

galileo

Milano 3G
DIGITAL PIANO

OWNER'S MANUAL



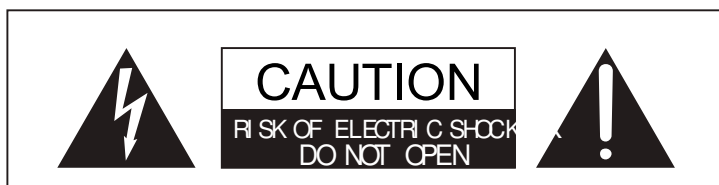
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IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS



WARNING
TO REDUCE THE RISK OF
FIRE OR ELECTRIC
SHOCK, DO NOT EXPOSE
THIS PRODUCT TO RAIN
OR MOISTURE.

AVIS : RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Examples of Picture Symbols



denotes that care should be taken.
The example instructs the user to take care not to allow fingers to be trapped.



denotes a prohibited operation.
The example instructs that disassembly of the product is prohibited.



denotes an operation that should be carried out.
The example instructs the user to remove the power cord plug from the AC outlet.

Read all the instructions before using the product.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 16) Warning - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



WARNING - When using electric products, basic precautions should always be followed, including the following.



WARNING

Indicates a potential hazard that could result in death or serious injury if the product is handled incorrectly.

The product should be connected to an AC outlet of the specified voltage.



- If you are going to use an AC power cord, make sure that it has the correct plug shape and conforms to the specified power voltage.
- Failure to do so may result in fire.

Use only the AC adaptor included with this instrument to power the instrument.



- Do not use other AC adaptors to power this instrument.
- Do not use the included AC adaptor or AC power cord to power other equipment.

Do not insert or disconnect the power cord plug with wet hands.



Doing so may cause electric shock.

The chair must be used properly (it must be used only when playing the product).

- Do not play with it or stand on it.
- Only one person is allowed to sit on it.
- Do not sit on it when opening the lid.
- Re-tighten the bolts occasionally.

Doing so may cause the chair to fall over or your fingers to be trapped, resulting in injury.

When using the headphones, do not listen for long periods of time at high volume levels.



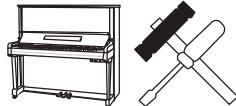
Doing so may result in hearing problems.

Do not lean against the keyboard.



Doing so may cause the product to fall over, resulting in injury.

Do not disassemble, repair or modify the product.



Doing so may result in product breakdown, electric shock or short-circuit.

When disconnecting the AC power cord's plug, always hold the plug and pull it to remove it.



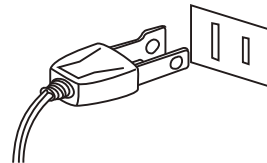
- Pulling the AC power cord itself may damage the cord, causing a fire, electric shock or short-circuit.

The product is not completely disconnected from the power supply even when the power switch is turned off. If the product will not be used for a long time, unplug the AC power cord from the AC outlet.



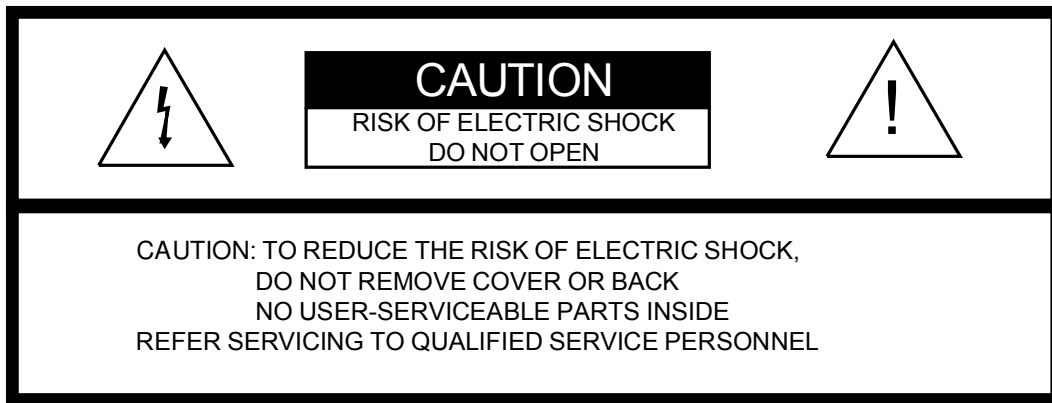
- Failure to do so may cause fire in case of lightning.
- Failure to do so may over-heat the product, resulting in fire.

This product may be equipped with a polarised line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.



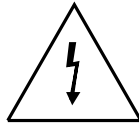
It is a good practice to place the instrument near the AC outlet and to place the power cord plug in a position that allows the plug to be disconnected easily in the event of an emergency. Electricity is always charging while the plug is in the AC outlet even when the power switch is in the 'OFF' position.

General Precautions



INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated or “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance or servicing instructions in the manual accompanying the product.



1. CAUTION: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

2. NOTE: 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.”

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS :

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Welcome

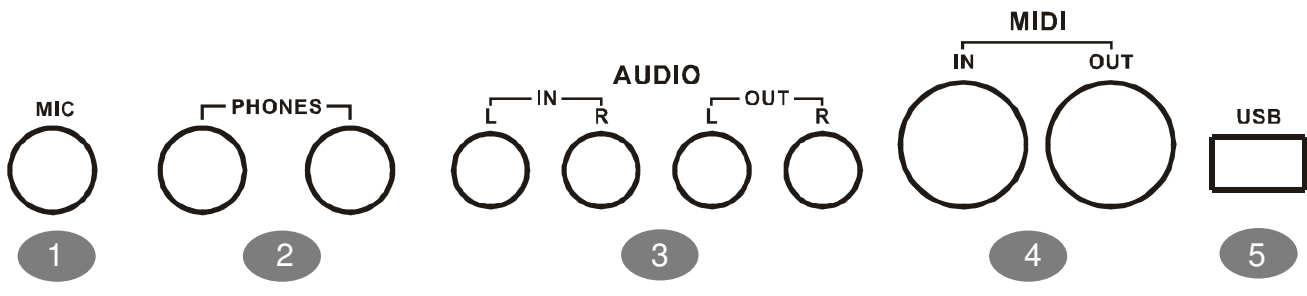
We would like to express our appreciation and congratulate you for purchasing this mini grand digital piano. This piano has been designed to provide you with years of musical enjoyment. State of the art electronics are combined with an elegant cabinet that will add beauty and sophistication to any home environment. Listed Below are just a few of the features that your new piano is equipped with:

- Elegant Hand Rubbed Lacquer Grand Piano Fits Any Sized Room – It's Less Than 3' Deep!
- Feature Packed Entertainment Center is Fun For the Whole Family – It's More Than Just a Piano!
- Play Hundreds of Optional Music Files. Jazz, Pop, Classical, Rock, Country & More!
- Compose and Store Your Own Songs with Built-in 3 Track Recorder
- Choose From 138 Instrument Voices Including Stereo Grand Piano and 100 Accompaniment Styles
- Advanced Graded Hammer Action Keyboard Has Authentic Acoustic Piano Touch and Feel –Teacher Recommended!
- Built-In Music Teacher with Verbal and Screen Grading
- Concert Hall Sound System Has 120 Watts of Power and 6 High Performance Speakers
- SD Memory Card Plays Pre-recorded Music – You Can Even Record Practice Sessions
- Interface Your Computer with On- Board MIDI and USB ports
- Never Needs Tuning
- Practice in Private with Headphones (optional)

You will find many more features and functions listed within this owner's manual. In order to fully appreciate all the impressive features of this digital piano, please take a few minutes to read the following pages of instruction. We will cover general precautions, assembly, the function of each control button, and warranty information.

Connector Panel

This connector panel, with its various jacks, is located on the bottom left of the piano, under the keybed.



MIC



1. MIC - The Microphone Input is to connect a microphone to the piano. When a microphone is connected it will amplify the output of the Microphone through the piano's sound system.

PHONES

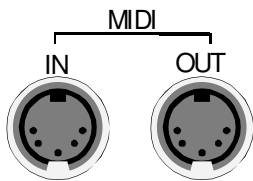


2. PHONE 1 / PHONE 2 - You can play in total silence, without disturbing others in the room, by plugging a set of headphones into one of the appropriate sockets. When headphones are plugged into either of these jacks the main speaker system is turned off. Two sets of headphones may be used simultaneously.



3. AUDIO IN - These stereo audio input jacks will amplify the supplied signal through the internal sound delivery system. They can be used to hook up items such as CD player, MP3 player or Cassette player.

AUDIO OUT - These stereo audio output jacks supplies the piano's output signal to external amplification, such as PA system or other stand alone amplifiers.



4. MIDI IN / MIDI OUT - This piano contains MIDI in and MIDI output ports. MIDI jacks allow communication with other products equipped with MIDI interfaces. Please see the MIDI section of this manual for further details.

USB



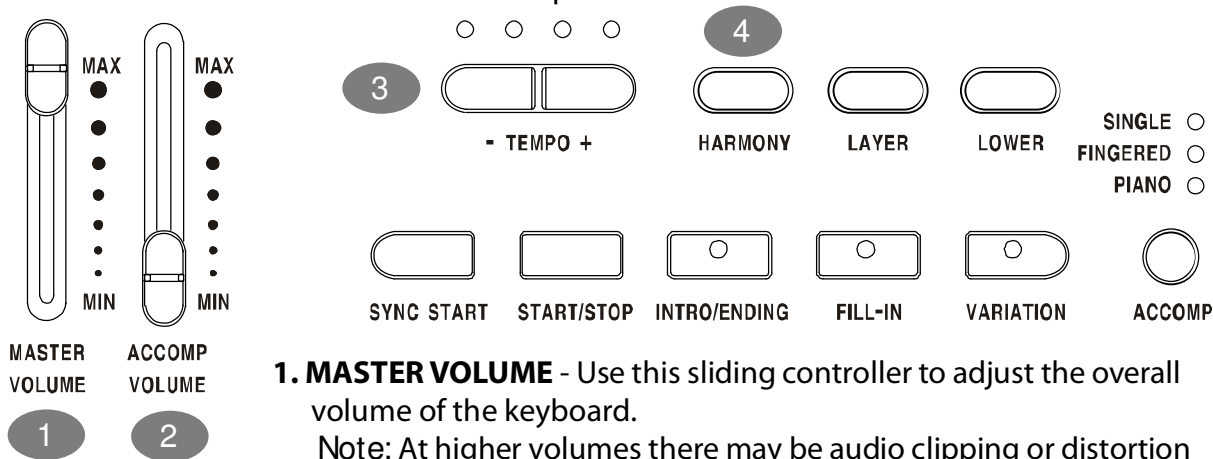
5. USB - The USB connector allows you to connect the piano directly to your computer's USB port. Do not turn on the piano with the USB cable connected to the computer to avoid having to restart your computer. It can be connected without driver installation under the Windows XP, Windows Vista, Windows 7 and MAC OSX environment. The piano will be recognized as USB Audio device to receive and transmit MIDI messages.

Panel Controls

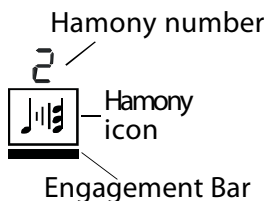


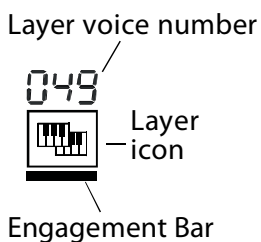
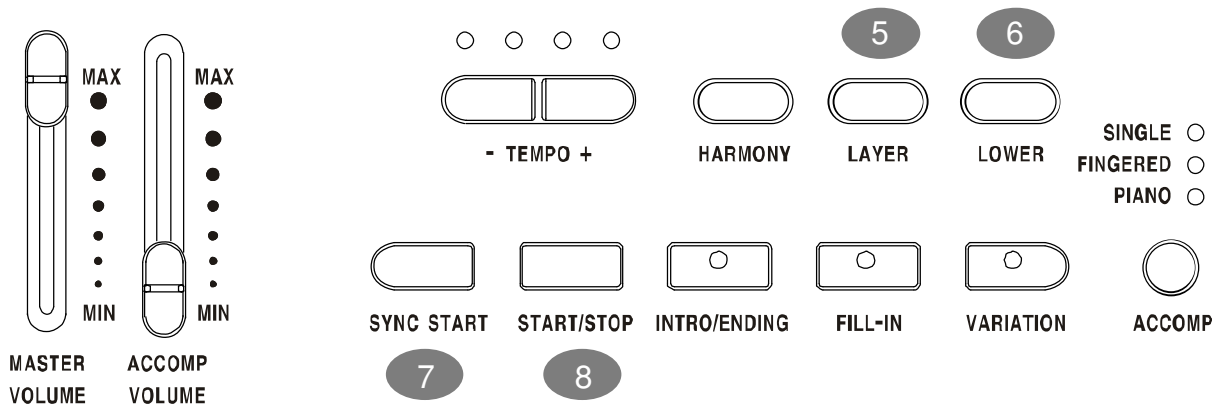
POWER SWITCH - The power switch is located to the left of the keyboard. Press the button to turn the power on and off. There is an indicator light on the left front portion of the piano. This light will be lit when power is on.
Note: When you turn the power off, do not turn it back on immediately. Wait at least five seconds to turn the power back on so that the electronic circuits can properly reset.

The elegant control panel is divided into several distinct sections. The following is a brief description of all the features located on the control panel.



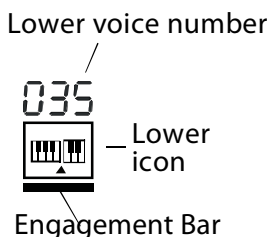
1. **MASTER VOLUME** - Use this sliding controller to adjust the overall volume of the keyboard.
Note: At higher volumes there may be audio clipping or distortion depending on the frequencies being played
2. **ACCOMP VOLUME** - Slide this controller to adjust the volume of the auto accompaniment, metronome and SD Card playing, the keyboard instrument voice will not be affected.
3. **TEMPO** - Press one of the TEMPO buttons, the current tempo value will appear on the display. You can use the TEMPO +, TEMPO – buttons, or the DARA WHEEL to change the tempo range from 40 to 240 bpm (beats per minute). Press the TEMPO + or TEMPO – buttons simultaneously to recall the default tempo setting for the selected rhythm style. After three seconds the display will revert to the selected voice.
 There is a four-dot beat indicator above the tempo buttons. It indicates the tempo and beat for the accompaniment that is playing.
 See the Auto Accompaniment section of this manual for more information.
4. **HARMONY** - When selected, the single note played in the right-hand section of the keyboard will sound with additional auto harmony notes. The note played in the upper section of the piano determines the root key of the harmony. It is recommended that one note be played at a time. When the harmony is engaged, the engagement bar will appear underneath the Harmony icon on the LCD Display and the harmony number will be shown above the icon.
 Auto harmony is only available when the auto accompaniment is engaged. The harmony type selection is assigned in the Setup menu.
 See the Auto Accompaniment section of this manual for more information.





