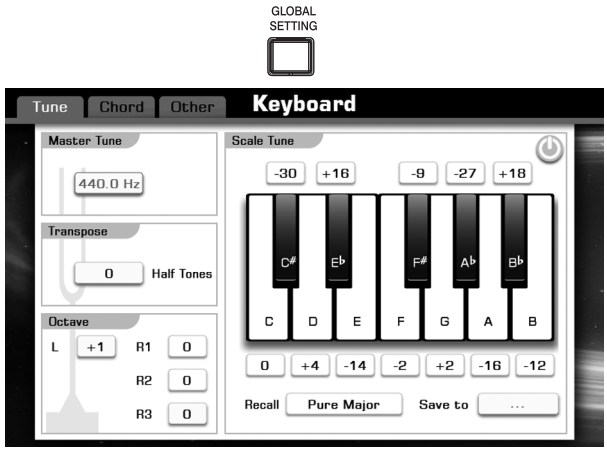
3. Press this “100” button to call up a pop-up box showing the adjustable range of parameters.
Use the DATA DIAL, the [+] or the [-] button to adjust the data.
If the keyboard touch response is OFF, this parameter will be at work.



Selecting Keyboard Latch
Press “All Off” button to call up a pop-up box showing the other selections. Including “All Off”, “Left” and “All On”. Turn the latch function on, the layer voice will continue playing after you remove your hand from the keyboard.

Changing Pitch

Pressing the [GLOBAL SETTING] button will call up the Global Setting display quickly.
Pressing “Keyboard” on the Global Setting display will call up the Tune Setting display.



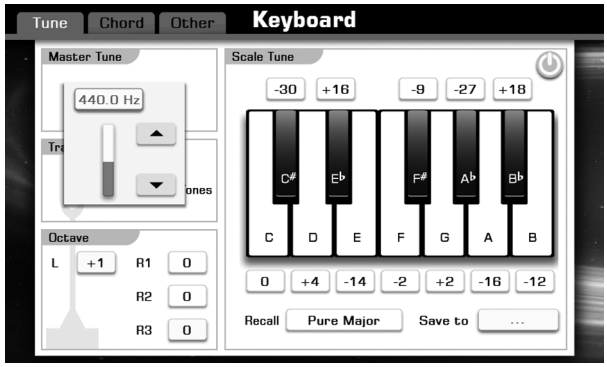
Master Tuning

The Master Tuning function sets the overall pitch of the instrument.

1. Press the Master Tune “440.0Hz” button on the Tune Setting display to call up a pop-up box showing the adjustable range of parameter.

2. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data, you can set the parameter from 415.4Hz to 466.2Hz.

3. Press the [+] button and the [-] button simultaneously to set the default value 440.0Hz.

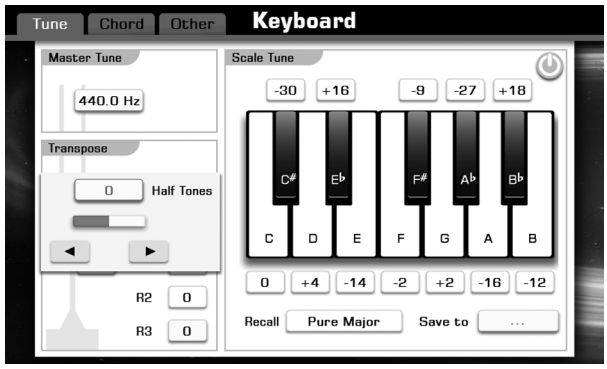


Transpose

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

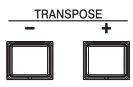
Method1:

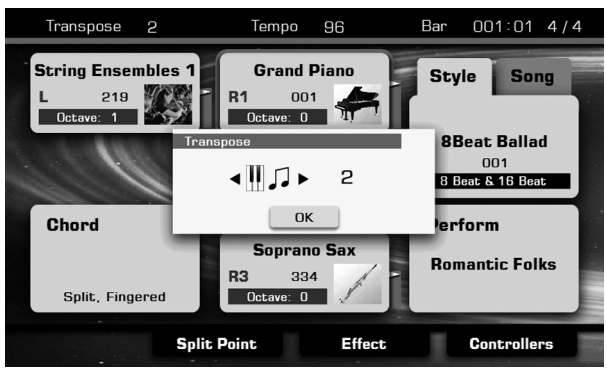
1. Press the Transpose “0” button on the Tune Setting display to call up a pop-up box showing the adjustable range of parameter.
2. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data.



Method2:

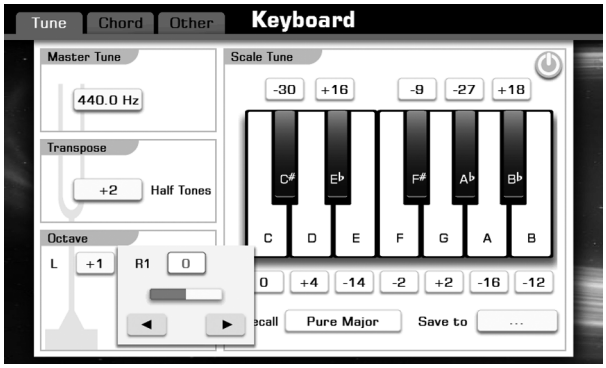
1. Press the [TRANSPOSE +] button or the [TRANSPOSE-] button to set the value, the range of parameter is from -12~+12.
2. Press the [TRANSPOSE +] button and the [TRANSPOSE-] button simultaneously to set the default value 0.





Octave

Shifts the pitch of the specified voice or track up or down by octaves. A setting of “0” produces normal pitch.
You can adjust the range of the pitch change in octaves for each keyboard part (R1, R2, R3, L).

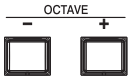


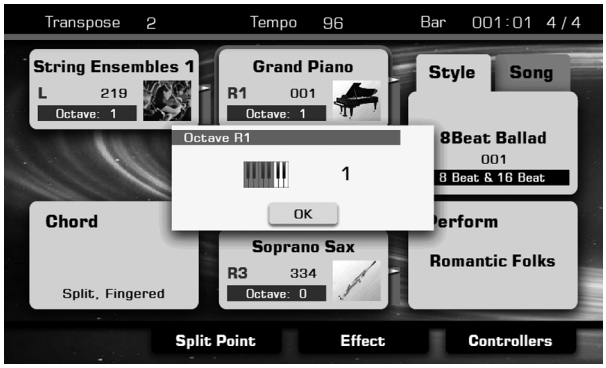
Method1:

1. Press the R1 “0” button on the Tune Setting display to call up a pop-up box showing the adjustable range of octave.
2. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

Method2:

1. Select a keyboard part in the main screen by pressing the corresponding area.
2. Press the [OCTAVE +] button or the [OCTAVE -] button to set the relative octave, ranging from -1~+1.
3. Press the [OCTAVE +] button and the [OCTAVE -] button simultaneously to set the default octave 0.



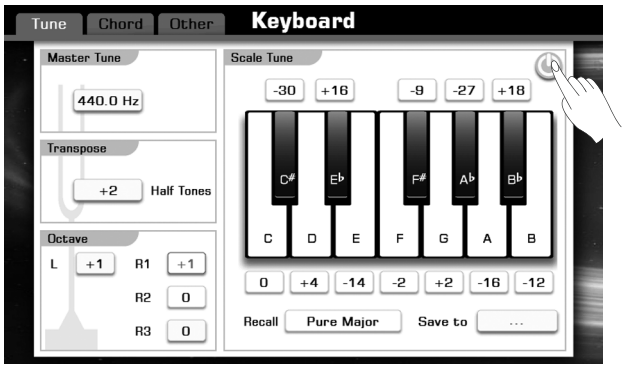


Scale Tune

Scale tune allows each individual note of the octave to be tuned over range from -50 to +50 cents in 1-cent increments (1 cent = 1/100th of a semitone). This makes it possible to produce subtle tuning variations, or tune the instrument to totally different scales (e.g. classic or Arabic scales).

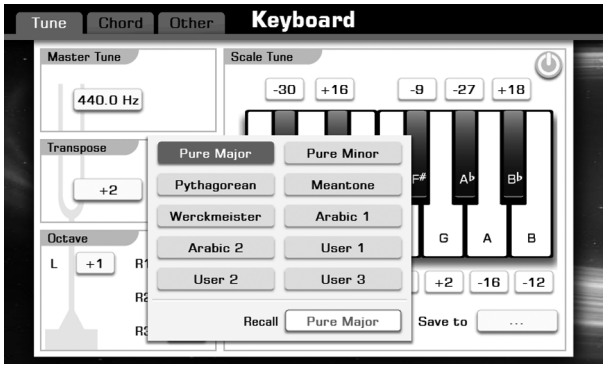
Turn on Scale Tune

Press the ⏻ button on the Scale Tune Setting display to turn on or off this function.
When Scale Tune is ON, the box and the ⏻ button will be changed from gray to orange.



Select Preset Scale Types

1. Press the Recall “Pure Major” on the Scale Tune Setting display to call up a pop-up box showing the scale types.
2. Press the scale name on pop-up box or use the DATA DIAL, the [+] or the [-] button to select your desired scale type.



Pure Major & Pure Minor
These tunings preserve the pure mathematical intervals of each scale, especially for triad chords (root, third, fifth). You can hear this best in actual vocal harmonies – such as choirs and a cappella singing.

Pythagorean
This scale was devised by the famous Greek philosopher and is created from a series of perfect fifths, which are collapsed into a single octave. The 3rd in this tuning are slightly unstable, but the 4th and 5th are beautiful and suitable for some leads.

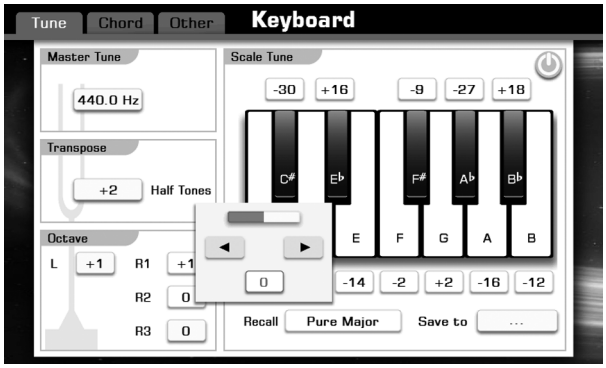
Meantone
This scale was created as an improvement on the Pythagorean scale, by making the major third interval more “in tune.” It was especially popular from the 16th century to the 18th century. Handel, among others, used this scale.

Werckmeister
The main feature of this scale is that each key has its own unique character. The scale was used extensively during the time of Bach and Beethoven, and even now it is often used when performing period music on the harpsichord.

Arabic
Use these tunings when playing Arabic music.

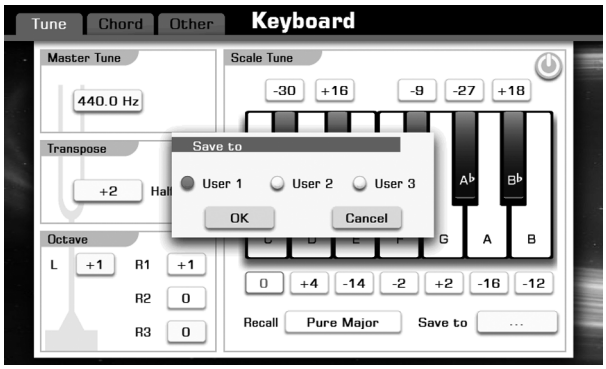
Tune the individual note

1. Press the C “0” button on the Scale Tune Setting display to select the note to be tuned and call up a pop-up box showing the adjustable range of tune.
2. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data.



Save to User Scale

1. Press the Save to “…” button on the Scale Tune Setting display to call up a pop-up box as picture.
2. Press the dot in front of user scale name to select the user scale. There are 3 user scales: User 1, User 2, User 3.
3. Press “OK” to confirm saving to the selected user scale.



Adjusting the Volume of Voices

In the mixer interface, you can adjust the levels and stereo position (pan) of each voice.

1. Press the [MIXER] button to call up the Mixer display.

2. Press “Master” to call up the relevant setting display.

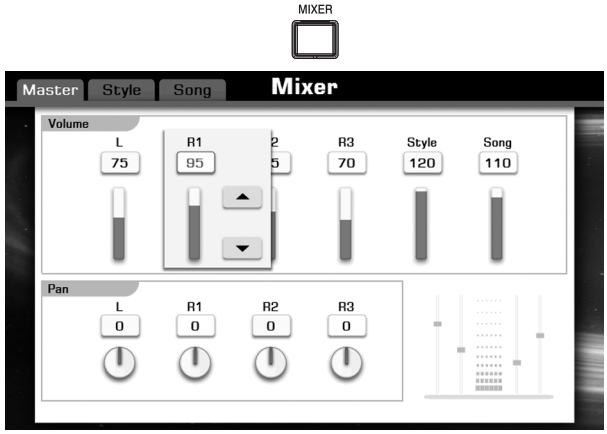
3. Press R1 “95” button in the volume box to call up a pop-up box showing the adjustable range of volume.

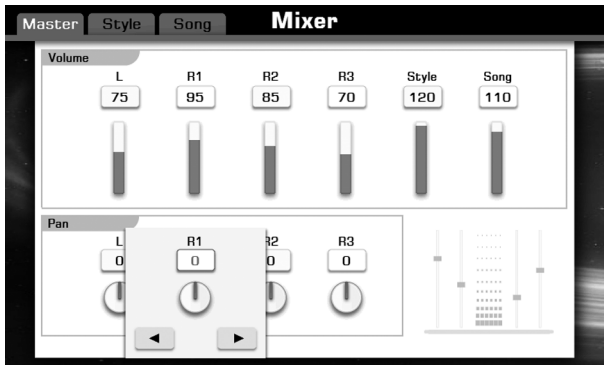
4. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

5. Press R1 “0” button in the pan box to call up a pop-up box showing the adjustable range of pan.

6. Press the “+” or “-“ button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

If you want to adjust the volume of other parts (R2, R3, L, Style, Song) or the pan of other parts (R2, R3, L), just press the relevant button and operate according to the above steps.





Adding Effects to Voices

There are three effects: Arpeggiator, Harmony, Chopper. You can apply various effects to your voice.
Pressing “EFFECT” on main display or pressing “Effect” on voice selection display will call up the Effect display.

Select the desired part

Press the “R1” button to call up a pop-up box as shown to the right.
Press the relevant button (R1,R2,R3,L) to select your desired part for which you want to add effects.

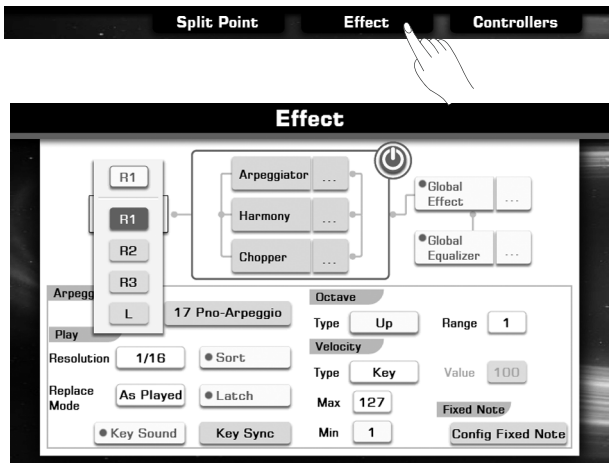
Turn On/Off Effects

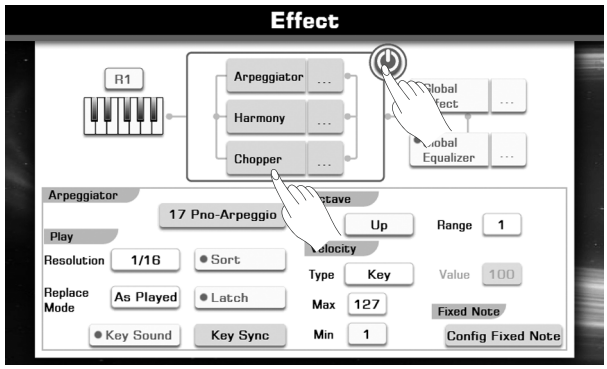
Press the “ ” button on Effect display to turn on/off all effects you’ve set them on. When effects are ON, the box and the button will be changed from gray to orange.

Press this “Arpeggiator” button to switch the arpeggiator effect ON or OFF.

Press this “Harmony” button to switch the harmony effect ON or OFF.

Press this “Chopper” button to switch the chopper effect ON or OFF.

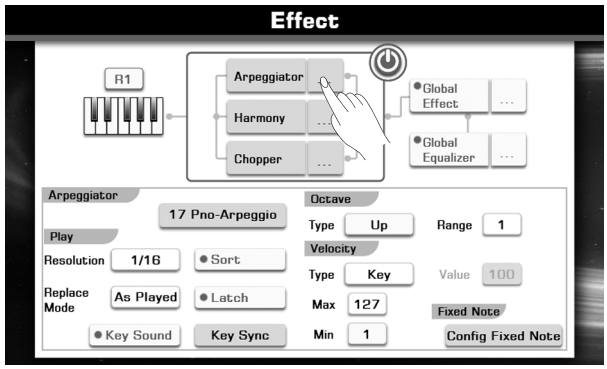




Arpeggiator

The arpeggiator is a function that automatically generates arpeggios (playing the notes of the chord individually, with a constant tempo). You can make settings for the arpeggiator used in the voice. There are more than 120 internal Arp patterns you can select. You can also select your original Arp patterns that are made by GrandSuit software on PC and saved to USB Storage Device.

Press the “Arpeggiator ...” button on the Effect display to call up the Arpeggiator Setting display.



Arpeggiator parameters:

1. Pattern

Press the Arp pattern name (Ex.17 Pno-rpeggio) to call up the Arp Pattern Selection display.

Press the Arp Pattern name to select your desired Arp Pattern.

Press the [EXIT] button to exit to the Effect display.

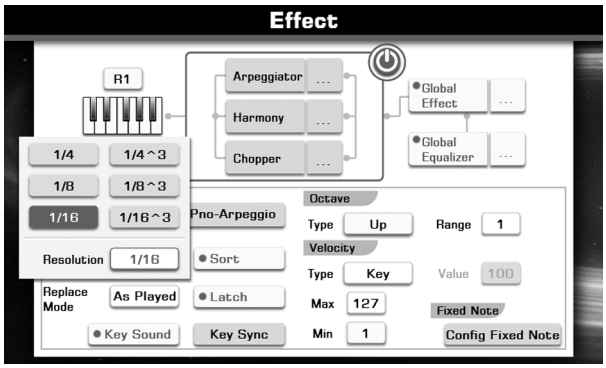


2. Resolution

Specify the timing resolution of the arpeggio. The notes of the arpeggio will be played ate the interval you specify: 1/16^3,1/16, 1/8^3, 1/8, 1/4^3, 1/4.

Press the “Resolution 1/16” button to call up a pop-up box showing the timing resolutions of the arpeggio.

Press the resolution button or use the DATA DIAL, the [+] or the [-] button to select the resolution.



3. Sort

This specifies the order in which the notes you press will be arpeggiated.

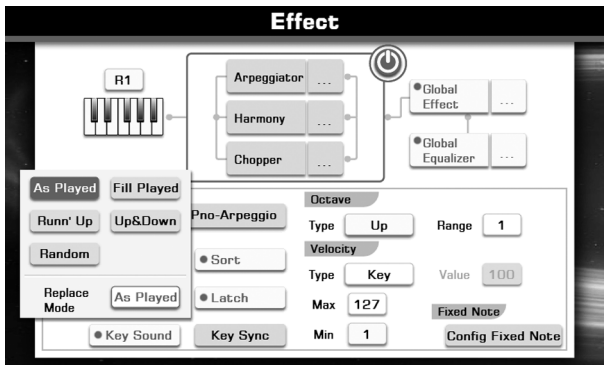
Press the “Sort” button to switch this function ON or OFF.

ON: Notes will be arpeggiated in the order of their pitch, regardless of the order in which you pressed them.

OFF: Notes will be arpeggiated in the order in which you pressed them.

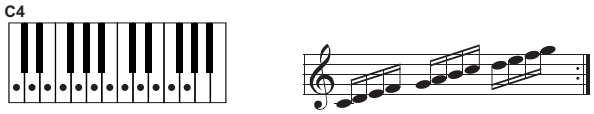
4. Replace Mode

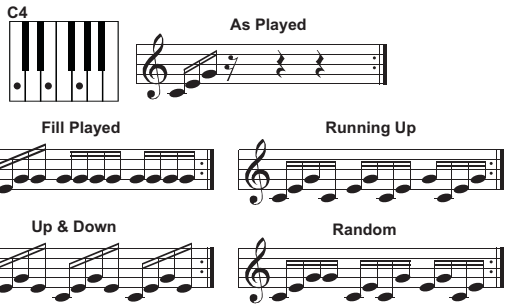
Press the “As Played” button to call up a pop-up box showing the replace modes.



Example 1:

Preset Arp Pattern: 01 Up Down; Sort:On; Resolution:1/16



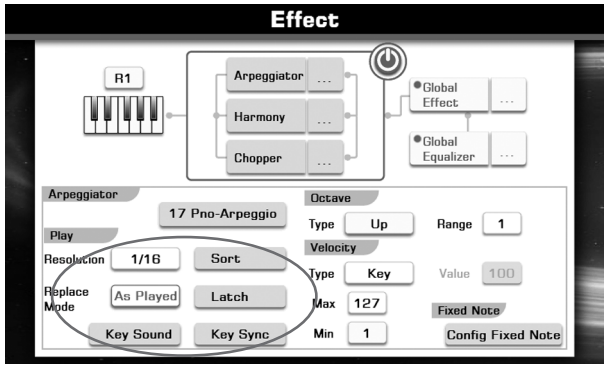


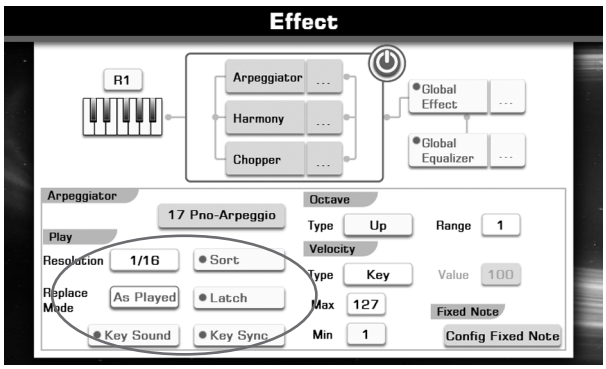
5. Latch
Press the “LATCH” button to switch this function ON or OFF.
ON: The arpeggio will continue playing after you remove your hand from the keyboard.
OFF: The arpeggio will stop when you remove your hand from the keyboard.

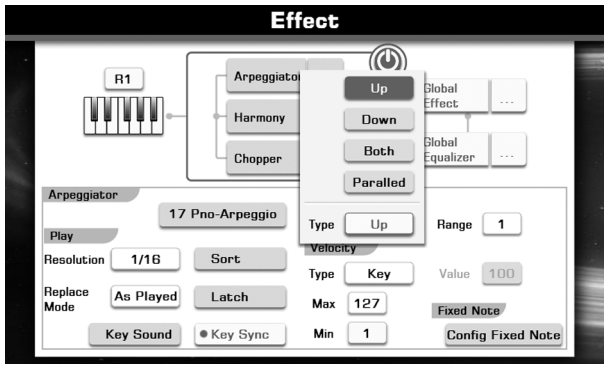
6. Key Sound
Press the “KEY SOUND” button to switch this function ON or OFF.
ON: The notes you played will be sounded, in addition to being sounded as part of the arpeggio.
OFF: Only the arpeggiated notes will be heard.

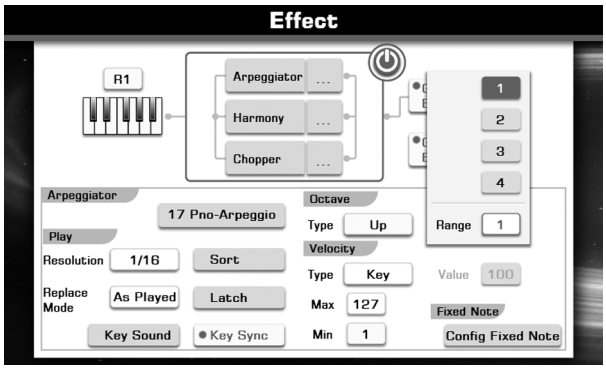
7. Key Sync
Press the “KEY SYNC” button to switch this function ON or OFF.
ON: The arpeggio pattern will start playing once a note is played on the keyboard.
OFF: The arpeggio pattern will always play according to the tempo.

