

AG-30 Micro Grande Digital Piano
AG-50 Baby Grande Digital Piano

Owner's Manual



artesia Pianos

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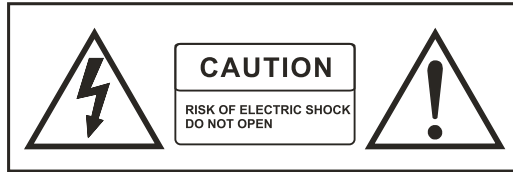
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Precaution

Thank you for purchasing this digital instrument. For correct use, please read the manual carefully and keep it for future reference. please read the manual carefully and keep it for future reference.

Safety Precautions



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.

Important Safety Instructions



(Figure 1)

- 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, and 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 prong is 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 (Figure 1) .
- 13) Unplug this apparatus during lightning storms or when unused over a long period 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.

WARNING: To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

CAUTION: Equipment must not be exposed to liquid dripping or splashing and also no objects filled with liquids, such as vases, or beverages may be placed.

Always make sure all batteries are inserted the correct way around to match the +/- polarity markings.

Always replace all of the batteries at the same time. Do not combine old and new batteries, also do not mix battery types, as this can cause overheating, or fire, or battery fluid leakage.

Remove the batteries from the instrument if it is not to be used for a long time.

Thanks for Using Our digital piano

Your piano is a high quality digital piano featuring an 88 Standard touch sensitive keyboard and the most advanced PCM tone generation technology that combined will provide you with a rich performing and playing experience. You can also record your own performances or record your own accompaniment to play along to. To get the most out of your instrument, please read this manual thoroughly and try out the various functions as we take you through them.

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TAKING CARE OF YOUR DIGITAL PIANO

This digital piano will supply you with years of musical enjoyment if you follow the simple rules listed below.

SERVICE AND MODIFICATION

Do not attempt to open the piano or make any change in the circuits or parts of the unit. This product should be serviced by qualified service personnel when;

- The power supply cord or the plug has been damaged,
- Liquid has been spattered into the unit or it has been exposed to rain,
- The instrument does not appear to operate normally or exhibits a marked change in performance,
- The instrument has been dropped or the cabinet has damaged.

HANDLING AND TRANSPORT

- Never apply excessive force to the controls, connectors or other parts of the instrument.
- Always unplug cables by gripping the plug firmly, not by pulling on the cable.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument can result in scratches and/or more serious damage.
- Avoid placing vinyl objects on top of the instrument, vinyl can stick to and discolor the surface.

CLEANING

- Clean the cabinet and panel with a soft, nonabrasive, dry cloth. A wax based polish may be used on the cabinet. Do not use paint thinner or chemical based polishes.
- To maintain the luster of the keys and buttons wipe with a clean, slightly damp cloth, and then polish with a soft dry cloth.

LOCATION

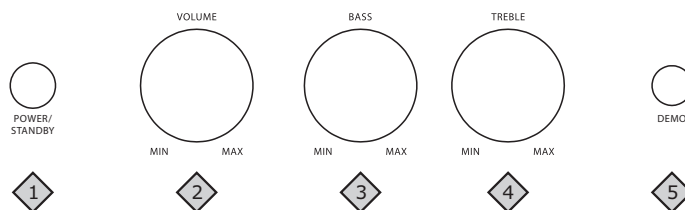
- Direct sunlight (near a window)
- High temperatures (near a heat source, outside, or near a window)
- Excessive humidity
- Excessive dust
- Strong vibration
- Leave enough space around the piano for it to be properly ventilated.
- This instrument contains digital circuitry and may cause interference if placed too close to radio or television receivers. If interference occurs, move the instrument further away from the affected equipment.

POWER

- Turn the power switch off when the instrument is not in use.
- To avoid damage, turn the power switches of all related devices off prior to connection or disconnection of MIDI cables.
- Turn the power off if the main cable is damaged or the instrument is spattered with liquid.
- Do not switch the unit on and off in quick succession, this places an undue load on the electronic components.
- Unplug the AC power cord during an electrical storm.
- Avoid plugging the AC power cord into the same outlet as appliances with high power consumption, such as electric heaters or refrigerators.
- Carefully check the amplifier volume control before starting to play. Excessive volume can cause permanent hearing loss.

PANEL CONTROLS

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. POWER / STANDBY:

The power switch is located to the left of the keys. Press the button to turn the power on and off. The LCD screen, and the indicator lights for the start up settings, will light up when the power is turned on.

This piano is equipped with an automatic power off feature, the piano will shut off automatically after a set time of inactivity. The default time setting is off, the Auto Power Off Time can be changed in the Function menu.

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

Please 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.

2. VOLUME:

1 Use this button to adjust the overall master volume of the keyboard to your desired level. Turn to the right to increase the volume and turn to the left to decrease the volume. Please note, at higher volumes there may be audio "clipping" or distortion depending on the frequencies being played. Please reduce the volume if this occurs.

Please also note, the keyboard and accompaniment volumes can adjusted independently from each other by using the KB.VOL \leftarrow/\rightarrow and ACCOMP \leftarrow/\rightarrow buttons.

3. BASS:

With the bass tone knob you can adjust the sound of your piano to the room or according to your preferences. As a starting point, set both controls to their neutral 12 o'clock position. If you want more bass sound turn the bass control to the right and if you want less bass sound turn it to the left.

4. TREBLE:

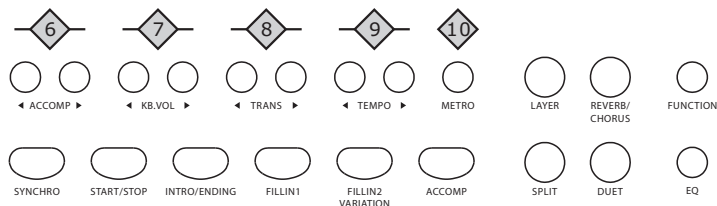
With the treble tone knob you can adjust the sound of your piano to the room or to your taste. As a starting point, set both controls to their neutral 12 o'clock position. If you prefer a brighter sound turn the treble control to the right, if you prefer a more "rounded" tone turn the treble control to the left.