5. LAYER - Pressing the LAYER button will put the keyboard in the layer (dual) mode. Layer, or dual, refers to an additional voice that is tone mixed with the selected keyboard voice. The assigned layer voice will be heard with the original voice. To select a new layered instrument voice use the DATA WHEEL or +, - buttons within 3 seconds after the LAYER button has been pressed.

When this mode is engaged, the engagement bar will appear underneath the Layer voice icon and the Layer voice number above the icon. Please see the Keyboard Voice Section for more information.



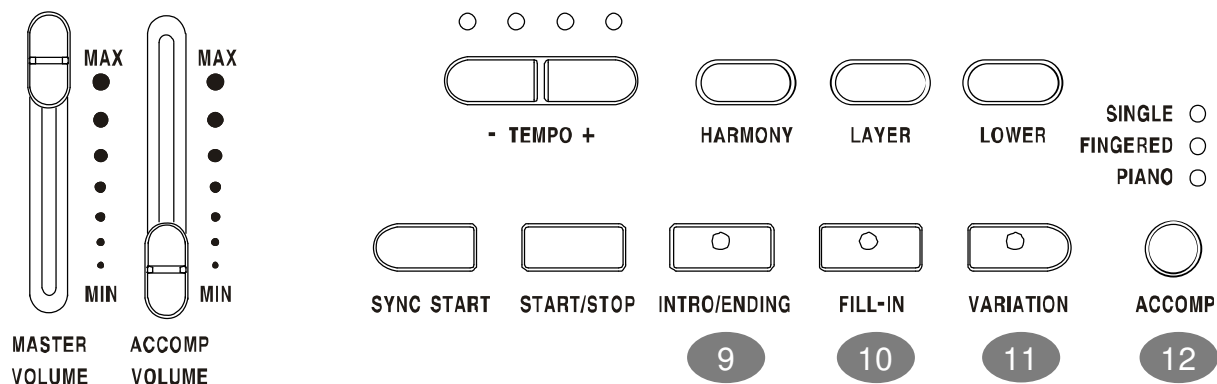
6. LOWER - With the LOWER feature engaged the keyboard operates in split mode. The keyboard is divided into two sections. In the right hand section the original or layered voice will sound, and in the left hand section a different voice can be assigned. To select a new Lower instrument voice use the DATA WHEEL or +, - buttons within 3 seconds after the LOWER button has been pressed.

When this mode is engaged, the engagement bar will appear underneath the Lower voice icon and the Lower voice number will be shown above the icon.

Please see the Keyboard Voice Section for more information.

7. SYNC START - Synchronized Start mode sets the auto accompaniment into standby mode. When the SYNC START button is pressed the indicator lights above the TEMPO button will flash to the Tempo of the selected rhythm style. The Auto Accompaniment will start with the first recognized chord played in the auto accompaniment section of the keyboard. Pressing the SYNC START button again will stop the auto accompaniment and put the keyboard back into standby mode. See the Auto Accompaniment section of this manual for more information.

8. START/STOP - This button starts or stops the selected rhythm style. The Drum Pattern and Rhythm Style will start immediately as soon as you press this button. Press this button again to stop the Auto Accompaniment. See the Auto Accompaniment section of this manual for more information.



9. INTRO/ENDING - All of the 100 rhythm styles can be started or finished with a unique introduction or ending pattern. When selected, an introduction of the style will start followed by the main style pattern.

When engaged, an introduction of rhythm pattern will start followed by the main pattern. With a rhythm or accompaniment pattern already engaged the accompaniment can be professionally completed with an ending pattern from the next measure by pressing the INTRO/ENDING button. If you press the fill-in button during the ending pattern it will return to the main accompaniment pattern.

See the Auto Accompaniment section for more information.

10. FILL IN - The fill-in provides the accompaniment with a short rhythm pattern of one or two measures for each style. Press the FILL IN button at any time while the accompaniment is playing to add a fill-in. If you hold down the FILL IN button, the fill-in pattern will repeat until the button is released, then the main pattern will play from the beginning of the next measure.

See the Auto Accompaniment section for more information.

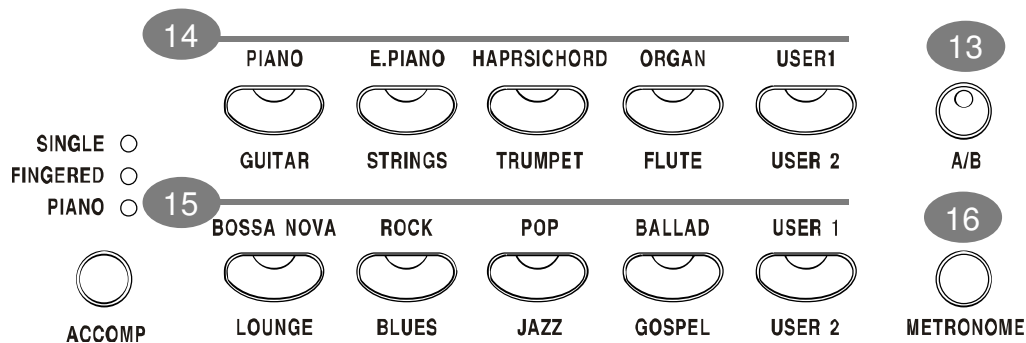
11. VARIATION - All of the 100 rhythm styles include a variation of that style that can be played simply by pressing the VARIATION button. Press the VARIATION button again to disengage and return to the main pattern.

See the Auto Accompaniment section for more information.

12. ACCOMP - Each rhythm style has a fully orchestrated auto accompaniment pattern. These accompaniments are dedicated to the selected rhythm style, and will create rhythm, bass and chord accompaniments. The ACCOMP button selects the auto accompaniment mode. With this function engaged, the keys to the left side of the split point are the auto accompaniment section of the keyboard, while the keys to the right are available for normal playing.

The auto accompaniment fingering modes are single, fingered, piano, and off. Press the ACCOMP button until the indicator LED that corresponds to the fingering mode you desire turns on.

See the Auto Accompaniment section for more information.



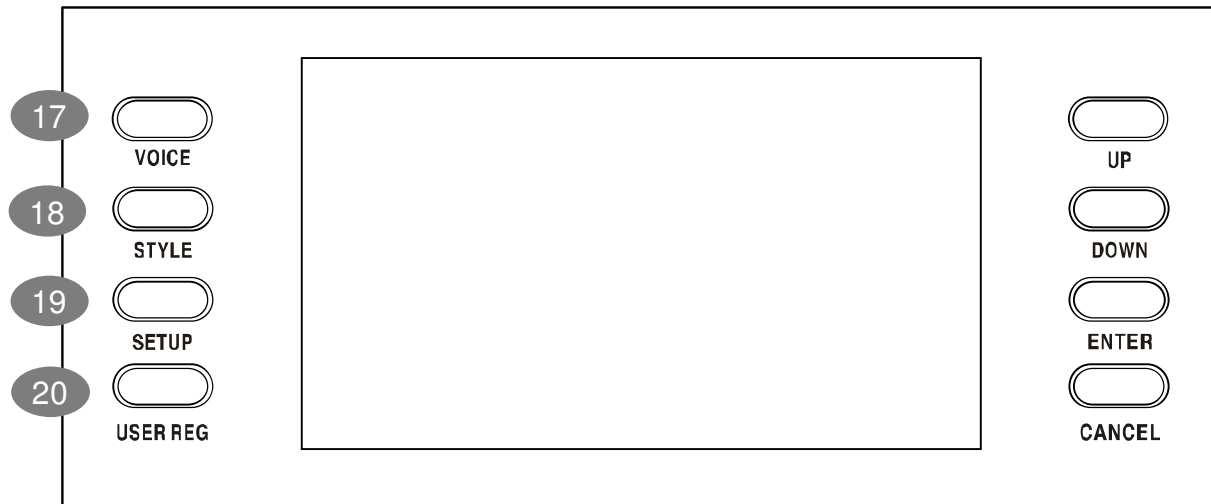
13. A/B BUTTON - The five quick select voice and five quick select style buttons are each assigned to a line A and line B. Press the A/B button to alternate between the two selection lines. The indicator light will be lit when selection line B is active.
Please see the quick select buttons below for more information.

14. QUICK SELECT VOICE BUTTONS - There are ten instrument voices that can be selected quickly by pressing one of the five voice select buttons. These voices are assigned to line A and line B. Each of these selection lines consists of five voices. The voice name in the line A is printed above the voice select button and the voice name on line B is beneath the button. Press the A/B button to select the voice line of your choice. When the indicator light is lit the B line or bottom line is active. The selected voice name and its number will be shown on the display.
Please see the Keyboard Voices section for more information.

15. QUICK SELECT STYLE BUTTONS - There are ten Rhythm Styles that can be selected quickly by pressing one of the five style select buttons. These rhythm styles are assigned to line A and line B. Each of these selection lines consists of five rhythm styles. The style name in line A is printed above the style select button and the rhythm style name on line B is beneath the button. Press the A/B button to select the rhythm style line of your choice. When the indicator light is lit the B line or bottom line is active. The selected rhythm style name and its number will be shown on the display.
Please see the Rhythm Styles section for more information.



16. METRONOME - Toggles the metronome feature on and off and accesses the Metronome menu. When the metronome is engaged, the pendulum rod of the metronome icon on the LCD Display will swing. If the auto accompaniment is playing, the metronome sound will replace the Drum Beat Rhythm Pattern. Time signature and tempo of the metronome can be adjusted.
Please see the Metronome section for more information.



17. VOICE - There are 128 GM (General MIDI) instrument voices, plus ten Asian folk instrument voices available on this piano. You can instantly select an instrument voice by pressing one of the voice select buttons. Or press the VOICE button to engage the voice selection mode then use the DATA WHEEL or +, - button to select, the voice name and its number will be shown on the display. There is a complete list of all 138 voices listed in the back of the manual.

Please see the Keyboard Voice section of this manual for more information.

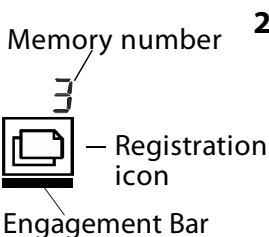
18. STYLE - To engage one of the 100 rhythm styles, and the corresponding auto accompaniment, press one of the rhythm style buttons or press the STYLE button to engage the style selection mode then use the DATA WHEEL or +, - button to select a style, the style name and its number will be shown on the display.

There is a complete list of all 100 rhythm accompaniment styles listed in the back of the manual.

Please see the Rhythm Style section of this manual for more information.

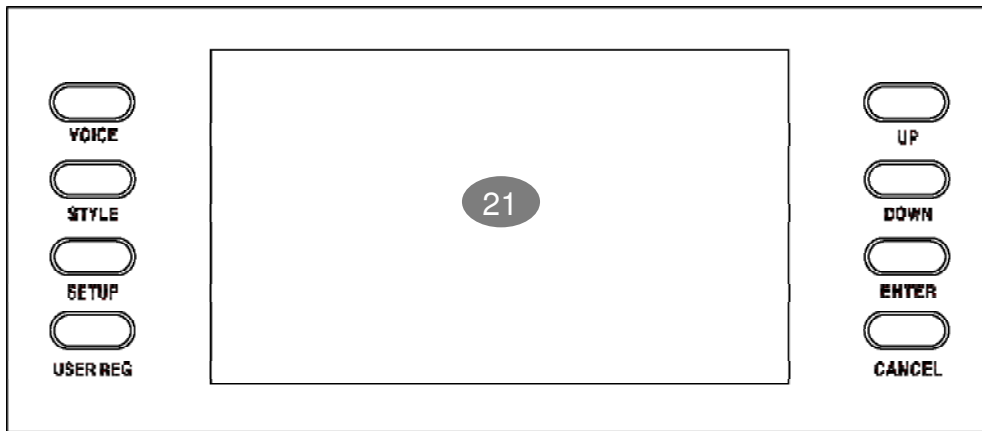
19. SETUP - The SETUP button is used to access the Setup menu. The Setup menu can be used to adjust or change the parameters of a number of settings such as Reverb level, chorus level, split point, reset the factory default setting and so on.

Please see the Setup section of this manual for more information.

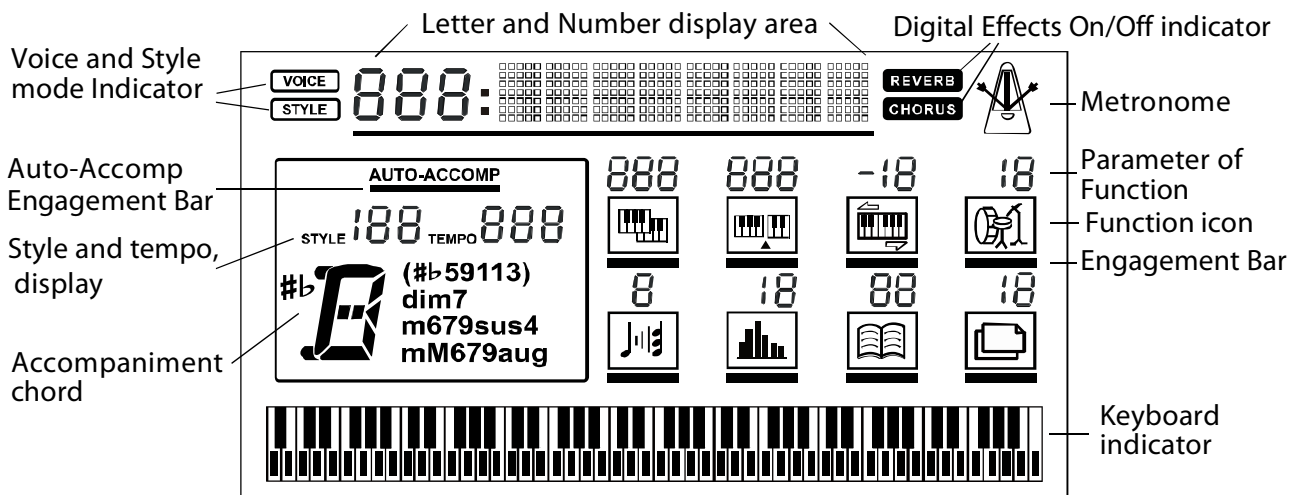


20. USER REG - USER REG is used to store keyboard settings. Press the USER REG button to engage the registration memory mode, the engagement bar will appear underneath the Registration icon and the memory number will be shown above the icon. Use the DATA WHEEL or +, - buttons to select a Registration memory from 0-10, the stored setting will be recalled.