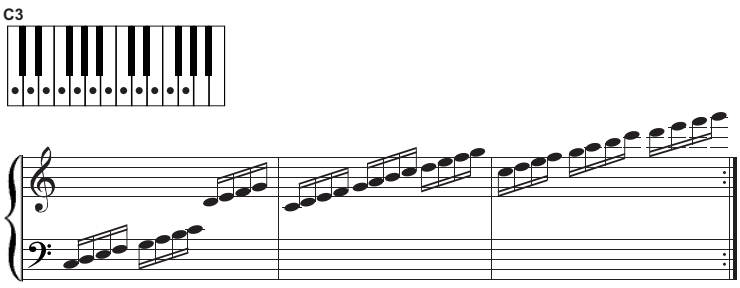
8. Octave
Press the “Range 1” button to call up a pop-up box showing the numbers of octaves in which the arpeggio will be played.
Press the “Type UP” button to call up a pop-up box showing the arpeggio playing type in the octave ranges.
Example1:
Preset Arp Pattern: 01 Up Down; Sort: On; Resolution: 1/16;
Replace Mode: As played; Key Sound: On; Octave Range: 3

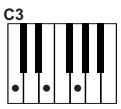


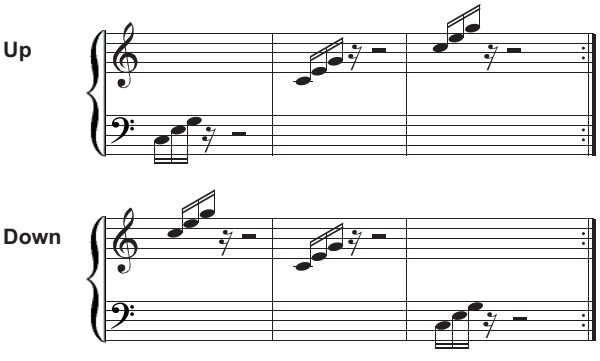


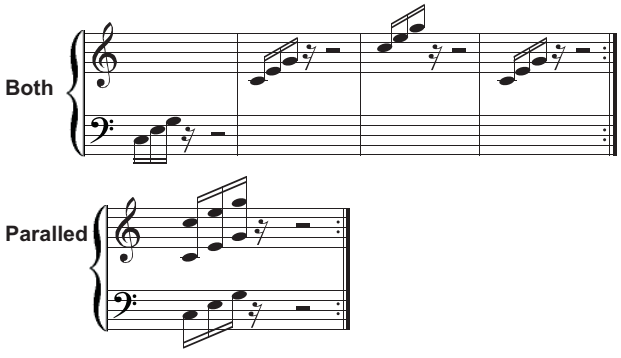












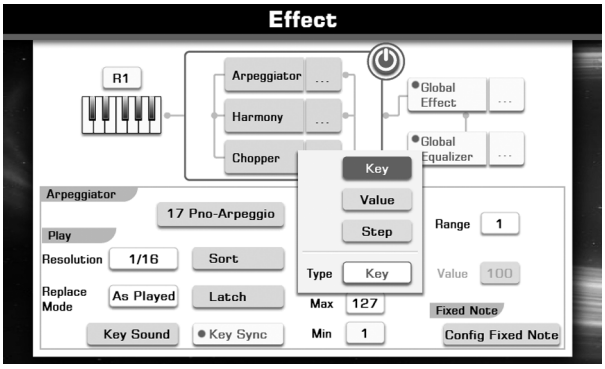
9. Velocity
Specifies the velocity of the notes in the arpeggio.

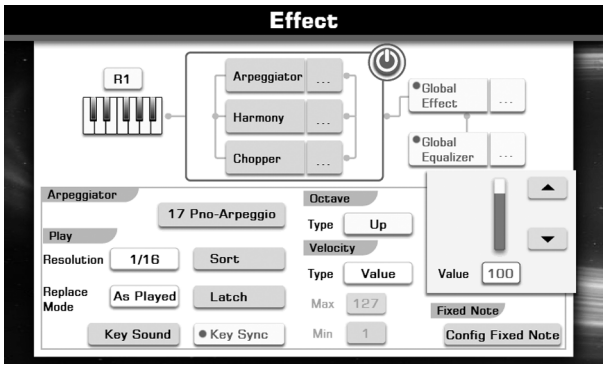
Press the Type “Key” button to call up a pop-up box showing the velocity types.

Key: Each note will sound with the velocity value at which it was actually played. You can also set the range of the velocity. “Min”and “Max”. If the velocity value is not in the range of the specified velocity, the arpeggio pattern will not play.

Value: Each note will sound with the specified velocity values.

Step: Each note will sound with the velocity specified for each step.





10. Fixed Note
With this Fixed Note setting, the arpeggio pattern will always play the specified pitches regardless of the note numbers received from the keyboard.

Press the “Configure Fixed Note” button to call up the Fixed Note Setting display.

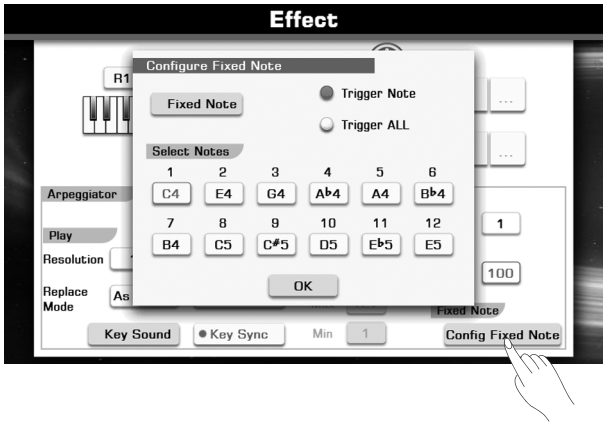
Press this “Fixed Note” button to switch the function ON or OFF.

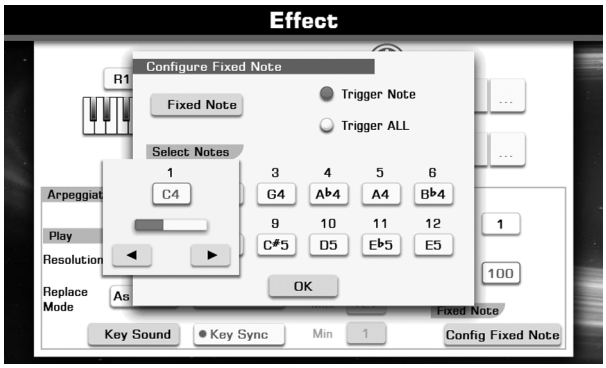
You can also select the different mode to trigger the arpeggio pattern.

Trigger Note: Play the first specified pitch if you play one key on the keyboard.

Trigger All: Play all 12 specified pitches if you play one key on the keyboard.

Specifying the Note: Press this “C4” button to display a pop-up box.



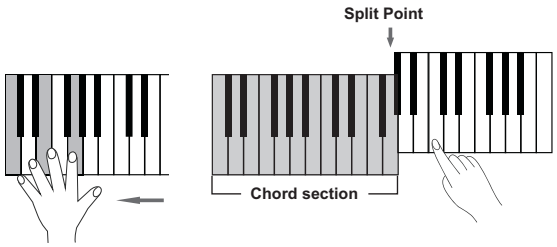


Note:
Please set the replace mode as “As Played”.

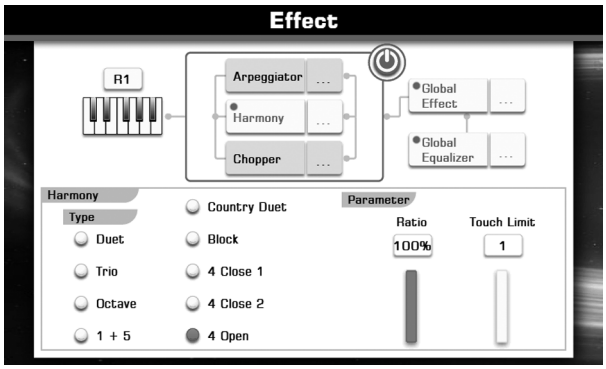
Harmony

If you turn the harmony on, it automatically adds harmony parts to the notes you play with your right hand—immediately giving you a more full and professional sound.

In this example, harmony notes in the scale of C major (the chord played in the left hand) are automatically added to the notes played in the Chord section right-hand range of the keyboard.



Press the “Harmony...” button on the Effect display to call up the Harmony Setting display.



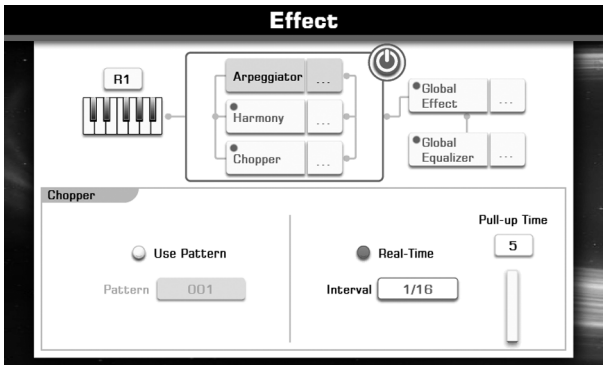
There are nine harmony types: Duet, Trio, Octave, 1+5, Country Duet, Block, 4 Close 1, 4 Close 2, 4 Open. Octave or 1+5 effect is always added by playing a melody with your right hand. The others effect is added by playing chords with your left hand and melodies with your right hand.

Ratio: 20%, 40%, 80%, 100%.
You can adjust the volume level of harmony parts.

Touch Limit: 0-127
You can set the minimum of the response velocity. If you play a melody with your right hand at a velocity less than the setting value, the Harmony part will not be added to the notes.

Chopper

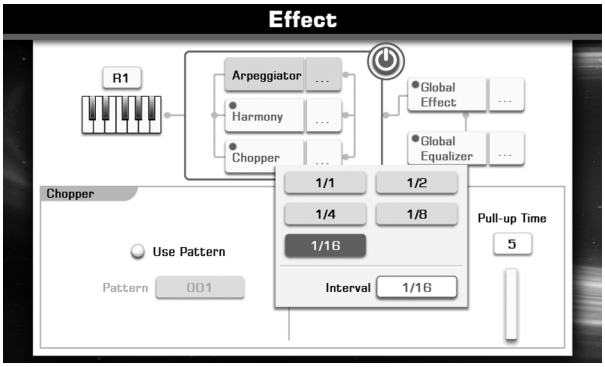
If you turn the chopper on, it automatically adds chopping effect to the notes you hold down. Since the Chopper effect is added by detecting pressed keys. If you release the key, it automatically turns the chopper effect off.



Press the “Chopper...” button on the Effect display to call up the Chopper Setting display.

There are two play modes: Use Pattern or Real-Time.
Mode 1: Use Pattern
There are 25 user patterns you can select. Press the Pattern “001” on the Chopper Setting display to call up a pop-up box showing the the available patterns for selection.

Mode 2: Real Time
There are 2 parameters you can change.
Interval: 1/1, 1/2, 1/4, 1/8, 1/16
Pull-up Time: 5-100



Press the Interval “1/16” on the Chopper Setting display to call up a pop-up box showing the available interval values for selection.

Global Effect

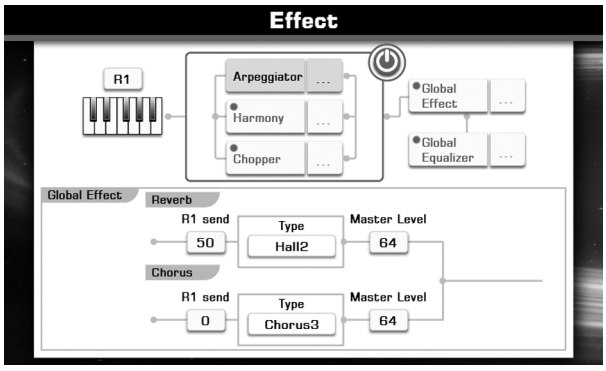
Reverb and Chorus

Reverb: You can create a reverb effect that makes you sound like you are playing in places like a concert hall, or live in a club.

Chorus: You can add a chorus effect that makes your playing sound as though multiple parts were being played together at the same time.

You can select the reverb type and adjust the master reverb level and the channel reverb level.

You can also select chorus type and adjust the master chorus level and the channel chorus level.



Turn On/Off Global Effect and Adjust the Parameter

1. Press the “EFFECT” button on main display to call up the Effect display.

2. Press the “Global Effect” button on the Effect display to turn on Global Effect. This applies the reverb and chorus effects to the entire sound of the instrument.

3. Press the “Global Effect...” button on the Effect display to call up the Global Effect Setting display.

4. Press the Type relevant button (ex. “Hall”) to call up a pop-up box showing the reverb types.

5. Press the relevant type button or use the DATA DIAL, the [+] or the [-] button to select the reverb type.

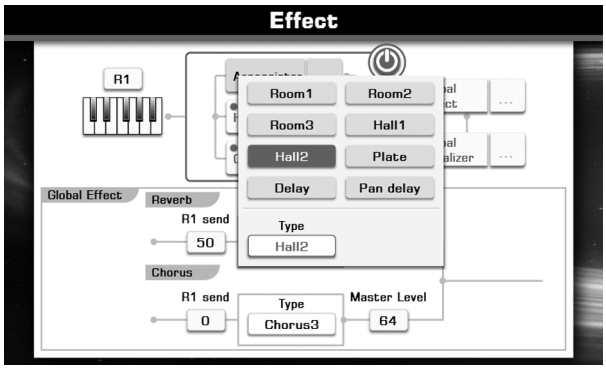
6. Press the Master Level relevant button (ex. “64”) to call up a pop-up box showing the adjustable range of reverb master level.

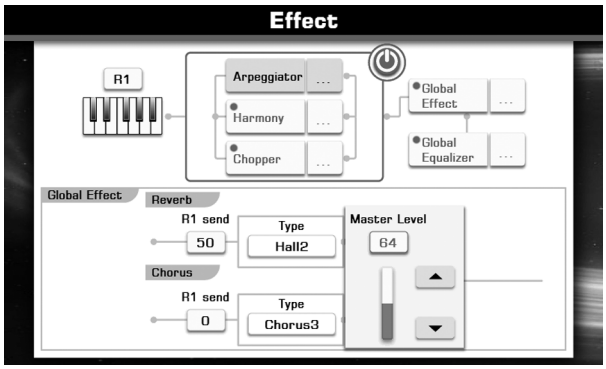
7. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

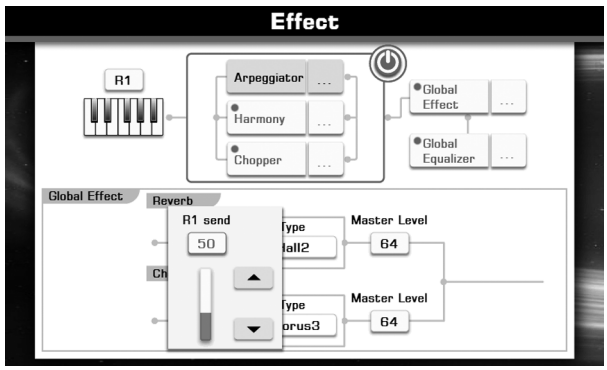
8. Press the channel level relevant button (ex. R1 send “50”) to call up a pop-up box showing the adjustable range of reverb channel level.

9. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

If you want to adjust the parameter of chorus, just press the relevant button and operate according to the above steps.





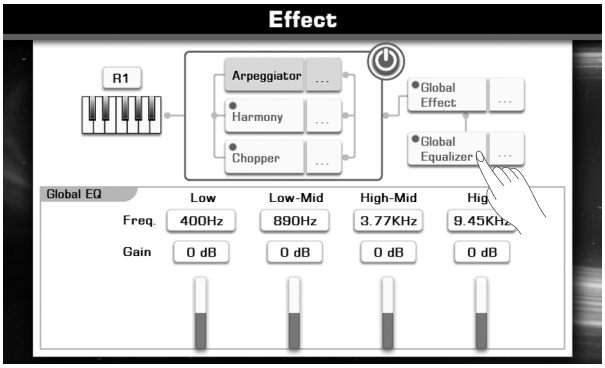


EQ

The instrument possesses a four-band digital equalizer function.

Frequency Bands (4 bands)
Low
Low-Mid
High-Mid
High

You can adjust the FREQ (center frequency) of every band and adjust the gain (amplitude change) in each of the four frequency bands within a range of -12 to 0 to +12 decibels [dB].



Turn On/Off Global EQ and Adjust the Parameter

1. Press the “EFFECT” button on main display to call up the Effect display.

2. Press the “Global Equalizer” button on the Effect display to turn on Global EQ.
This applies the equalizer effect to the entire sound of the instrument.

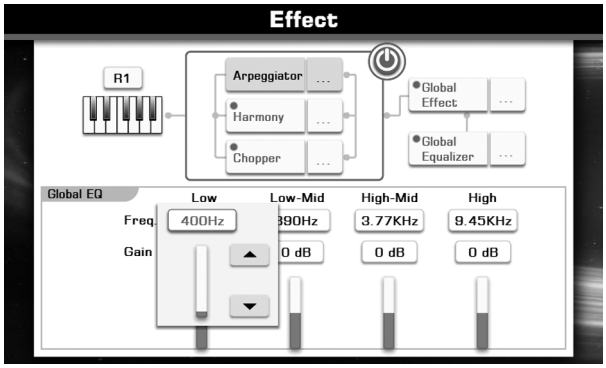
3. Press the “Global Equalizer...” button on the Effect display to call up the EQ Setting display.

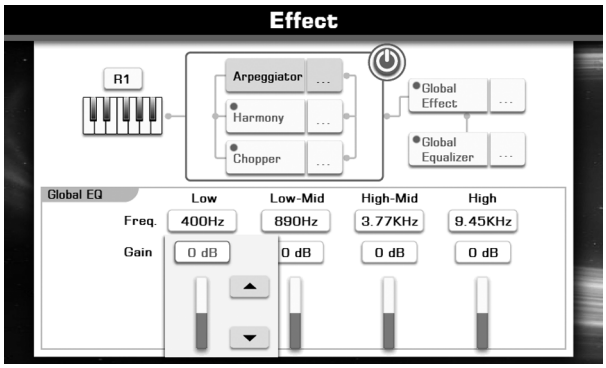
4. Press the relevant button (ex. Freq. low “400Hz”) to call up a pop-up box showing the adjustable range of frequency.

5. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

6. Press the relevant button (ex. Gain low “6dB”) to call up a pop-up box showing the adjustable range of gain.

7. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.





Editing Voice

You can create your own voice by editing some parameters of the existing voices and save it as a user voice to the USER display for future recall.

1. Select the desired voice for editing.

2. Press the “EDIT” on the Voice Selection display to call up the Voice Editing display.

3. Press the “Common” or “Envelope” on the Voice Editing display to call up the relevant editing display.

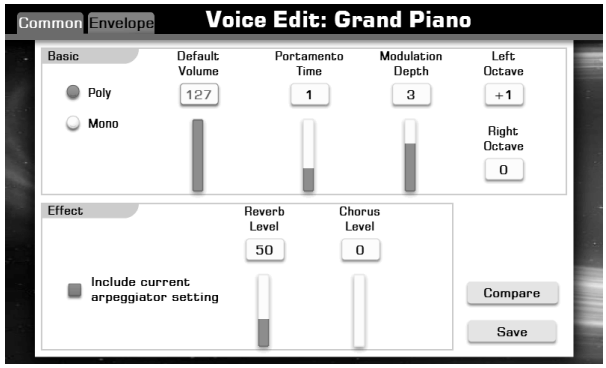
4. Press the relevant button to select the item (parameter) to be edited.

5. Use the DATA DIAL, [+] or [-] button to adjust the data.



Editable Parameters

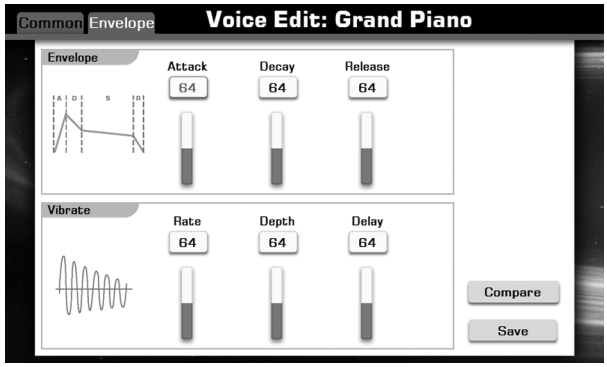
Common



Default Volume	Adjusts the volume of the current edited voice.	0-127
MONO/POLY	Determines whether the edited voice is played monophonically or polyphonically.	
Portamento Time	Portamento is a function that creates a smooth transition in pitch from the first note played on the keyboard to the next.	0-3
Left Octave	Shifts the octave range of the edited voice up or down in octaves. When the edited voice is used as the LEFT part, this parameter is available.	-1,0,1
Right Octave	Shifts the octave range of the edited voice up or down in octaves. When the edited voice is used as any of the RIGHT 1-3 parts, this parameter is available.	-1,0,1
Modulation Depth	Determines the intensity of the Vibrato effect. Higher settings result in a more pronounced Vibrato.	1-4

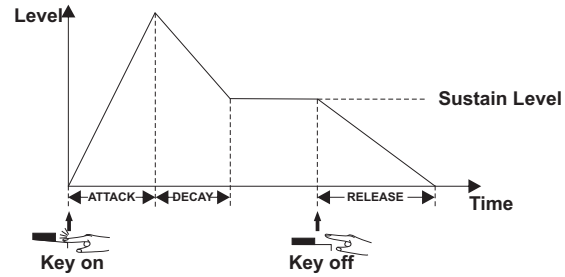
Effect

Arpeggiator	Including the current arpeggiator setting or not.	
Reverb Level	Adjust the reverb level of the edited voice.	0-127
Chorus Level	Adjust the chorus level of the edited voice.	0-127



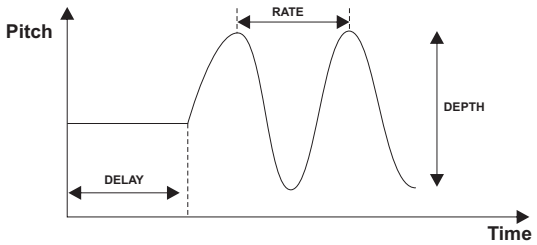
Envelope

Attack	Determines how quickly the sound reaches its maximum level after the key is played. The lower the value, the quicker the attack.	0-127
Decay	Determines how quickly the sound reaches its sustain level (a slightly lower level than maximum). The lower the value, the quicker the decay.	0-127
Release	Determines how quickly the sound decays to silence after the key is released. The lower the value, the quicker the decay.	0-127



Vibrato

Rate	Determines the speed of the vibrato effect.	0-127
Depth	Determines the intensity of the vibrato effect.	0-127
Delay	Determines the amount of time that elapses between the playing of a key and the start of the Vibrato effect.	0-127

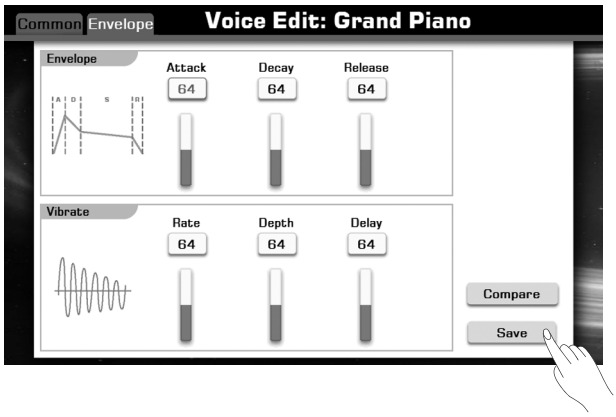


Saving the Edited Voice

Press the “COMPARE” on the editing display to compare the sound of the edited voice with the original voice.

If you are satisfied with your edited voice, please press the “SAVE” on the editing display to call up soft keyboard display.

Name the edited voice and press “OK” to save it as a user voice on the USER Voice selection display.





Saving, Deleting or Renaming the User Voice

1. Press“USER” or “USB” tab on Voice Selection display to call up the relevant display for user voices.

2. Select your desired user voice by pressing the relevant name of user voice.

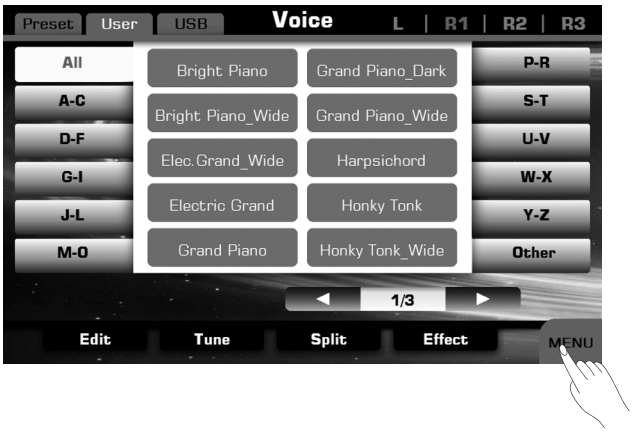
3. Press the “Menu” button to display the relevant buttons on the current display.

4. Press “SAVE TO USER” to call up soft keyboard display, enter the new name and press “OK” to save as a new user voice to the internal memory.

5. Press “SAVE TO USB” to call up soft keyboard display, enter the new name and press “OK” to save as a new user voice to the USB device memory.

6. Press “DELETE” to display the pop-up box, press “OK” to delete the current user voice.

7. Press “RENAME” to call up soft keyboard display, enter the new name and press “OK” to rename the current user voice.





Note:

If the new name you entered is same as the name of exited user voice, a pop-up box will appear.

Please press “OK” and rename the file again.



The instrument has a huge selection of various musical genre styles which you can play. Try out the different styles referring to the style list in the appendix.

Selecting Various Styles

Press the [STYLE SELECT] button or press STYLE NAME on the Main Display to call up the Style Selection display.



Press one of the style categories NAME on the Style Selection display to select the style category.

Press the cursor button on LCD to select your desired style page.

Press the style NAME to select the desired style on the current page display.



Note:
If you want to select the user style, press the “User” tab to display the available user styles or press the "USB" tab to display the user styles on your USB device.

Playing Only the Rhythm Tracks of a Style

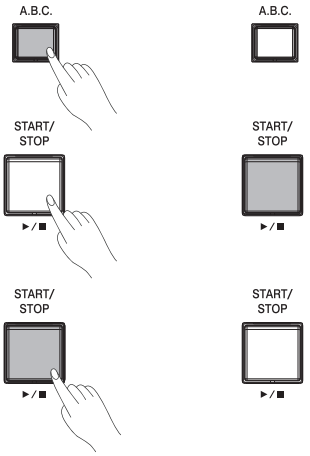
Rhythm is one of the most important parts of a Style. Try to play the melody along with just the rhythm. You can sound different rhythms for each Style. Keep in mind, however, that not all Styles contain rhythm channels. (Piano category)

1. Select your desired style.

2. Press the [A.B.C] button to turn auto accompaniment off.

3. Press the [START/STOP] button to play back the rhythm channels.

4. Press the [START/STOP] button to stop the rhythm.



Note:
You can also start the rhythm simply by playing a key if SYNC START is enabled.