5. DEMO:

Press the DEMO button, the indicator turns on and the first of the ten different demonstration songs will play.

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

PANEL CONTROLS



6. ACCOMP ◀▶:

Press the ACCOMP ◀▶ buttons to adjust the volume of rhythm style and the auto accompaniment only, the keyboard instrument voice will not be affected.

7. KB.VOL ◀▶:

Press the KB.VOL ◀▶ buttons to adjust the main volume, you can also adjust the split/ layer/ learn and USB song volume.

Please see the ADJUSTING THE KEYBOARD VOICE VOLUME.

8. TRANS ◀▶:

Press the TRANS ◀▶ buttons to adjust the transpose.

Please see the function section of the manual for more information.

9. TEMPO ◀▶:

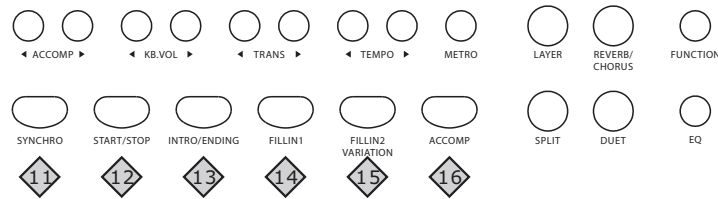
Press the TEMPO ◀▶ buttons to select the tempo value, the current tempo value will appear on the display.

10. METRO:

The metronome is a convenient feature for practice, and can also provide a solid rhythmic guide when recording. The METRONOME button toggles the metronome feature on and off. Press the metronome button to hear the tempo & beat.

Use the METRO button and the +/YES and the -/NO buttons to select the beat of your choice; 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 7/8, 9/8 or 12/8.

PANEL CONTROLS



11.SYNCHRO:

Synchronized Start sets the auto accompaniment into standby mode. The rhythm style will start as soon as you play on the left hand side of the keyboard. With auto accompaniment engaged the rhythm style will start as soon as you play on the left hand side of the keyboard and the auto accompaniment will start with the first recognized chord played, depending on which fingering mode is selected. Pressing the SYNC START button again will stop the auto accompaniment and put the keyboard back on standby mode.

12.START/STOP:

The START/STOP button immediately starts or stops the selected rhythm style. The auto accompaniment will start with the first recognized chord played depending on the fingering mode selected.

13.INTRO/ENDING:

Each of the 100 rhythm styles can be started or finished with a detailed introduction and/or ending pattern. When INTRO/ENDING is engaged, an introduction of rhythm pattern will sound followed by the main pattern. When a rhythm or accompaniment pattern is already playing, the accompaniment will be professionally completed with an ending pattern from the next measure by pressing the INTRO/ENDING button.

14.FILL IN 1:

The fill-in feature provides the accompaniment with a short rhythm pattern of one or two measures for each style. Press the FILL IN1 button at any time while the accompaniment is playing to add a fill. If you hold down the FILL IN1 button, the fill pattern will repeat until the button is released, and then the main pattern will resume from the beginning of the next measure. The FILL buttons can also be used to start a rhythm style.

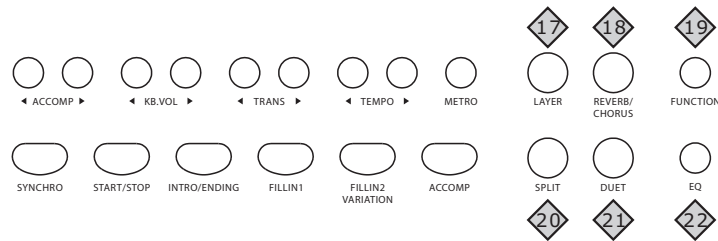
15.FILL IN 2 VARIATION:

The 100 rhythm styles and their corresponding auto accompaniments all include a variation of that style and accompaniment that can be heard simply by engaging the FILL IN 2 VARIATION button. Press the FILL IN 2 VARIATION button and the fill variation will play followed by the variation of the selected rhythm style. The FILL buttons can also be used to start a rhythm style. Press the FILL IN 1 button again to disengage the variation and return to the main pattern after the fill.

16.ACCOMP:

Press this button to close or open the chord.

PANEL CONTROLS



17.LAYER:

Pressing the LAYER button will put the keyboard in the layer or dual mode. Layer refers to an additional voice that is tone mixed with the main selected keyboard voice. The assigned layer voice will be heard with the original voice when the keys are played. Please see the Keyboard Voices section of this manual for more information.

18.REVERB/CHORUS:

Press REVERB/CHORUS enter the effect setting, than press ▲ ▼ buttons to select a Sub interface, use the +YES/-NO to change the value. Please see the Function section of this manual for more information.

19.FUNCTION:

The FUNCTION button is used to access the function menu. The function menu can be used to adjust or change the values of a number of settings. Please see the Function section of this manual for more information.

20.SPLIT:

With the split feature engaged the keyboard operates in the split or lower mode. In the split mode the keyboard is divided into two sections. In the right hand section the main or layered voice will sound, and in the left hand section a different voice can be assigned to sound when the keys are played. Please see the Keyboard Voices section for more information.

21.DUET:

With the duet feature engaged the keyboard is divided into two sections, left A1-C3 and right C#3-C7 that have the exact same notes. The two sections will share the same voice and volume. This is a great feature for teaching or when two people want to play the piano simultaneously.