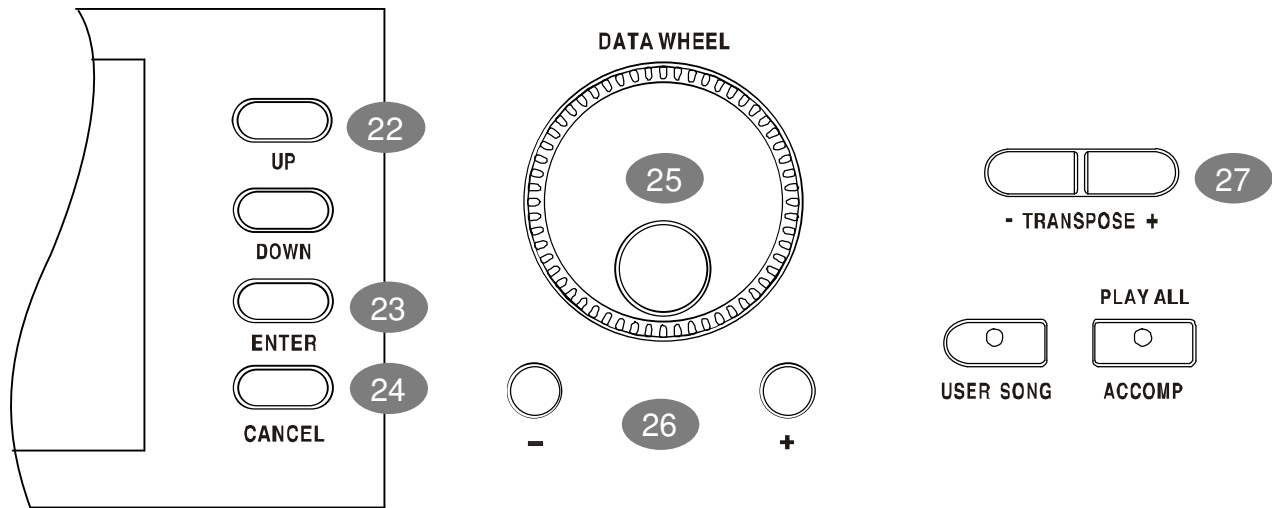
Please see the Registration Memory section of the manual for more information.



21. DISPLAY SCREEN - Please see the description below.



Icon	Description
	Layer voice Keyboard Voice: Layer Voice
	Lower voice Keyboard Voice: Lower Voice
	Transpose Panel Controls: Transpose the keyboard
	Keyboard percussion Setup: Percussion select for the Piano keys
	Auto Harmony Auto Accompaniment: Harmony
	Equalizer Setup: Equalizer for Sound Delivery System
	Play along song Play Alone Song
	Registration memory Registration Memory to store piano settings
	Sound effects Panel Controls: Reverb, Chorus



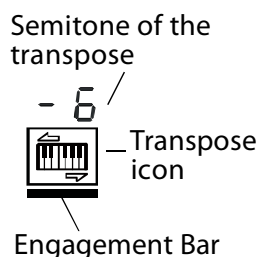
22. UP, DOWN - The UP, DOWN buttons are used to access the different menus in the Setup feature. When the SETUP button has been pressed, use the UP and DOWN buttons to access the setup menu selections. These two buttons are also used for voice and style group selection.

23. ENTER - The ENTER button is used to confirm a selection or for confirming a function.

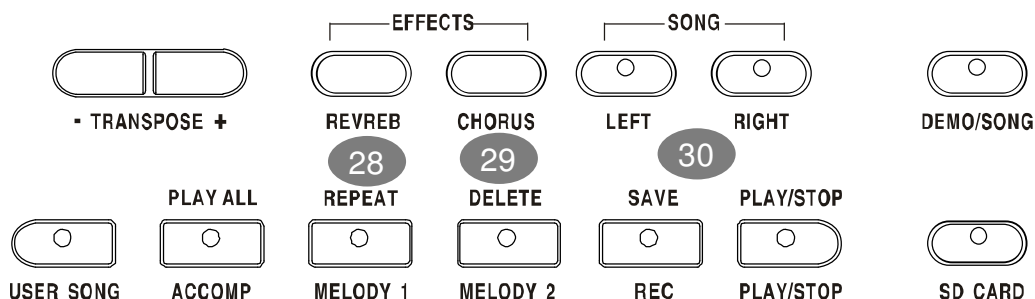
24. CANCEL - The CANCEL button is used to cancel the selection or function.

25. DATA WHEEL - Use the wheel to select data when using the voice, style or function settings. It is also used to access or alter many of the function features or when other numerical input is necessary. Rotate the dial clockwise to increase the data and counter clockwise to decrease.

26. +, - - These buttons are used to increase or decrease the data number by one. In the Setup mode, they are used to toggle and switch control for some items.



27. TRANSPOSE - The transpose feature can shift the pitch of the keyboard up or down in semitone intervals up to a maximum of 24 semitones. Press one of the TRANSPOSE buttons and the current transpose value will appear on the display. Use the TRANSPOSE + or – buttons to set the transpose value range from – 12, one octave lower, to 12, one octave higher. Press the TRANSPOSE+ and – buttons simultaneously to recall the default value of 0. After three seconds the display will return to the currently selected instrument voice. Transpose does not affect notes that are currently playing. Transpose does not affect the percussion. When transpose is not set to zero, the engagement bar will appear underneath the Transpose icon and its value will be displayed above the icon.

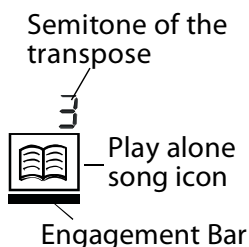


REVERB

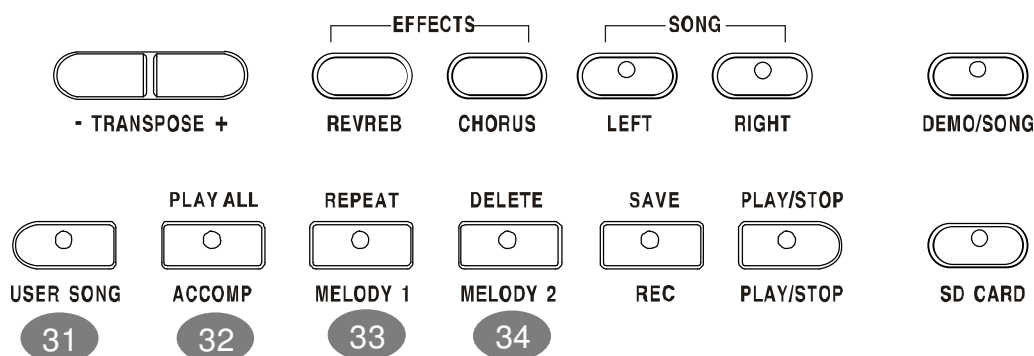
28. REVERB - The reverb effect is engaged automatically when the power is turned on. Reverb simulates the effect of playing in a big room or hall where the sound reverberates off the walls and ceiling. You can switch the reverb feature on and off by pressing the REVERB button. When reverb is On, the REVERB indicator at the upper right corner of the display will appear. Reverb type and depth can be changed in the setup menu “Reverb Type Selecting” and “Reverb Level Setting”. Please see the Setup Section for more information.

CHORUS

29. CHORUS - The Chorus effect adds depth and spaciousness to the selected keyboard voice. Press the CHORUS button to engage the chorus effect. Press the button again to turn off the chorus effect. When chorus is On, the CHORUS indicator at the upper right corner of the display will appear. Chorus type and depth can be changed in the setup menu “Chorus Type Selecting” and “Chorus Level Setting”. Please see the Setup Section for more information.



30. SONG LEFT, SONG RIGHT - These buttons are used in conjunction with the DEMO/SONG button. It allows the player to play along with the prerecorded traditional songs contained within this piano. The LEFT button will play the right hand of the selected song, so the user can practice the left hand portion of the song. The RIGHT button will play the left hand of the selected song, so that the user can practice the right hand portion of the song. When engaging the LEFT and RIGHT buttons simultaneously only metronome will be heard as the user should play both the Left and Right portions of the selected song. When the song mode is engaged, the engagement bar will appear underneath the Play alone song icon and the song number will appear above the icon. Please see the Play Along Song section of this manual for more information.

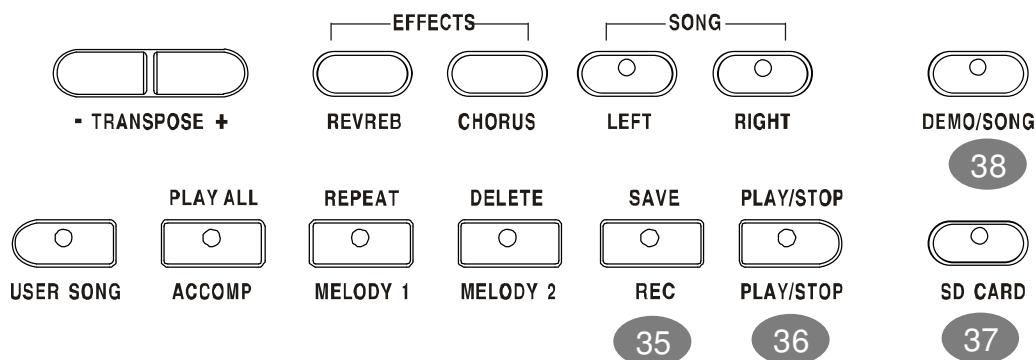


31. USER SONG - The USER SONG button accesses one of the four available song settings for recording or playback. Use the +, – buttons to select the song you wish, if there is recorded information on any of the three tracks their indicator lights will light up. Please see the Record section of this manual for more information.

32. ACCOMP/PLAY ALL - This is a dual function button.
ACCOMP This button is used to select the auto accompaniment track of a song for recording or playback in the record mode.
PLAY ALL This button is used to play all MIDI files stored in the SD Card in the SD Card mode.
 Please see the Record and SD Card sections of this manual for more information.

33. MELODY 1/REPEAT - This is a dual function button.
MELODY 1 There are two tracks for recording melody. The melody 1 track is assigned by this button in the record mode.
REPEAT In the SD Card mode, this button is used to engage the way of repeat playing.
 Please see the Record and SD Card sections of this manual for more information.

34. MELODY 2/DELETE - This is a dual function button.
MELODY 2 There are two tracks for recording melody. The melody 2 track is assigned by this buttons in the record mode.
DELETE In the SD Card mode, this button is used to delete the selected song stored in the SD Card.
 Please see the Record and SD Card sections of this manual for more information.



35. REC/SAVE - This is a dual function button for Record and SD Card modes.

REC This unit is able to record four songs, each with a 3-track sequencer. It will record all note events and accompaniment patterns exactly as they are performed. This recorded information is nonvolatile and therefore will not be lost when the power is turned off.

To record press and hold down the REC button then press the track button(s) you want to record in. Recording begins as soon as you start to play.

Press the REC button again to stop recording.

SAVE In the SD Card mode, this button is used to save the recorded information to the SD Card.

Please see the Record and SD Card sections of this manual for more information.

36. PLAY/STOP - This is a dual function button.

PLAY/STOP In the record mode, press the PLAY/STOP button to hear selected tracks that you have recorded on. Press the PLAY/STOP button again to stop the playback.

PLAY/STOP In the SD Card mode, press the PLAY/STOP button to start play the selected song from the SD card. Press the PLAY/STOP button again to stop the playback.

Please see the SD Card section of this manual for more information.

37. SD CARD - Press the SD CARD button to engage the SD memory card function.

Please see the SD Card section of this manual for more information.

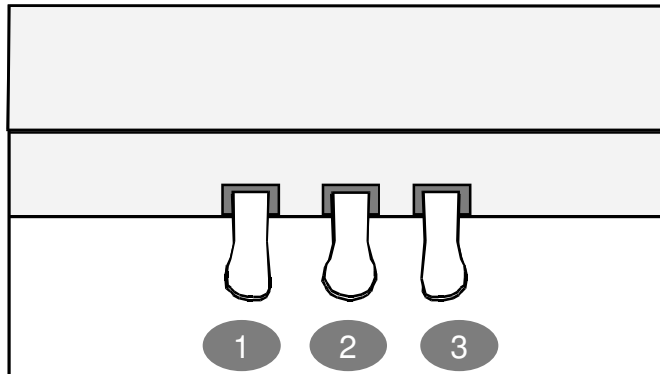
38. DEMO/SONG - This piano has thirteen different demonstration songs.

DEMO The demo mode will play back all thirteen demo songs or select the song individually. This button is used to engage the demonstration.

SONG The “music teacher“ feature can be used as an aid to learn the 55 songs built into this piano. To engage this mode, press this button twice.

Please see the Demo and Play Along Song sections of this manual for more information.

Pedals



- 1. SOFT PEDAL** - When the left pedal is engaged the piano volume is reduced and the timbre slightly altered on the notes that are played.
- 2. SOSTENUTO PEDAL** - When the center pedal is engaged, the keys that were already held down will continue to sustain and the notes will decay gradually after they are released. The other keys that are played after the pedal has been pressed are not affected.
- 3. SUSTAIN PEDAL** - When the right pedal is engaged the piano keys will continue to sustain as they are played. Thereby the piano note will decay gradually as if you were continuing to hold down the piano keys.

Demo

Playing Demo Songs - This piano has thirteen different demonstration songs that are designed to showcase some of the different sampled voices that are available. The display will show the song number with a “d” prefix. When playing all the songs, “All Demo” will appear on the display initially, and will change to the demo song number as it plays.

Al | Demo

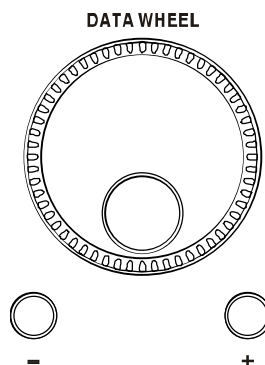
After exiting the demonstration mode the display will revert to its initial data. The DEMO/SONG button is a dual function button used for both Demo and the Play Along Song Mode.



Play All Demo Songs - Press the DEMO/SONG, the indicator lights up. The first demo song will playback instantly. This unit has thirteen demo songs. All songs will play repeatedly until you press the DEMO/SONG button again to stop the demonstration songs and to engage the Play Along Song mode.

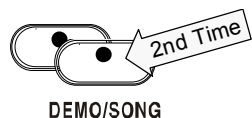
d- 1: SoJazzed

To Play a Single Demo Song - Use the DATA WHEEL or the +, - buttons to select a songs while the demo is playing. The song will play repeatedly until you change the song or press the DEMO/SONG button again to stop the demo.



d- 7: RoadRock

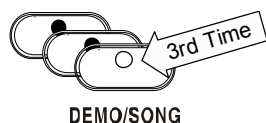
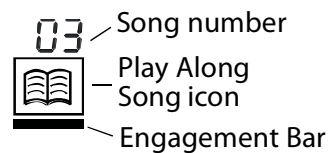
Note: The playing can stop instantly once it has been finished. It is determined by Repeat mode setting. Please see the SD Card section of this manual for more information.



Play Along Song - There are 55 songs for the musical training course that can also be played back for demonstration.

Press the DEMO/SONG button twice to enter the Play Along Song Mode, the engagement bar underneath the Play Along Song icon will appear. The Play Along Song name and its song number will appear on the top row of the display name and its song number will appear above the Play Along Song Icon.

03: Annie



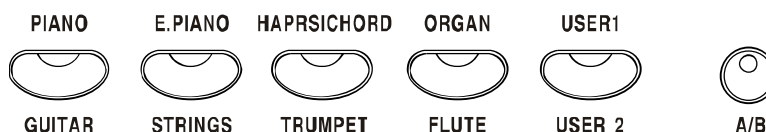
Please see the Play along song section of this manual for more information.

Exit - When you press the DEMO/SONG button for the third time the piano will exit from the Demo/song mode.