Playing All Tracks of a Style

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is play the chords with your left hand as you perform and the selected accompaniment style matching your music will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of entire band or orchestra.

Track Name
Percussion
Drum
Bass
Chord 1
Chord 2
Chord 3
Phrase 1
Phrase 2

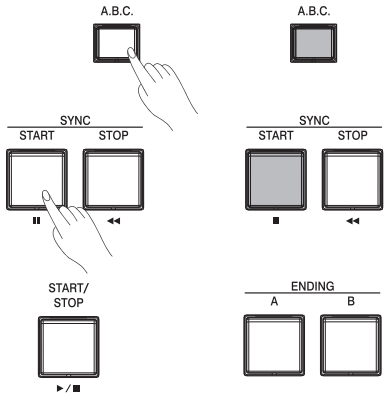
1. Select your desired style.

2. Press the [A.B.C] button to turn auto accompaniment on.

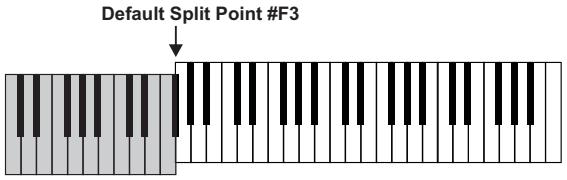
3. Press the [SYNC START] button to turn SYNC START on.

4. Play a chord with your left hand to start the auto accompaniment.

5. Press the [START/STOP] button or press any of the [ENDING] button to stop the auto accompaniment.



Note:
You can also stop the auto accompaniment simply by releasing the chord keys if SYNC STOP is enabled.



Adjusting the Volume Balance

Press the [MIXER] button to call up the Mixer Display.



Adjusting the Volume Balance between the style and the keyboard

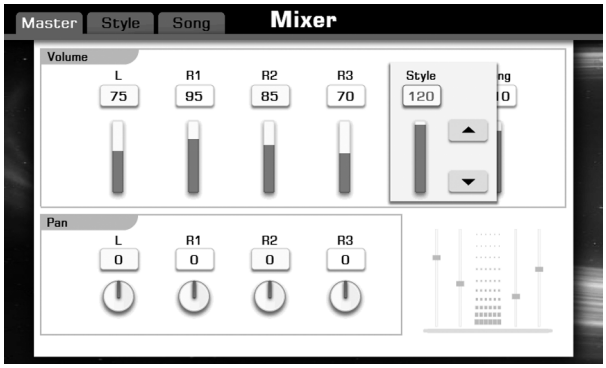
1. Press “Master” tab to call up the relevant setting display.

2. Press Style “120” button in the volume box to call up a pop-up box showing the adjustable range of volume.

3. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

4. Adjust the keyboard volume by pressing the relevant button and operating according to the above steps.

5. Press the [EXIT] button to exit the Mixer Display.



Note:
If you turn on the Chord velocity control, the style volume changes in response to your playing strength in the chord section of the keyboard. Details see ***Global Setting-Style & Song***.

Adjusting the Volume Balance for style

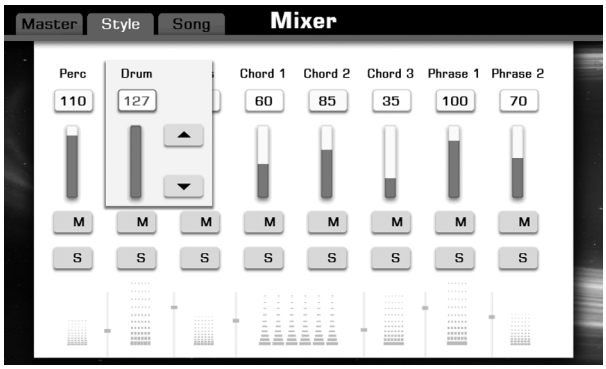
1. Press “Style” tab to call up the relevant setting display.

2. Press Drum “127” button in the volume box to call up a pop-up box showing the adjustable range of volume.

3. Press the “+” or “-” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

4. Adjust the volume of other tracks by pressing the relevant button and
operating according to the above steps.

5. Press the [EXIT] button to exit the Mixer Display.



Muting the tracks of a style



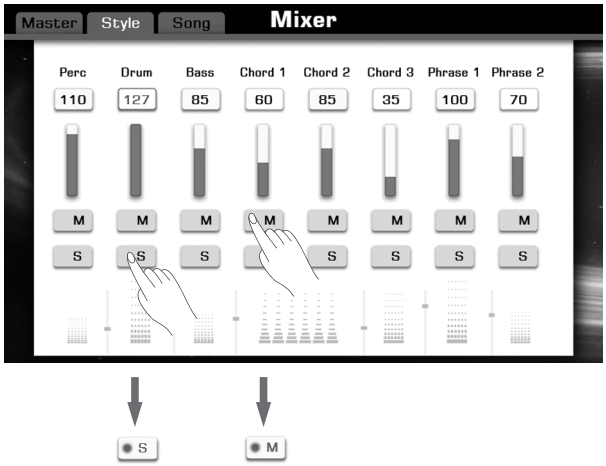
1. Press the [MIXER] button to call up the Mixer Display.

2. Press “Style” tab to call up the relevant style setting display.

3. Press the “S” button to set the channel to SOLO (orange font display). You listen to only one instrument of this track. Press the “S” button again to cancel SOLO (gray font display).

4. Press the “M” button to mute the channel (orange font display). You can listen to the playback of the style except this track. Press the “M” button again to cancel MUTE (gray font display).

5. Press the [EXIT] button to exit the Mixer Display.



Split Point Settings

There are two Split Points that separate the different sections of the keyboard: the Chord section, the LEFT part section and the RIGHT 1 and 2 sections. The two Split Point settings (below) are specified as note names.

Split Point (Chord)—separates the Chord section for Style playback from the section(s) for playing Voices (RIGHT 1, 2,3 and LEFT).

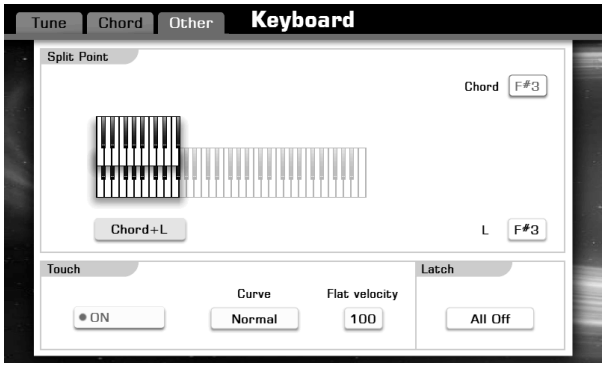
Split Point (Left)—separates the two sections for playing Voices, LEFT and RIGHT 1- 3.

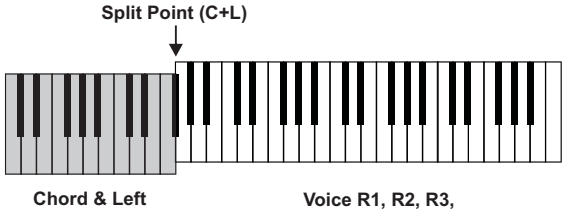
1. Pressing “SPLIT POINT” on main display or pressing “Split” on voice selection display will call up the Split Setting display.

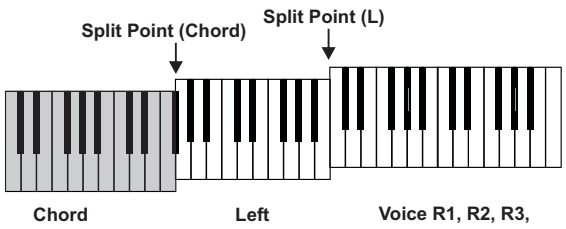
2. Set the Split Point (Chord) and the Split Point (Left) to the same note
- Press “Chord + Left” to turn it on.
- Use the DATA DIAL, the [+] or the [-] button or press the key directly to set your desired split point.

3. Set the Split Point (Chord) and the Split Point (Left) to different notes.
- Press “Chord + Left” to turn it off.
- Press Chord Note Name and make the chord split point selected. Use the DATA DIAL, the [+] or the [-] button or press the key directly to set your desired chord split point.
- Press Left Note Name and make the left split point selected. Use the DATA DIAL, the [+] or the [-] button or press the key directly to set your desired left split point.

Note:
Split Point(Left) cannot be set lower than Split Point(Chord), and Split Point(Chord) cannot be set higher than Split Point(Left).

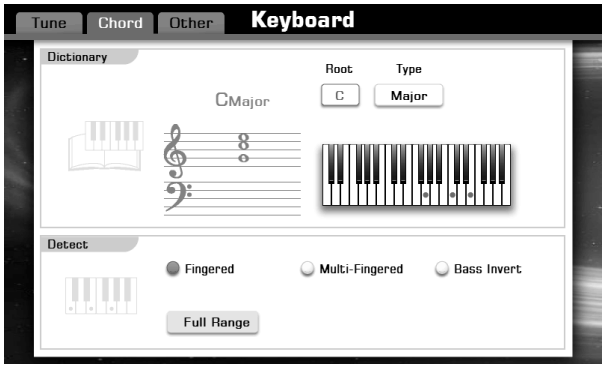






Selecting a Chord Fingering Type

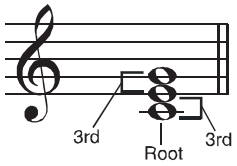
Style playback can be controlled by the chords you play in the chord section of the keyboard. There are two types of fingering.
Holding down [A.B.C] button will call up the Chord Setting display.
Press the Fingering type name to select your desired Chord Fingering type.
Press “Full Range” to turn it on (orange font display). Detect chords in the entire key range. Chords are detected in a way similar to Multi Finger, even if you split the notes between your left and right hands.



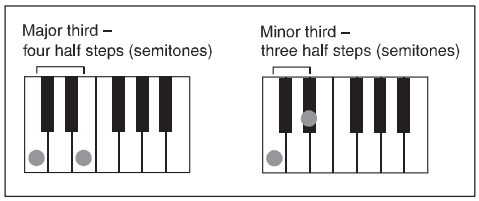
Finger	Automatically detects Single Finger or Multi Finger chord types.
Multi Finger	Only detects Multi Finger chord type.
Bass Invert	Automatically detects chord inversion of bass track.

Chord Basics

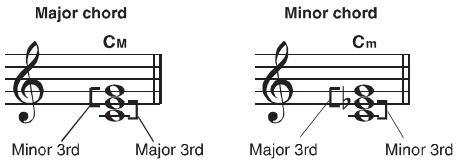
Three or more notes played together is defined as a “chord”. The most basic chord type is the “triad” consisting three notes: the root, third and fifth degree of the corresponding scale. A “C major triad”, for example, is made up of the notes C (the root), E (the third note of the C major scale) and G (the fifth note of the C major scale).



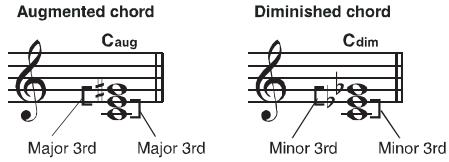
In the C major triad shown, the lowest note is the “root” of the chord (this is the chord's “root position” using other chord notes for the lowest note results in “inversion”). The root is the central sound of the chord, which supports and anchors the other chord notes. The distance (interval) between adjacent notes of triad in root position is either a major or minor third.



The lowest interval in our root-position trial (between the root and the third) determines whether the triad is a major or minor chord, and we can shift the highest note up or down by a semitone to produce two additional chords, as shown.

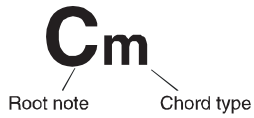


The basic characteristics of the chord sound remain intact even if we change the order of the notes to create different inversions. Successive chords in a chord progression can be smoothly connected, for example, by choosing the appropriate inversions.



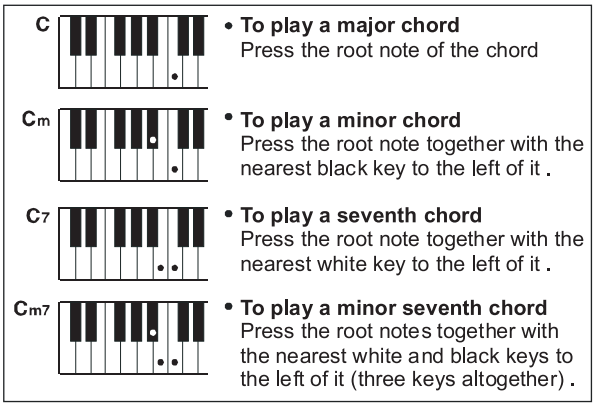
Reading Chord Names

Chord names tell you just about everything you need to know about a chord (other than the inversion/voicing). The chord name tells you what the root of a chord is, whether it is major, minor or diminished, whether it requires a major or flatted seventh, what alterations or tension does it use...all at a glance.



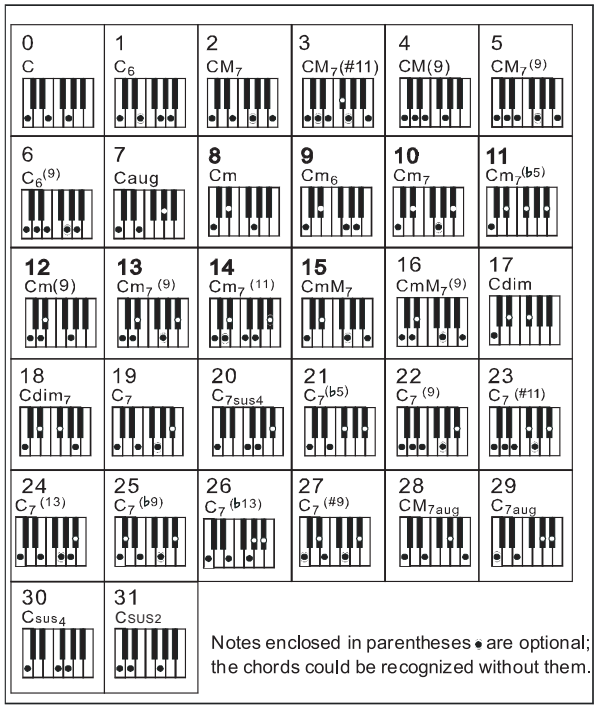
Single Finger

Single-finger accompaniment makes it simple to produce beautifully orchestrated accompaniment using major, seventh, minor and minor-seventh chord by pressing a minimum number of keys on the auto accompaniment section of the keyboard.



Multi Finger

The Fingered type recognizes the various chord types (Details See the chord list) and can be looked up using the Chord Dictionary function.



Chord Dictionary

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

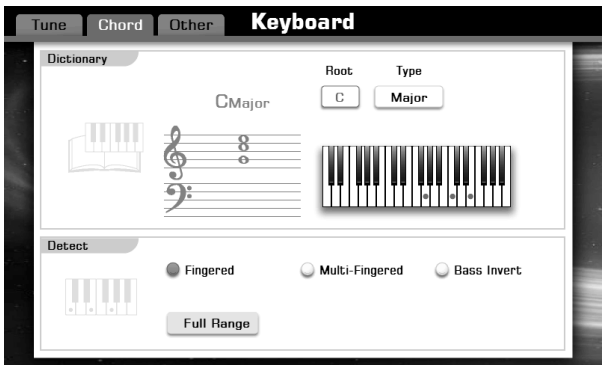
1. Holding down [A.B.C] button will call up the Chord Setting display.



2. Press "Root C" button to select the root note.

3. Press "Type Major" button to select the chord type.

The notes you need to play to make the selected chord are shown in the display. (Music Score and Keyboard)



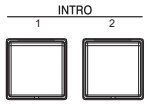
Operations for Style Playback

Style Variations

While you play, you can automatically add specially created intros and endings, as well as variations in the rhythm/chord patterns, for more dynamic, professional-sounding performances.

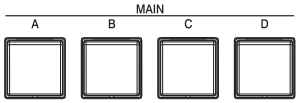
INTRO

This is used for the beginning of the song.
Each preset style features two different intros. When the intro finished playing, accompaniment shifts to the Main section.
Press one of the INTRO [1]–[2] buttons before starting style playback. Now the LED of INTRO flashes, the style is ready to play.
Press the [START/STOP] button or play a chord (SYNC START is enabled) to start playing intro.



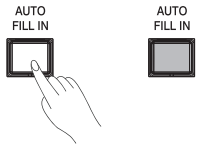
MAIN

This is used for playing the main part of the song. It plays an accompaniment pattern of several measures, and repeats indefinitely.
Each preset style features four different patterns.
Press one of the MAIN [A]–[D] buttons during style playback, your desired MAIN section will start playing at the next measure.



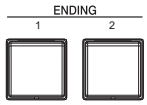
FILL IN

The fill-in sections let you add dynamic variations and breaks in the rhythm of the accompaniment, to make your performance sound even more professional.
Turn on the [AUTO FILL IN] button, the LED of the [AUTO FILL IN] button will light up. Simply press one of the MAIN (A, B, C, D) buttons as you play, and the selected fill-in section plays automatically (the relevant LED of MAIN flashes). When the fill-in is finished, accompaniment shifts to the Main section.



ENDING

This is used for the ending of the song.
Each preset Style features two different endings. When the ending is finished, the style stops automatically.
Press one of the ENDING [1]–[2] buttons during style playback (the relevant LED of MAIN flashes). The ending will start playing at the next measure.



The Function Description of Control Buttons

START/STOP

Start or stop playing back the style. When the style is playing, the LED of [START/STOP] button flashes according to the current tempo.

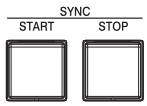


SYNC START

This lets you start playback as soon as you play the keyboard.

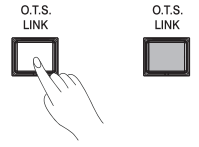
SYNC STOP

This lets you stop the Style anytime you want by simply releasing the chord notes.



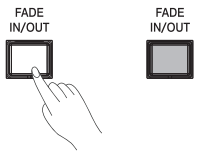
O.T.S LINK

This lets you automatically have One Touch Settings change when you select a different Main section (A–D).To use the OTS Link function, press the [OTS LINK] button. The LED of the [OTS LINK] button will light up.



FADE IN

The Fade In produces smooth fade-ins when starting the Style. Press the [FADE IN/OUT] button when Style playback is stopped, the LED of the [FADE IN/OUT] button will light up. When the Fade In is finished, the LED of the [FADE IN/OUT] button will light off.



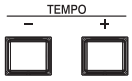
FADE OUT

The Fade Out produces smooth fade-outs when stopping the Style. Press the [FADE IN/OUT] button during Style playback, the LED of the [FADE IN/OUT] button will light up. When the Fade Out is finished, the style will be stopped automatically and the LED of the [FADE IN/OUT] button will light off.

Note:

You can set the fade-in and fade-out time, Details see Global Setting-Utility.

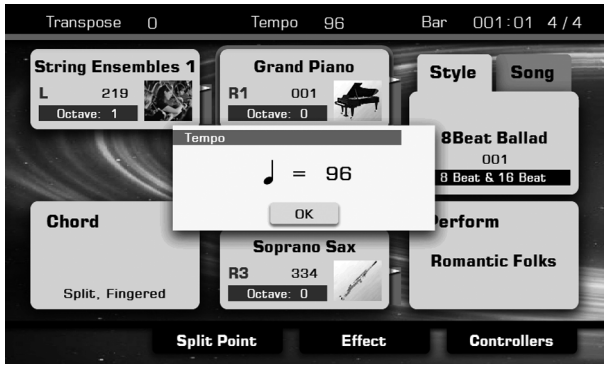
Adjusting the Tempo



1. Press the [TEMPO+] or [TEMPO-] button to call up the pop-up tempo setting display.

2. Press the [TEMPO+] or [TEMPO-] button to set the tempo. Pressing and holding either button lets you continuously increase or decrease the tempo value when the tempo dialog is popped up. Press the [TEMPO+] and [TEMPO-] buttons simultaneously to reset the tempo.

The number in the display indicates how many quarter note beats there are in one minute. The range is between 30 and 280.

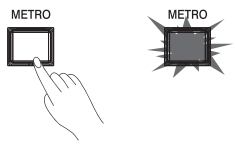


3. Press the [EXIT] button to close the Tempo display.

Note:

When you select another style during style playback, the selected style will start playing at next measure by current tempo.
If you turn off the Lock Tempo function, it will use the new style's default tempo when the style changes.
How to turn off the Lock Tempo? Details see ***Global Setting-Style & Song***.

Using the Metronome



1. Press the [METRO] button to turn the metronome on. The LED of [METRO] button flashes according to the current tempo.

2. Press the [METRO] button again to turn the metronome off.

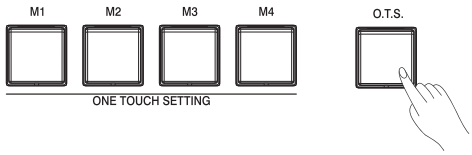
Adjusting the metronome tempo is same as adjusting the tempo.
The metronome parameters:

VOLUME	Determines the level of the metronome sound.
Bell ON/OFF	Conventional metronome sound, with bell or no bell.
TIME SIGNATURE	Determines the time signature of the metronome sound.

How to set these parameters? Details see
Global Setting-Utility-Metronome.

One Touch Setting

One Touch Setting is a powerful and convenient function that lets you instantly recognize virtually all Auto-accompaniment-related panel settings with the touch of a single button.



1. Press the [O.T.S.] button to turns on the One Touch Setting for the current style. The LED of the [O.T.S.] button will light up.

2. Press one of the [ONE TOUCH SETTING] buttons [M1]-[M4], the relevant LED will light up, A.B.C and SYNC START are automatically turned on. Various panel settings (such as voice, effect, etc.) that match the selected style can be instantly recalled with just a single button press.

One Touch Setting Parameters:

Part ON/OFF (VOICER1,R2,R3,L)
Voice Selection (VOICER1,R2,R3,L)
Octave (VOICER1,R2,R3,L)
Volume (VOICER1,R2,R3,L)
Reverb Level (VOICER1,R2,R3,L)
Chorus Level (VOICER1,R2,R3,L)

Note:

If the OTS LINK is turned on, various panel settings (such as voice, effect, etc.) that match the selected Main Section will be instantly recalled when you select the Main Section. The relevant O.T.S LED will light up to hint.

Saving, Deleting or Renaming the User Style



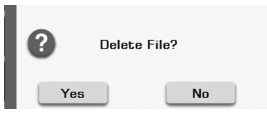
1. Press“USER” or “USB” tab on Style Selection display to call up the relevant display for user styles.

2. Select your desired user style by pressing the relevant name of user style.

3. Press the “Menu” button to display the relevant buttons on the current display.

4. Press “SAVE TO USER” to call up soft keyboard display, enter the new name and press “OK” to save as a new user style to the internal memory.

5. Press “SAVE TO USB” to call up soft keyboard display, enter the new name and press “OK” to save as a new user style to the USB device memory.



6. Press “DELETE” to display the pop-up box, press “OK” to delete the current user style.

7. Press “RENAME” to call up soft keyboard display, enter the new name and press “OK” to rename the current user style.



Note:

If the new name you entered is same as the name of exited user style, a pop-up box will appear.

Please press “OK” and rename the file again.

With this powerful Style Record function, you can create your own styles, recording them by yourself or by combining the internal Style data. The existing Styles and their O.T.S. settings also can be edited. This is useful to make a personalized performance.

With the Style Record function, you can do following things:

1. Edit an internal style.
2. Record a whole new style.
3. Copy channels from the existing style to make a new combination.
4. Edit detailed notes of a style.
5. Set the note transposition rule of a style.
6. Create or edit the O.T.S. settings of a style.

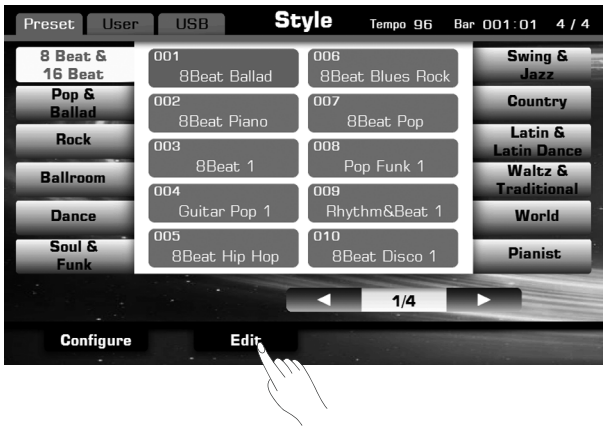
Basic knowledge of a style

Styles are made up of different sections (INTRO, MAIN, FILL and ENDING) each section has eight separate channels (PERCUSSION, DRUM, BASS, CHD1, CHD2, CHD3, PHR1 and PHR2). With the style record function, you can create a style by separately recording the channels, or by importing pattern data from other existing Styles.

Editing Basic Parameters

If you want to adjust the basic parameters like Tempo, Voice and Volume, easily do as following operations.

1. Enter the style record interface
In the style selection page, select a desired style as the basis for recording/editing, and then press the “Edit”.



Enter the edit display, and you can see the current editing information of style.
The channel which selected with red background color is available to editing. Set an appropriate value to its corresponding Voice, Volume, Pan and so on.
The channel with its channel name displayed in grey is unavailable for editing, as there is no music data in this channel.



2. Change default tempo value
The current default TEMPO value will remain the same in all sections. Press the value button of Tempo to call up the parameter box. You can use the Up and Down arrows or Dial to adjust the tempo value.



You can also use the panel button [Tempo+]/ [Tempo-] to adjust the tempo value. Press the [+] and [-] buttons simultaneously to reset the tempo. Adjustable range: 30~280.