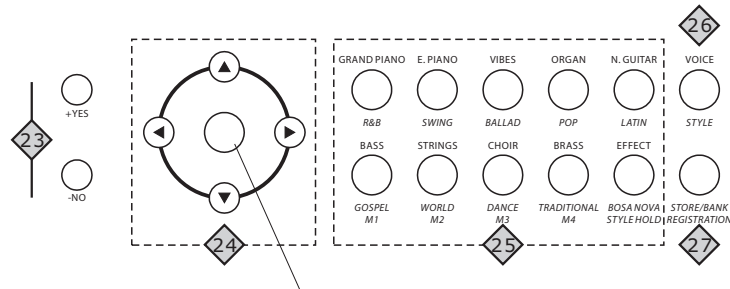
Please see the Keyboard Voices section for more information.

Please note, engaging the DUET feature will disable the Layer, the Split and the Auto Accompaniment modes.

22.EQ:

Press this button enter the equalizer interface. Please see the Equalizer section for more information.

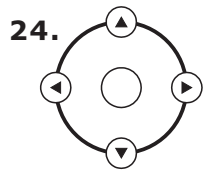
PANEL CONTROLS



Note: this is the OK button

23. +YES/-NO:

Use the +/YES or -/NO buttons to access different options of selected features and functions.



24.

Use the buttons to selected features and functions. Use the OK button to confirm a selection of a feature button and to confirm selections within the function menu.

25. QUICK SELECT VOICE/STYLE:

There are 10 instrument voices that can be selected quickly by pressing one of the quick select voice/style buttons, The voice name is printed above the select button and the style name is printed under the select button. Press the select button, the indicator will light and the selected voice or style name and its number will be shown on the display.

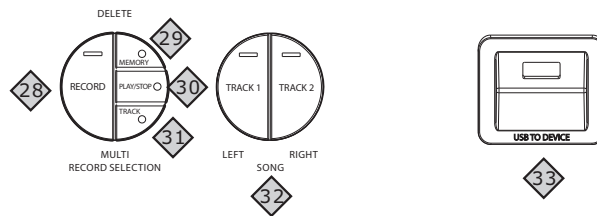
26. VOICE/STYLE:

Press VOICE/STYLE button to switch between voice and style, the light not bright is said to choose the voice, the light bright is said to choose the style. There is a complete list of all 137 voices and 100 styles listed in the back of the manual.

27. STORE/BANK REGISTRATION:

Press STORE/BANK REGISTRATION button enter registration memory interface. Please see the Registration memory section for more information.

PANEL CONTROLS



28. RECORD:

The RECORD button is used to engage the recording mode to record your playing. This unit is able to record one song internally, with a 2-melody track sequencer. All note events will be recorded exactly as they are performed. This recorded information will not be lost when the power is turned off and can be saved to a USB drive. Please see the Record section of this manual for more information

29. MEMORY:

The MEMORY button is used to access and engaged USB flash drive. Please see the USB section of this manual for more information.

30. PLAY/STOP:

Press the PLAY/STOP button to hear your selected recorded tracks when in the Record mode, the Play Along Songs when in the Play Along Songs Music Teacher mode and the recorded USB data when the MEMORY button is engaged and a USB drive with MIDI files is connected. Press the PLAY/STOP button again to stop any playback.

31. TRACK:

When recording to USB use this TRACK button to select recording tracks. Please see the Record and USB section of this manual for more information

32. TRACK 1/SONG LEFT, TRACK 2/SONG RIGHT:

When in the melody recording mode these indicators will be lit when the corresponding tracks are selected. Use the TRACK button(s) to choose which track(s) to record in or to playback.

Please see the Record section of this manual for more information These buttons are also used in conjunction with the play along songs music teacher. When the SONG LEFT and SONG RIGHT buttons are pressed simultaneously the Play Along Song music teacher mode will be engaged or disengaged. This feature can be used as an aid to learn the 55 songs built into the piano. These songs are split into left hand accompaniment and right hand melody portions. The SONG LEFT and SONG RIGHT buttons are used to choose which portion(s) of the song to play.

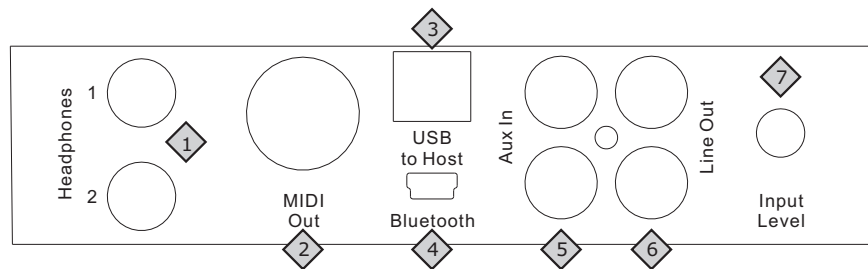
Please see the Play Along Song section of this manual for more information.

Please note, indiscriminate pressing of the RECORD SELECTION and the SONG/TRACK buttons can overload the piano and cause the circuits to jam. In the event of that occurrence you may need to turn the piano off to reset the circuits.

33. USB TO DEVICE:

On the far right side of the piano is the USB TO DEVICE port. When you insert your USB flash drive into this USB terminal you can record your performances and save your registrations to the USB drive, or play MIDI songs from a USB.

CONNECTOR PANEL



1 HEADPHONES 1 & 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 1 are plugged into either of these jacks the internal speaker system is turned off.

Please note, using headphones at high volume levels may cause permanent hearing damage.

2 MIDI OUT: This piano contains a MIDI output port that transmits MIDI data to another MIDI device allowing communication with other products equipped with MIDI interfaces. Connect the piano's MIDI Out to another device's MIDI In to transmit MIDI data to that device. Please see the MIDI section of this manual for further details.