Keyboard Voice

Voice Selection - There are 128 GM voices in 16 groups plus 10 Asian ethnic folk instrument voices. There is a complete list of all 138 voices in the back of the manual.

Quick Select - There are ten voices that can be selected quickly by pressing one of the five voice select buttons. These voices are assigned to Instrument Line A and Instrument Line B. Each Line consists of five voices. The voice name in Line A is printed above the voice select button and the voice name in Line B is beneath the button.



1. Press the A/B button to select a voice kit. Selection of the Instrument Lines will alternate when the A/B button is pressed repeatedly. The indicator will be lit when Line B is selected.



2. Press the voice select button that corresponds to the desired voice in the Instrument Line you have selected. The voice name and its number with a VOICE indicator in front will show on the display.

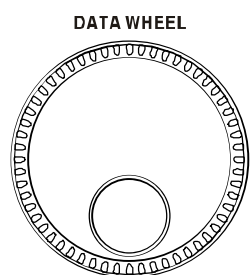
VOICE 00 1: Gr . Pi ano



Selecting One Of The 138 Voices

1. Press the VOICE Button to have the VOICE indicator display in the upper left corner of the display. The current selected voice will be shown and the VOICE indicator will turn on.

VOICE 00 1: G. Pi ano



2. Use DATA WHEEL or the +, - buttons to select a voice. The voice name and its number will show on the display. Please refer to the back of the manual for a list of all available voices.

VOICE 005: E. Pi ano 1



Selecting Voice Via Group

1. The the UP and DOWN button can be used to select the voice group. The group name in capital and its number with “≡” notation will be shown and it will blink.

VOICE ≡04: GUI TAR



2. Press the ENTER button to confirm the group selected. Press the CANCEL button to exit from the group mode.

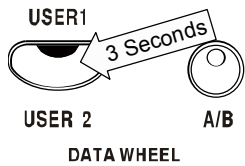


3. When the group selection mode is engaged, the first voice in this group will be shown. Use the DATA WHEEL or +, - buttons to select a single voice.

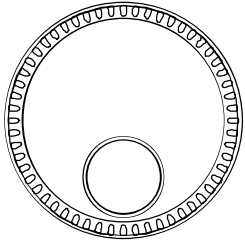
User Defined Quick Selection Button - These Buttons allow the User to select and store their favorite voices in these buttons, in order to easily select them the next time they use the piano.



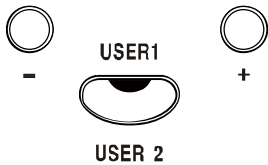
Press the voice USER button, USER 1 from Line A, or USER 2 from Line B to select the user defined voice. The default user voice for USER 1 is voice 012 Vibraphone. The default user voice for USER 2 is voice 092 Choir Pad. You can assign a favorite voice to the voice quick select button by following the steps below:



1. Select USER BUTTON A or USER BUTTON B.
2. Press and hold down the USER button to assign the voice for 3 seconds, the indicator of the button will blink.

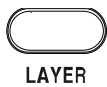


3. Select the desired voice by using the DATA WHEEL or the +, - buttons.
4. Press the USER button again to store the voice. The indicator remains On. The currently selected voice will be assigned to this button to be available for quick selection button next time you press it.

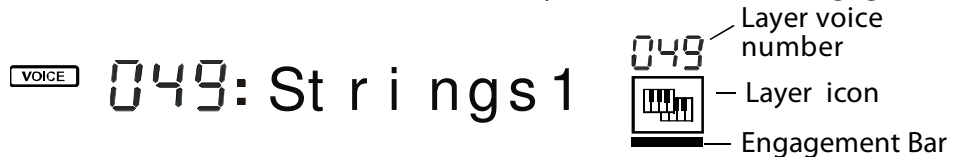


5. USER button assignment will be saved even when the power is turned off.

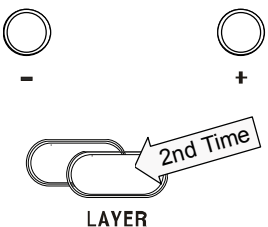
Layer (Dual) Voice - Layer, or dual, refers to an additional voice that is tone mixed with the selected keyboard voice. The assigned layer voice will be heard with the original voice when the layer feature is engaged.



1. Press the LAYER button, the engagement bar underneath the Layer icon and the layer voice number above the icon will blink. The current layer voice number and name will also show on the top row of the display with the "VOICE" indicator in front. The layer voice feature is engaged.



2. Use the DATA WHEEL or the +, - buttons to select the desired d voice that you want.
3. Press the LAYER button a second time within 3 seconds and the current layer voice volume will be show on the display. Use the DATA WHEEL or the +, - buttons to adjust the layer voice volume ranging 0 - 127. Press



the + and - buttons simultaneously to revert its default volume.

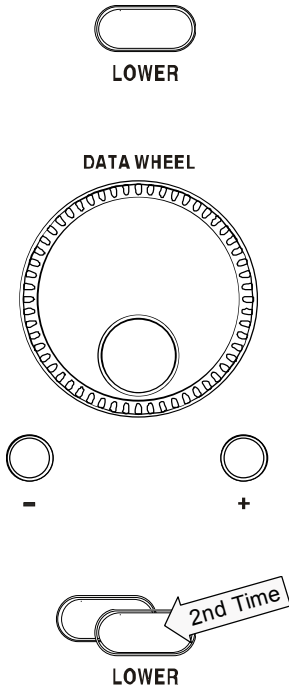
086: Layer Vol

4. After three seconds the display will revert to the selected main voice. The Layer icon will then stop blinking.

5. Press the LAYER button again to turn the layer voice feature off. The engagement bar of the Layer icon will then turn off.

Lower (Split) Voice - In the lower, or split, mode the keyboard is divided into two sections. To the right of the Split Point the currently selected main voice, or the layer voice will sound. The keys to the left of the Split Point can play a different instrument voice.

1. Press the LOWER button, the engagement bar underneath the Lower icon and the lower voice number above the icon will blink. The current lower voice number and name also will be shown on the top row of the display with the "VOICE" indicator in front. The lower voice feature is engaged.



VOICE

035: Pi ck Bass

035



Lower voice number

Lower icon

Engagement Bar

2. Use the DATA WHEEL or the +, - buttons to select the desired voice that you want.

3. Press the LOWER button a second time within 3 seconds and the current lower voice volume will be shown on the display. Use the DATA WHEEL or the +, - buttons to adjust the lower voice volume ranging 0 - 127. Press the + and - buttons simultaneously to revert its default volume.

106: Lower Vol

4. After three seconds the display will revert to the selected main voice. The Layer icon stop blinking.

5. Press the LOWER button again to turn the lower voice feature off. The engagement bar of the Lower icon turns off.



6. Assigning The Split Point For Voice - The keyboard is split into two sections at the split point. The default split point for voice is the C3 key. A different voice split point can be assigned in the Setup menu "Split Point for Lower Voice". Please see the Setup section of this manual for more information.



Keyboard Percussion - When keyboard percussion has been engaged, the engagement bar appears underneath the Percussion icon and the drum kit number is shown above the icon. The selected drum kit and its number with a “P” prefix will be shown on the top row of the LCD Display. The DATA WHEEL or the +, - button can be used to select the drum kit. The entire keyboard will play the percussion voices from the selected Drum kit. Please see the Setup section of the manual for more information.

VOICE

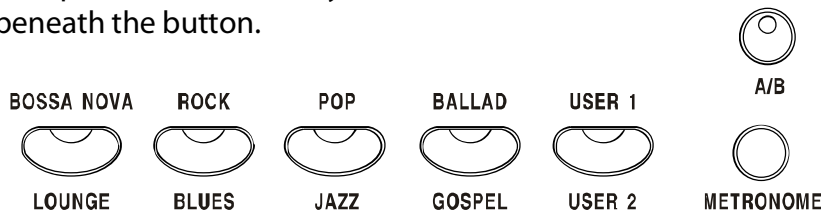
P06: Jazz

6 - Drum kit number
 - Percussion icon
 - Engagement Bar

Rhythm Style

Rhythm Style Selection - This piano offers 100 rhythm styles in ten groups and a variation of each style to choose from. There is a complete list of all 100 styles in the back of the manual.

Quick Select - There are ten styles that can be selected quickly by pressing one of the five style select buttons. These styles are assigned to Line A and Line B. Each Rhythm Style Line consists of five styles. The style name in Line A is printed above the style select button and the voice name in Line B is beneath the button.



1. Press the A/B button to select a Line. Selection of the Lines will alternate when the A/B button is pressed repeatedly. The indicator will be lit when Line B is selected.
2. Press the style quick select button that corresponds to the desired style in the Line you have selected. The style name and its number with the STYLE indicator in front will be shown on the display.



A/B

BOSSA NOVA



LOUNGE

STYLE

09: Cool Bosa

Selecting One Of The 100 Styles

1. Press the STYLE Button to have the STYLE indicator display in the upper left corner of the display. The current selected style will be shown and the STYLE indicator will turn on.

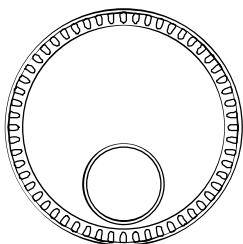


STYLE

STYLE

01: Big Band

DATA WHEEL



2. Use DATA WHEEL or the +, - buttons to select a style. The style name and its number will show on the display. Please refer to the back of the manual for a list of all available styles.

Selecting Style Via Group

1. The the UP and DOWN button can be used to select the style group. The group name is in capital and its number has "≡" notation will be shown and it will blink.

STYLE

≡04: S. BALLAD



-



+



UP



DOWN

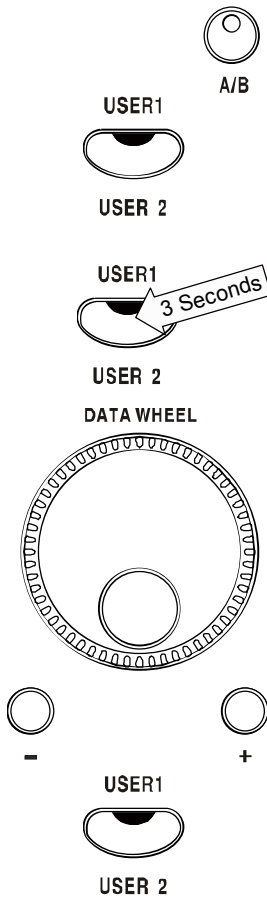


ENTER

2. Press the ENTER button to confirm your selected group. Press the CANCEL button to exit from the group mode.

3. When the Group Selection mode is engaged, the first style in this group will show on the LCD. Use the DATA WHEEL or +, - buttons to select a single style.

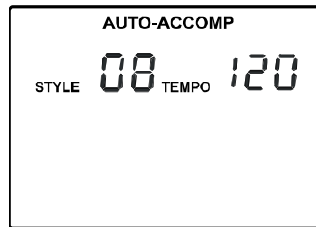
User Defined Quick Selection Button - These Buttons allow the User to select and store their favorite Styles in these buttons, in order to easily select them the next time they use the piano.



Press the style USER button, USER 1 from Line A, or USER 2 from Line B to select the user defined style. The default user style for USER 1 is style 46, Unplugged 1. The default user style for USER 2 is style 52, Kids 1.

You can assign a favorite style to the style quick select button by following the steps below:

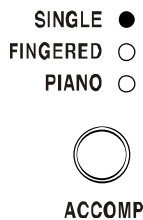
1. Select USER BUTTON A or USER BUTTON B.
2. Press and hold down the USER button to assign the style for 3 seconds, the indicator of the button will blink.
3. Select the desired style by using the DATA WHEEL or the +, - buttons.
4. Press the USER button again to store the style. The indicator remains On. The currently selected style will be assigned to this button to be available for quick selection button next time you press it.
5. USER button assignment will be saved even when the power is turned off.



The current selected style and the tempo are resident on the display and will update when you change it.

Auto Accompaniment

Auto Accompaniment - The rhythm styles have their own auto accompaniment (Auto Bass Chord) dedicated to that rhythm style. These auto accompaniment patterns create fully orchestrated rhythm, bass and chord progressions based on the chords that you play with your left hand. The selected rhythm style determines the characteristics of the auto accompaniment. The auto accompaniment section of the keyboard is assigned by the split point. The keys on the left of the split point are reserved for the auto accompaniment. The keys to the right are available for normal playing.



Auto Bass Chord Fingering - This piano has three auto accompaniment fingering modes, single, fingered, and piano.

Press the ACCOMP button until the indicator light until the Fingering mode that you desire is selected.

Single (Intelligent) Mode - Single fingering mode makes it simple to produce four types of orchestrated accompaniment chords using a minimum of fingers, (one, two, or three fingers at the most), while playing in the auto accompaniment section of the keyboard. In this mode, keys in the auto accompaniment section of the keyboard are used to produce major, seventh, minor, and minor-seventh chords. The auto accompaniment will start with the percussive rhythm as soon as a recognized chord is played. The accompaniment produced is perfectly matched to the selected rhythm style.



Major Chord: Press any key in the auto accompaniment section of the keyboard. The key you press determines the root note of the major chord.



Minor Chord: Press the root key and any black key to its left in the auto accompaniment section of the keyboard simultaneously.




Seventh Chord: Press the root key and any white key to its left in the auto accompaniment section of the keyboard simultaneously.



Minor-Seventh Chord: Press the root key and any both white and black keys to its left in the auto accompaniment section of the keyboard simultaneously.

- The root key in the examples is C

- SINGLE ○
 FINGERED ●
 PIANO ○
- 
 ACCOMP

Fingered Mode - The fingered mode is ideal if you already know how to play chords on the keyboard. It allows you to play the chords in the auto accompaniment section of the keyboard that produce the selected auto accompaniment pattern.

Note: If a chord played cannot be recognized (fingered beyond the table), the previous chord will keep playing. An unrecognized chord cannot start a bass chord in the straight start mode, and cannot start the auto accompaniment in the synchronized start mode. The following Fingering Guide table lists all of the 31 playable chords of this mode.

Chord	Mark	Fingering
Major	M	1-3-5
Major sixth	M6	1-3-5-6
Major seventh	M7	1-3-(5)-7
Major seventh sharp eleventh	M7 #11	1-(2)-3-#4-(5)-7
Major add ninth	M 9	1-2-3-5
Major seventh ninth	M7 9	1-2-3-(5)-7
Major sixth add ninth	M6 9	1-2-3-(5)-6
Augmented	Aug	1-3-#5
Minor	m	1-b3-5
Minor sixth	m6	1-b3-5-6
Minor seventh	m7	1-b3-(5)-b7
Minor seventh flatten fifth	m7b5	1-b3-b5-b7
Minor add ninth	m 9	1-2-b3-5
Minor seventh add ninth	m7 9	1-2-b3-(5)-b7
Minor seventh add eleventh	m7 11	1-(2)-b3-4-5-(b7)
Minor major seventh	mM7	1-b3-(5)-7
Minor major seventh add ninth	mM7 9	1-2-b3-(5)-7
Diminished	Dim	1-b3-b5
Diminished seventh	Dim7	1-b3-b5-6
Seventh	7	1-3-(5)-b7
Seventh suspend fourth	7sus4	1-4-5-b7
Seventh add ninth	7 9	1-2-3-(5)-b7
Seventh sharp eleventh	7 #11	1-(2)-3#4-(5)-b7
Seventh thirteenth	7 13	1-3-(5)-6-b7
Seventh flatted fifth	7 b5	1-3-b5-b7
Seventh flatted ninth	7 b9	1-b2-3-(5)-b7
Seventh flatted thirteenth	7 b13	1-3-5-b6-b7
Seventh sharp ninth	7 #9	1-#2-3-(5)-b7
Major seventh augmented	M7aug	1-3-#5-7
Seventh augmented	7aug	1-3-#5-b7
Suspended fourth	Sus4	1-4-5

Note: the notes listed in parentheses can be omitted.