3. Select Section
Select the current section you are going to record/edit, you can select from Intro (1~2), Main (A~D), Fill (A~D) and Ending (1~2). Press the [Intro 1] button to call up section selection box. You can press the panel button of section or directly press the section name on the display.



4. Select channel (Choose the channel displayed on the screen)
If you are editing the Intro/Ending section, you can select to display channel 1~8 or channel 9~16 for editing. If you need a channel only playback when the Major or Minor chords are input, you may configure this with the chord response buttons for each channel.

If you are recording other sections, you can only record them into the channel 9~16, and each channel can be played with all chord types.



Note:
While playing styles, the channel 1~8 and 9~16 will be played in the same 8 tracks, so please note your settings. For example, the channel 1 and channel 9 will be played back in a same track, if you set these two channels can both be played under all chords, and set their voice and volume with different values; the parameters of these two channels may conflict when playing the style.

5. Length (Set the length of current section)
Press the value button on the top right of display to call up the parameter box of section measure length. You can use the panel Dial or press the Up and Down arrows in the screen to adjust the value.

Note:
If you have selected a Fill in section, the Length value will be fixed as 1 and unchangeable.

6. Voice (Set the voice of current channel)
Press the voice button on the right of channel name; enter the voice selection interface. You can choose an appropriate voice for current channel, then press the panel button [EXIT] to continue editing the style.



Note:
You can select only the percussion voices for Perc and Drum channel, and only bass voices for the bass channel.

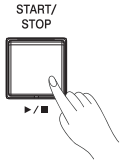
7. Volume (Set the volume of current channel)
Press the value button on the right of “Volume” to call up the volume parameter box. You can press the Up and Down arrow or use the panel Dial to adjust the volume value.
Parameter range: 0~127.



8. Pan (Set the pan of current channel)
Press the value button on the right of “Pan” to call up the pan value parameter box. Press the Up and Down arrows or use the panel Dial to adjust the Pan value.
Parameter range: -64(left) ~63(right).



9. Listen to Your Changes
Press the panel [START/STOP] button, and it will circularly play the current selected section of the style. Press the [START/STOP] again to stop the playback.
You can turn on the [A.B.C.] and play a chord to listening to the effects.



10. Save Changes
Press the “SAVE” button in the style editing interface, enter the file name you want to save, press “OK” if you sure to save the edited style into the USER group.



Further Editing a Style

In style editing interface, you can press the “Edit” menu at the right end of channel parameters to select more editing functions.

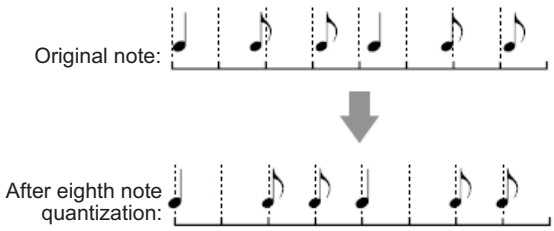


1. Quantize (Quantize the notes of channel)
Press “Edit” button; select “Quantize” function to enter the corresponding settings.

Quantize:
The Quantize function allows you to align the timing of all the notes in a channel. Select the quantize size (resolution). For optimum results, you should set the Quantize size to the shortest note value in the channel. For example, if eighth notes are the shortest in the channel, you should use eighth note as the Quantize accuracy.



You can set the Quantize accuracy of this operation: quarter note, eighth note, sixteenth note, thirty-second note, quarter note triplet, eighth note triplet, or sixteenth note triplet.



2. Velocity (Edit the velocity of all notes in a channel)
Press the “Edit” button to call up the velocity display, as the picture shows:



Velocity: Boosts or cuts the velocity of all notes in the specified channel, according to the percentage specified here. This instrument velocity is from 1% to 400%.

3. Copy From (Copy a channel from an existing style)
Open the “Edit” menu, and then select the “Copy From” button, as picture shows:

Press the style selection button to enter the selection interface, as picture shows:
You can select a style, then press [EXIT] button to confirm your selection and return to the style editing.

Back to the style editing interface, you can also select your desired source section and channel.



Note:
If you are editing the Perc or Drum channel, the only source channel you can copy from is Perc or Drum.
If you are editing the Bass channel, the only source channel you can copy from is Bass.
If you are editing the Chord or Phrase channel, you can choose any channels except for Rhythm and Bass channels as a copy source.
Press the “OK” button after you have selected the copy source, then the channel contents you are editing will be replaced by the selected copy source.

4. Clear (Clear all contents of a channel)
Press “Edit” button and then select the “Clear” item to open a new window confirm your clear operation. As picture shows:

If you select the “OK” button, the channel you are editing will be cleared.



Note:
The deleted contents cannot be recovered after saving.

Playing the Keyboard and Recording your Performance as a New Style

Besides editing the existing music content, you can also record your own performance as a channel of style.

1. Create a blank style
If you just want to record a new style which is based on an existing style, please select a desired style and skip this step.

Press “New” button; set the default time signature and for the new style, press “OK” button if to confirm the settings.



2. Select the channel for recording
You must select a channel to record; the button will be lightening up if you press the “R” button corresponding to the right of channel parameters.

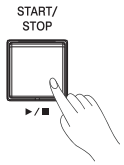


3. Start record
Press the “RECORD” button; the button will change to “START” and waiting for recording. Press any keys, “START” button or panel [START/STOP] button to start record.
The current style section will be playback circularly while recording, the notes you played will be added to (overdub) the existing music content of the channel.



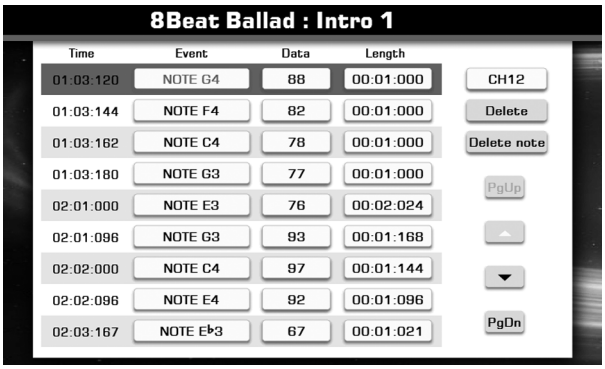
Note:
Some of functions and panel buttons are unavailable while recording.

4. Stop recording
Press the STOP button in the display, or press panel [START/STOP] button to stop recording. You can listen to your record or edit it later.



Editing Each Note of Style

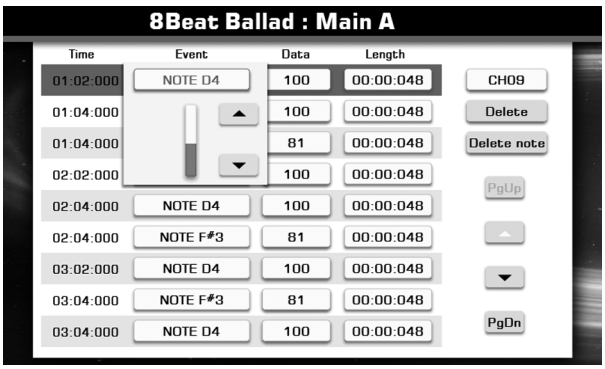
With the powerful Event List function, you can edit each note of channel; this is very helpful for detailed modification with your style.



1. Open the Event List
Press the “Edit” menu of channel; select “Event List” button to enter the event list display.
Each row in this display represents an event, you can see following information about the event:

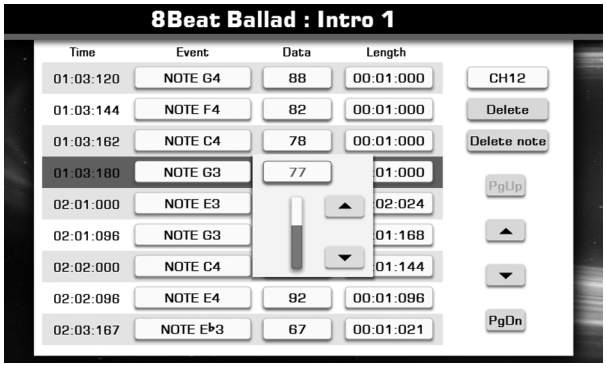
Time: the event occurs time, express with “Bar: Beat: Tick”.
Event: the event name. You can deal with the “NOTE”,”CTRL” and “PROG” events.
Data: event parameter.
Length: the length of notes.

2. Change an event
Press the “Event” button; correspond to different event types you can edit different objects:
“NOTE” event changes the pitch of note;
“CTRL” event changes the number of controllers;
“PROG” event changes the program selection.

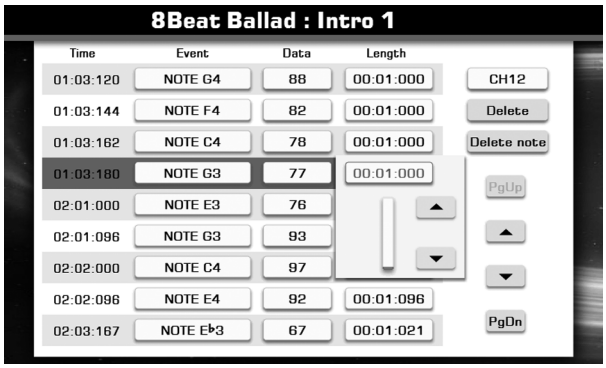


Note:
If you have selected Main or Fill section, except for two percussion channels, the NOTE events can only be set to the C Maj7 chord notes. The selectable control event numbers are: 1(Modulation), 10(Pan), 11(Expression), 91(Reverb Level), 93(Chorus Level).

3. Edit the event parameters
Press the “Data” button; correspond to different events you can edit different parameters.
“NOTE” event can change the velocity of notes;
“CTRL” event can change the controller parameters.



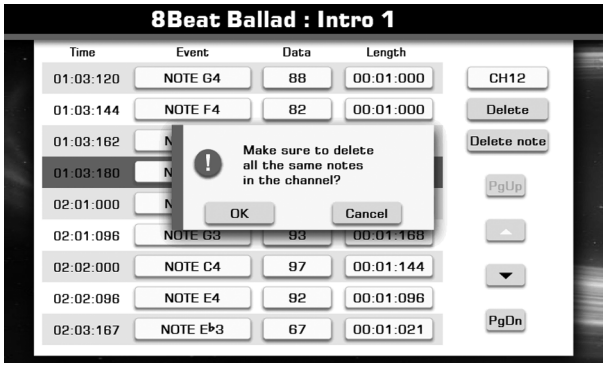
4. Change the length of notes
The NOTE event, you can press the “Length” button to change the length of notes, change from tick, then beat and measure.



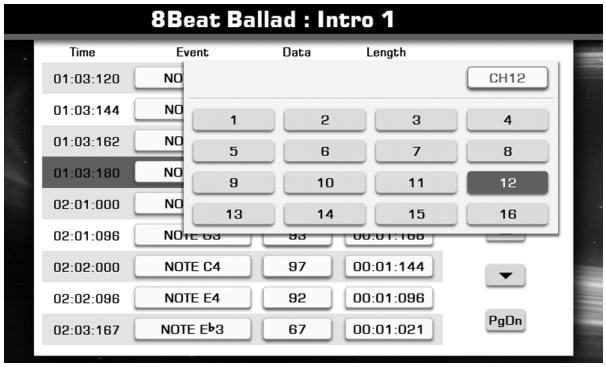
5. Delete a note
Select an event, press “DELETE” button on the right, you can delete the event.

6. Delete all notes with equal pitch
Select a NOTE event; press the “Delete Note” button, if you are ready to delete all desired notes with the same pitch, press “OK” button to confirm the operation.

Note:
The deleted contents will not be recovered after saving the file.



7. Select channel
You can directly change channel selection in Event List without returning to the style editing interface. Just press the “Channel” button in the display to select a different one.



8. Exit Event List
Press panel [EXIT] button; you can exit from Event List and return to the Style Editing interface. You can save your changes there.

Seting the Notes Transfer Rules for Chord Changes

While playing style, each note of every channel will response to chord changes according to their own rule. You can edit these response rules to achieve your desired effects.



1. Set the type of chords that the current channel should response to. If you are editing Intro or Ending section, you can set the chord category for each channel.
Press the chord category setting buttons; you have three choices: select “Major” the channel will only play back when major chords are inputted; select “Min” for playing only under minor chords; or you can select “All” for playing under all chords.

Note:

In style playing mode, channel 1~8 and 9~16 will be played in the same track, so take care of your settings. For example, the channel 1 and 9 will played in a same track, if you set these two channels are played in all chords, and like voice, volume, these parameters are different, then parameters of two channels may conflict while you are playing the style.



2. The chord control parameters
Press the “Edit” menu on the right end of channel parameters, and then press the “Parameter” button to open the chord control parameter window. You can set detailed parameters response to chord changes.

3. Note Trans Rule (Note transposition rule)
Press “Note Trans” button; this sets the note transposition table for the source pattern.



By Pass	The transposition table used does not do any note conversion.
Melody	Suitable for melody line transposition.
Chord	Suitable for chord transposition.
Melodic Minor	When the played chord changes from a major to a minor chord, this table lowers the third interval in the scale by a semitone. When the chord changes from a minor to a major chord, the minor third interval is raised by a semitone. Other notes are not changed. Use this for melody channels of Sections which respond only to major/ minor chords, such as Intros and Endings.
Melodic Minor 5th	In addition to the Melodic Minor transposition above, augmented and diminished chords affect the 5th note of the Source Pattern.
Harmonic Minor	When the played chord changes from a major to a minor chord, this table lowers the third and sixth intervals in the scale by a semitone. When the chord changes from a minor to a major chord, the minor third and flatted sixth intervals are raised by a semitone. Other notes are not changed. Use this for chord channels of Sections which respond only to major/minor chords, such as Intros and Endings.
Harmonic Minor 5th	In addition to the Harmonic Minor transposition above, augmented and diminished chords affect the 5th note of the Source pattern.
Harmonic Minor	This table lowers the third, sixth and seventh intervals in the scale by a semitone when changing from a major to a minor chord; or raises the minor third, flatted sixth and flattened seventh intervals by a semitone when changing from a minor to a major chord. Other notes are not changed. Use for parts which respond to major/minor chords, e.g. Intros and Endings.
Natural Minor 5th	In addition to the table above, augmented and diminished chords affects the 5th note of the pattern.
Dorian	When the played chord changes from a major to a minor chord, this table lowers the third and seventh intervals in the scale by a semitone. When the chord changes from a minor to a major chord, the minor third and flatted seventh intervals are raised by a semitone. Other notes are not changed. Use this for chord channels of Sections which respond only to a Major/minor chord such as Intros and Endings.
Dorian 5th	In addition to the Dorian transposition above, augmented and diminished chords affect the 5th note of the Source pattern.

4. Root Trans Rule (Changing rule with root note)
Select the convert rule which determines the relative position of root note in the chord, when converted from the Source Pattern in response to chord changes.

Root: When the root note is transposed, the pitch relationship between notes is maintained. For example, the notes C3, E3 and G3 in the key of C become F3, A3 and C4 when they are transposed to F. Use this setting for channels that contain melody lines.

Fixed: The note is kept as close as possible to the previous note range. For example, the notes C3, E3 and G3 in the key of C become C3, F3 and A3 when they are transposed to F. Use this setting for channels that contain chord parts



5. Root Limit (High key)
This sets the highest key (upper octave limit) of the note transposition for the chord root change. Any notes calculated to be higher than the highest key are transposed down to the next lowest octave. This setting is available only when the NTR parameter is set to “Root Trans”.



6. Note Range (Note limit)
This sets the note range (highest and lowest notes) for voices recorded to the style channels. By judicious setting of this range, you can ensure that the voices sound as realistic as possible — in other words, that no notes outside the natural range are sounded (e.g., high bass sounds or low piccolo sounds). The actual notes that sound are automatically shifted to the set range.



7. Retrigger Rule
These settings determine whether notes stop sounding or not and how they change pitch in response to chord changes.

Pitch Shift: The pitch of the note will bend without a new attack to match the type of the new chord.

Pitch Shift to Root: The pitch of the note will bend without a new attack to match the root of the new chord.

Retrigger: The note is retriggered with a new attack at a new pitch corresponding to the next chord.

Retrigger to Root: The note is retriggered with a new attack at the root note of the next chord. However, the octave of the new note remains the same.

Stop: The notes stop sounding.



Seting O.T.S. of Style (One Touch Settings)

One Touch Setting is a powerful and convenient feature that automatically calls up the most appropriate panel settings (Voices or effects, etc.) for the currently selected Style, with the touch of a single button. If you've already decided which Style you wish to use, you can have One Touch Setting automatically select the appropriate Voice for you.



1. Open the O.T.S. setting display
Press the O.T.S. tab page on the top of the Style Record display; enter O.T.S. settings.

2. Setting detail parameters
You can individually set the O.T.S. in detail. The parameters you can set are listed as follows.
Switch layers: R1/R2/R3/L;
Select voice
Volume: 0~127.
Pan: -64~+64.
Octave: -1~+1
Reverb: 0~127.
Chorus: 0~127.



3. Save your settings
Press "Save" button to save your O.T.S. settings.

The instrument can play back the following Song types.
Preset Songs
Songs in the Song Selection PRESET display. Try out the different songs referring to the song list in the appendix.
Your Own Recorded Songs
These are MIDI Songs which you've recorded and saved to the USER display.
These are Audio Songs which you've recorded and saved to the USB display. (USB is available when you connect USB device)
External Songs
- SMF (Standard MIDI file)
  Standard MIDI Files are generally available as one of two types: Format 0 or Format 1.
- Audio File (MP3/WMA /WAV)

Playing Various Songs



1. Press the [SONG SELECT] button or press SONG display area on the Main Display to call up the Song Selection display.

2. Press one of the song categories NAME in the screen to select the song category.

3. Press the cursor button on LCD to select your desired song page.

4. Press the song NAME to select the desired song on the current page display.

5. Press the [PLAY/STOP] button to start playback.

6. Press the [PLAY/STOP] button again to stop playback.



Note:
If you want to select the user song, press the "USB" tab to select the USER display or press the "USB" tab to select the USB display.

Playing Songs from USB device in sequence
1. Select a song in the desired folder.
2. Turn on the Loop On function in the top right corner of the screen.
3. Select Folder/Group playing mode.

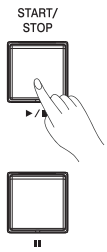
Now, you can play all Songs in a folder continuously.

How to turn on Loop On and select playing mode in Global Setting menu? Details see ***Global Setting-Style & Song***.

Operations for Song Playback

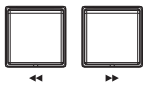
PLAY/STOP
Start or stop playing back the song. When the song is playing, the LED of [PLAY/STOP] button flashes according to the current tempo.

PAUSE
Press this button during song playback to pause the current song. Press it again and the song will resume from the current position.



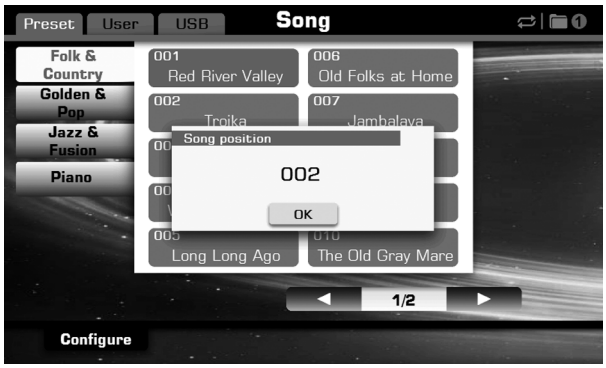
REWIND and FAST FORWARD

Pressing the [REW] or [FF] button automatically calls up a pop-up window showing the current measure number in the current display.



Press the [REW] or [FF] button to move back or forth.

Pressing and holding either button lets you continuously move back or forth.

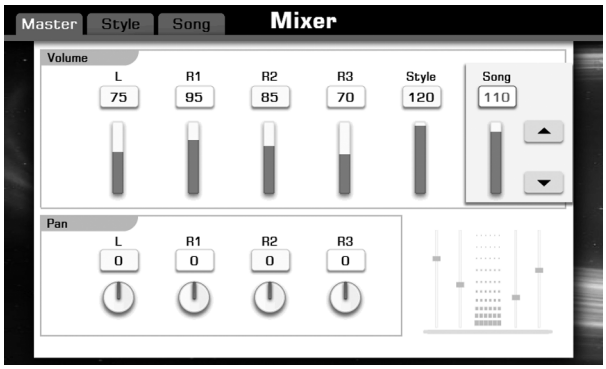


Adjusting the Volume of the Song

Press the [MIXER] button to call up the Mixer Display.

Adjusting the volume balance between the Song and the keyboard

This lets you adjust the volume balance between Song playback and the sound you play on the keyboard.



1. Press “Master” tab to call up the relevant setting display.

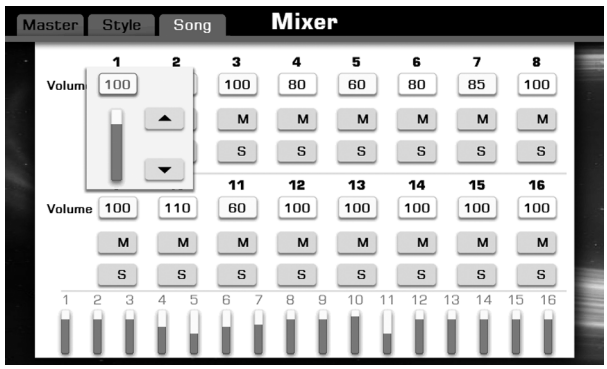
2. Press Song “110” button in the volume box to call up a pop-up box showing the adjustable range of volume.

3. Press the “▲” or “▼” button in screen or use the DATA DIAL, the [+] or the [-] button to adjust the data.

4. Adjust the keyboard volume by pressing the relevant button and operating according to the above steps.

Adjusting the Volume of each Channel of the MIDI Song

A MIDI song may contain up to sixteen MIDI channels. You can adjust the volume of each channel and mute or solo each track.



1. Select a Song.

2. Press the [MIXER] button to call up the Mixer Display.

3. Press “Song” tab to call up the relevant setting display.

4. Press 1 “100” button in the volume box to call up a pop-up box showing the adjustable range of volume.

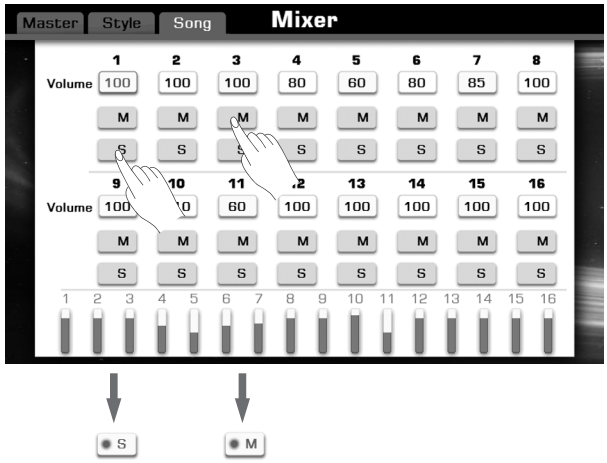
5. Press the “▲” or “▼” button or use the DATA DIAL, the [+] or the [-] button to adjust the data.

6. Adjust the volume of other tracks by pressing the relevant button and operating according to the above steps.

7. Press the “S” button to set the channel to SOLO. You listen to only one instrument of this track. Press the “S” button again to cancel SOLO.

8. Press the “M” button to mute the channel.
You can listen to the playback of the song except this track. Press the “M” button again to cancel MUTE.

9. Press the [EXIT] button to exit the Mixer Display.



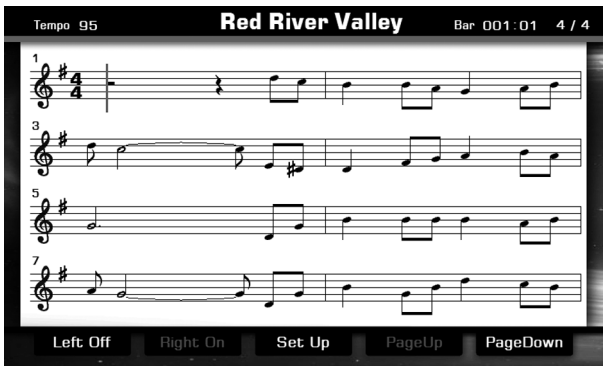
Displaying Music Notation (Score)

You can view the music notation of the selected Song.

1. Select a Song.

2. Press the [SCORE] button to display the music notation.
Hint:
Look through the entire score before playing back the Song.

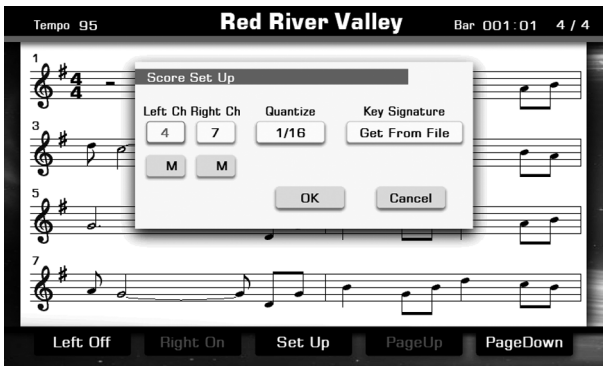
3. Press the [PLAY/STOP] button to start playback. The position indicator moves through the score, indicating the current position.



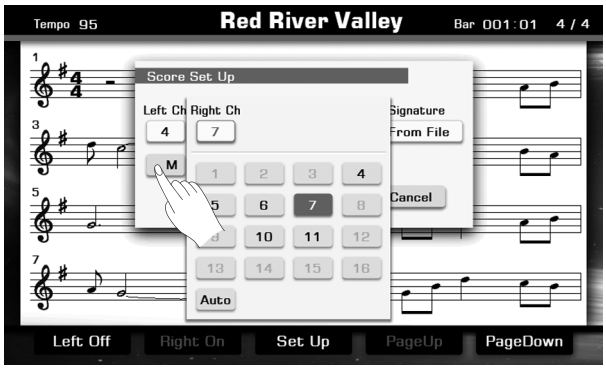
Operation for Score Display
Left On/Off: Turn on or off the score of left hand.
Right On/Off: Turn on or off the score of right hand.