3 USB TO HOST: USB is a digital audio interface. The USB connector allows you to connect the piano directly to your computer's USB port by USB cable. This allows you transfer MIDI information over USB to a computer. This piano is USB Class Compliant, therefore there is no need to install a driver. Just plug it in and the OS will do the rest. The piano will work with all standard MIDI based computer software.

♪**Please note,** for recording and listening to MIDI files use the USB TO DEVICE dock located on the right side of the control panel.

♪**Please also note,** 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 7 and MAC OSX environment. The piano will be recognized as USB audio device to receive and transmit MIDI messages.

4 BLUETOOTH: Plug the tiny Bluetooth receiver unit into the allotted slot on the connector panel to stream audio from any Bluetooth device.

Turn the Bluetooth capability on and off in the Function menu.

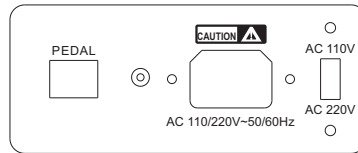
Please see the Bluetooth section of this manual for more information.

5 AUX IN: These stereo RCA 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 players, MP3 player or Cassette player. The audio output from the other sound system can be mixed with the sound of the piano, this function is convenient for playing along to a favorite song.

6 LINE OUT: These stereo RCA line audio output jacks supplies the piano's output signal to external amplification, such as home stereo, PA system or keyboard amplifier or to send to a mixing console or tape recorder. The piano's internal sound system will remain on unless headphones are plugged into either headphone jack.

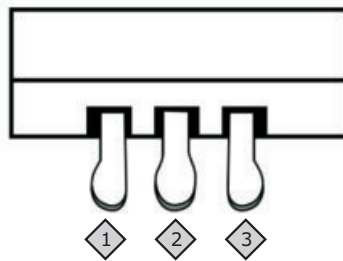
7 INPUT LEVEL: Use this control knob adjusts the Aux In signal level for the piano. Turn the knob clockwise to increase the level and counterclockwise to decrease the level.

BOTTOM OF PIANO



PEDAL

This piano is complete with three function pedals.



1. SOFT PEDAL:

When the left soft 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 are pressed and already sounding will continue to sustain and the notes will decay gradually after they are released. Keys that are played after the pedal has been pressed are not affected.

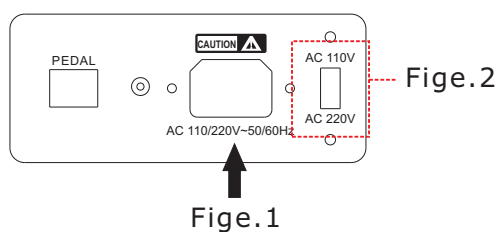
3. SUSTAIN PEDAL:

Like the damper pedal on an acoustic piano the the right sustain, or damper, pedal will sustain the sound of the piano voice after releasing the piano keys while engaged. The length of sustain time is determined by the amount of pressure used to depress the pedal.

AC110V/220V

Connection for the AC power(Fige.1)

You can switch between AC110V and AC220V(Fige.2).





DEMO

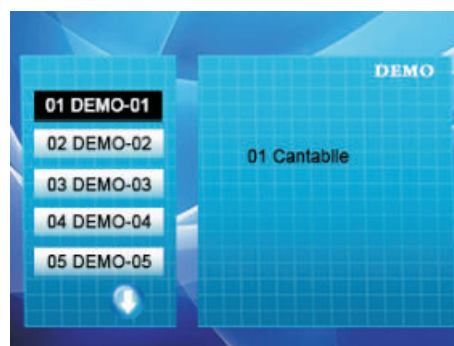
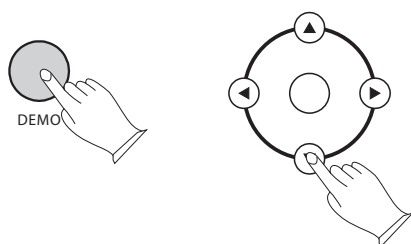
This piano has ten different demonstration or demo songs that are designed to showcase the different sampled voices that are available.

PLAY DEMO SONGS

1. Press the DEMO button, the indicator light will blink and the first demo song will play. The demo song and number will appear on the display and will change as the subsequent songs play. This piano has ten demo songs that will all play in sequence.
2. Press the DEMO button again to stop the demonstration.



CHOOSE A DEMO SONG

1. Press the DEMO button.
2. Use the   buttons to change songs while the demo is playing.
3. Press the DEMO button again to stop the demonstration.

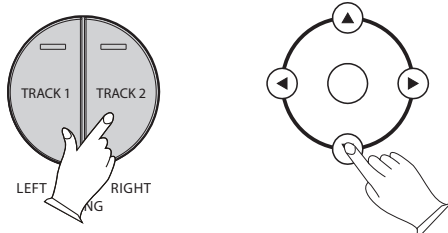


PLAY ALONG SONGS DEMO

There are 55 songs for the Play Along Song music teacher feature that can also be played back for demonstration.

1. Press the LEFT and RIGHT SONG buttons simultaneously to enter the music teacher feature. The PLAY/STOP and DEMO button indicator lights will flash and the display will show the first play along song.
2. Use the   buttons to change songs (before or while the demo is playing).
3. Press the DEMO button to start the song.
4. Press the DEMO button again to stop the demonstration, and press the LEFT and RIGHT SONG buttons simultaneously again to exit the play along song music teacher mode.

Please see the Play Along Song section of the manual for more information.



KEYBOARD VOICES

This piano offers 137 GM (General MIDI) authentic acoustic instrument voices offering unmatched realism with digital effects to further enhance the sound.