The listed chord fingerings are all in root note position, other inversions can be used with the exception of:

1. The M6 chords are only recognized in root note position. All other inversions are interpreted as m7.
2. The 6 9 chords are only recognized in root note position. All other inversions are interpreted as m11.
3. The m6 chords are only recognized in root note position. All other inversions are interpreted as m7b5.
4. With aug and dim7 chords the lowest note played is assumed to be the root.
5. With 7#11 chords the lowest note played is assumed to be the root or b7.

- SINGLE ○
- FINGERED ○
- PIANO ●



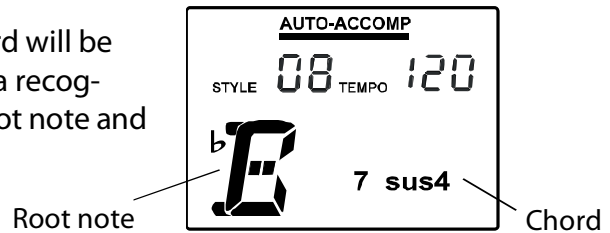
ACCOMP



Piano Chord Mode - When the Piano fingering chord mode is engaged you may enter chords anywhere on the keyboard, and the auto accompaniment will make complete styled arrangements. You are not limited to the auto accompaniment section or the range of the split point. In this regard there is no keyboard split point function for this Piano Chord Mode.

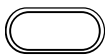
Manual Bass Chord Mode - When engaged in the single or fingered mode, you may play individual keys in the auto accompaniment section of the keyboard. The voice on this section of the keyboard will be a layered bass and chord voice determined by the current style. This is a split voice mode, with the right hand playing the main voice.

Chord Display - The Chord will be displayed on the LCD when a recognized chord is entered. Its root note and chord will show on the LCD.



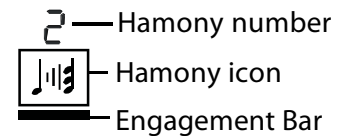
Auto Harmony - With the harmony feature engaged, a single note on the right-hand section of the keyboard will sound with additional auto harmony notes. The note played in the right-hand section of the keyboard determines the root key of the harmony. If more than one note is played only the highest note will add harmony.

Note: Auto harmony is only available when the auto accompaniment is playing.



HARMONY

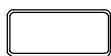
Press the HARMONY button to turn the feature on and off. When this feature is engaged, the engagement bar underneath the Harmony icon will appear. There are four harmony types that can be selected:



- 1- Duet - adds a harmonizing notes sounding below the single right hand melody note that you play.
- 2 - Close harmony - adds two harmonizing notes sounding below the single right hand melody note that you supply. Among the Harmony chord notes, there is no space for another chord note, and all of the chord notes are in a single octave.
- 3 - Open harmony – the same as the Close harmony. But the chord notes are not totally adjacent, there is space among them for containing another chord note.
- 4 - Octave - add the same note one octave lower.

The harmony type selection is assigned in the Setup menu. Use the “Harmony Type” menu to select the type of harmony. Please see the Setup section for more information.

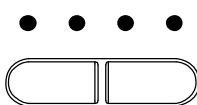
Playing The Auto Accompaniment



START/STOP



INTRO/ENDING



- TEMPO +



SYNC START

Starting The Accompaniment

1. Straight Start - The START/STOP button starts the selected rhythm style immediately with the percussive rhythm.
2. Starting With an Introduction - All of the 100 styles can be started with an appropriate introduction. As soon as you press the INTRO/ENDING button, the rhythm of the introduction will start followed by the main pattern.
3. Synchronized Start - Synchronized Start engages the accompaniment in standby mode.
Press the SYNC START button, the beat indicator dots above the TEMPO buttons will blink at the current tempo, showing that the synchronized start mode is ready. The accompaniment will start as soon as you play a recognized chord in the auto accompaniment section of the keyboard. You may also add an introduction by pressing the INTRO/ENDING button after pressing the SYNC START button.

Playing Chord and Bass - Play and change the chord on the accompaniment section of the keyboard referring the fingering instruction. The Auto-Bass-Chord patterns will be produced according to the chord you played.



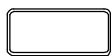
VARIATION

Variation - To select the a variation of the main patterns, press the VARIATION button. The indicator will light up. If you press the VARIATION button, then press the INTRO/ENDING button, the variation pattern will play after the introduction.



FILL-IN

Fill - In - The fill feature will insert a short rhythmic pattern of one to two measures in length, depending on the rhythm style selected and the variation. Holding down the FILL IN button will extend the fill indefinitely.



START/STOP



SYNC START

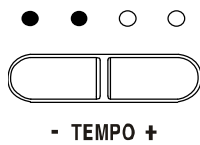


INTRO/ENDING

Stopping The Accompaniment

1. Straight Stop - Press the START/STOP to stop the accompaniment immediately.
2. Synchronized Stop - Press the SYNC START buttons to stop the accompaniment and the synchronized start mode will be on standby.
3. Stop With an ending - All of the 100 styles can be stop with an appropriate ending. As soon as you press the INTRO/ENDING button, the rhythm will stop with an ending pattern.
Note: If you want the selected rhythm style to be engaged again after the ending pattern has been completed, press the FILL IN button while the ending pattern is engaged.

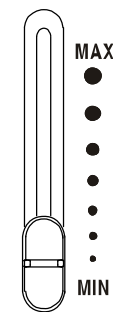
The Split Point For The Auto Accompaniment - The keyboard is split into two sections at the split point. The default split point for auto accompaniment section is the G2 key. A different split point for the auto accompaniment can be assigned in the Setup menu "Auto A.Split". Please see the Setup section of this manual for more information.



Adjusting The Tempo - There is a four-beat indicator above the TEMPO buttons that indicates the tempo and the beat for the accompaniment playing. Each style has its own preset tempo. The tempo can be adjusted from 40 - 240 bpm (beats per minute) using – TEMPO+ buttons and it shows on the display. After 3 seconds, it will revert to the voice displaying.

1 12:Tempo

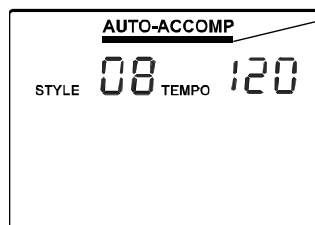
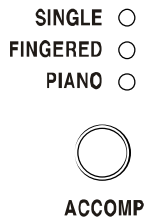
When you change the style before you play, the tempo will be set to that default value. If you change style during play, the tempo will keep its current value, press the – /+ TEMPO buttons simultaneously to set the tempo to the new styles default value.



Accompaniment Volume - Slide the ACCOMP VOLUME control knob to adjust the volume of the auto accompaniment. The keyboard instrument voice will not be affected by the Accompaniment Volume Control.

Auto Bass Chord Off - Press the ACCOMP button repeatedly until all of indicators above the button are turned off. When the Auto Bass Chord function is turned off the entire 88 note keyboard can be played as a normal piano.

The Drum Patterns can still function and are controlled by the START/STOP, INTRO/ENDING, FILL-IN and VARIATION buttons.



When the Accomp mode is engaged either at Single, Fingered or Piano, the engagement bar will show on the LCD Display.

Metronome

The built in metronome is a timing device. It is used as a timing reference to aid with practice or performance.

To engage the METRONOME Function, press the METRONOME button.

To Stop the Metronome Function press the METRONOME button again.

If you engage the Metronome Function while the Rhythm Accompaniment is playing then the Metronome Sound will replace the Drum Pattern of the engaged Rhythm Style.

Metronome Setting -

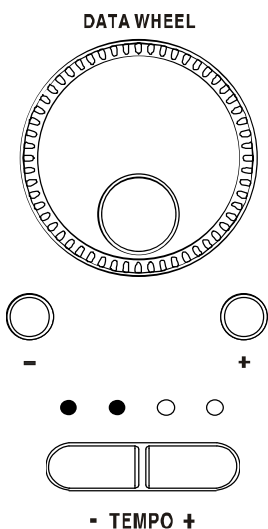
1. Press the METRONOME button to start the metronome. The pendulum rod of the metronome icon will swing as shown on the LCD Display Screen and four beat indicators above the TEMPO button will flash according to current beat and tempo.



Met r o 3 / 4



2. Use the + or - button to choose the time signature 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8 or 12/8 within 3 seconds after the metronome has been engaged . After the 3 seconds have expired, the metronome data will disappear from the LCD Display. The LCD display will then revert to the instrument Voice Display.

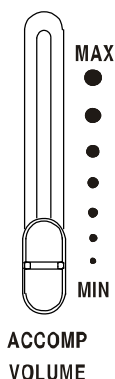


3. The tempo of the time signature can be adjusted, use the - TEMPO + buttons to adjust the tempo from 40 - 240 bpm (beats per minute) and it shows on the display. After 3 seconds, it will revert to the voice displaying. Press the - TEMPO + buttons simultaneously to recall the default setting.

1 12 : Tempo

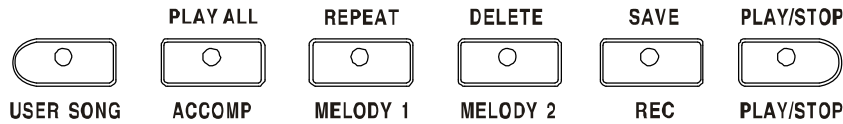
When the Tempo is shown on the LCD Display you may also use the Data Wheel or the +/- Buttons to alter the current Tempo setting.

Metronome Volume - Use the ACCOMP VOLUME Knob to adjust the volume of the metronome.



Record

This piano is equipped with a real time recorder, able to store four songs, each with a 3-track sequencer. It will record all note events and the accompaniment as they are performed. This recorded information is nonvolatile and therefore will not be lost when the power is turned off. All the tracks can playback separately or together as a complete song.



Melody tracks record all notes. There are two tracks available for recording the melody, these are assigned by pressing the MELODY 1 or the MELODY 2 button. Auto Accompaniment track records all the auto accompaniment events just as they are played. The ACCOMP track button will select the accompaniment track.

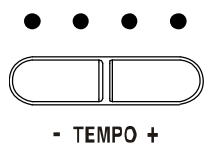
Recording

1. Prepare - Prepare to record by setting the voice, style, tempo and reverb level and other parameters as desired. These settings can be stored into a registration memory for easy recall, please see the Registration section for more information.

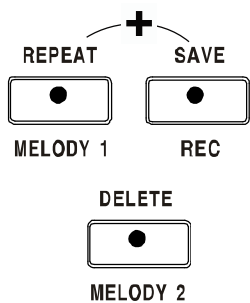


2. Select a Song - Press the USER SONG button, its indicator will be lit and the first User Song name will show on the display. Use the +, - buttons to select a song this is where the recorded information will be stored.

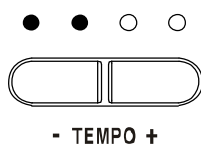
U. Song-1



3. Select a track to record - Press and hold down the REC button, then press the track button that you want to record in. The REC and the corresponding track indicator will blink and immediately erase the existing recording in this track. The four dots of the beat indicator will blink with the current tempo, to show that the recorder is on standby.



If you already have a recorded track(s) in the selected song, its indicator will be lit automatically. The recorded music will play, as a reference for you while you record the new track. If you do not wish for previously recorded tracks to play while you are recording, press the corresponding track button to turn the indicator light off.

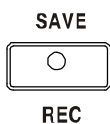
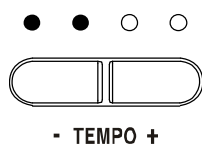
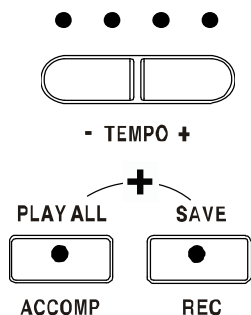


4. Record - Your performance can be recorded in the following ways:

Record Melody Track Only

If the MELODY 1 or MELODY 2 buttons is selected, the recording will begin as soon as you play the keyboard, the REC indicator will stop blinking and stay on lighting, the four-dot indicator will flash showing recording beat and tempo in real time .

Note: It is suggested to turn off the fingering mode when recording on a



melody track alone. When the fingering mode is set to Fingered or Single, the auto accompaniment section of the keyboard will not be recorded, although the notes are sounding.

Record Auto Accompaniment Track Only

If the ACCOMP button is selected, the recording will begin as soon as a recognized chord is played on the auto accompaniment section of the keyboard. The REC indicator will stop blinking and stay on lighting, the four-dot indicator will flash showing recording beat and tempo in real time.

Note: Notes played on the Melody section of the keyboard will not be recorded in the auto accompaniment track. If the auto accompaniment is off, only the percussive rhythm will be recorded in the ACCOMP track.

Record the Auto Accompaniment and a Melody Track

If you want to record a melody track and the accompaniment track at the same time, press and hold down the ACCOMP track button and a MELODY track button at same time, both indicators will blink, then press the REC button. Recording begins as soon as you start to play on any section of the keyboard. The REC indicator will stop blinking and stay on lighting, the four-dot indicator will flash showing recording beat and tempo in real time.

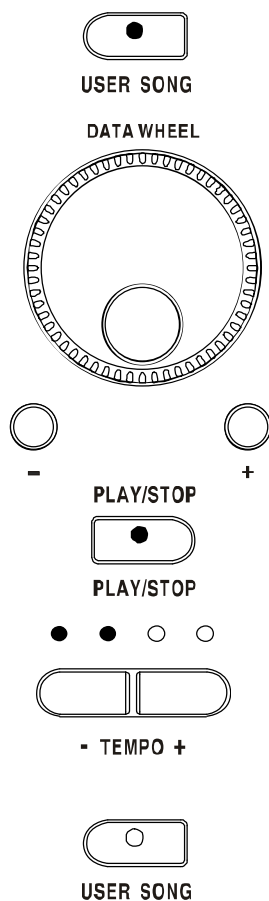
5. Metronome - If you would like to have the Metronome play while you are recording simply press the METRONOME button. It is a timing reference when recording only melody track. The metronome sound will not be recorded.

Note: If you use the metronome when recording the accompaniment track, the metronome will play in place of the drum pattern of the auto accompaniment.

6. Stop Recording and Store - Press the REC button again to stop recording. Or when the accompaniment track is being recorded, press the INTRO/ENDING button to stop the recording with an ending pattern in the accompaniment track.