Page Up: Goes to the previous page of the score.
Page Down: Goes to the next page of the score.

Set Up
Set the detailed parameters of the view type as desired.
1. Press the “Set Up” button to call up the detailed setting display.
2. Press the relevant button to set the view type.
3. Press the “OK” button to apply the setting.



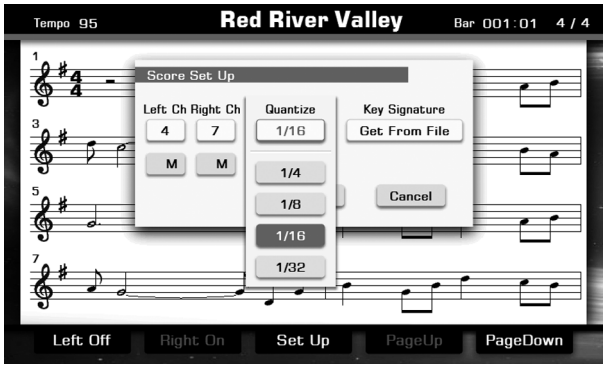
LEFT CH	Determines which MIDI channel in the Song data is used for the left-hand part. Note: This setting returns to Auto when a different song is selected.
RIGHT CH	Determines which MIDI channel in the Song data is used for the right-hand part. Note: This setting returns to Auto when a different song is selected.
Auto: The MIDI channels in the Song data for the right- and left-hand parts are assigned automatically. 1-16: Assigns the specified MIDI hannel (1–16) to each of the left- and right-hand parts.	



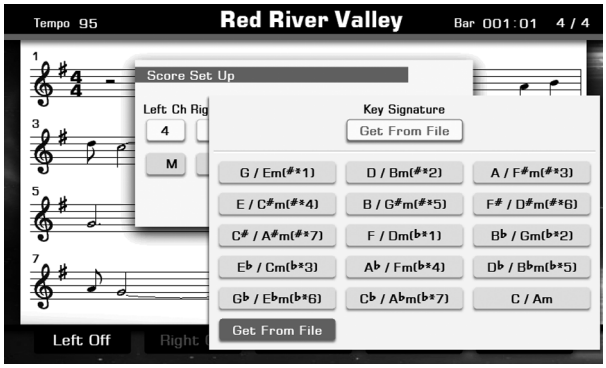


Mute: Press the Right Ch“M” button to mute the right channel and press the Left Ch “M” button to mute the left channel .
Press the “M” button again to cancel MUTE.

QUANTIZE	This gives you control over the note resolution in the notation, letting you shift or correct the timing of all displayed notes so that they line up to a particular note value. Make sure to select the smallest note value used in the song.
1/4,1/8,1/16,1/32	



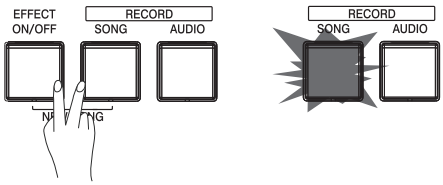
KEY SIGNATURE	This lets you enter key signature changes in the middle of a song, at the stopped position. This menu is useful when the selected song contains no key signature settings for displaying notation.
Auto: Select the key signature that has been assigned in the song data.	



You can record your own performances to MIDI and save them to the User tab display.
You can record your own performances as Audios and save them to an external storage device.

MIDI Recording

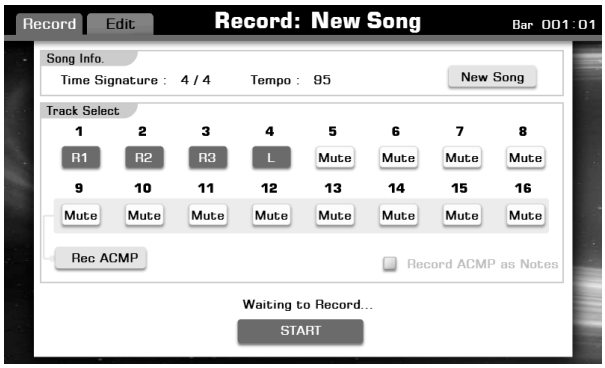
Two different MIDI recording methods are available:
Quick Recording which lets you record performance conveniently and quickly, Multi track Recording which lets you record several different parts to multiple channels.
You can also edit Songs after they've been recorded.



Quick Recording

This lets you record your performance conveniently and quickly.

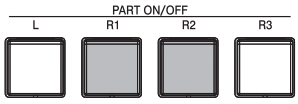
1. Press the [RECORD SONG] and [EFFECT ON/OFF] buttons simultaneously to call up the Recording Display.
A blank Song ("New Song") is called up for recording. The LED of [RECORD SONG] is flashing that means it is in the recording standby mode.



2. Make the desired panel setting for your keyboard performance.

Recording the RIGHT2,RIGHT3, and LEFT parts

Pressing the "ch mute" button and selecting the relevant part or pressing the relevant part button directly to turn on the relevant part and record them.
Select the voice for each keyboard part. Details see ***Voice-Playing Various Voices***.



Recording Styles

Press the "Rec ACMP" button to switch recording accompaniment on or off.
Select a style. Details see ***Style- Selecting Various Styles***.
Set the tempo for recording by pressing the [TEMPO+] or [TEMPO-] buttons.

Using Performance Memories

Press one of the PERFORMANCE MEMORY [1–6] buttons.

Record ACMP as Notes

Select the "Record ACMP as Notes" to directly record the ACMP track as notes.



3. Start recording.
Press the [PLAY/STOP] button or Press the [RECORD SONG] button.
The LED of [RECORD SONG] will light up.

Playing the keyboard.
Recording begins automatically as soon as you play a note on the keyboard.



Note:
You can turn on the metronome during recording. The metronome sound will not be recorded.

4. Stop recording
Press the “STOP” button on the Record Display or press the [RECORD SONG] button. The LED of [RECORD SONG] will go out.

If you are recording style, press the [ENDING] button, when the Ending is finished, the recording would also stop automatically.



5. Save recording data.
When the soft keyboard is called up, please enter the new name and press “OK” to save the new user song.



Note:
The recorded song data will be lost without executing the save operation.

6. Press the [PLAY/STOP] button to playback the song you just recorded.

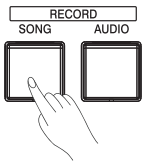


Multi Track Recording

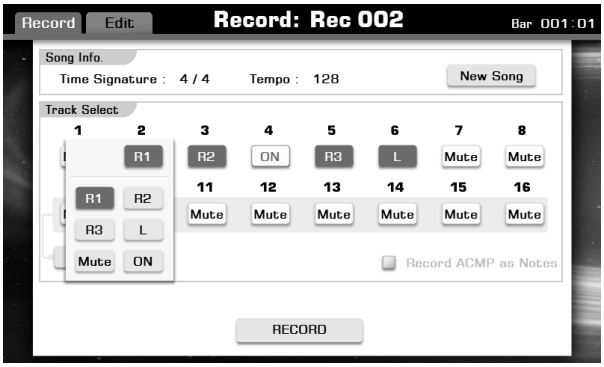
A song consists of 16 separate channels. With this method, you can record data to each channel independently, one by one. Both Keyboard and Style parts can be recorded.
You can also record over already-recorded parts of an existing User Song.

1. Press the [RECORD SONG] button to call up the Recording Display.

If the current song is user song, this user song is called up for new recording.
If the current song is preset song, a blank song (“New Song”) is called up for recording.



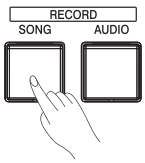
2. Set the desired channels to record.
Normally, the keyboard parts (R1, R2, R3, L) should be recorded to channels 1–4, and the styles should be recorded to channels 9–16.



Note:
Press the “Rec ACMP” button to switch accompaniment recording on.

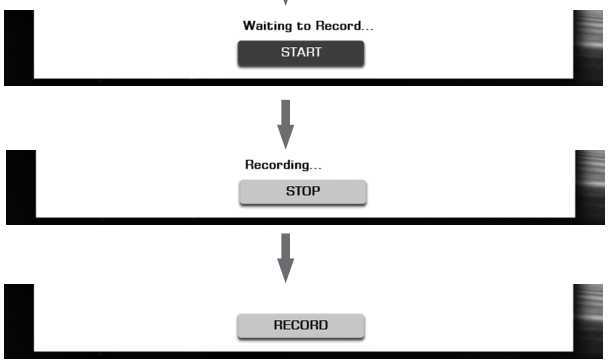
3. Select voices for keyboard parts and select a style.

4. Press the [RECORD SONG] button or press the “RECORD” button on the Recording Display to enter recording standby mode.



5. Press the [RECORD SONG] button or press the “START” button on the Recording Display to start recording.

6. Press the [RECORD SONG] button or press the “STOP” button on the Recording Display to stop recording.

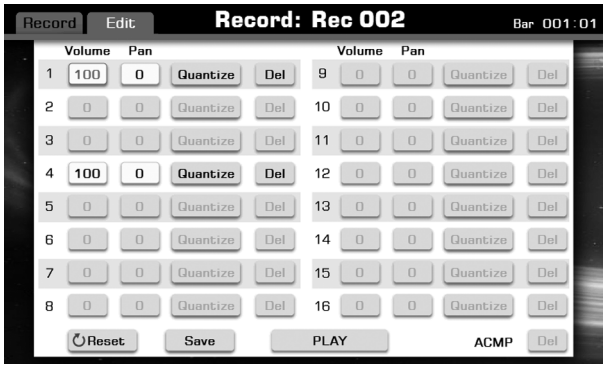


7. Press the [PLAY/STOP] button to listen to your newly recorded performance.

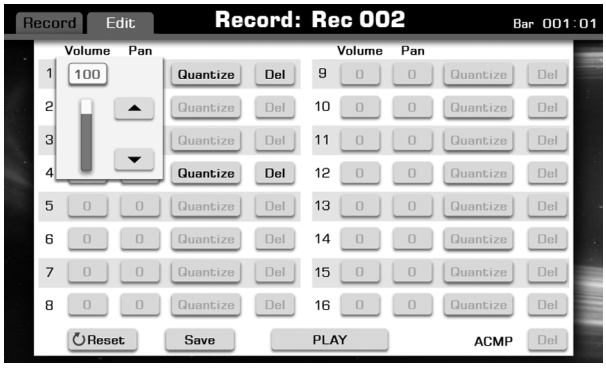
8. To record another channel, repeat steps 2-7.

Editing the Recorded MIDI Song

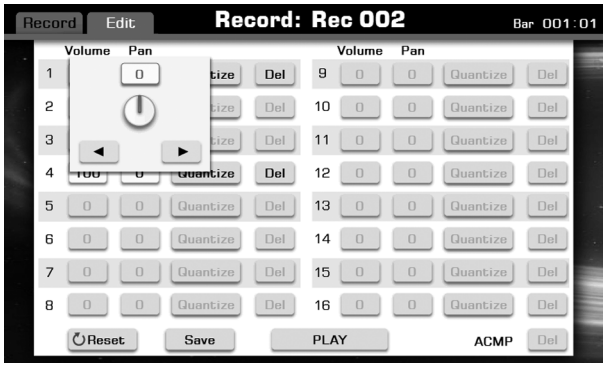
Press the “Edit” tab on the Recording Display or press the “Edit” button on the User Song Selection Display to call up the Song Editing Display.



Press the Volume “100” button to call up a pop-up box showing the adjustable range of volume values. Use the DATA DIAL, the [+] or the [-] button to adjust the volume.



Press the Pan “0” button to call up a pop-up box showing the adjustable range of pan values. Use the DATA DIAL, the [+] or the [-] button to adjust the pan.



Press the “Quantize” button to call up a pop-up box showing the quantize accuracy. Use the DATA DIAL, the [+] or the [-] button to adjust the parameter.
Press “OK” to confirm executing quantize.



Press the “Del” button to delete the relevant channel.

Press the “PLAY” button to playback the current edited song before saving.

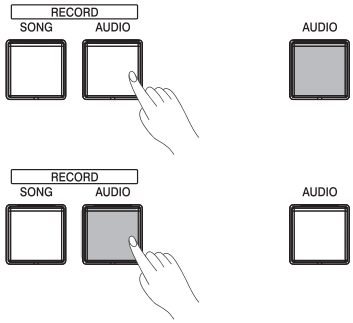
Press the “Reset” button to reset all operations.

Press the “Save” button to call up a pop-up box. Press “OK” to confirm saving.

Audio Recording

Audio recording will record your performance into a CD quality WAV file to your USB storage drive.
The following sounds can be recorded.

- Keyboard parts (R1, R2, R3, L), MIDI Song parts, Style parts
- Input from another audio device, such as a CD player, MP3 player or other audio inputs via the [AUX IN] jack.



1. Connect your USB storage device to the instrument. Press the [RECORD AUDIO] button to start recording your performance. The LED of [RECORD AUDIO] will light up.

2. Press the [RECORD AUDIO] button again to stop recording your performance and call up soft keyboard display. The LED of [RECORD AUDIO] will go out.



3. Enter the new name and press “OK” to save the new audio song. The recorded data using this function is saved as:

- Stereo WAV data
- 44.1 kHz sample rate/16 bit resolution

Note:

- The recorded audio file size is depending on the capacity of your USB storage device.
- When you are recording a midi song or playing a audio file from USB device, you can’t start audio recording.

Saving, Deleting or Renaming the User Song

1. Press“USER” or “USB” tab on Song Selection display to call up the relevant display for user songs.

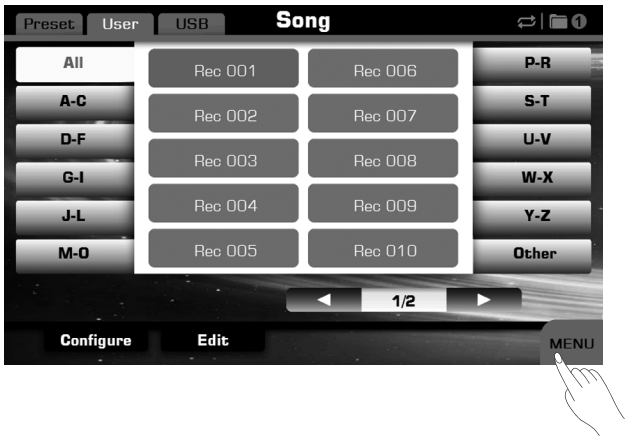
2. Select your desired user song by pressing the relevant name of user song.

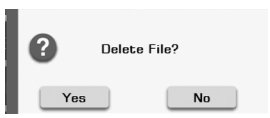
3. Press the “Menu” button to display the relevant buttons on the current display.

4. Press “SAVE TO USER” to call up soft keyboard display, enter the new name and press “OK” to save as a new user song to the internal memory.

5. Press “SAVE TO USB” to call up soft keyboard display, enter the new name and press “OK” to save as a new user song to the USB device memory.

6. Press “DELETE” to display the pop-up box, press “OK” to delete the current user song.







7. Press “RENAME” to call up soft keyboard display, enter the new name and press “OK” to rename the current user song.

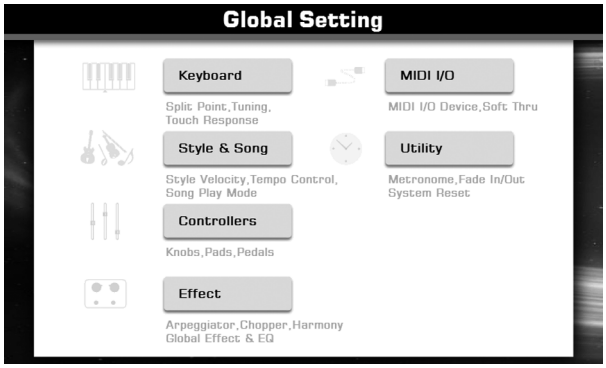
Note:

If the new name you entered is same as the name of exited user song, a pop-up box will appear.

Please press “OK” and rename the file again.

Press the [Global Setting] button to call up the Global Setting display. The relevant LED will light up.





Keyboard

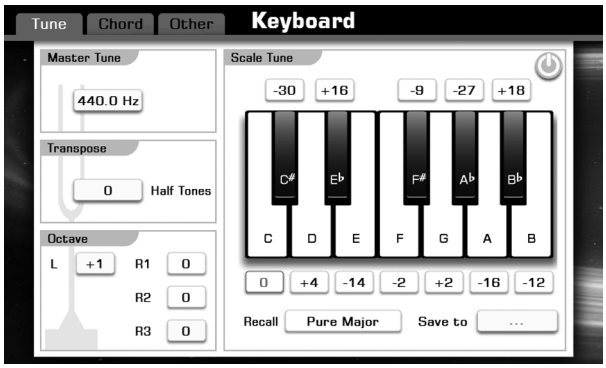
Pressing “Keyboard” on the Global Setting display will call up the Keyboard Setting display.

You can adjust the master tune, transpose, Octave and switch scale tune on or off, etc. Details see ***Voice-Changing Pitch***.

Pressing “Chord” tab on the Keyboard Setting display will call up the Chord Setting display.
Details see ***Style-Selecting a Chord Fingering Type***.

Pressing “Split & Touch” tab on the Keyboard Setting display will call up the Split and Touch Setting display.
Details about setting the split point see ***Style-Split Point Settings.***
Details about setting touch sensitivity see ***Voice-Setting the touch sensitivity of the keyboard.***

Press the [EXIT] button to exit to Global Setting display.





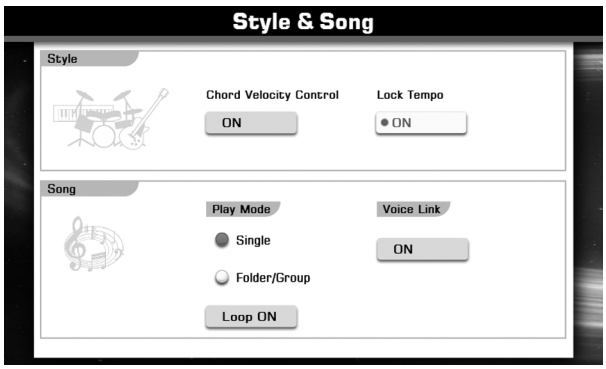
Style & Song

Pressing “Style & Song” on the Global Setting display will call up the Style and Song Setting display.

Press Chord Velocity Control “ON” to turn it on (orange font display). This function let you control the style volume by your playing strength in the chord section of the keyboard.

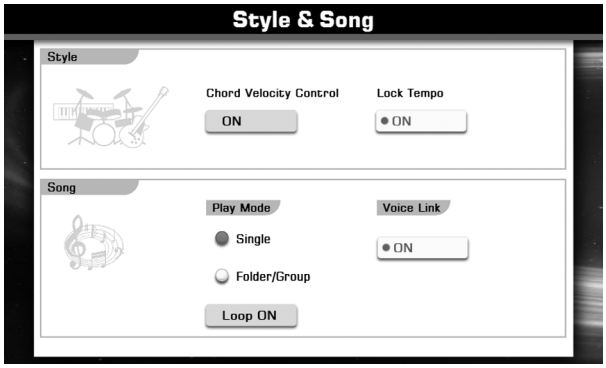
Press Lock Tempo “ON” to turn it on (orange font display). This function let you change style without changing the tempo during style playback.

Press “LOOP ON” to turn it on (orange font display).



Single	Loop ON	Playback the current song repeatedly until pressing the [PLAY/STOP] button to stop playing.
Single	Loop OFF	The playback will be stopped once the current playing song is finished.
Folder/Group	Loop ON	Playback the songs in one folder from USB device or in one group from User song in sequence repeatedly until pressing the [PLAY/STOP] button to stop playing.
Folder/Group	Loop OFF	The playback will be stopped once all songs in the folder of your USB device or one group of USER song is finished.

Press Voice Link “ON” to turn it on (orange font display). When this function is ON, if the song is changed when playing preset songs, the voice R1 is changed according to the melody of selected song automatically.



Press the [EXIT] button to exit to Global Setting display.



Controllers

Pressing “Controller” on the Global Setting display or pressing “Controller” on Main Display will call up the Controller Setting display. This instrument has 2 knobs, 6 Multi pads, 1 pedal that can be assigned to various functions.

Knob

These knobs let you change various aspects of the sound in real time while you play. Turn a knob to the right to increase the value, and the left to decrease it.
Press the [SELECT] button to select your desired group, the relevant LED will light up.
The groups (1-3) only effect to the current part. The group 4 lets you control a group of user-assignable functions.



Group 1	VOLUME	PAN
Group 2	ATTACK	RELEASE
Group 3	CUTOFF	RESONANCE
Group 4	ASSIGN 1	ASSIGN 2

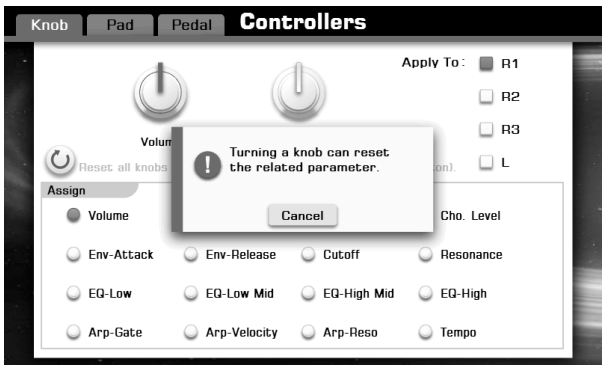
Pressing “Knob” tab on the Controller Setting display will call up the Knob Setting display.



Turning the knob or pressing the “knob” on the Knob Setting display to select the knob.
These parameters can be assigned to the knob. Press the relevant parameter button to select it.
The parameters (Volume, Pan, Reverb level, Chorus level, Envelope Attack, Envelope Release, Cutoff, Resonance) can be applied to the keyboard part. Press the relevant part button to switch the assigned function of the part on or off.

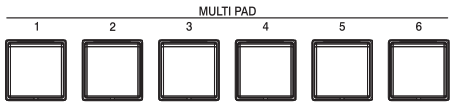
The parameters (EQ LOW, EQ LOW MID, EQ HIGH MID, EQ HIGH, ARP GAE, ARP VELOCITY, ARP RESO, TEMPO) are applied to the entire system.

How about the effect of these parameters? Details see ***VOICE***.



Reset All Knobs
Holding down the panel [SELECT] button, you will see a prompt message box, turning a knob (clockwise or anticlockwise) to reset related parameters.
Press the arrow button to reset all knob parameters.

Multi Pad

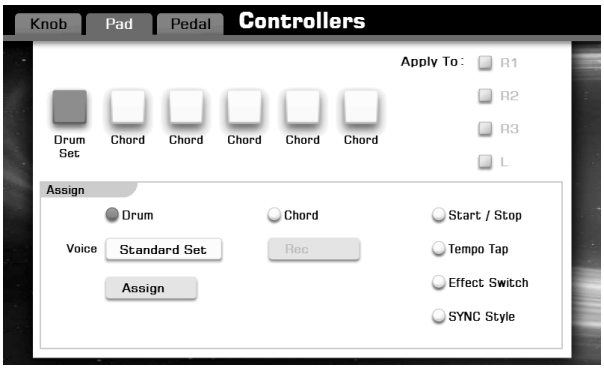


The Multi Pads can be used to play percussion and pre-recorded chord that can be used to add impact and variety to your keyboard performances.

Press any of the MULTI PADS to play the Multi Pad phrase.

Pressing “Pad” tab on the Controller Setting display will call up the Pad Setting display.

Press the [MULTI PAD] button or press the pad button to select a pad to be edited.



Assign PLAY DRUM function to the pad

You can assign the pad to PLAY DRUM function.

1. Press the “drum” button to select.

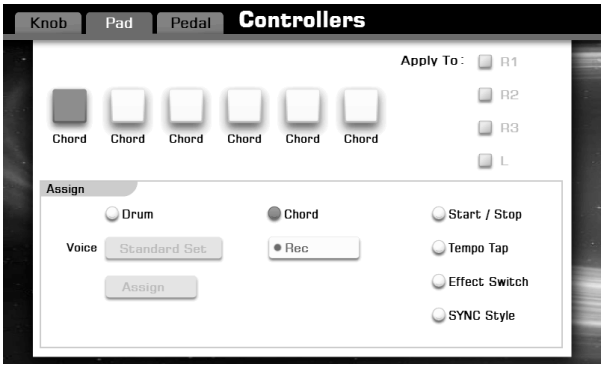
2. Press the “voice” button to call up the Drum Set Selection Display.

3. Press the “Assign” button to start assigning.

4. Play any key and listen until you satisfied with this percussion.

5. Press the “Assign” button again to finish assigning.

Now, Press the pad to play the assigned percussion.



Assign PLAY CHORD function to the pad

You can assign the pad to PLAY CHORD function.

1. Press the “Chord” button to select.

2. Press the “Rec” button to start recording.

3. Play the notes on the keyboard that you want to record.

4. Press the “Rec” button again to stop recording.

Now, Press the pad to play the recorded chord.

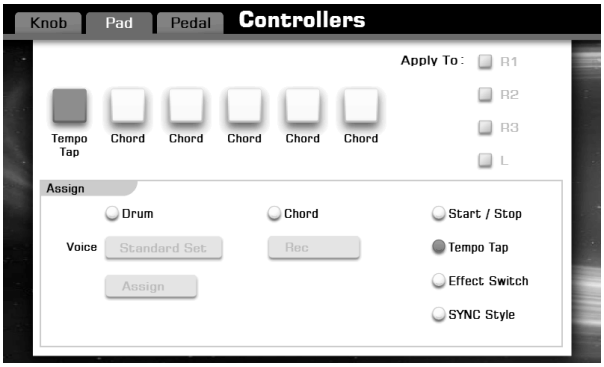
Assign other functions to the pad

You can assign the pad to START/STOP function. Press the pad to start or stop playing the current song or style.