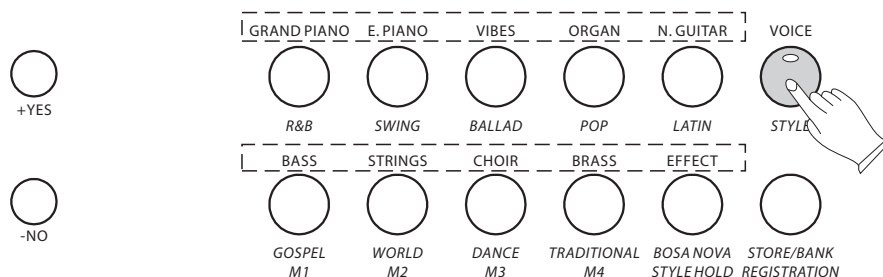
Please see the complete list of all 137 voices in the Voice List at the back of this manual. Please note, the keyboard and accompaniment volumes can be adjusted independently from each other and the master volume by using the KB.VOL and/or ACCOMP buttons.

VOICE SELECT

QUICK SELECT VOICE BUTTONS

There are ten voices that can be selected quickly by pressing one of the voice select buttons: GRAND PIANO/ E.PIANO/ VIBES/ ORGAN/ N.GUITAR/ BASS/ STRINGS/ CHOIR / BRASS/ EFFECT. The voice name is printed above the select button.

- 1.If needed press the VOICE/STYLE button to select voice.(The indicator will be unlit when VOICE is selected)
- 2.Press the voice select button that corresponds to the desired voice. The voice name and its number will show on the display and the newly selected voice is available for playing.



- 3.You can also use the +/YES,-/NO buttons to select voice.

SELECTING ONE OF THE 137 VOICES

- 1.Press the VOICE/STYLE button to select voice.(The indicator will be unlit when VOICE is selected)
- 2.Press the OK button.
- 3.Use the buttons to select a voice group(Fig.1), press OK button again.
- 4.Use the buttons to select the voice(Fig.2), press OK button to enter. The newly selected voice name and number will be on the screen and that voice is selected for playing on the keyboard.

Please refer to the Voice List at the back of the manual for a list of all available voices.



Fig.1



Fig.2

KEYBOARD VOICES

ADJUSTING THE KEYBOARD VOICE VOLUME

There are two ways to adjust the keyboard voice volume.

First method

1. Select the VOLUME module on the main interface (Fig.1), press OK button to enter.
2. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select main volume / split volume / layer volume / learn volume / USB song volume. Then use +YES/-NO buttons or KB.VOL \leftarrow / \rightarrow buttons to adjust the volume (Fig.2).
3. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the EXIT and press OK button to return to the main interface.

Second method

1. Press the KB.VOL \leftarrow / \rightarrow buttons to enter the VOLUME MIXER interface.
2. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select main volume / split volume / layer volume / learn volume / USB song volume. Then use +YES/-NO buttons or KB.VOL \leftarrow / \rightarrow buttons to adjust the volume.
3. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the EXIT and press OK button to return to the main interface.



Fig.1

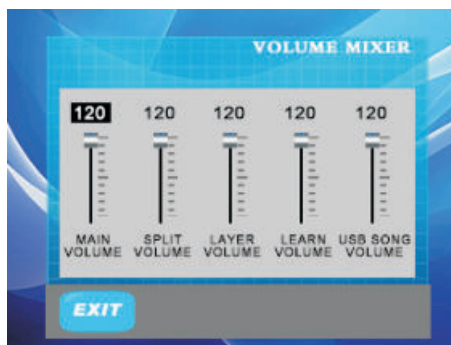


Fig.2

KEYBOARD VOICES

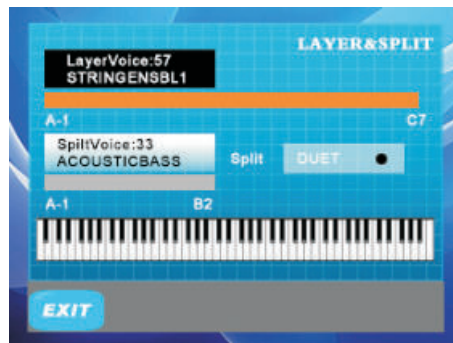
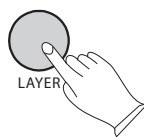
LAYER VOICE

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. If you need to adjust ratio of the layered to main voice volume, adjust the main voice volume using the KB. VOL button, this will not affect the layer voice.

1. Press the LAYER button, the currently assigned layer voice will show on the display, and the indicator will light up signaling that the layer feature is engaged (Fig. 1).
2. Use the +/YES, -/NO buttons to select the desired layer voice.
3. Use the ▲ ▼ ◀ ▶ buttons to select the EXIT and press OK button to return to the main interface.
4. Press the LATER button to turn the layer feature off, the indicator will go out.

If the LAYER button indicator is lit, the layer feature is engaged.

Please also note, engaging the DUET feature will disable the Layer and Split modes.



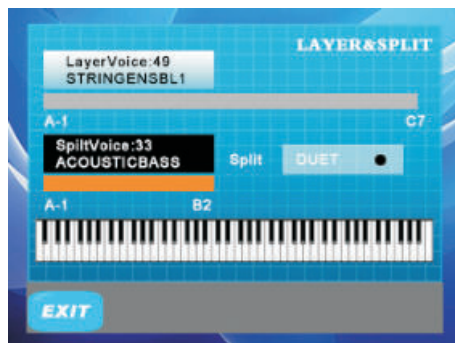
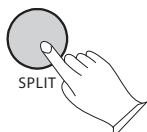
KEYBOARD VOICES

SPLIT VOICE

In the split or lower mode the keyboard is divided into two sections. To the right of the split point the currently selected main voice or the layered voices, will sound. The keys to the left of the split point can be assigned to play a different instrument voice. If you need to adjust ratio of the split to main voice volume, adjust the main voice volume using the KB. VOL button, this will not affect the split voice. The default split point for voice is the B2 key. It can be changed in the Function menu, please see the Function section for more informations.