The recorded information will be stored in the User Song that you selected.

Note: When the record memory is full, recording will stop automatically and “End” will appear on the display screen.



Playback - To listen to the recorded passage:

1. Press the USER SONG button, its indicator will be lit and the first User Song name will show on the display. Use the +, - buttons to select a song.

U. Song-2

2. If you already have a recorded track(s) in the selected song, its indicator will be lit automatically. If you do not wish to hear a specific track, press the corresponding track button to turn that track off. Its indicator will turn off.

3. Press the PLAY/STOP button to hear the recorded track(s). Its indicator will light up. The dots of the beat indicator will flash. You can change the tempo by pressing the +TEMPO- buttons. You may also play on the keyboard while the recording is playing back.

4. Press the PLAY/STOP button again to stop the playback. Playback will stop automatically when the recording reaches its end.

Exit - Press the USER SONG button again to exit the Record Mode, the display screen will revert to the current voice selected.

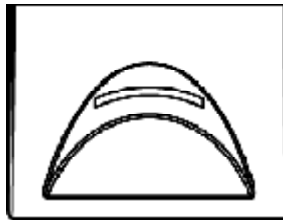
Note: The melody track can record layer or lower performance. But cannot record layer and lower at the same time. In the record mode, when layer or lower mode is triggered, then press another mode button, the mode will be toggled to new one. If both layer and lower mode are engaged before entering record, when enter the record mode, only layer mode remains and the lower will be disabled automatically.

SD Card

This piano is equipped with a SD Memory Card reader.

You can play MIDI files on the included SD Memory Card.

The Memory Card can play MIDI Files in either format 0 or format 1. You can save the music that you recorded on the piano into the SD Memory Card as a MIDI file in format 1. You can also delete the MIDI files from this SD Memory Card.



Insert Memory Card - Insert the SD Memory Card in to Memory Card Slot with the label side up and the metal teeth leading into the slot. Slide the SD Memory Card into the slot and push it with your index finger until it clicks into place. The SD Memory Card should be approximately flush with the Memory Card Plastic Molding when you have heard or felt the click, meaning that it is engaged.

Remove The Memory Card - To remove the SD Memory Card press the SD Memory Card and it will pop back out of the Memory Card Slot and allow you to grab it to remove it from the piano.

Note: do not remove the Memory Card or turn off the power when to Memory card is engaged in anyway to avoid memory loss or damage to the SD Memory Card or the Memory Card Reader

Enter The Card Mode And Play The Card

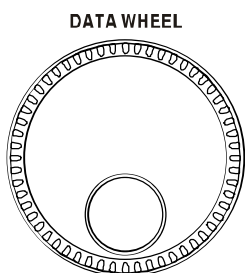


1. Press the SD CARD button to enter the memory card operation mode, it's LED Button indicator will turn on.



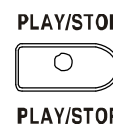
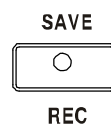
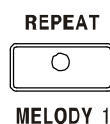
2. The music sequencer will automatically load the first MIDI File Song that is on the card and it will begin to play. The indicator on the PLAY/STOP button will turn on. The LCD Display shows its number and file name of the song playing.

03: CLASI C01



3. The music sequencer will play the file repeatedly until the PLAY/STOP button is pressed, if the REPEAT button is engaged. If the REPEAT button is off the song will play once and then stop.

4. To select and different song to play, use the DATA WHEEL or the +, - buttons to to select you desired song.





Play All

The Play All card function lets you play all MIDI Song Files that are on the card. To engage the Play All function:

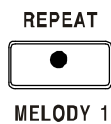
1. Press the PLAY ALL button and its indicator is lit. The music sequencer will automatically load the first MIDI File Song that is on the card and it will begin to play. The indicator on the PLAY/STOP button will be lit. The LCD Display shows its number and file name.
2. The music sequencer will load the second MIDI File Song after the first one has finished and it will begin to play.
3. The music sequencer will continue to play all songs in sequence. After finishing playing all files, the music sequencer will start another loop of playing all, if the REPEAT mode button is engaged.
4. Press the PLAY/STOP button anytime to stop the playing.
5. Press the PLAY ALL button again to exit the Play All mode.

Repeat Playing Mode

There are two playing modes.

1. Repeat Playing Mode
2. Non-Repeat Playing Mode

If the piano is in the Repeat Mode it will continue to play the songs until the PLAY/STOP Button is pressed.



To engage the Repeat mode:

1. Press the REPEAT button.

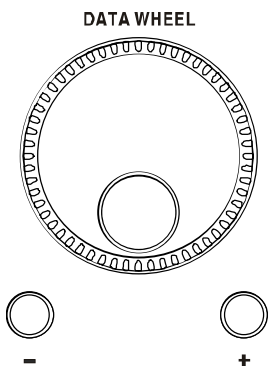
on: Repeat

2. Press the +, - button to switch On/Off status of the mode.

off: Repeat

3. When the Repeat mode is engaged, the REPEAT indicator will be lit.

Note: The repeat playing mode setting is also applied to the demo song play back.



Deleting a MIDI File From The SD Card

The Delete function is used to remove unwanted files from the SD card.



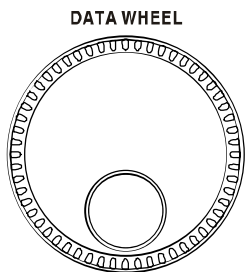
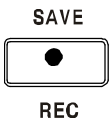
1. Press the DELETE Button when the song that you would like to delete is shown on the screen. The DELETE button indicator will be on.
2. The LCD display will prompt "Delete?". Press the ENTER button to confirm. The song you have selected will then be deleted.
Or, press the CANCEL button to cancel the delete operation.

Del et e ?

3. The next file MIDI file on the card will be loaded after deleting the previous file.

Saving a MIDI File Onto The Card

The Save function lets you save your musical performance data that you recorded in the 3 track music recorder (sequencer) on the piano and save it as a MIDI file onto your SD Card so that it can be accessed later.



1. Press the SAVE button. The SAVE Button indicator will turn on. You have four recorded User Song stored in the memory of the piano. The first song will show.

Note: The number is the file number in the SD card.

035: U. Song-1

2. Use the DATA WHEEL or +, - buttons to select the User Song you would like to save onto the SD Card. Then, Press the ENTER button to confirm this.
Please note that if you want to cancel this function, then press the CANCEL button to retreat back to the previous display.
3. After confirmation by pressing the ENTER button, the LCD display will prompt "Save it?".

Save i t ?

Press the ENTER button to save recorded song onto the card with the same name instantly. Or, press the CANCEL button to cancel.

4. The screen turns back to the previous display.

Error Messages

The following error messages can appear in the Card Mode:

If no SD card is inserted, or the SD Card is not inserted properly, or the SD card has been damaged, the LCD screen will display “No Card”. After about 3 seconds, it returns to normal piano mode, the SD CARD indicator turns off.

No Card

If there is no MIDI file on the SD card, the screen displays “No File”. After about 3 seconds, it returns to normal piano mode, the SD CARD indicator turns off.

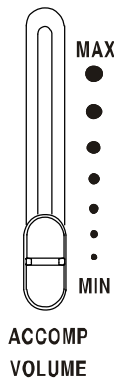
No File

If the channel number of the MIDI file is more than 16, which exceeds the capability of the piano, the file can not be loaded “>16chnl” will appear on the display. After 3 seconds, the next file will be loaded and played automatically.

>16Chnl

The Maximum size of an individual file is 128K, If the size is larger than 128K, “>128K” will appear on the display. After 3 seconds, the next file will be loaded and played automatically.

>128K



ACCOMP
VOLUME



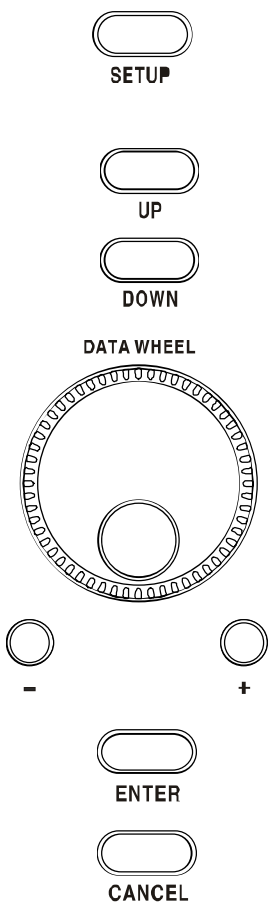
SD CARD

Volume of the SD Card Song - You can adjust the volume of the song from the SD Card by sliding the ACCOMP VOLUME knob up or down.

Exit - Press the SD CARD button again to exit the SD CARD Mode, the display screen will revert to the current voice selected.

Setup

The Setup mode is used to set up or to adjust various parameters related to the operation of this piano. With the SETUP button engaged you may access the menu for the Equalization, Reverb type & level, Chorus type & level, Touch sensitivity, Lower Split point for voice, Split point for auto accompaniment, tuning, Drum kit selection, Harmony type, Vocal grading, LCD contrast, local off and reset.



Using The Setup Menu

1. Press the SETUP button. The first menu item (Equalizr) that can be manipulated will appear on the LCD display.
2. Press the UP or the DOWN buttons until the menu item you wish to access appears on the LCD display screen. Press the ENTER button to confirm this, the current parameter will be shown on the LCD Display and it will blink.
3. Use the DATA WHEEL or the +, – buttons to set a new parameter. Pressing the + and the – buttons simultaneously will recall the factory default setting.
4. Press the ENTER button to confirm your setting and turn to the next item. Press the CANCEL button to cancel your entering.
5. Press the SETUP button again to exit from the Setup mode.
6. If you want the Setup Functions parameters will stay in the memory even when the power is turned off. save them into a Registration Memory. Please see the Registration section of this manual for more information.

Equalization (EQ) - The equalizer adjusts the overall tone of the entire piano's sound delivery system by boosting or decreasing various high, mid and low frequencies. There are 10 types of equalizer for your choice.

1. In the Setup mode press the UP or the DOWN buttons until the "Equalizr" appears on the LCD Display.

Equal i z r

2. Press the ENTER button to confirm this, Its current EQ type will be shown on the LCD Display and it will blink. The EQ type is also shown above the EQ icon.

02: Br i g h t



3. Use the +, – buttons or the DATA WHEEL to select EQ type. The available EQ types are listed below:

No.	EQ Type	No.	EQ Type	No.	EQ Type
01	Piano	02	Bright	03	Bright Middle
04	Middle boost	05	Bass Middle	06	Bass Boost
07	Flat	08	Classical	09	Jazz
10	Pop				

Keyboard Percussion - When the keyboard percussion has been engaged, the entire keyboard will play the percussion voices from the selected Drum kit. There are ten drum kits, based on the Standard Kit that can be assigned.

1. In the Setup mode press the UP or the DOWN buttons until the “DrumKit” appears on the LCD Display.

DrumKit

2. Press the ENTER button to confirm this, Its current setting will show and blink.

06: Jazz

3. Use the +, – buttons or the DATA WHEEL to select drum kit number 01 - 10. “oFF” refers to the keyboard percussion feature off that is the factory default setting. All selectable kits are listed below.

No.	Drum Kit	No.	Drum Kit	No.	Drum Kit	No.	Drum Kit
01	Standard	02	Room	03	Power	04	Elec. Drum
05	TR-808	06	Jazz	07	Brush	08	Orchestra
09	Chinese	10	SFX				

4. If the drum kit is not set to “oFF”, the engagement bar will appear underneath the Percussion icon.

Note, the entire keyboard will play the percussion voices from the selected drum kit. The voice number will be the drum kit and its number with the notation “P”.



MasterTune - The pitch of this piano is very accurate and stable, it is automatically set to standard A440 pitch when the piano is turned on. The tuning feature makes it possible to tune the pitch of the instrument in fine intervals. If necessary, you can alter the piano pitch. Tuning can be accomplished over 50 steps or cents per semitone.

1. In the Setup mode press the UP or the DOWN buttons until the “Tune” appears on the LCD Display.

Tune

2. Press the ENTER button to confirm this, Its current setting will be shown and blink.

-12: Tune

3. Use the DATA WHEEL or +, - buttons to change the pitch. The range is – 50 to 50. Press the +, - buttons simultaneously to recover the default setting of 00.

Changing The Split Point For Auto Accompaniment -

1. In the Setup mode press the UP or the DOWN buttons until the “A.Point” menu appears.

A. Poi nt

2. Press the ENTER button to confirm, Its current setting will show and blink.

43: A. Poi nt

3. The split point is shown as key number referring to the table below. Use the DATA WHEEL or +, – button to shift the split point. The range is 33 - 60 (A1 – C4 key). Press the +, – buttons simultaneously to recover the default setting of 43 (G2 key).

Changing The Split Point For Lower Voice -

1. In the Setup mode press the UP or the DOWN buttons until the “L.Point” menu appears.

L. Poi nt

2. Press the ENTER button to confirm this, Its current setting will show and blink.

55: L. Poi nt



3. The split point is shown as key number referring to the table below. Use the DATA WHEEL or +, – button to shift the split point. The range is 43 - 96 (G2 – C7 key). Press the +, – buttons simultaneously to recover the default setting of 55 (G3 key).

Note Number	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Key	E _b 1	E1	F1	F#1	G1	G#1	A1	B _b 1	B1	C2	C#2	D2	E _b 2	E2
Note Number	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Key	F2	F#2	G2	G#2	A2	B _b 2	B2	C3	C#3	D3	E _b 3	E3	F3	F#3
Note Number	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Key	G3	G#3	A3	B _b 3	B3	C4	C#4	D4	E _b 4	E4	F4	F#4	G4	G#4
Note Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82
Key	A4	B _b 4	B4	C5	C#5	D5	E _b 5	E5	F5	F#5	G5	G#5	A5	B _b 5
Note Number	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Key	B5	C6	C#6	D6	E _b 6	E6	F6	F#6	G6	G#6	A6	B _b 6	B6	C7

Auto Harmony Type Setting -

There are four types of harmony that can be selected.

1. In the Setup mode press the UP or the DOWN buttons until the “Harmony” appears on the LCD Display.

Harmony

2. Press the ENTER button to confirm, Its current setting will show and blink.

2: Duet



3. Use the +, – buttons or the DATA WHEEL to select harmony type. The available harmony types are listed below:

No.	1	2	3	4
Type	Duet	Close	Open	Octave

Reverb Type Selection - There are 10 reverb types available to choose from. The selected reverb effect is applied to entire piano, not specially for the instrument voice.

1. In the Setup mode press the UP or the DOWN buttons until the “R.Type“ appears on the LCD Display.

R. Type

2. Press the ENTER button to confirm this, Its current setting will show and blink.

02: Lr g. Hal l

3. Use the +, – buttons or the DATA WHEEL to select your desired reverb type. The available reverb types are listed below:

No.	Reverb Type	No.	Reverb Type	No.	Reverb Type
01	Small Hall	02	Large Hall	03	Plate reverb
04	Church	05	Cathedral	06	Gated Reverb
07	Echo	08	3/4 Echo	09	4/4 Echo
10	Triplet Echo				

Reverb Level Setting - Adjust the level of reverb for the main voice.