You can assign the pad to TEMPO TAP function. Press the pad four times to automatically start the song or style at that tapped speed.

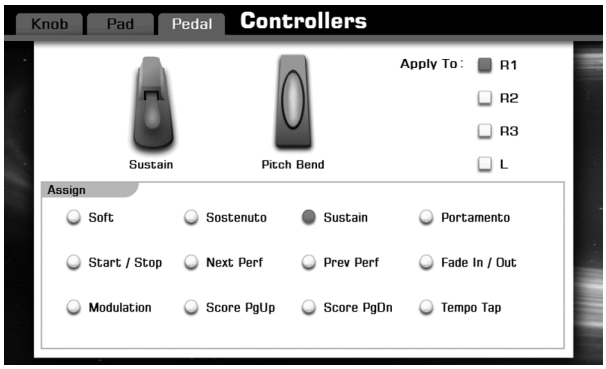
You can assign the pad to EFFECT SWITCH function, and press the relevant button to select the applied keyboard part.

You can assign the SYNC Style function. When you press this pad while the Style is in play, the Style pattern goes back to the previous strong beat.



Pedal

Pressing “Pedal” tab on the Controller Setting display will call up the Pedal Setting display.



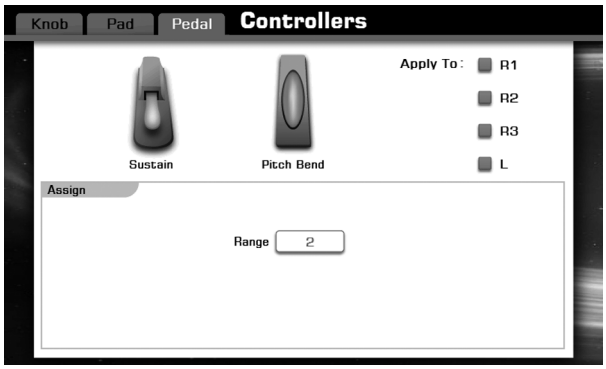
Assign specific functions to the pedal

Press the relevant button to select.

SUSTAIN	When you press and hold the pedal, all notes played on the keyboard have a longer sustain. Releasing the pedal immediately stops (damps) any sustained notes.
SOSTENUTO	If you play a note or chord on the keyboard and press the pedal while holding the note(s), the notes will sustain as long as the pedal is held. However, all subsequent notes will not sustain.
SOFT	Press this pedal to reduce the volume of the notes you play.
Prev. Perf	Press this pedal to select the previous performance memory.
Next Perf	Press this pedal to select the next performance memory.
PORTAMENTO	The portamento effect (a smooth slide between notes) can be produced while the pedal is pressed.
Score PgUp	While the song is stopped, you can turn to the previous score page.
Score PgDn	While the song is stopped, you can turn to the next score page.
Fade In/Out	Same as the [FADE IN/OUT] button.
Tap Tempo	Press the pedal four times to automatically start the song or style at that tapped speed.
Start/Stop	Same as the [START/STOP] button. Press this pedal to start or stop Style/Song playback.

Pitch Bend

You can set the range of the pitch bend wheel here.



RANGE	This determines the range of the pitch change in semitones.

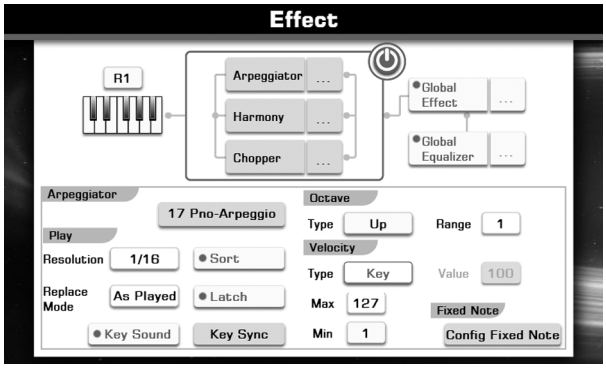
Press the [EXIT] button to exit to Global Setting display.

Effect

Pressing “Effect” on the Global Setting display will call up the Effect Setting display.

Details see ***Voice***.

Press the [EXIT] button to exit to Global Setting display.



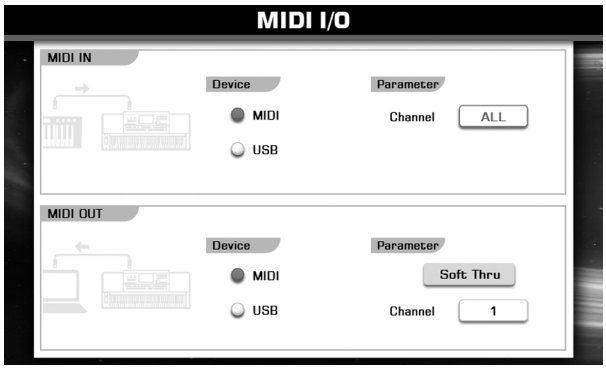
MIDI I/O

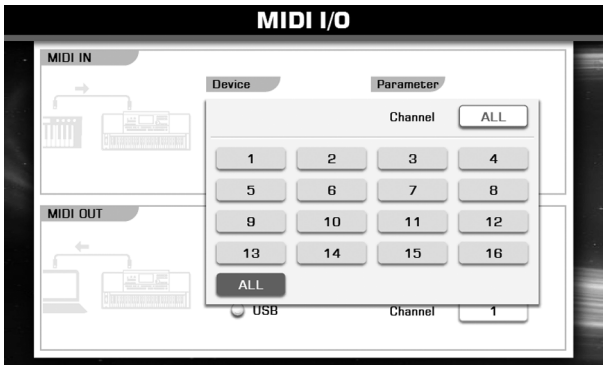
Pressing “MIDI I/O” on the Global Setting display will call up the MIDI Setting display.

MIDI IN
Press the relevant button to select the midi data that receive from the MIDI port or the USB port.
Press the channel button to select the channel that receives the midi data.

MIDI OUT
Press the relevant button to select the midi data that transmit to the MIDI port or the USB port.
Press the channel button to select the channel that transmits the midi data.
Press the “Soft Thru” button to switch the Soft Thru function ON or OFF.

Press the [EXIT] button to exit to Global Setting display.





Utility

Pressing “Utility” on the Global Setting display will call up the Utility display.

Metronome

Setting the Time Signature
Press the time signature button1 button to display a pop-up box.
Use the DATA DIAL or Press the [+] and [-] buttons to select your desired parameter.
Press the time signature button2 button to display a pop-up box.
Use the DATA DIAL or Press the [+] and [-] buttons to select your desired parameter.

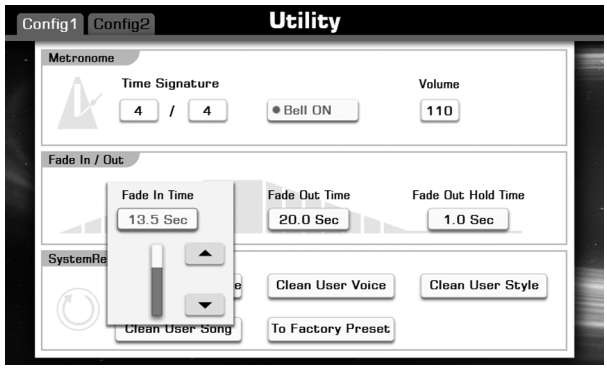
Press this “BELL ON” button to add the bell sound to the metronome sound or not.

Adjusting the volume
Press the volume button to display a pop-up box.
Use the DATA DIAL or Press the [+] and [-] buttons to adjust the volume of the metronome.



Fade In/Out

FADE IN TIME	Determines the time it takes for the volume to fade in.
FADE OUT TIME	Determines the time it takes for the volume to fade out.
FADE OUT HOLD TIME	Determines the time the volume is held at 0 following the fade out.

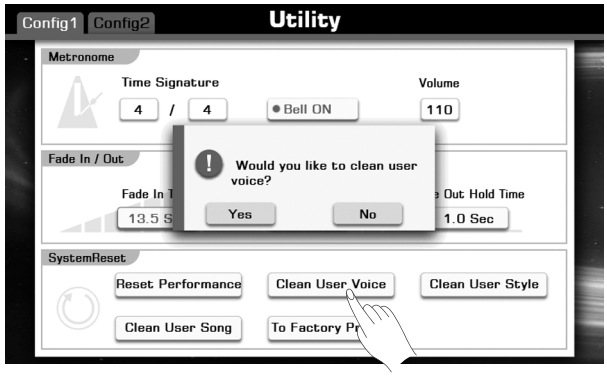


Press the relevant time button to display a pop-up box.

Use the DATA DIAL or Press the [+] and [-] buttons to select your desired time.

System Reset

Reset Performance	Restores the all performance memory setting to the original factory settings.
Clean User Voice	Delete all user voices.
Clean User Style	Delete all user styles.
Clean User Song	Delete all user songs.
To Factory Reset	Restores the all data to the original factory settings. (user voice, user style, user song, user performance, utility setting, etc.)

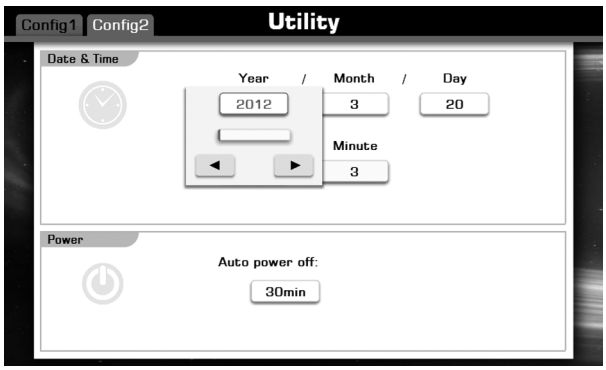


Press the relevant button to execute the operation.

Press the “config2” tab to call up the relevant setting display.

Setting the Date and Time

Press the relevant button to display a pop-up box.
Use the DATA DIAL or Press the [+] and [-] buttons to select your desired parameter.



Auto Power Off

Press the relevant button to display a pop-up box.
Use the DATA DIAL or Press the [+] and [-] buttons to select your desired time.
Press the [EXIT] button to exit to Global Setting display.

The Performance Memory feature can make your performance more easily and efficiently. It allows you to save panel settings to a Performance Memory button, and then instantly recall your custom panel settings by pressing a single button (M1-M6). The saved settings for six Memory buttons should be saved as a single Bank (Performance file).

Selecting a Performance Bank



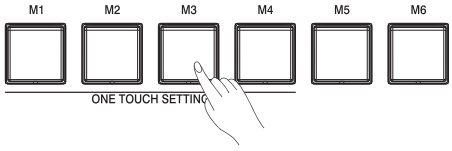
Press the [BANK] button or press PERFORMANCE display area on the Main Display to call up the Performance Selection display.
Press the cursor button on LCD to select your desired performance page.
Press the performance NAME to select the desired performance on the current page display.



Note:
If you want to select the user performance, press the “User” to select the USER display or press the “USB” to select the USB display.
You can edit the preset performance memory and save to user, or create new user performance by the GrandSuite software.

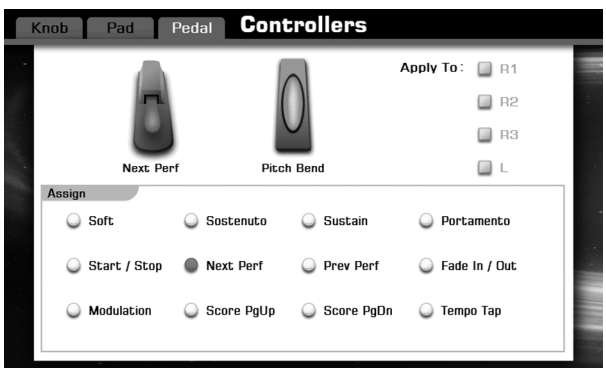
Recalling a Performance Memory Settings

Press one of the Performance Memory buttons ([M1]-[M6]).
In this example, the panel settings stored in the memory 3 of performance bank 1 are recalled.
The parameters about the panel settings:



Voice	R1/R2/R3/Left Part ON/OFF R1/R2/R3/Left voice selection R1/R2/R3/Left settings (Volume/Pan/Reverb Level/Chorus Level) Pitch (Transpose/Master Tune /Octave Scale/Tune) Left Split & touch
Style	Style selection Variations Mixer settings about style Chord Split The settings about chord Control button status(SYNC, O.T.S LINK, AUTO FILL, A.B.C) Tempo and the relevant settings
Song	Song selection Play mode Mixer settings about song
Effect	Reverb & Chorus EQ Effect (Arpeggiator, Harmony, Chopper)
Controller	Knob Settings Multi Pad Settings Pedal and Pitch bend Settings
Transpose	Transpose setting
Others	Fade and Fade time settings Metronome settings

You can use a pedal to select the Performance Memory numbers in order. The pedal is assigned as Next Perf. or Prev. Perf. function.



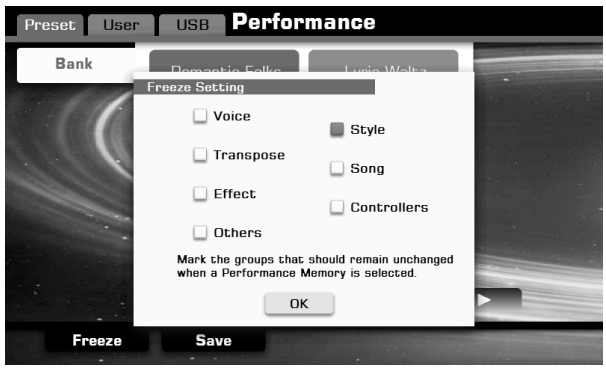
Freezing the Specific Item



The freezing function lets you maintain the settings of certain items and leave them unchanged, even when selecting other Performance Memory buttons.
Press the [FREEZE] button to turn the FREEZE function on or off.

How to select the frozen item?

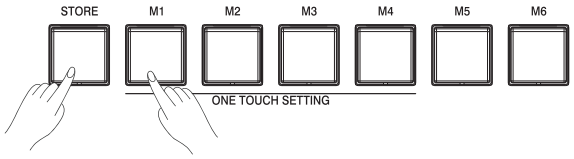
1. Press the [BANK] button or press PERFORMANCE display area on the Main Display to call up the Performance Selection display.
2. Press the [FREEZE] button on the Performance Selection display to call up a pop-up box.
3. Press the relevant button to select the frozen items. The parameters about the frozen item see the above parameter form.
4. Press the “OK” button to confirm it.



Note:
The Settings about the FREEZE function are automatically saved to the instrument when you exit from this display. However, if you turn the power off, the settings will be lost.

Registering the Performance Memory Settings

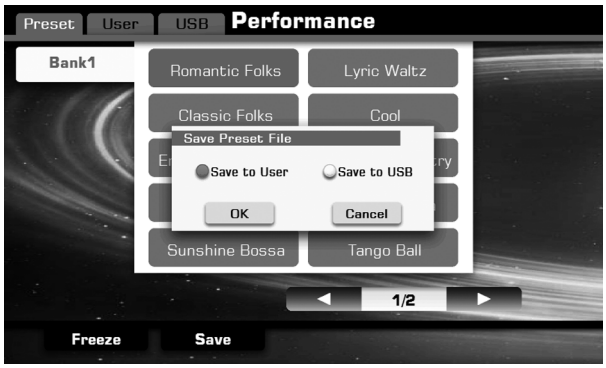
1. Set up the panel controls (such as Voice, Style, effect, and so on) as desired.
2. Press and hold the [STORE] button, then press one of the Performance Memory buttons ([M1]-[M6]). All panel setup will be registered to the selected Performance Memory.



Note:
Any panel setup previously registered to the selected Performance Memory will be erased and replaced by the new settings.

Saving the Preset Performance

1. Press the [BANK] button or press PERFORMANCE display area on the Main Display to call up the Performance Selection display.
2. Press the [SAVE] button on the Performance Selection display to call up a pop-up box.
3. Press the relevant button to select saving to User or saving to USB.
4. Press the [OK] button to call up soft keyboard display, enter the new name and press “OK” to save as a new user performance to the internal memory or USB device.



Saving, Deleting or Renaming the User Performance

1. Press“USER” or “USB” tab on Performance Selection display to call up the relevant display for user Performances.

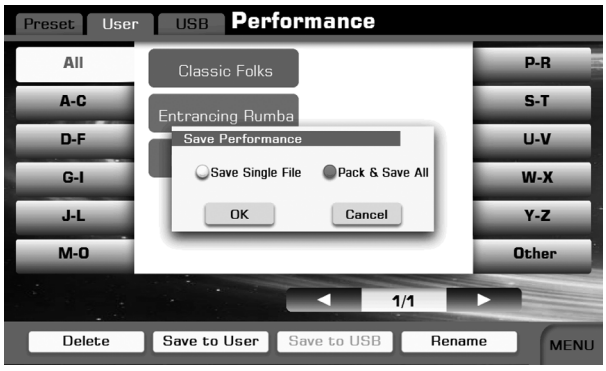
2. Select your desired user performance by pressing the relevant name of user performance.

3. Press the “Menu” button to display the relevant buttons on the current display.

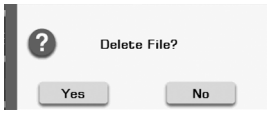
4. Press “SAVE TO USER” to call up soft keyboard display, enter the new name and press “OK” to save as a new user performance to the internal memory.

5. Press “SAVE TO USB” to display a pop-up box, you can save a single performance file(*.prf) or save a packing performance file(*.tpf) to the USB device memory. Press “OK” button to call up soft keyboard display, enter the new name and press “OK” to save it.





6. Press “DELETE” to display the pop-up box, press “OK” to delete the current user performance.



7. Press “RENAME” to call up soft keyboard display, enter the new name and press “OK” to rename the current user performance.



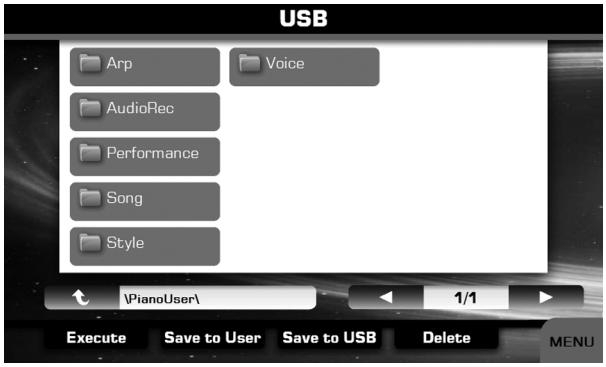
Note:

If the new name you entered is same as the name of exited user performance, a pop-up box will appear.
Please press “OK” and rename the file again.

USB Device

By connecting a USB storage device to your instrument, you can save data you've created to the connected device, as well as read data from the connected device.





Compatible USB device
Recommended Brand: KINGSTON, SANDISK, SONY, LEXAR, TRANSCEND
Format: FAT 16/32
Capacity: 1G,2G,4G,8G,16G,32G

Using the USB device
1. Connect the USB storage device to the USB port.
2. Press the [USB DEVICE] button to display the folders and files under the root directory of USB device.
Press the USB tab on each selection display (such as voice, style, song, performance), enter the relevant folder directly, and save, rename or delete the user files from USB device.

Note
If you save your files to your USB storage device in file slection displays (like VOICE Selection or Song Selection), the files would be saved into folder "PianoUser" in the root directory of your USB storage device.

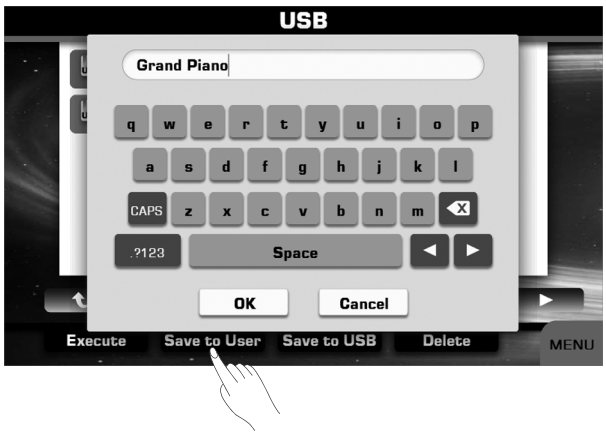
File Operations in the File Selection Display

Caution:
While the instrument is accessing data (like during the Save, Copy and Delete operations), do not unplug the USB device, and do not turn off the instrument power. Doing so may corrupt the data on either or both devices.

Executing a file
Press the "Execute" button to executing the operation for the selected file.

File Format	Executing Operation
Voice	Select the voice file for the current part
Style	Same as [START/STOP] button
Song (midi file)	Same as [PLAY/STOP] button
Audio file	Same as [PLAY/STOP] button
Performance(*.tpf)	Save to internal user performance memory

Saving a file
Press the "Save to User" button to save the selected file to internal user memory.
Note:
Storage path depends on the file type.

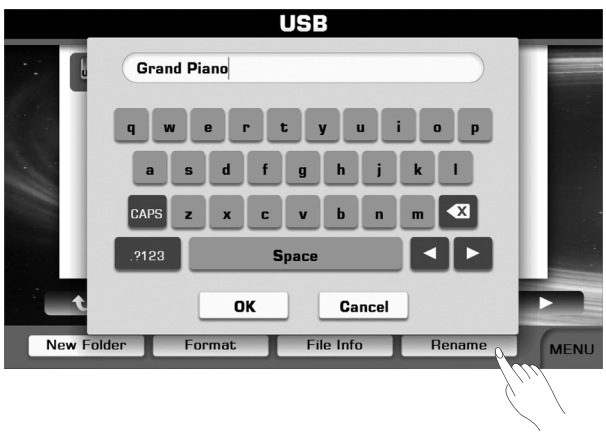


Press the "Save to USB" button to save the selected file to external USB device.

Deleting a file
Press the "Delete" button to call up a pop-up box.

Press the "OK" button to delete the selected file.

Renaming a file
Press the "Menu" button to display the relevant buttons on the current display.

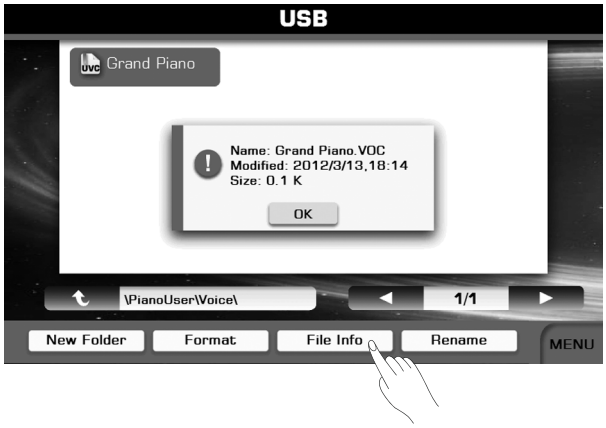


Press "RENAME" to call up soft keyboard display, enter the new name and press "OK" to rename the selected file.
Note:
If the new name you entered is same as the name of exited user voice, a pop-up box will appear. Please press "OK" and rename the file again.

Viewing the file information

Press the “Menu” button to display the relevant buttons on the current display.

Press “File Info” to call up a pop-up box about the file information (EX. Full name, size, etc.).

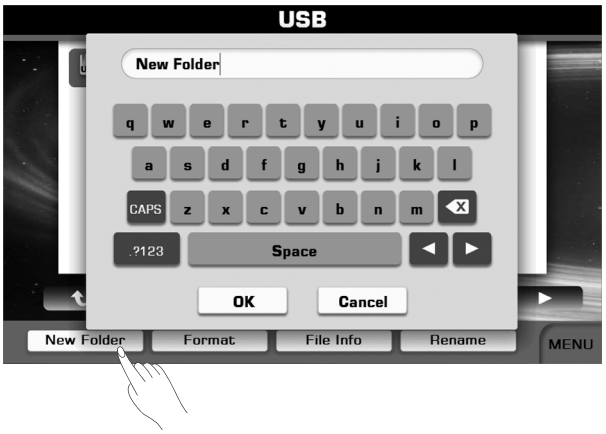


Creating a New Folder

Press the “Menu” button to display the relevant buttons on the current display.

Press “Folder” to call up soft keyboard display, enter the new folder name and press “OK” to create it.

If the name you entered is same as the name of exited folder, a pop-up box will appear.

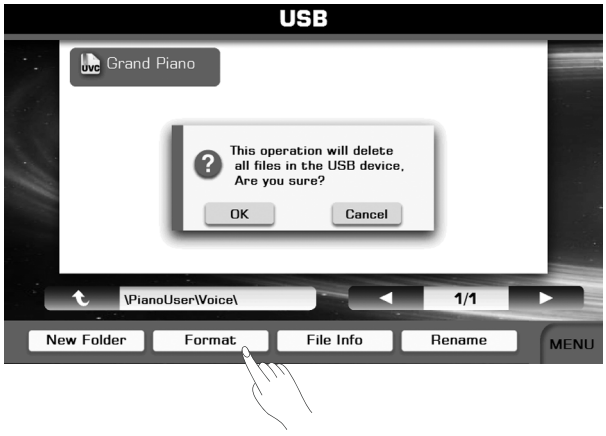


Formatting the USB Device

It is better to use the USB Storage Device which is formatted by the instrument.

Note:

The format operation overwrites any previously existing data. Proceed with caution.
Press the “Menu” button to display the relevant buttons on the current display.
Press “Format” to call up a pop-up box.
Press the “OK” button to format the connected USB device.



MIDI

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

What's MIDI?