1. Press the SPLIT button, the currently assigned split voice will show on the display.
2. While the indicator is lit, use the +/YES, -/NO buttons to select the desired split voice
The display will show the split voice number and name.
3. Use the ▲▼◀▶ buttons to select the EXIT and press OK button to return to the main interface.
4. Press the SPLIT button to turn the split feature off, the indicator will go out.

If the SPLIT button indicator is lit, the split (lower) feature is engaged.



KEYBOARD VOICES

REVERB/CHORUS

This piano has two digital effects to further enhance the keyboard voice sounds, reverb and chorus.

REVERB

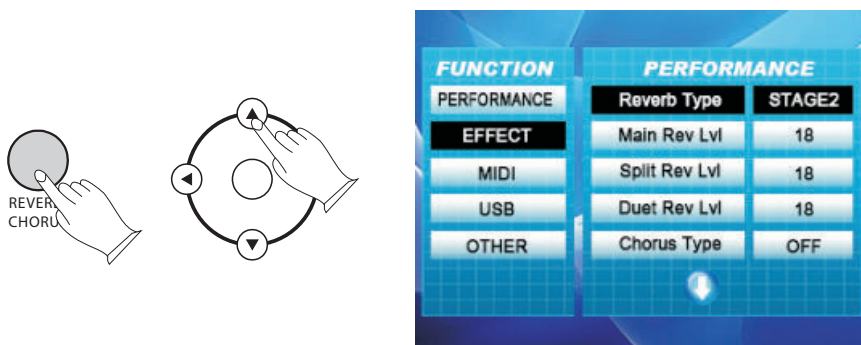
Reverb simulates the effect of playing in a big room or a hall where the sound reverberates off the walls and ceiling. The reverb effect is engaged automatically when the piano is turned on.

Press the REVERB/CHORUS button to turn the reverb effect off and the indicator will go out. Switch the reverb feature on and off by pressing the REVERB button.

There are eight reverb effects available: 1-Hall1, 2-Hall2, 3-Room1, 4-Room2, 5-Room3, 6-Stage1, 7-Stage2 and 8-Plate.

1. Press the REVERB/CHORUS button twice, so that the EFFECT type is shown in the display.
2. Use the ▲▼ buttons to select REVERB TYPE (Fig. 1).
3. Use the +/YES, -/NO buttons to select a reverb type.

The reverb level for the main, split and layer voices can be changed in the function menu. Please see the Function section for more information.



(Fig.1)

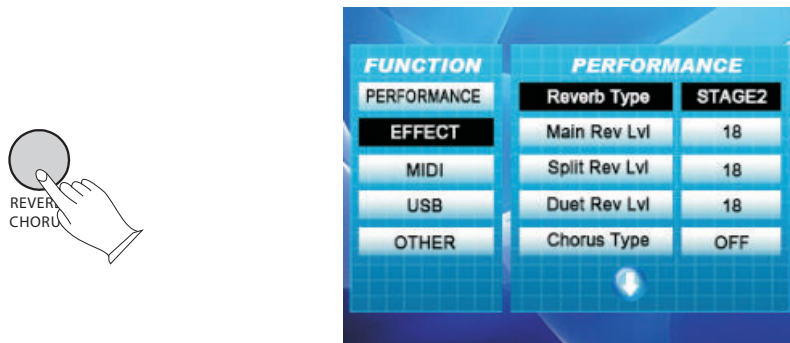
CHORUS

The Chorus effect adds depth and spaciousness to the selected keyboard voice. Press the REVERB/CHORUS button to engage the chorus effect and the indicator will light up. Press the button again to turn off the chorus effect. The chorus setting does not affect the auto accompaniment.

There are eight CHORUS effects available: 1-Chorus1, 2-Chorus2, 3-Chorus3, 4-Chorus4, 5-Feedback, 6-Flanger1, 7-SHRTDELY, and 8-SHRTDLFB.

1. Press the REVERB/CHORUS button, so that the EFFECT type is shown in the display(Fig.2).
2. Use the +/YES, -/NO buttons to select a chorus type.

The chorus level for the main, split and layer voices can be changed in the function menu. Please see the Function section for more information



(Fig.2)

KEYBOARD VOICES

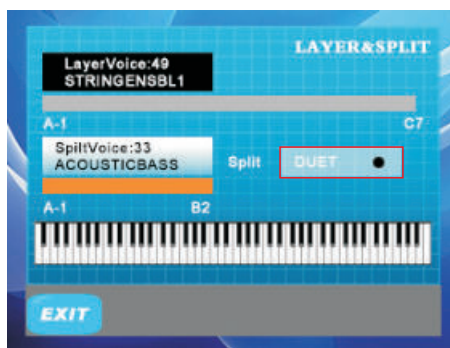
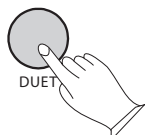
DUET

With the duet feature engaged the keyboard is divided into two sections that play the same notes. The two sections, left A1-C3 and right C#3-C7 have the exact same notes and share the same voice, octaves and volume. This is a great feature for teaching or when two people want to play the piano simultaneously.

When the duet feature is engaged, the pedals will automatically change configuration so there are two sustain pedals, one for each portion of the keyboards.

1. Press the DUET button, the status of the duet feature will be shown in the display, and the indicator will light up.
2. To turn the duet feature off press the DUET button so that the indicator goes out.

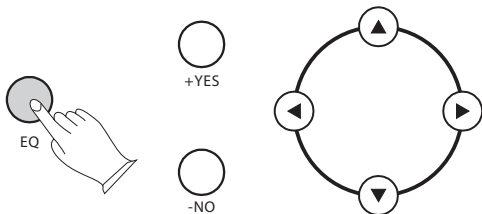
Please note, engaging the DUET feature will disable the Layer and Split modes and the Auto Accompaniment feature.