1. Press the UP or the DOWN buttons until the “R.Level“ menu appears.

R. Level

2. Press the ENTER button to confirm, Its current setting will show and blink.

102: R. Level

3. Use the +, – buttons or the DATA WHEEL to change the reverb effect level. The range is 0 - 127. Press the +, – buttons simultaneously to revert back to the default setting.

Chorus Type Selection - There are 8 Chorus types available to choose from. The selected chorus effect is applied to entire piano, not specially for the instrument voice.

1. In the Setup mode press the UP or the DOWN buttons until the “C.Type“ appears on the LCD Display.

0 1: C. Type

2. Press the ENTER button to confirm this, Its current setting will show and blink.

0 1: D. Chor us

3. Use the +, – buttons or the DATA WHEEL to select your desired chorus type. The available chorus types are listed below:

No.	Chorus Type	No.	Chorus Type
01	Chorus Deep	02	Resonant Chorus
03	Flange	04	Flange Deep
05	Phaser	06	Tremolo
07	Tremolo Medium	08	Tremolo Fast

Chorus Level Setting - Adjust the chorus level for the main voice only.

1. Press the UP or the DOWN buttons until the “C.Level“ menu appears.

C. Level

2. Press the ENTER button to confirm this, Its current setting will show and blink.

88: C. Level

3. Use the +, – buttons or the DATA WHEEL to change the chorus effect level. The range is 0 - 127. Press the +, – buttons simultaneously to revert back to the default setting.

Touch Response Setting - The piano offers four types of keyboard touch sensitivity settings, soft, normal, hard, and fixed. These are also known as velocity settings and are designed to suit your style of playing. The Normal setting is selected automatically when the piano is turned on. The touch response can be changed with the function feature.

1. Press the UP or the DOWN buttons until the “Touch“ menu appears.

Touch

2. Press the ENTER button to confirm this, Its current setting will show and blink.

02: Normal

3. Use the +, – buttons or the DATA WHEEL to change the touch sensitivity type referring the table below. Press the +, – buttons simultaneously to recover the default setting 02 (Normal).

No.	Touch Type	Description
01	Soft	The most sensitive keyboard response which permits maximum sound levels with a light touch
02	Normal	An intermediate response suitable for most styles of music. Normal is the default setting.
03	Hard	A less sensitive keyboard response which requires a heavier touch to obtain maximum sound levels
04	Fixed	It does not offer any touch sensitivity. Each key plays at full volume no matter how hard the piano key is hit. It is commonly used on Harpsichord and Organ voices

Vocal Grading - After performance of the Play Along Song, you can hear a vocal grading of your performance. You can also turn this vocal grading feature off if you desire.

1. In the Setup mode press the UP or the DOWN buttons until the “V.Grade” appears on the LCD Display.

V. Gr a d e

2. Press the ENTER button to confirm this, Its current setting will show on the LCD and blink.

YES: V. Gr a d e

3. Use the +, – buttons to select “Yes”, “No” status.

Local - NOTE: This is a MIDI Function feature that can mute the sound of your Piano!

Local ON: When Local ON is engaged, you will hear sound from your Piano as it sends MIDI messages to your Sound Generation Board.

Local OFF: When Local OFF is engaged the MIDI Messages are sent only to the MIDI Out Ports of your Piano. Therefore you will hear no sound from your Piano.

1. In the Setup mode press the UP or the DOWN buttons until the “Local” appears on the LCD Display.

Local

2. Press the ENTER button to confirm this, Its current setting will show on the LCD and blink.

on: Local

3. Use the +, – buttons to select its “On”, “Off” status.

Contrast of LCD Display - The contrast of the LCD display can be adjusted.

1. In the Setup mode press the UP or the DOWN buttons until the “Contrast” appears on the LCD Display.

Contrast

2. Press the ENTER button to confirm this, Its current setting will show and blink.

126: Contrast

3. The range of the contrast is 64 - 128. Use the DATA WHEEL or +, – button to adjust the contrast. Press the +, – buttons simultaneously to recover the default setting.

Factory Setting - This function will reset the piano back to its factory default setting.

1. In the Setup mode press the UP or the DOWN buttons until the “Reset“ appears on the LCD Display.

Res e t

2. Press the ENTER button to confirm this, Its current setting will be shown and blink.

n o : Res e t

3. Use the +, – buttons to select “Yes“ or “No“.

4. If “Yes“ is selected and confirmed by pressing the ENTER button, the LCD Display will ask “Sure?“. Press the ENTER button again to confirm this or press the CANCEL button to cancel to leave this operation.

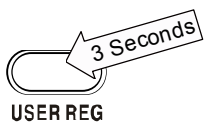


Sur e ?

Registration Memory

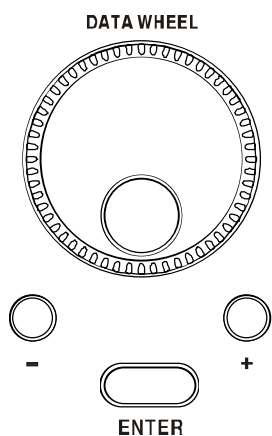
Registration Memory can recall particular settings of style, voice and other parameters or features you have engaged. This piano has ten registration memories to hold your favorite settings so that they can be recalled quickly by pressing a button.

Your registration memories will not be lost when the power is turned off.

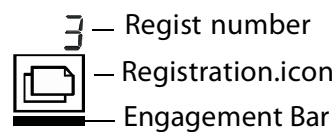


Save Your Settings In The Registration Memory

1. Set the voice, rhythm, tempo, accompaniment, reverb effect and any other parameters that you wish to save.
2. Press and hold down the USER REG button for 3 seconds. The current registration memory number is blinking.



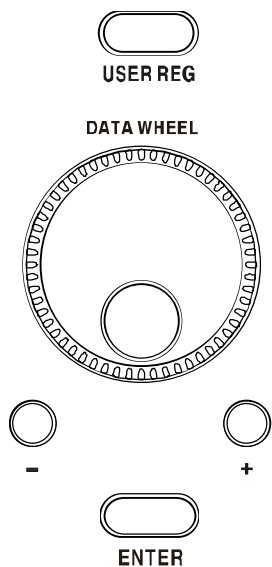
3: Regi st



3. Use the DATA WHEEL or +, - buttons to select the registration memory 1 - 10 you desire to save the settings. Press the ENTER button to confirm. Your setting will be saved into that registration memory instantly. The operation mode reverts to the voice selection and the engagement bar underneath the Registration icon disappears.

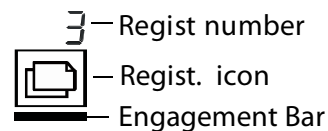
Recall Contents In The Registration Memory

1. Press and release the USER REG button to engage the registration memory mode, the engagement bar underneath the Registration Icon will appear. The current registration memory number will show above the icon. You can see the parameters such as voice, style, tempo etc updating on the display.



Main voice setting in this Registration memory

049: St r i n g s 1



2. Use the DATA WHEEL or +, - buttons to select the registration memory you desire to save the settings. Press the ENTER button to confirm. The relevant parameters will be set.

Note: There is a special registration memory numbered 0. When you call this Registration memory, it will recall all the factory default setting. You can not save your setting into this memory.

3. Press the USER REG button again, or make any individual change such as voice, style etc when a Registration memory is engaged, the Registration mode will exit. The activity mark underneath the Registration icon will disappear.

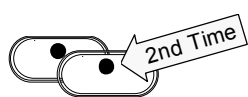
VOICE

035: Pi c k B a s s

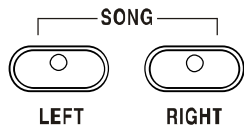
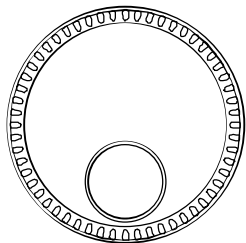


Note: whenever the engagement bar underneath the Registration Icon is on, the DATA WHEEL and +, - buttons are used to select the Registration Memory instead of setting individual parameters.

Play Along Songs



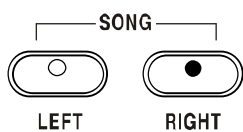
DEMO/SONG
DATA WHEEL



PLAY/STOP



PLAY/STOP



PLAY/STOP



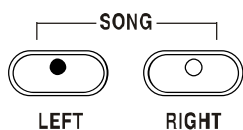
PLAY/STOP



- TEMPO +



METRONOME



LEFT

RIGHT

There are 55 songs built into the piano for your musical enjoyment and for learning purposes. These songs coincide with the included Play Along Song Book.

Engage the Song mode - Press the DEMO/SONG button twice to enter the play along song mode, its indicator will be lit and the engagement bar underneath the Play along song icon will appear. The play along song name and its song number will show on the top row of the LCD display.

03: Annie



03 - Song number

Play along song icon

Engagement Bar

You can change the song by pressing the +, - buttons or using the DATA WHEEL to input a different song number.

To Listen to the Selected Play Along Song

1. Make sure that both RIGHT and LEFT Hand LED indicators are off.
2. Press the PLAY/STOP Button to listen to the selected Song.

Playing the Play Along Songs

Right hand play along -

To Play Only with Your Right Hand.

1. Press the RIGHT button, its indicator will turn on.
2. Press the START/STOP button.

After count-in metronome sound, you can play the right hand melody notes while listening to the left hand performance.

If you want to play slower or faster than the preset tempo, press the TEMPO + or TEMPO - buttons to adjust the tempo. Press TEMPO+ and TEMPO- button simultaneously to return to the default tempo for the selected song.

You can use METRONOME button as described above.

Left hand play along -

To Play Only with Your Left Hand.

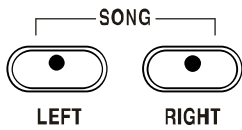
1. Press the LEFT button, its indicator will turn on.
2. Press the START/STOP button.

After count-in metronome sound, you can play the left hand notes while listening to the melody.

If you want to play slower or faster than the preset tempo, press the TEMPO + or TEMPO - buttons to adjust the tempo.

Press TEMPO+ and TEMPO- button simultaneously to return to the default tempo for the selected song.

You can use METRONOME button as described above.



Right and Left hand play along-

To play both the Right and Left Hands together

1. Press the RIGHT and LEFT buttons simultaneously, both indicators will turn on,
2. Press the PLAY/STOP or START/STOP button.

After count-in metronome sound, you can play both the Left and Right Hand Parts.

You can use TEMPO button as described above. The metronome is engaged automatically.

Note: Two measures of the count-in metronome sound are applied. The time signature is the same with the selected song. If the time signature of the song is 2/4, the count-in is four measures.

Note: Some songs have rhythm and/or orchestral auto accompaniment part. This part is not printed in the Song Book. If the selected song has auto accompaniment part, it will playback as the back ground music.

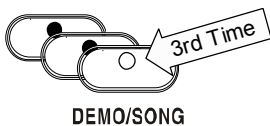
Check you progress - You will see a grading on the display as soon as you finish the performance. The grades are "Try Again", "Good", "Very good" and "Excellent".

Very Good

The same song passage will continue until you press the START/STOP button.

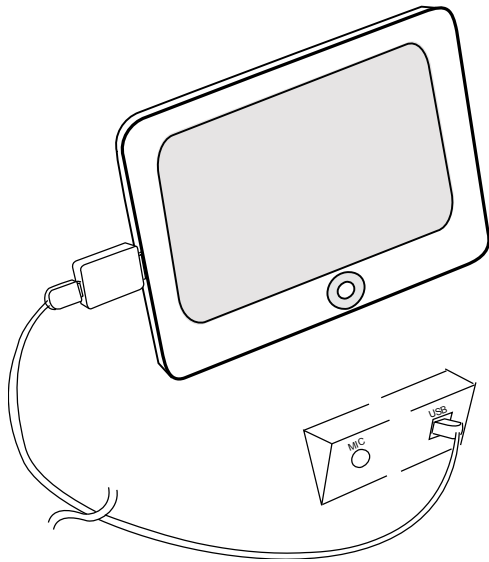
You can also hear a vocal grading. You can disable the vocal grading function in the Setup mode.

Please see the Setup section of this manual for more information.



Stop the Song Function - Press the DEMO/SONG button again to exit the Play Along Song Mode.

iPad and iPod Connection



iPad Connection -

You can connect your piano to your iPad, and convert it into a recording studio - which will probably result in a lot more practice and playing time, and also a lot more fun in the process. If you have kids who are learning piano it might make all the difference in encouraging them to practice, without it even seeming as if that's what they are doing.

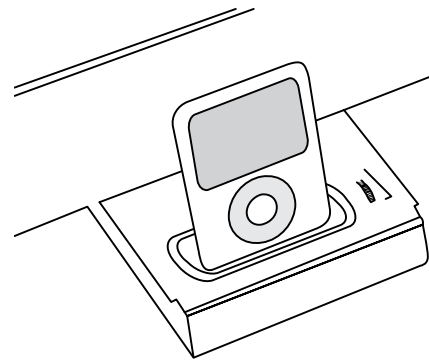
- You can download the GarageBand app, which is a virtual recording studio, and use it to record and arrange music. It is very cheap - \$4.99 usd.
- You can download software versions of different organs and synthesizers, and also drum kits, and control the sounds and parameters from the touchscreen.
- You can download from a variety of how to play piano apps, that add fun and learning to piano instruction.

iPod Connection -

The iPod docking station is located on the right hand side of the piano underneath the keyboard. The piano receives audio signal from the iPod, amplifies it and delivers through the built-in speakers of the piano.

It can be used to play along with your favorite songs from your iPod or you can use it strictly to play the music from your iPod through the Piano's sound delivery system. In a sense it is turning your Piano into a home entertainment center.

1. Pull out the iPod docking station from under the keyboard.
2. Turn the Piano's Master Volume to mid level to ensure that the initial iPod volume will not damage the Piano's sound delivery system.
3. Place your iPod onto the docking station carefully. The bottom of the iPod needs to interface with the compatible connector on the docking station.



iPod Volume -

The volume control to the right of the iPod docking cradle can be used to easily adjust the iPod's volume to match your playing volume level, while you may use the master volume control for overall volume of the piano.

The Piano's EQ controls will not affect the iPod sound output. Therefore please use the iPod's EQ to optimize the iPod's sound and tone.

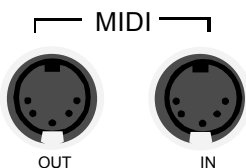
iPod Charging -

Your iPod will be charging while it is connected to your piano's iPod docking station.

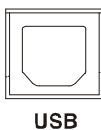
MIDI

MIDI stands for Musical Instrument Digital Interface. This is a world wide standard communication interface that enables electronic musical instruments and computers (of all brands) to communicate with each other so that instructions and other data can pass between them. This exchange of information makes it possible to create a system of MIDI instruments and devices that offers far greater versatility and control than is available with isolated instruments. Whether you interface with computers, sequencers, expanders or other keyboards your musical horizons will be greatly enhanced.

MIDI Connection - The MIDI terminals are located on the left side panel of the piano.