MIDI is an acronym that stands for Musical Instrument Digital Interface, which allows electronic musical instruments to communicate with each other, by sending and receiving compatible Note, Control Change, Program Change and various other types of MIDI data, or messages. The instrument can control a MIDI device by transmitting note related data and various types of controller data. The instrument can be controlled by the incoming MIDI messages which automatically determine tone generator mode, select MIDI channels, voices and effects, change parameter values and of course play the voices specified for the various parts. MIDI messages can be divided into two groups: Channel messages and System messages.

MIDI Terminals

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

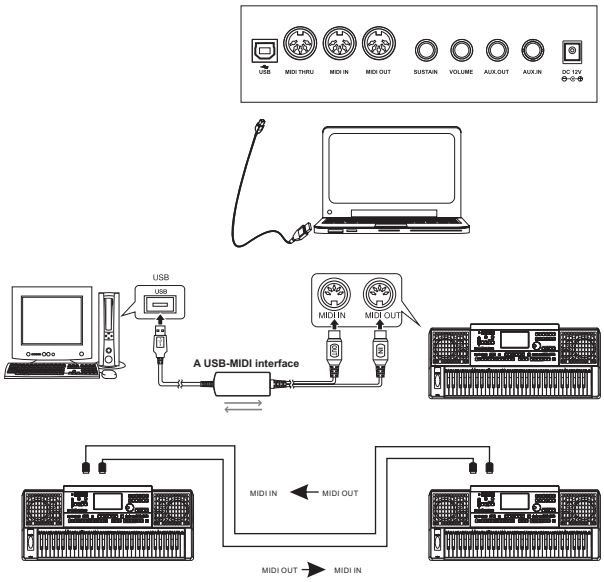
MIDI IN: Receives MIDI data from a computer.

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

MIDI THRU PORT: You can use MIDI cable to link the MIDI THRU port to other MIDI instrument MIDI IN port. The message that the MIDI IN port receives will be auto sent to the MIDI THRU port, so that one MIDI instrument can control many MIDI instrument at the same time.

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 as Midi Controller.



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/R3/L voice volume (Mixer) settings could be set too low. Make sure the voice volumes are set at appropriate levels.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
The auto accompaniment does not play back even Sync is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Sync Start, make sure to play a key in the left-hand range of the keyboard.
Certain notes sound at wrong pitch.	Make sure that the Master Tune is set to “440.1hz” and turn off the Scale Tune.
The Harmony function does not operate.	Harmony cannot be turned on when the Full Keyboard fingering mode is selected. And Harmony cannot be turned on when a drum kit is selected for the voice R1.

Specification

Keyboard
61 Keys with touch response

Display
7" TFT, 800 x 480 color touch screen

Polyphony
128

Voice
672(Including 256 GM2 instrument voices and 15 drum kits)

Effect
Reverb, Chorus, Master EQ, Arpeggio, Harmony, Chopper

Style
240

Style Control
STYLE SELECT, START/STOP, SYNC STOP, SYNC START, INTRO 1, INTRO 2, MAIN A, MAIN B, MAIN C, MAIN D, ENDING 1, ENDING 2, A.B.C., AUTO FILL IN, O.T.S. LINK, FADE IN/OUT

Song
90 Preset Songs

Song Control
SONG SELECT, PLAY/STOP, PAUSE, RW, FF

SCORE
Display the Music Notation

Record
MIDI Recorder and USB Audio Recorder

Demo
2

Tempo
30-280, Tap Tempo

Performance Memory
10(BANK)*6(M1-M6), FREEZE, STORE

Multi Pad
6

Other Control
MASTER VOLUME SLIDER, SELECT, 2 KNOBS, EFFECT ON/OFF, GLOBAL SETTING, MIXER, VOICE DIRECT BUTTONS, DATA DIAL, +, -, PART ON/OFF BUTTONS, EXIT, SUSTAIN, TRANSPOSE+, TRANSPOSE-, OCTAVE+, OCTAVE-, O.T.S., MODULATION, PITCH BEND, MASTER TUNE, SCALE TUNE, METRONOME

USB Device
Save the user data (Ex: User voices, User Song, User Memory, etc.)
Play the User Song (Format: SMF/WAV/MP3/WMA)

Connectors
DC IN, Headphones, AUX. IN, AUX. OUT, Sustain Pedal, Volume Pedal, USB, MIDI IN, MIDI OUT, MIDI THRU, USB PORT.

Power Supply
DC 12V

Speaker
15W+15W, 25W+25W

Dimensions
970(W)X390(D)X160(H)mm

Weight
9Kg

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

Voice List

No.	Full Name	LCD Name
Piano		
1	Acoustic Grand Piano	Grand Piano
2	Acoustic Grand Piano (wide)	Grand Piano/Wide
3	Acoustic Grand Piano (dark)	Grand Piano/Dark
4	Bright Acoustic Piano	Bright Piano
5	Bright Acoustic Piano (wide)	Bright Piano/Wide
6	Electric Grand Piano	Electric Grand
7	Electric Grand Piano (wide)	Elec.Grand/Wide
8	Honky Tonk Piano	Honky Tonk
9	Honky Tonk Piano (wide)	Honky Tonk/Wide
10	Harpsichord	Harpsichord
11	Harpsichord (octave mix)	Harpsichord/Octave
12	Harpsichord (wide)	Harpsichord/Wide
13	Acoustic Grand Piano (stereo)	Stereo Grand Piano
14	Octave Grand Piano 1	Octave Piano 1
15	Octave Grand Piano 2	Octave Piano 2
16	Piano & Strings 1	Piano&Strings 1
17	Piano & Pad 1	Piano&Pad 1
18	Piano & Choir 1	Piano&Choir 1
19	Piano & EP 1	Piano&EP 1
20	Piano & Vibraphone 1	Piano&&Vibra 1
21	Jazz Piano	Jazz Piano 1
22	Pop Piano	Pop Piano
23	Rock Piano	Rock Piano
24	Club Piano	Club Piano 1
25	Piano & Strings 2	Piano&Strings 2
26	Piano & Pad 2	Piano&Pad 2
27	Piano & Choir 2	Piano&Choir 2
28	Piano & EP 2	Piano&EP 2
29	Piano & Vibraphone 2	Piano&Vibra 2
30	Electric Grand Piano (dark)	Elec.Grand/Dark
31	Fusion Electric Grand Piano	Fusion Piano
32	Club Electric Grand Piano	Club Piano 2
33	Wah Electric Grand Piano	Wah Piano
34	Honky Tonk Piano (dark)	Honky Tonk/Dark
35	Honky Tonk Piano (stereo)	Honky Tonk/Stereo
36	Harpsichord (with key off)	Harpsichord/KeyOff
37	Harpsichord 2	Harpsichord 2
E. Piano		
38	Electric Piano 1	E.Piano 1
39	Electric Piano 2	E.Piano 2
40	Detuned Electric Piano 1	Detuned EP 1
41	Electric Piano 1 (velocity mix)	Velocity EP 1
42	60's Electric Piano	60's EP
43	Detuned Electric Piano 2	Detuned EP 2
44	Electric Piano 2 (velocity mix)	Velocity EP 2
45	EP Legend	EP Legend
46	Phase EP 1	Phase EP 1
47	Clavi	Clavi
48	Pulse Clavi	Pulse Clavi
49	Fusion Electric Piano	Fusion EP
50	Club Electric Piano	Club EP
51	Jazz Electric Piano	Jazz EP
52	Phase EP 2	Phase EP 2
53	Tremolo EP 1	Tremolo EP 1
54	Funk EP 1	Funk EP 1
55	Modern EP 1	Modern EP 1
56	Warm EP 1	Warm EP 1
57	Choir EP 1	Choir EP 1
58	Wah EP 1	Wah EP 1
59	EP & Strings 1	EP&Strings 1
60	Tremolo EP 2	Tremolo EP 2
61	Funk EP 2	Funk EP 2
62	Modern EP 2	Modern EP 2
63	Warm EP 2	Warm EP 2
64	Choir EP 2	Choir EP 2
65	Wah EP 2	Wah EP 2
66	EP & Strings 2	EP&Strings 2
67	Clavi 2	Clavi 2
68	Phase Clavi	Phase Clavi
69	Wah Clavi	Wah Clavi
70	E.Clavi	E.Clavi
Organ		
71	Drawbar Organ	Drawbar Organ
72	Detuned Drawbar Organ	Detuned DrawOrg
73	Italian 60's Organ	60's Organ
74	Drawbar Organ 2	Drawbar Organ 2
75	Percussive Organ	Percussive Organ
76	Detuned Percussive Organ	Detuned PercOrgan
77	Percussive Organ 2	Percussive Organ 2
78	Rock Organ	Rock Organ
79	Church Organ	Church Organ
80	Church Organ (octave mix)	ChurchOrg/Octave
81	Detuned Church Organ	Detune ChurchOrg
82	Reed Organ	Reed Organ
83	Soft Stereo Drawbar Organ	Soft St DrawOrg
84	Mellow Drawbar Organ	Mellow DrawOrg
85	Detuned Drawbar Organ 2	Detuned DrawOrg 2
86	Bright Drawbar Organ 1	Bright DrawOrg 1
87	Bright Drawbar Organ 2	Bright DrawOrg 2
88	70's Percussive Organ	70's PercOrgan
89	Light Click Organ 1	Light Click Org 1
90	Light Click Organ 2	Light Click Org 2
91	Detuned Percussive Organ 2	Detuned PercOrg 2
92	Stereo Rotary Organ	Stereo RotaryOrg
93	Rock Organ 2	Rock Organ 2
94	Rotary Organ 1	Rotary Organ 1
95	Rotary Organ 2	Rotary Organ 2
96	Slow Rotary Organ	Slow Rotary Organ
97	Church Organ 2	Church Organ 2
98	Detuned Church Organ 2	Detune ChurchOrg 2
99	Church Organ 3	Church Organ 3
100	Puff Organ	Puff Organ
Accordion & Harmonica		
101	Accordion	Accordion
102	Accordion 2	Accordion 2
103	Harmonica	Harmonica
104	Tango Accordion	Tango Accordion
105	Accordion 3	Accordion 3
106	Chorus Accordion	Chorus Accordion
107	Musette	Musette
108	Accord It Solo	Accord It Solo
109	Sweet Harmonica	Sweet Harmonica
110	Harmonica 2	Harmonica 2
111	Wah Harmonica	Wah Harmonica

112	Tango Accordion 2	Tango Accordion 2
Guitar & Bass		
113	Acoustic Guitar (nylon)	Nylon Guitar
114	Ukulele	Ukulele
115	Acoustic Guitar (nylon + key off)	NylonGtr/KeyOff
116	Acoustic Guitar (nylon 2)	Nylon Guitar 2
117	Acoustic Guitar (steel)	Steel Guitar
118	12-Strings Guitar	12Strings Guitar
119	Mandolin	Mandolin
120	Steel Guitar with Body Sound	SteelGtr/BodySd
121	Electric Guitar (jazz)	Jazz Guitar
122	Electric Guitar (pedal steel)	Pedal Guitar
123	Electric Guitar (clean)	Clean Guitar
124	Electric Guitar (detuned clean)	Detuned CleanGtr
125	Mid Tone Guitar	Mid Tone Guitar
126	Electric Guitar (muted)	Muted Guitar
127	Electric Guitar (funky cutting)	Funk Guitar
128	Electric Guitar (muted velo-sw)	Velocity MutedGtr
129	Jazz Man	Jazz Man
130	Overdriven Guitar	OverdrivenGtr
131	Guitar Pinch	Guitar Pinch
132	Distortion Guitar	DistortionGtr 1
133	Distortion Guitar (with feedback)	Feedback Guitar
134	Distorted Rhythm Guitar	Rhythm DistGtr
135	Guitar Harmonics	Guitar Harmonics
136	Guitar Feedback	Feedback Guitar 3
137	Velocity Nylon Guitar	Velocity NylonGtr
138	Chorus Nylon Guitar	Chorus NylonGtr
139	Bright Nylon Guitar	Bright NylonGtr
140	Steel Guitar 2	Steel Guitar 2
141	Tremolo Steel Guitar 1	Tremolo SteelGtr 1
142	Tremolo Steel Guitar 2	Tremolo SteelGtr 2
143	Velocity Steel Guitar	Velocity SteelGtr
144	Mandolin 2	Mandolin 2
145	12-Strings Guitar 2	12Strings Guitar 2
146	Chorus Steel Guitar	Chorus SteelGtr
147	Nylon & Steel Guitar	Nylon&SteelGtr
148	Pedal Steel Guitar	Pedal Steel Guitar
149	Electric Guitar (jazz) 2	Jazz Guitar 2
150	Mellow Guitar	Mellow Guitar
151	Velocity Jazz Guitar	Velocity JazzGtr
152	Detuned Jazz Guitar	Detuned JazzGtr
153	Stereo Clean Guitar	Stereo CleanGtr
154	Velocity Clean Guitar	Velocity CleanGtr
155	Stereo Muted Guitar	Stereo MutedGtr
156	Overdriven Guitar 2	OverdrivenGtr 2
157	Distortion Guitar 2	DistortionGtr 2
158	Distortion Guitar (with feedback) 2	Feedback Guitar 2
159	5th Distortion	5th Distortion
160	Distortion Guitar Octave	Octave DistGtr
161	Stereo Distorted Guitar	Stereo DistGtr
162	Guitar Harmonics 2	Guitar Harmonics 2
163	Acoustic Bass	Acoustic Bass
164	Electric Bass (finger)	Finger Bass
165	Finger Slap Bass	Finger Slap Bass
166	Electric Bass (pick)	Pick Bass
167	Fretless Bass	Fretless Bass
168	Slap Bass 1	Slap Bass 1
169	Slap Bass 2	Slap Bass 2
170	Synth Bass 1	Synth Bass 1
171	Synth Bass 2	Synth Bass 2
172	Acoustic Bass 2	Acoustic Bass 2
173	Acoustic Bass 3	Acoustic Bass 3
174	Acoustic Bass Detuned	Detuned AcousBass
175	Acoustic Bass Filter	Filter AcousBass
176	Jazz Style	Jazz Style
177	Acoustic Bass & Mute Guitar	AcoBass&MuteGtr
178	Electric Bass (finger) 2	Finger Bass 2
179	Detuned Finger Bass	Detuned FngrBass
180	Dark Finger Bass	Dark Finger Bass
181	Finger Slap Bass 2	Finger Slap Bass 2
182	Resonant Finger Bass	Resonant FngrBass
183	Wah Finger Bass	Wah Finger Bass
184	Bass & Distorted Electric Guitar	Bass&DistortedGtr
185	Electric Bass (pick) 2	Pick Bass 2
186	Mute Pick Bass	Mute Pick Bass
187	Detuned Pick Bass	Detuned Pick Bass
188	Fretless Bass 2	Fretless Bass 2
189	90's Bass	90's Bass
190	Fretless Bass & Sine	Fretless&Sine
191	Fretless Bass Detuned 1	Detuned Fretless 1
192	Fretless Bass Detuned 2	Detuned Fretless 2
193	Fretless Bass Detuned 3	Detuned Fretless 3
194	Slap Bass 3	Slap Bass 3
195	Slap Bass 4	Slap Bass 4
196	Power Slap Bass	Power Slap Bass
197	Lash Thumb Bass	Lash Thumb Bass
198	Resonant Slap Bass	Resonant SlapBass
199	Wah Slap Bass 1	Wah Slap Bass 1
200	Velocity Switch Slap Bass	Velocity SlapBass
201	Wah Slap Bass 2	Wah Slap Bass 2
202	Synth Bass (warm)	Warm Synth Bass
203	Synth Bass 3 (resonance)	Resonance SynBass
204	Clavi Bass	Clavi Bass
205	Hammer	Hammer
206	Synth Bass 4 (attack)	Attack Bass
207	Synth Bass (rubber)	Rubber Bass
208	Attack Pulse	Attack Pulse
Strings & Strings Ensemble		
209	Violin	Violin
210	Violin (slow attack)	Slow Violin
211	Viola	Viola
212	Cello	Cello
213	Contrabass	Contrabass
214	Tremolo Strings	Tremolo Strings
215	Pizzicato Strings	PizzicatoStr
216	Orchestral Harp	Orchestral Harp
217	Yang Chin	Yang Chin
218	Timpani 1	Timpani 1
219	String Ensembles 1	String Ensembles 1
220	String Ensembles 2	String Ensembles 2
221	Strings & Brass	Strings&Brass
222	60's Strings	60's Strings
223	Synth Strings 1	Synth Strings 1
224	Synth Strings 2	Synth Strings 2
225	Synth Strings 3	Synth Strings 3

226	Choir Aahs	Choir Aahs
227	Choir Aahs 2	Choir Aahs 2
228	Voice Oohs	Voice Oohs
229	Humming	Humming
230	Anlong Voice	Anlong Voice
231	Synth Voice	Synth Voice
232	Orchestra Hit	Orchestra Hit
233	The Violin	The Violin
234	Violin 2	Violin 2
235	Mono Violin	Mono Violin
236	Octave Violin	Octave Violin
237	Electric Violin	Electric Violin
238	Violin & Viola	Violin&Viola
239	Two Violin	Two Violin
240	Soft Violin	Soft Violin
241	Velocity Violin	Velocity Violin
242	Viola 2	Viola 2
243	Viola 3	Viola 3
244	Dark Viola	Dark Viola
245	Cello 2	Cello 2
246	Cello 3	Cello 3
247	Cello 4	Cello 4
248	Celloen 16'	Celloen 16'
249	Chamber Music	Chamber Music
250	Contrabass 2	Contrabass 2
251	Tremolo Strings 2	Tremolo Strings 2
252	Slow Tremolo Strings 1	Slow TremoloStr 1
253	Slow Tremolo Strings 2	Slow TremoloStr 2
254	Pizzicato Strings 2	PizzicatoStr 2
255	Octave Pizzicato	Octave Pizzicato
256	Orchestral Harp 2	Orchestral Harp 2
257	Yang Chin 2	Yang Chin 2
258	Africa 1	Africa 1
259	Africa 2	Africa 2
260	Timpani 2	Timpani 2
261	Stereo Slow Strings	Stereo SlowStr
262	Slow Strings	Slow Strings
263	Legato Strings	Legato Strings
264	Orchestra 1	Orchestra 1
265	Arco Strings	Arco Strings
266	Resonant Strings	Resonant Strings
267	The Strings	The Strings
268	70's Strings	70's Strings
269	Solo Strings	Solo Strings
270	Synth Strings 4	Synth Strings 4
271	Synth Strings 5	Synth Strings 5
272	Choir Aahs 3	Choir Aahs 3
273	Choir Aahs 4	Choir Aahs 4
274	Mellow Choir	Mellow Choir
275	Stereo Choir Aahs	Stereo Choir Aahs
276	Strings & Choir 1	Strings&Choir 1
277	Strings & Choir 2	Strings&Choir 2
278	Strings & Voice 1	Strings&Voice 1
279	Strings & Voice 2	Strings&Voice 2
280	Analog Voice	Analog Voice
281	Bass Hit Plus	Bass Hit Plus
282	6th Hit	6th Hit
283	Euro Hit	Euro Hit
284	Octave Orchestra Hit	Octave OrchHit
Brass & Saxophone		
285	Trumpet	Trumpet
286	Dark Trumpet Soft	DarkTrump Soft
287	Trombone	Trombone
288	Trombone 2	Trombone 2
289	Bright Trombone	Bright Trombone
290	Tuba	Tuba
291	Muted Trumpet	Muted Trumpet
292	Muted Trumpet 2	Muted Trumpet 2
293	French Horn	French Horn
294	French Horn 2 (warm)	French Horn 2
295	Brass Section	Brass Section
296	Brass Section 2 (octave mix)	Brass Section 2
297	Synth Brass 1	Synth Brass 1
298	Synth Brass 2	Synth Brass 2
299	Synth Brass 3	Synth Brass 3
300	Synth Brass 4	Synth Brass 4
301	Trumpet 2	Trumpet 2
302	Dark Trumpet Soft 2	DarkTrump Soft 2
303	Resonant Trumpet	Resonant Trumpet
304	Sweet Trumpet	Sweet Trumpet
305	Wah Trumpet	Wah Trumpet
306	Dark Trombone	Dark Trombone
307	Dark Trombone 2	Dark Trombone 2
308	Strings & Trombone	Strings&Tromb
309	Tuba 2	Tuba 2
310	Tuba 3	Tuba 3
311	Tuba Solo	Tuba Solo
312	Soft Tuba	Soft Tuba
313	Muted Trumpet 3	Muted Trumpet 3
314	French Horn 3	French Horn 3
315	French Horn 4	French Horn 4
316	Stereo French Horn	Stereo FrHorn
317	Fifth Horn Orchestra	Fifth HornOrch
318	Brass Section 3	Brass Section 3
319	Brass Section 4	Brass Section 4
320	Dark Brass 1	Dark Brass 1
321	Brassband	Brassband
322	Bright Brass Section	Bright Brass
323	Dark Brass 2	Dark Brass 2
324	Mute Brass Ensemble	Mute BrassEns
325	Sforzato Brass	Sforzato Brass
326	Brass & Strings	Brass&Strings 1
327	Analog Synth Brass 1	Analog SynBrass 1
328	Analog Synth Brass 2	Analog SynBrass 2
329	Jump Brass	Jump Brass
330	Octave Synth Brass	Octave SynBrass
331	Synth Brass & Strings 1	Brass&Strings 2
332	Synth Brass & Strings 2	Brass&Strings 3
333	Echo Brass	Echo Brass
334	Soprano Sax	Soprano Sax
335	Alto Sax	Alto Sax
336	Tenor Sax	Tenor Sax
337	Baritone Sax	Baritone Sax
338	Soprano Sax 2	Soprano Sax 2
339	Soprano Sax Soft	Soprano Sax Soft
340	Slow Soprano Sax	Slow Soprano Sax

341	Sweet Soprano Sax	Sweet Soprano Sax
342	Alto Sax 2	Alto Sax 2
343	Soft Alto Sax	Soft Alto Sax
344	Super Alto Sax	Super Alto Sax
345	Sax Band	Sax Band
346	Tenor Sax 2	Tenor Sax 2
347	Baritone Sax 2	Baritone Sax 2
348	Soft Baritone Sax	Soft Baritone Sax
Flute & Woodwind		
349	Oboe	Oboe
350	English Horn	English Horn
351	Bassoon	Bassoon
352	Clarinet	Clarinet
353	Piccolo	Piccolo
354	Flute	Flute
355	Recorder	Recorder
356	Pan Flute	Pan Flute
357	Blown Bottle	Blown Bottle
358	Shakuhachi	Shakuhachi
359	Whistle	Whistle
360	Ocarina	Ocarina
361	Oboe 2	Oboe 2
362	Sweet Oboe	Sweet Oboe
363	English Horn 2	English Horn 2
364	Analog Horns	Analog Horns
365	Woodwinds	Woodwinds
366	Bassoon 2	Bassoon 2
367	Clarinet 2	Clarinet 2
368	Piccolo 2	Piccolo 2
369	Flute 2	Flute 2
370	Sweet Flute	Sweet Flute
371	Recorder 2	Recorder 2
372	Sweet Pan Flute	Sweet Pan Flute
373	Pan Flute 2	Pan Flute 2
374	Dark Pan Flute	Dark Pan Flute
375	Blown Bottle 2	Blown Bottle 2
376	Shakuhachi 2	Shakuhachi 2
377	Whistle 2	Whistle 2
378	Ocarina 2	Ocarina 2
Lead & Pad		
379	Lead 1 (square)	Square Lead
380	Lead 1a (square 2)	Square Lead 2
381	Lead 1b (sine)	Sine Lead
382	Lead 2 (sawtooth)	Sawtooth
383	Lead 2a (sawtooth 2)	Sawtooth 2
384	Lead 2b (saw + pulse)	Sawtooth&Pulse
385	Lead 2c (double sawtooth)	Double Sawtooth
386	Lead 2d (sequenced analog)	Sequenced analog
387	Lead 3 (calliope)	Calliope
388	Lead 4 (chiff)	Chiffer Lead
389	Lead 5 (charang)	Charang Lead
390	Lead 5a (wire lead)	Wire Lead
391	Lead 6 (voice)	Voice Lead
392	Lead 7 (fifths)	Fifths Lead
393	Lead 8 (bass + lead)	Bass&Lead
394	Lead 8a (soft wrl)	Soft wrl
395	Pad 1 (new age)	New age Pad
396	Pad 2 (warm)	Warm Pad
397	Pad 2a (sine pad)	Sine pad
398	Pad 3 (polysynth)	Poly Synth
399	Pad 4 (choir)	Choir Pad
400	Pad 4a (itopia)	Itopia Pad
401	Pad 5 (bowed)	Bowed Pad
402	Pad 6 (metallic)	Metallic Pad
403	Pad 7 (halo)	Halo Pad
404	Pad 8 (sweep)	Sweep Pad
405	Square	Square
406	Slow Square Lead	Slow Square Lead
407	Sine Solo	Sine Solo
408	Square Lead	Square Lead 3
409	Thick Square	Thick Square
410	Corrie	Corrie
411	Quint	Quint
412	2Oscillators Lead	2Oscillators Lead
413	Wavy Sawtooth	Wavy Sawtooth
414	Super Analog	Super Analog
415	Big Lead	Big Lead
416	Bauble Lead	Bauble Lead
417	PWM 4th	PWM 4th
418	PWM 4th Soft	PWM 4th Soft
419	Synth Calliope Soft	SynCalliope Soft
420	Chiffer Lead 2	Chiffer Lead 2
421	Chiffer Lead 3	Chiffer Lead 3
422	Charang 2	Charang 2
423	Wire Lead 2	Wire Lead 2
424	Charang 3	Charang 3
425	Soft Vox	Soft Vox
426	5th SawWave 2	5th SawWave
427	Fifth Lead Soft	Fifth Lead Soft
428	Fifth Lead	Fifth Lead 2
429	Massiness	Massiness
430	Delayed Lead 2	Delayed Lead 2
431	Delayed Lead 3	Delayed Lead 3
432	New Age Pad 2	New Age Pad 2
433	New Age Pad 3	New Age Pad 3
434	Slow Square	Slow Square
435	New Year Pad	New Year Pad
436	Warm Pad 2	Warm Pad 2
437	PWM Pad	PWM Pad
438	Warmly Pad	Warmly Pad
439	Horn Pad	Horn Pad
440	Poly Synth 2	Poly Synth 2
441	Click Pad	Click Pad
442	Analog Pad	Analog Pad
443	Poly Pad	Poly Pad
444	Poly Synth 3	Poly Synth 3
445	Space Voice	Space Voice
446	Bowed Pad 2	Bowed Pad 2
447	Bowed Pad 3	Bowed Pad 3
448	Metallic Pad 2	Metallic Pad 2
449	Pan Pad 1	Pan Pad 1
450	Pan Pad 2	Pan Pad 2
451	Halo Pad 2	Halo Pad 2
452	Halo Pad 3	Halo Pad 3
453	Sweep Pad 2	Sweep Pad 2
454	Dipolar Pad	Dipolar Pad