EQUALIZER

You can change the Overall EQ settings for the piano to increase or decrease the high and low frequencies. Normally the piano is set at a flat EQ. However certain types of rooms may affect the sound quality of your piano. By adjusting the EQ settings you can make the piano fit the room's sound better.

1. Press EQ button enter the EQUALIZER interface.
2. Use the ◀ ▶ buttons to select the BASS Freq/TREBLE Freq.
3. Use the +YES/-NO buttons to change the value.
4. Use the data wheel of the BASS and TREBLE to select the BASS GAIN and TREBLE GAIN.
5. Press the EQ button again to exit.



KEYBOARD VOICES

There are 6 sets of fixed settings for you to choose: CLASSICAL/ JAZZ/ POP/ ROCK/ COUNTRY/ ELECTRONIC.(Fig.1)

IN the EQUALIZER interface,

- 1.Use the ▲▼◀▶ buttons to select a set of fixed setting.
- 2.Press OK button to confirm.
- 3.Press EQ button to exit.

RHYTHM

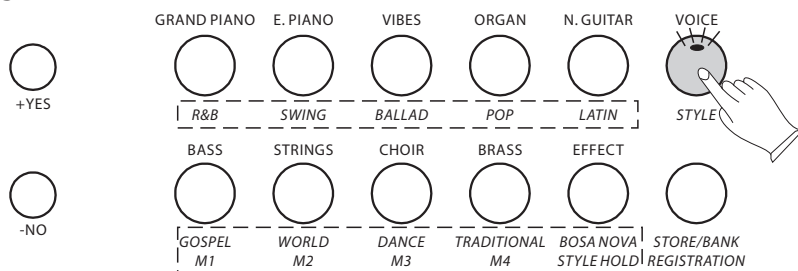
This piano offers 100 rhythm styles and a variation of each of those style patterns to choose from. The rhythm section of the keyboard is assigned by the auto accompaniment split point. The keys on the left of the split point are reserved for the auto accompaniment. The keys to the right are available for normal playing. Each rhythm style includes an introduction, the main pattern, two fill-ins, a variation and an ending pattern. Please see the complete list of all 100 rhythm styles in the back of the manual. Please note, the keyboard and accompaniment volumes can be adjusted independently from each other and the master volume by using the KB.VOL \leftarrow/\rightarrow and ACCOMP \leftarrow/\rightarrow buttons.

RHYTHM STYLE SELECT

QUICK SELECT RHYTHM STYLE BUTTONS

There are ten styles that can be selected quickly by pressing one of the voice select buttons: R&B/ SWING/ BALLAD/ POP/ LATIN/ GOSPEL/ WORLD/ DANCE/ TRADITIONAL / BOSANOVA. The style name is printed under the select button.

1. Press the VOICE/STYLE button to select style. (The indicator will be lit when STYLE is selected)
2. Press the style select button that corresponds to the desired style. The style name and its number will show on the display and the newly selected style is available for playing.



3. You can also use the +/YES, -/NO buttons to select style.

SELECTING ONE OF THE 100 RHYTHM STYLES

1. Press the VOICE/STYLE button to select voice. (The indicator will be lit when STYLE is selected)
2. Press the OK button.
3. Use the \uparrow/\downarrow buttons to select a style group (Fig.1), press OK button again.
4. Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons to select the style (Fig.2), press OK button to enter.

The newly selected style name and number will be on the screen.

Please refer to the style List at the back of the manual for a list of all available styles.

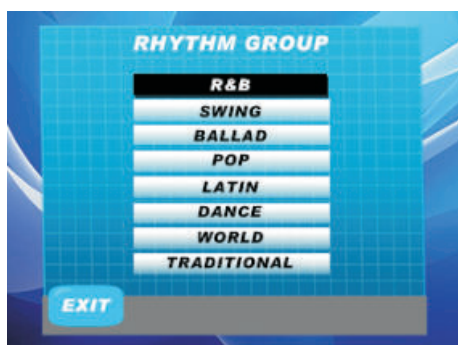


Fig.1



Fig.2

RHYTHM

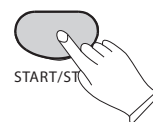
USING THE RHYTHM STYLE

There are three ways to start the rhythm style; straight start, synchronized start, or with an introduction. You can stop your rhythm style with a finishing ending pattern.

STRAIGHT START

The START/STOP button starts the percussive rhythm immediately.

1. Press the START/STOP button, the selected rhythm style will play.
2. Press the START/STOP button again to stop.



SYNCHRONIZED START

Synchronized Start puts the accompaniment in the standby mode.

1. Press the SYNCHRO button, the first point of the virtual rhythm indicator on the LCD screen will turn red (Fig. 1), showing that the synchronized start mode is ready. The rhythm style will start as soon as you play in the left hand, accompaniment, section of the keyboard.
2. Press the START/STOP or the SYNCHRO button again to stop the rhythm style. If the SYNCHRO button is used, the synchronized start mode will be put back on standby.

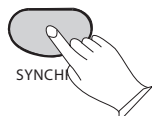
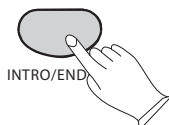


Fig. 1

INTRODUCTION AND ENDING PATTERNS

All of the 100 styles and their variations can be started with an appropriate introduction.

1. Press the INTRO/ENDING button, the rhythm of the introduction will start followed by the main rhythm pattern.
2. Press the SYNCHRO button before pressing the INTRO/ ENDING button to add an introduction. The introduction, followed by the rhythm style will start as soon as you play in the left hand section of the keyboard.
3. Press the START/ STOP button to stop the accompaniment or press the INTRO/ENDING button again to stop with an ending pattern. An ending pattern can be used at any time regardless of whether you started with an introduction.