1. MIDI In: This terminal receives MIDI data from an external MIDI device.
2. MIDI Out: This terminal transmits data from this instrument to other MIDI devices. The transmitted data includes the note and touch velocity produced while playing on the keyboard, as well as voice changes, wheel operation, and recorded playback for the melody tracks. Demo songs and auto accompaniment are not transmitted.



USB - The USB connector allows you to connect the piano directly to your computer. It can be connected without driver installation under the Windows XP, Windows Vista, Windows 7 & MAC OSX environment. The piano will be recognized as a USB Audio device to receive and transmit the same MIDI messages described above.

MIDI Channels - The MIDI system in this unit has 16 channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives from an external device, the active channel is determined by the control message. The transmission channels on this keyboard are fixed as follows:

- Channel 1: Master voice
- Channel 2: Layer voice
- Channel 3: Split voice
- Channel 4: Bass in manual bass chord mode
- Channel 7: Chord in manual bass chord mode
- Channel 10: Percussion sound

Please see the MIDI Implementation Chart for more detail.

Note: If USB cable is connected from the piano to a computer while MIDI in is also connected to a MIDI device, you should avoid receiving MIDI message from both computer and MIDI device simultaneously.

MIDI Implementation Chart

Function		Transmitted	Recognized	Remark
Basic Channel		1 CH	1 – 16 CH	
Channel changed		1 – 16 CH	1 – 16 CH	
Default mode		X	3	
Note number		11 – 118	0 – 127	
Velocity	Note On	9N,V=1–127	9N,V=0–127	
	Note Off	X	Yes	
Pitch Bender		X	Yes	
Control Change	1	X	Yes	Modulation
	5	X	Yes	Portamento value
	7	X	Yes	Volume
	10	X	Yes	Pan
	11	X	Yes	Expression
	64,	Yes	Yes	Sustain, ,
	66	Yes	Yes	Sostenuto
	67	Yes	Yes	Soft pedal
	65	X	Yes	Portamento yes/no
	80	Yes	X	Reverb program
	81	Yes	X	chorus program
	91	Yes	Yes	Reverb send level
	92	Yes	Yes	chorus send level
	98	X	Yes	NRPNL
	99	X	Yes	NRPNH
	100	X	X	RPNL
	101	X	X	RPNH
121	Yes	Yes	Reset all controllers	
123	Yes	Yes	All notes off	
Program change		0 – 138 *	0 – 127	
System exclusive		X	X	
Sys. Common: Song select		X	X	
Song position		X	X	
System: Clock		X	X	
Real time: Commands		X	X	

Mode 1: OMNI ON, POLY

Mode 2: OMNI ON, MONO

Mode 3: OMNI OFF, POLY

Mode 4: OMNI OFF, MONO

* Including some special voices.

Voice List

No.	Name	Display	No.	Name	Display
PIANO			S		
001	Acoustic Grand Piano	Gr.Piano	041	Violin	Violin
002	Bright Acoustic Piano	Br.Piano	042	Viola	Viola
003	Electric Grand Piano	E.GPiano	043	Cello	Cello
004	Honky-Tonk Piano	Hky.Tonk	044	Contrabass	Contra
005	Electric Piano 1	E.Piano1	045	Tremolo Strings	TremStrg
006	Electric Piano 2	E.Piano2	046	Pizzicato Strings	Pizzicto
007	Harpsichord	Harpsi	047	Orchestral Harp	Harp
008	Clavichord	Clavi.	048	Timpani	Timpani
CHROMATIC PERCUSSION			ENSEMBLE		
009	Celesta	Celesta	049	String Ensemble 1	Strings1
010	Glockenspiel	Glock	050	String Ensemble 2	Strings2
011	Music box	Musicbox	051	Synth Strings 1	SynStrg1
012	Vibraphone	Vibes	052	Synth Strings 2	SynStrg2
013	Marimba	Marimba	053	Choir Aahs	ChoirAah
014	Xylophone	Xylophon	054	Voice Oohs	VoiceOoh
015	Tubular Bells	TubBells	055	Synth Voice	SynVoice
016	Dulcimer	Dulcimer	056	Orchestra Hit	Orch Hit
ORGAN			BRASS		
017	Drawbar Organ	DrawOrgn	057	Trumpet	Trumpet
018	Percussive Organ	PercOrgn	058	Trombone	Trombone
019	Rock Organ	RockOrgn	059	Tuba	Tuba
020	Church Organ	ChrcOrgn	060	Muted Trumpet	MuteTrum
021	Reed Organ	ReedOrgn	061	French Horn	FrenchHr
022	Accordion	Acordion	062	Brass Section	Brass
023	Harmonica	Harmnica	063	Synth Brass 1	SynBras1
024	Tango Accordion	TangoAcD	064	Synth Brass 2	SynBras2
GUITAR			REED		
025	Acoustic Nylon Guitar	NylonGtr	065	Soprano Sax	SprnoSax
026	Acoustic Steel Guitar	SteelGtr	066	Alto Sax	Alto Sax
027	Electric Jazz Guitar	JazzGtr	067	Tenor Sax	TenorSax
028	Electric Clean Guitar	CleanGtr	068	Baritone Sax	Bari Sax
029	Electric Muted Guitar	MuteGtr	069	Oboe	Oboe
030	Overdriven Guitar	Ovrdrive	070	English Horn	EnglHorn
031	Distortion Guitar	Distortd	071	Bassoon	Bassoon
032	Guitar Harmonics	Gtr Harm	072	Clarinet	Clarinet
BASS			PIPE		
033	Acoustic Bass	AcstBass	073	Piccolo	Piccolo
034	Electric Bass (finger)	FngrBass	074	Flute	Flute
035	Electric Bass (pick)	PickBass	075	Recorder	Recorder
036	Fretless Bass	Fretless	076	Pan Flute	PanFlute
037	Slap Bass 1	SlapBas1	077	Bottle Blow	Bottle
038	Slap Bass 2	SlapBas2	078	Shakuhachi	Shakhchi
039	Synth Bass 1	SynBass1	079	Whistle	Whistle
040	Synth Bass 2	SynBass2	080	Ocarina	Ocarina

No.	Name	Display
SYNTH LEAD		
081	Lead 1 (square)	SquareLd
082	Lead 2 (sawtooth)	SawLd
083	Lead 3 (caliope lead)	CaliopLd
084	Lead 4 (chiff lead)	ChiffLd
085	Lead 5 (charang)	CharanLd
086	Lead 6 (voice)	VoiceLd
087	Lead 7 (fifths)	FifthLd
088	Lead 8 (bass + lead)	Bass+Ld
SYNTH PAD		
089	Pad 1 (new age)	NewAgePd
090	Pad 2 (warm)	WarmPad
091	Pad 3 (polysynth)	PolySyPd
092	Pad 4 (choir)	ChoirPad
093	Pad 5 (bowed)	BowedPad
094	Pad 6 (metallic)	MetalPad
095	Pad 7 (halo)	HaloPad
096	Pad 8 (sweep)	SweepPad
SYNTH EFFECT		
097	FX 1 (rain)	Rain
098	FX 2 (soundtrack)	SoundTrk
099	FX 3 (crystal)	Crystal
100	FX 4 (atmosphere)	Atmosphr
101	FX 5 (brightness)	Brightns
102	FX 6 (goblins)	Goblins
103	FX 7 (echoes)	Echoes
104	FX 8 (sci-fi)	SciFi
ETHNIC		
105	Sitar	Sitar
106	Banjo	Banjo
107	Shamisen	Shamisen
108	Koto	Koto
109	Kalimba	Kalimba
110	Bagpipe	Bagpipe
111	Fiddle	Fiddle
112	Shanai	Shanai
PERCUSSIVE		
113	Tinkle Bell	TnklBell
114	Agogo	Agogo
115	Steel Drums	Stl Drum
116	Woodblock	WoodBlok
117	Taiko Drum	TaikoDrm
118	Melodic Tom	MelodTom
119	Synth Drum	SynthDrm
120	Reverse Cymbal	RevCymbL

No.	Name	Display
SOUND EFFECT		
121	Guitar Fret Noise	FretNoiz
122	Breath Noise	BrthNoiz
123	Seashore	Seashore
124	Bird Tweet	Tweet
125	Telephone Ring	Telephone
126	Helicopter	Helicptr
127	Applause	Applause
128	Gunshot	Gunshot

Note: For voices from 001 - 128 in the table, the “ No.” is the displayed voice number. The MIDI program number for any voice listed is one less than the display number. For example voice 001 Acoustic Grand Piano MIDI program number is 000, voice 002 Bright Acoustic Piano MIDI program number is 001, and so forth.

More ethnic Asian Instruments have been added to the voice list as shown below.

Asian Folk Instruments				
No.	Name	Display	Prog. Change	Bank
129	Yangqin	Yangqin	15	1
130	Sanxian	Pipa	106	1
131	Zheng	Zheng	107	1
132	Erhu	Erhu	110	1
133	Banhu	Banhu	0	1
134	Suona	Suona	1	1
135	Sheng	Sheng	2	1
136	Dizi	Dizi	3	1
137	Erhu + Yangqin	Erhu-Yan	7	1
138	Dizi + Zheng	Dizi-Zhe	11	1

Note: When the touch sensitivity is in the “ Soft,” “ Normal,” or “ Hard,” mode, voice No. 137 will sound as Erhu when a key is struck softly, and as Yangqin when the key is struck hard. If the touch response is fixed, voice No. 137 will always sound as Yangqin.

Voice No. 138 will sound as Zheng when a playing keys below C4, and as Dizi when playing key C4 and above.

Style List

No.	Name	Display
BIG BAND		
01	Big Band	Big Band
02	Miller Band	MillerBd
03	LatinBigBand	LatinBnd
04	Broadway	Broadway
05	Hollywood	Hollywod
06	Orch. Waltz	OrchWltz
07	Jazz Waltz	JazWaltz
08	Jazz Band	JazzBand
BOSSA		
09	Cool Bossa	CoolBosa
10	Pop Bossa	PopBossa
11	Fast Bossa	FastBosa
12	Bossa Nova	BosaNova
13	Samba	Samba
14	Salsa	Salsa
15	Tango	Tango
16	Merenque	Merenque
SWING		
17	Swing Trio	SwngTrio
18	Solo Swing	SoloSwng
19	SwinginOrgan	SwngOrgn
20	Slow Swing	SlowSwng
21	Bacharach	Bacharac
22	Dixie	Dixie
23	Lounge	Lounge
24	Jazz	Jazz
25	Swing	Swing
S. BALLAD		
26	50' s Ballad d	50Ballad
27	Bolero	Bolero
28	CntryBallad1	CntyBld1
29	CntryBallad2	CntyBld2
30	Pop Ballad	PopBalad
31	Power Ballad	PwrBalad
32	Slow 16	Slow 16
33	GospelBallad	GspBalad
34	Jazz Ballad	JzBallad

No.	Name	Display
R & B		
35	Shuffle Blues	ShufBlue
36	Soul Shuffle	SoulShuf
37	Gospel Fast	GsplFast
38	Gospel Blues	GsplBlue
39	Calypso	Calypso
40	Reggae 1	Reggae 1
41	Reggae 2	Reggae 2
42	R&B Shuffle	RBShufle
43	R & B	R & B
44	Motown	Motown
45	70' s Disco	70sDisco
ACOUSTIC		
46	Unplugged 1	Unplug 1
47	Unplugged 2	Unplug 2
48	Unplugged 3	Unplug 3
49	Solo Pop	Solo Pop
50	Baroque	Baroque
51	New Age	New Age
52	Kids 1	Kids 1
53	Kids 2	Kids 2
54	March 4/4	March4/4
55	March 6/8	March6/8
56	March	March
POP		
57	Florida Keys	FldrKeys
58	Funky Pop	FunkyPop
59	Pop 16	Pop 16
60	8 Beat Pop	8BeatPop
61	Piano Pop	PianoPop
62	Country Pop	CntryPop
63	Easy Pop	Easy Pop
64	Pop 8 Beat	Pop8Beat
65	Movie Theme	MovTheme
66	Dance Pop	DancePop
67	Folk	Folk
68	Disco	Disco

No.	Name	Display
OLDIES		
69	Stride Piano	StridPno
70	Ragtime	Ragtime
71	Hawaiin	Hawaiin
72	Hula	Hula
73	Solo Boogie	SoloBoog
74	Vienna Waltz	VienWltz
75	Fox Trot	Fox Trot
76	WesternMovie	WstrnMovi
77	Boogie	Boogie
78	Classic Piano	ClasscPno
79	Mueset Waltz	MuesWltz
80	P. Showtime	Showtime
ROCK		
81	Rock N Roll	RocknRol
82	Jerry Lee	JerryLee
83	Bluegrass	Blugrass
84	Slow Blues	SlowBlue
85	Blues	Blues
86	Country 2/4	Cntry2/4
87	CountryPiano	CntryPno
88	CountryTrain	CntryTrn
89	Mod. Country	ModCntry
90	Country	Country
91	CountryWaltz	CntryWtz
LATIN		
92	Mambo Band	MambBand
93	Beguine	Beguine
94	Cha Cha 1	Cha Cha 1
95	Cha Cha 2	Cha Cha 2
96	Rhumba 1	Rhumba 1
97	Rhumba 2	Rhumba 2
98	Mex Polka	MexPolka
99	Polka 1	Polka 1
100	Polka 2	Polka 2

Specifications

Keyboard	88 Key, Advanced Balanced Graded Hammer Action, Velocity Sensitive
Sound Source	Stereo Deluxe Instrument Samples
Polyphony	64 Note Polyphony
Preset Tones	128 GM (General MIDI Voices) plus 10 asian instrument voices
Voice Mode	Main, Layer (Dual), Lower (Split)
Rhythm Styles	100 Styles with Variations, Start/Stop, Synchro, Fill In , Intro/Ending
Accompaniment	Auto Bass Chord with Single, Fingered and Piano fingering Mode
Controls	Master Volume, Accompaniment Volume, Tempo (+,-), Transpose
Touch Control	Soft, Normal, Hard, Fixed
Play Alone Song	55 songs, right, left and both hands playing with grading feature
Digital Sound Effects	Digital Reverb and Chorus (Various Types)
Equalizer	10 preset types
Metronome	Tempo Range 40 to 240
Registration	10 Registration Memories
Setup	Master Tune, Equalizer, Reverb and Chorus type, Reverb and Chorus level, Split points, Harmony type, Touch Control, Local, Vocal Grading, LCD Contrast, Reset
Recorder	3 Track, 4 User songs,
SD Card	Support SMF Format, Paly all, Save, Repeat playing mode, Delete
Pedals	Sustain, Sustenuto, Soft
Speakers	6 Speaker, Stereo Sound Delivery System
Power Output	60W x 2
Connections	Mic Input, Headphone Jack, Audio In, Audio Out, A/C In, MIDI In/Out, USB Port, iPod Docking Station
Display	Back lit LCD, Access and Menu Screens
Finish	High Gloss Black
Dimensions	55 W x 30 D x 35.5 H (inches)
Weight	165 lbs.
Included Hardware	Matching Bench, Power Cable, Owner's Manual, Demo SD Card, USB Cable

Specifications subject to change without notice