455	Rising	Rising
456	Congregate	Congregate
FX & Effects		
457	FX 1 (rain)	FX 1 Rain
458	FX 2 (soundtrack)	FX 2 SoundTrack
459	Prelude	Prelude
460	FX 3 (crystal)	FX 3 Crystal
461	FX 3a (synth mallet)	Synth Mallet
462	Crystal 2	Crystal 2
463	FX 4 (atmosphere)	FX 4 Atmosphere
464	Warm Air	Warm Air
465	FX 5 (brightness)	FX 5 Brightness
466	Smog	Smog
467	FX 6 (goblins)	FX 6 Goblins
468	Goblin 2	Goblin 2
469	Choir Bell 1	Choir Bell 1
470	Choir Bell 2	Choir Bell 2
471	FX 7 (echoes)	FX 7 Echoes
472	FX 7a (echo bell)	Echo bell
473	FX 7b (echo pan)	Echo pan
474	Echo Drops 2	Echo Drops 2
475	Echo Bell 2	Echo Bell 2
476	FX 8 (sci-fi)	FX 8 Sci-Fi
477	Sci-Fi 2	Sci-Fi 2
478	Guitar Fret Noise	Guitar Fret Noise
479	Guitar Cutting Noise	Gtr Cutting Noise
480	Acoustic Bass String Slap	AcBass String Slap
481	Guitar Fret Noise 2	Gtr Fret Noise 2
482	Guitar Cutting Noise 2	Cutting Noise 2
483	Acoustic Bass String Slap 2	Bass String Slap 2
484	Breath Noise	Breath Noise
485	Flute Key Click	Flute Key Click
486	Breath Noise 2	Breath Noise 2
487	Flute Key Click 2	Flute Key Click 2
488	Seashore	Seashore
489	Rain	Rain
490	Thunder	Thunder
491	Wind	Wind
492	Stream	Stream
493	Bubble	Bubble
494	Seashore 2	Seashore 2
495	Bird Tweet	Bird Tweet
496	Dog	Dog
497	Horse Gallop	Horse Gallop
498	Bird Tweet 2	Bird Tweet 2
499	Sheep	Sheep
500	Telephone Ring	Telephone Ring
501	Telephone Ring 2	Telephone Ring 2
502	Door Creaking	Door Creaking
503	Door	Door
504	Scratch	Scratch
505	Wind Chime	Wind Chime
506	Helicopter	Helicopter
507	Car Engine	Car Engine
508	Car Stop	Car Stop
509	Car Pass	Car Pass
510	Car Crash	Car Crash
511	Siren	Siren

512	Train	Train
513	Jetplane	Jetplane
514	Starship	Starship
515	Burst Noise	Burst Noise
516	Applause	Applause
517	Laughing	Laughing
518	Screaming	Screaming
519	Punch	Punch
520	Heart Beat	Heart Beat
521	Footsteps	Footsteps
522	Gunshot	Gunshot
523	Machine Gun	Machine Gun
524	Lasergun	Lasergun
525	Explosion	Explosion
Ethnic & Combined		
526	Sitar	Sitar
527	Sitar 2 (bend)	Sitar 2/Bend
528	Sitar & Strings 1	Sitar&Strings 1
529	Sitar & Strings 2	Sitar&Strings 2
530	Banjo	Banjo
531	Banjo 2	Banjo 2
532	Shamisen	Shamisen
533	Shamisen 2	Shamisen 2
534	Koto	Koto
535	Taisho Koto	Taisho Koto
536	Koto 2	Koto 2
537	Taisho Koto 2	Taisho Koto 2
538	Kalimba	Kalimba
539	Kalimba 2	Kalimba 2
540	Bag Pipe	Bag Pipe
541	Bag pipe 2	Bag pipe 2
542	Fiddle	Fiddle
543	Fiddle 2	Fiddle 2
544	Shanai	Shanai
545	Shanai 2	Shanai 2
546	Stereo Piano & Strings	Piano&Strings
547	Stereo Piano & Calliope	Piano&Callio
548	Stereo Piano & Sweep	Piano&Sweep
549	Honky Tonk Piano & Fifths	Honk&Fifths
550	Honky Tonk Piano & Sweep	Honk&Sweep
551	FM Electric Piano	FM E.Piano
552	Digital Piano	Digital Piano
553	E.Piano & Pad	E.Piano&Pad
554	E.Piano & Sweep	E.Piano&Sweep
555	E.Piano 2 & Pad	E.Piano 2&Pad
556	E.Piano 2 & Sweep	E.Piano 2&Sweep
557	E.Piano 2 & Warm	E.Piano 2&Warm
558	Harpsichord & Stereo Strings	Harpsichord&StStr
559	Music Box & Stereo Strings	MusicBox&StStr
560	Vibraphone & Stereo Strings	Vibra&StStr
561	Vibraphone Octave	Vibraphone Octave
562	Vibraphone & Marimba & Kalimba	Vibra&&Mar&Kal
563	Marimba & Kalimba	Marimba&Kalimba
564	Marimba Delay	Marimba Delay
565	Xylophone Octave	Xylophone Octave
566	Organ & Stereo Strings	Organ&StStrings
567	Stereo Organ & Piano	StereoOrg&Piano
568	Rock Organ & Strings	RockOrg&Strings

569	Church Organ & Choir	ChurchOrg&Choir
570	Church Organ & Strings	ChurchOrg&Str
571	Harmonica & Acoustic Guitar	Harmonica&AcGtr
572	Harmonica & Strings	Harmonica&Str
573	Acoustic Guitar & Flute	AcGtr&Flute
574	Acoustic Guitar & Clavi	AcGtr&Clavi
575	24-Strings Guitar	24-Strings Guitar
576	24-Strings Guitar & Strings	24-StrGtr&Str
577	Steel Guitar & Warm Pad	SteelGtr&WarmPd
578	Stereo Strings & Horn	Strings&Horn
579	Orchestra 2	Orchestra 2
580	Full Strings 1	Full Strings 1
581	Full Strings 2	Full Strings 2
582	Symphonic	Symphonic
583	Stereo Choir & Strings	Choir&Str
584	Stereo Choir & Steel Guitar	Choir&SteelGtr
585	3Trumpets Loose	3Trumpets Loose
586	Trombone & Stereo Strings	Trombone&Str
587	3Trombones Loose	3Trombones Loose
588	3Muted Trumpets Loose	3MuteTrump Loose
589	Club Brass	Club Brass
590	Brass & Woodwinds	Brass&Wood
591	Woodwinds & Strings	Wood&Strings
592	Section Woods Small	Woods Small
593	Pan Flute & Strings Pad	PanFlute&StrPad
594	Koto & Shamisen	Koto&Shamisen
595	Koto & Shamisen & Strings	Koto&Sham&Str
Percussive & Drum		
596	Celesta	Celesta
597	Celesta 2	Celesta 2
598	Birght Celesta	Birght Celesta
599	Celesta & Sine	Celesta&Sine
600	Reecho Bell	Reecho Bell
601	Celesta & Music Box	Celes&MusicBox
602	Glockenspiel I	Glockenspiel I
603	Glockenspiel 2	Glockenspiel 2
604	Glockenspiel & Sine	Glockenspiel&Sine
605	Glockenspiel & Celesta	Glocken&Celes
606	Music Box	Music Box
607	Music Box 2	Music Box 2
608	Music Box 3	Music Box 3
609	Toy Box	Toy Box
610	Music Box & Harp	Music Box&Harp
611	Vibraphone	Vibraphone
612	Vibraphone (wide)	Vibraphone/Wide
613	Stereo Vibraphone	Stereo Vibraphone
614	Rigid Vibraphone	Rigid Vibraphone
615	Vibraphone 2	Vibraphone 2
616	Vibraphone 2 (wide)	Vibraphone/Wide 2
617	Vibraphone & Bell	Vibraphone&Bell
618	Vibraphone & Harpsichord	Vibra&Harpsic
619	Vibraphone & Strings 1	Vibra&Strings 1
620	Vibraphone & Strings 2	Vibra&Strings 2
621	Marimba	Marimba
622	Marimba (wide)	Marimba/Wide
623	Marimba 2	Marimba 2
624	SinMarimba	SinMarimba
625	Stereo Marimba	Stereo Marimba
626	Marimba & Vibraphone	Marimba&Vibra
627	Wood Drum	Wood Drum
628	Xylophone	Xylophone
629	Xylophone 2	Xylophone 2
630	Tubular Bells	Tubular Bells
631	Church Bell	Church Bell
632	Carillon	Carillon
633	Dulcimer	Dulcimer
634	Santur	Santur
635	Shorty	Shorty
636	Tinkle Bell	Tinkle Bell
637	Tinkle Bell 2	Tinkle Bell 2
638	Agogo	Agogo
639	Agogo 2	Agogo 2
640	Steel Drums	Steel Drums
641	Steel Drums 2	Steel Drums 2
642	Woodblock	Woodblock
643	Castanets	Castanets
644	Woodblock 2	Woodblock 2
645	Castanets 2	Castanets 2
646	Taiko Drum	Taiko Drum
647	Taiko Drum 2	Taiko Drum 2
648	ConcertBass Drum	ConBass Drum
649	ConcertBass Drum 2	ConBass Drum 2
650	Melodic Tom	Melodic Tom
651	Melodic Tom 2 (power)	Power Melodic Tom
652	Synth Drum	Synth Drum
653	Rhythm Box Tom	Rhythm Box Tom
654	Electric Drum	Electric Drum
655	Electric Drum 2	Electric Drum 2
656	Reverse Cymbal	Reverse Cymbal
657	Reverse Cymbal 2	Reverse Cymbal 2
658	Standard Set	Standard Set
659	Room Set	Room Set
660	Power Set	Power Set
661	Electronic Set	Electronic Set
662	Analog Set	Analog Set
663	Jazz Set	Jazz Set
664	Brush Set	Brush Set
665	Orchestra Set	Orchestra Set
666	SFX Set	SFX Set
667	Dance Set	Dance Set
668	Funk Set	Funk Set
669	Rock Set	Rock Set
670	Latin Set	Latin Set
671	Pop Set	Pop Set
672	Punk Set	Punk Set

Style List

No.	Full Name	LCD Name
8Beat & 16Beat		
1	8Beat Ballad	8Beat Ballad
2	8Beat Piano	8Beat Piano
3	8Beat 1	8Beat 1
4	Guitar Pop 1	Guitar Pop 1
5	8Beat Hip Hop	8Beat Hip Hop
6	8Beat Blues Rock	8Beat Blues Rock
7	8Beat Pop	8Beat Pop
8	Pop Funk 1	Pop Funk 1
9	Rhythm&Beat 1	Rhythm&Beat 1
10	8Beat Disco 1	8Beat Disco 1
11	8Beat Rock	8Beat Rock
12	Guitar Pop 2	Guitar Pop 2
13	8Beat 2	8Beat 2
14	Sweet Beat	Sweet Beat
15	8Beat Dance	8Beat Dance
16	8Beat Disco 2	8Beat Disco 2
17	Pop Funk 2	Pop Funk 2
18	8Beat 3	8Beat 3
19	60's 8Beat	60's 8Beat
20	Rhythm&Beat 2	Rhythm&Beat 2
21	16Beat 1	16Beat 1
22	16Beat Funk 1	16Beat Funk 1
23	16Beat Ballad 1	16Beat Ballad 1
24	16Beat R&B	16Beat R&B
25	Pop 16Beat 1	Pop 16Beat 1
26	16Beat Funk 2	16Beat Funk 2
27	16Beat Dance	16Beat Dance
28	Pop 16Beat 2	Pop 16Beat 2
29	16Beat 2	16Beat 2
30	Pop 16Beat 3	Pop 16Beat 3
31	Pop 16Beat 4	Pop 16Beat 4
32	Modern 16Beat	Modern 16Beat
33	16Beat Hot	16Beat Hot
34	16Beat Modern	16Beat Modern
35	16Beat Funk 3	16Beat Funk 3
36	16Beat 3	16Beat 3
37	Cool Beat	Cool Beat
38	16Beat Ballad 2	16Beat Ballad 2
39	16Beat 4	16Beat 4
40	Pop Shuffle	Pop Shuffle
Pop & Ballad		
41	Pop Rock 1	Pop Rock 1
42	Pop Dance 1	Pop Dance 1
43	Pop Fusion	Pop Fusion
44	Analog Night 1	Analog Night 1
45	6/8 Pop	6/8 Pop
46	Brit. Pop 1	Brit. Pop 1
47	Brit. Pop 2	Brit. Pop 2
48	Pop Hit	Pop Hit
49	Fusion Shuffle	Fusion Shuffle
50	Analog Night 2	Analog Night 2
51	Guitar Pop 3	Guitar Pop 3
52	Pop Beat	Pop Beat
53	Soft Beat	Soft Beat
54	60's Pop	60's Pop
55	Sting Latin	Sting Latin
56	R&B Ballad 1	R&B Ballad 1
57	Guitar Ballad	Guitar Ballad
58	Ballad Rock	Ballad Rock
59	Piano Pop 1	Piano Pop 1
60	Soft Ballad	Soft Ballad
61	Natural Ballad	Natural Ballad
62	Love Ballad	Love Ballad
63	Easy Ballad	Easy Ballad
64	Miami Folk	Miami Folk
65	Slow Ballad	Slow Ballad
66	Folk Ballad	Folk Ballad
67	Pop Ballad 1	Pop Ballad 1
68	Pop Ballad 2	Pop Ballad 2
69	EP Ballad	EP Ballad
70	New R&B Ballad	New R&B Ballad
Rock		
71	Rock	Rock
72	New Wave	New Wave
73	Ska	Ska
74	Pop Rock 2	Pop Rock 2
75	Slow Rock	Slow Rock
76	70's Rock&Roll	70's Rock&Roll
77	Folk Rock	Folk Rock
78	Soft Rock	Soft Rock
79	Old Rock	Old Rock
80	Easy Rock	Easy Rock
81	New Shuffle	New Shuffle
82	Rock Hip Hop	Rock Hip Hop
83	Rock&Roll 1	Rock&Roll 1
84	Rock Shuffle	Rock Shuffle
85	Rock&Roll 2	Rock&Roll 2
Ballroom		
86	Tango 1	Tango 1
87	Spain Matador	Spain Matador
88	Twist 1	Twist 1
89	Twist 2	Twist 2
90	Big Band Fox	Big Band Fox
91	Tango 2	Tango 2
92	Slow Fox	Slow Fox
93	Slow Waltz 1	Slow Waltz 1
94	Swing Fox	Swing Fox
95	Salsa 1	Salsa 1
96	Cha Cha 1	Cha Cha 1
97	Cha Cha 2	Cha Cha 2
98	Beguine 1	Beguine 1
99	Beguine 2	Beguine 2
100	Rumba 1	Rumba 1
101	Samba 1	Samba 1
102	Samba 2	Samba 2
103	Jive	Jive
104	Fox Trot	Fox Trot
Dance		
105	Techno 1	Techno 1
106	Hip Hop 1	Hip Hop 1
107	House 1	House 1
108	House 2	House 2
109	Pop Dance 2	Pop Dance 2
110	Down Beat	Down Beat
111	Techno 2	Techno 2
112	Progressive	Progressive
113	Rap 1	Rap 1
114	Rap 2	Rap 2
115	Disco	Disco
116	Soft Disco	Soft Disco
117	Disco Party	Disco Party
118	70's Disco	70's Disco
119	70's Disco Funk	70's Disco Funk
120	Club Dance	Club Dance
121	Euro Dance	Euro Dance
122	Hip Hop 2	Hip Hop 2
123	Garage	Garage
Soul & Funk		
124	Funk 1	Funk 1
125	Classic Funk	Classic Funk
126	Jay R&B	Jay R&B
127	Gospel Swing	Gospel Swing
128	Gospel	Gospel
129	Funk 2	Funk 2
130	Electric Funk	Electric Funk
131	Groove Funk	Groove Funk
132	Rubber Funk	Rubber Funk
133	Cool Funky	Cool Funky
134	Jazz Funk	Jazz Funk
135	Groove	Groove
136	Soul	Soul
137	Hip Hop Soul	Hip Hop Soul
138	Hip Hop Beat	Hip Hop Beat
139	R&B	R&B
140	Soul Beat	Soul Beat
141	R&B Ballad 2	R&B Ballad 2
142	British Soul Pop	British Soul Pop
Swing & Jazz		
143	Latin Jazz 1	Latin Jazz 1
144	Big Band	Big Band
145	Dixieland 1	Dixieland 1
146	Guitar Swing 1	Guitar Swing 1
147	Broadway Big Band	Broadway B.Band
148	Swing	Swing
149	Latin Jazz 2	Latin Jazz 2
150	Fusion	Fusion
151	Acid Jazz	Acid Jazz
152	Cool Jazz Ballad	Cool Jazz Ballad
153	Swing Shuffle	Swing Shuffle
154	Big Band Medium	Big Band Medium
155	Dixieland 2	Dixieland 2
156	Acoustic Jazz	Acoustic Jazz
157	Guitar Swing 2	Guitar Swing 2
158	Ragtime	Ragtime
159	Modern Jazz Ballad	Modern Jazz Ballad
160	Swing Ballad	Swing Ballad
161	Orchestra Swing	Orchestra Swing
Country		
162	Country Pop 1	Country Pop 1
163	Bluegrass 1	Bluegrass 1
164	8Beat Country	8Beat Country
165	Modern Country	Modern Country

166	Country Pop 2	Country Pop 2
167	Bluegrass 2	Bluegrass 2
168	2/4 Country	2/4 Country
169	Country Quick Steps	Country QuickStp
170	Country Folk	Country Folk
171	Country Shuffle	Country Shuffle
Latin & Latin Dance		
172	Samba 3	Samba 3
173	Bossa Nova	Bossa Nova
174	Latin	Latin
175	New Reggae	New Reggae
176	Reggae Dance	Reggae Dance
177	Paso Doble	Paso Doble
178	Lite Bossa	Lite Bossa
179	Latin Rock	Latin Rock
180	Beguine 3	Beguine 3
181	Slow Bolero	Slow Bolero
182	Disco Samba	Disco Samba
183	Mambo	Mambo
184	Meneito	Meneito
185	Rumba 2	Rumba 2
186	Rumba 3	Rumba 3
187	Tikitikita	Tikitikita
188	Lambada	Lambada
189	Pop Cha Cha 1	Pop Cha Cha 1
190	Pop Cha Cha 2	Pop Cha Cha 2
191	Salsa 2	Salsa 2
Waltz & Traditional		
192	Waltz	Waltz
193	Old Waltz	Old Waltz
194	English Waltz	English Waltz
195	German Waltz	German Waltz
196	Italian Mazurka	Italian Mazurka
197	Mexico Waltz	Mexico Waltz
198	Vienna Waltz	Vienna Waltz
199	Slow Waltz 2	Slow Waltz 2
200	Jazz Waltz	Jazz Waltz
201	Polka	Polka
202	6/8 March	6/8 March
203	German Polka	German Polka
204	Party Polka	Party Polka
205	Army March	Army March
206	March	March
207	US March	US March
208	Musette	Musette
209	French Musette	French Musette
210	Mazurka	Mazurka
World		
211	Enka Ballad	Enka Ballad
212	Laendler	Laendler
213	Hawaiian	Hawaiian
214	Sirtake	Sirtake
215	Dangdut	Dangdut
216	6/8 Flipper	6/8 Flipper
217	New Age	New Age
218	Tarantella	Tarantella
219	Scottish	Scottish
220	Norteno	Norteno
Pianist		
221	Pianist 1	Pianist 1
222	Pianist 2	Pianist 2
223	Pianist 3	Pianist 3
224	Jazz 1	Jazz 1
225	Jazz 2	Jazz 2
226	Jazz Pub	Jazz Pub
227	Piano Rock	Piano Rock
228	Pop Bossa	Pop Bossa
229	March 1	March 1
230	March 2	March 2
231	Piano Beat	Piano Beat
232	Piano Bar	Piano Bar
233	Blues	Blues
234	Pop Waltz	Pop Waltz
235	Slow Waltz	Slow Waltz
236	Ballad 1	Ballad 1
237	Ballad 2	Ballad 2
238	6/8 Ballad	6/8 Ballad
239	Pop 1	Pop 1
240	Pop 2	Pop 2

Song List

No.	Full Name	LCD Name
Folk & Country		
1	Red River Valley	Red River Valley
2	Troika	Troika
3	Oh! Susanna!	Oh! Susanna!
4	Wave Of The Danube	Wave of Danube
5	Long Long Ago	Long Long Ago
6	Old Folks at Home	Old Folks at Home
7	Jambalaya	Jambalaya
8	Ding! Dong! Merrily On High	Ding! Dong!
9	Battle Hymn Of The Republic	Battle Hymn
10	The Old Gray Mare	The Old Gray Mare
11	American Patrol	American Patrol
12	Christmas Is Coming	Christmas Coming
13	Sippin' Cider Through A Straw	Sipping Cider
14	Christmas Sound	Christmas Sound
15	On London Bridge	On London Bridge
Golden & POP		
16	House Of The Rising Sun	House of Rising
17	The Blue Bells Of Scotland	The Blue Bells
18	Beautiful Dreamer	Beautiful Dreamer
19	It's Been A Long, Long Time	Been a Long Time
20	O Sole Mio	O Sole Mio
21	Der Deitcher's Dog	Der Deitcher's Dog
22	Joy To The World	Joy to the World
23	Silent Night	Silent Night
24	Ave Maria	Ave Maria
25	Five Hundred Miles	Five Hundred Mil
26	Happy New Year	Happy New Year
27	It's Beginning To Look A Lot Like Christmas	Like Christmas
28	Jeanie With The Light Brown Hair	Jeanie
29	Music Box Dancer	Music Box Dancer
30	Go Tell It On The Mountain	Tell It on Mountain
31	Entertainer	Entertainer
32	Annie Laurie	Annie Laurie
33	Rumba Romance	Rumba Romance
34	The Last Rose Of Summer	Rose of Summer
35	The Old King Cole	The Old King Cole
Jazz & Fusion		
36	Samba In June	Samba In June
37	Funk	Funk
38	I Can…	I Can…
39	Sea Shore	Sea Shore
40	Guitar&Saxphone	Guitar&Saxphone
41	The Hip Hop's Night	HipHop's Night
42	Blue Lunch	Blue Lunch
43	Cobweb	Cobweb
44	Wine	Wine
45	Jazz Old Man	Jazz Old Man
46	Dark Eyes	Dark Eyes
47	Carlos	Carlos
48	Sad	Sad
49	The Jazz	The Jazz

Piano		
50	Fur Elise	Fur Elise
51	Prelude In C-Sharp Major	Prelude
52	Innocence	Innocence
53	The Happy Farmer	The Happy Farmer
54	L' Arabesque	L' Arabesque
55	Minuet In G Major (BWV Anh. 116)	Minuet in G 1
56	Austria Variation	Austria Variation
57	Schos Doll's Dance No. 7	Doll's Dance No. 7
58	The Rag-Time Dance	Rag-Time Dance
59	2-Part Invention In A Minor	Invention A 2 Voix
60	Minuet In G Major (BWV Anh. 114)	Minuet in G 2
61	Turkish March	Turkish March
62	Schos Doll's Dance No. 2	Doll's Dance No. 2
63	Italian Polka	Italian Polka
64	Musette In D Major	Musette in D
65	Bourree	Bourree
66	Piano Sonata In C Major, K.330. III	Sonata K.330. III
67	To A Wild Rose	To A Wild Rose
68	Away In A Manger	Away In A Manger
69	Gavotte I	Gavotte I
70	Angels We Have Heard On High	Angels We Heard
71	Waltz	Waltz
72	Did You Ever See A Lassie	Did You See Lassie
73	Chopsticks	Chopsticks
74	Four Swans' Dance	Four Swans' Dance
75	Old French Song	Old French Song
76	Inquietude	Inquietude
77	La Pastorale	La Pastorale
78	Santa Claus Is Coming To Town	Santa is Coming
79	Wilder Reiter	Wilder Reiter
80	Rialto Ripples (Rag)	Rialto Ripples
81	Mazurka	Mazurka
82	Tchaikovsky Waltz	Tchaikovsky Waltz
83	Salut d' Amour	Salut d' Amour
84	Gavotte	Gavotte
85	Neapolitan Song	Neapolitan Song
86	Minuet In D Major	Minuet in D
87	Prelude In E Major	Prelude in E
88	Barcarolle	Barcarole
89	Piano Sonata In A Major, K.331. I	Sonata K.331.I
90	Waltz For Piano In G-Sharp Minor	Waltz in G-Sharp

Demo List

No.	Full Name	LCD Name
1	Demo1	Demo1
2	Demo2	Demo2

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

MIDI Implementation List

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

Notes: *1

When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted.

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

○: YES
×: NO