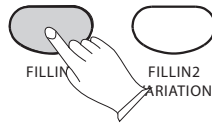


RHYTHM

FILL IN

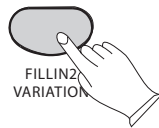
The fill in feature will insert a short rhythmic pattern of one to two measures in length, depending on the rhythm style selected. There is a fill-in for both the main pattern and the variation. The FILL buttons can also be used to start a rhythm style.

1. Press the FILL IN 1 or the FILL IN 2 VARIATION buttons at any time while the rhythm style is playing to add a fill.
2. Press and hold down either FILL IN button to extend the fill indefinitely. If you hold down a FILL IN button, the fill pattern will repeat until the button is released, and then the pattern will resume from the beginning of the next measure.



VARIATION

1. Press the FILL IN 2 VARIATION button at any time to select the variation of any of the rhythm styles. The indicator will light up and the variation pattern will be selected. If the rhythm style is playing the variation will start at the beginning of the next measure after the variation fill.
2. Press the FILL IN 1 button to revert to the main pattern from the beginning of the next measure after the fill pattern.



ADJUSTING THE TEMPO

When playing the rhythm, there is a virtual four-beat indicator, within the LCD screen, that flashes with the tempo and the beat for the rhythm style playing. Each style has its own preset tempo.

The tempo can be adjusted before or during rhythm style play.

If you change rhythm styles while a rhythm style is playing, the tempo will stay at the initial styles value.

Press the TEMPO ◀/▶ buttons to change the tempo.

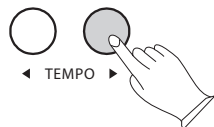


Fig.1



Please note, if the METRONOME button is engaged, the metronome tick will sound at the selected rhythm style tempo.

AUTO ACCOMPANIMENT

Each of the 100 percussive rhythm styles has its own auto accompaniment, dedicated to that 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 accompaniment produced is perfectly matched to the selected rhythm style. For auto accompaniment modes the keys are divided into two sections at the auto accompaniment split point. The keys to the left of this point are defined as the accompaniment section of the keyboard.

Please note, the keyboard and accompaniment volumes can be adjusted independently from each other and the master volume by using the KB.VOL ◀/▶ and ACCOMP ◀/▶ buttons.

SPLIT POINT FOR AUTO ACCOMPANIMENT

For auto accompaniment, the keyboard is split into two sections. The default split point is the G2 key. A different split point for the auto accompaniment can be assigned in the Function menu. Please see the Function section of this manual for more information.

ADJUSTING THE CHORD

The ACCOMP button must be engaged for the auto accompaniment to be available. Press the ACCOMP button so the indicator is lit to engage the auto accompaniment mode. Please see Using the Auto Accompaniment.

ADJUSTING THE AUTO ACCOMPANIMENT VOLUME

To adjust the volume of only the rhythm style.

1. Press the ACCOMP ◀/▶ buttons.
2. Use the ◀ ▶ buttons to select the ACCOMP/ BASS CHORD/ DRUM TRACK (Fig.1).
3. Use the +/YES or -/NO or ACCOMP ◀/▶ buttons to adjust the volume, the keyboard voice will not be affected.

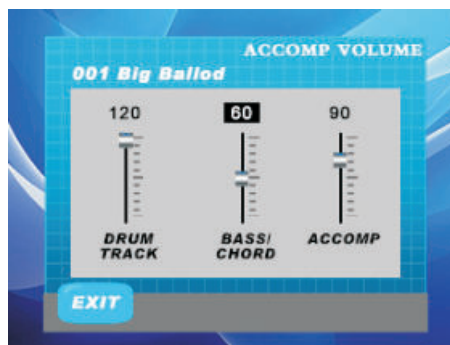
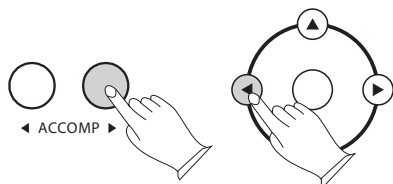


Fig.1

AUTO ACCOMPANIMENT

The auto accompaniment, or auto bass chord, fingering modes of this piano are single or fingered. The default setting is the fingered mode. The fingering mode is assigned in the Function menu.

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

SINGLE MODE

Single, or intelligent, fingering mode makes it simple to produce four types of orchestrated accompaniment chords using a minimum of fingers, 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 keys are not available for normal playing. The auto accompaniment will start with the percussive rhythm as soon as a key in the auto accompaniment section is played.

Please refer to Using the Auto Accompaniment.

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 to produce the minor chord.



Seventh Chord: Press the root key and any white key to its left (7th key) in the auto accompaniment section of the keyboard simultaneously.



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



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. The auto accompaniment will start as soon as a recognized chord is played in the auto accompaniment section of the keyboard, the keys are not available for normal playing.

Please refer to Using the Auto Accompaniment.

Please note, if a chord played cannot be recognized (fingered beyond the table), the previous chord will keep playing. An unrecognized chord cannot start the auto accompaniment.

Please see the Auto Accompaniment Fingering Guide table at the back of this manual for a list of all the 32 playable chords of this mode.

AUTO ACCOMPANIMENT

USING THE AUTO ACCOMPANIMENT

The rhythm style and corresponding auto accompaniment can be started as a straight start or set for a synchronized start. An introduction can be added and an ending pattern can be used when stopping.

Please note, if the ACCOMP button is not engaged only the rhythm style will play.

STRAIGHT START

1. Select a rhythm style. Please refer to RHYTHM STYLE SELECT.
2. Select a fingering mode. Please refer to SINGLE MODE.
3. Press ACCOMP button to engage the auto accompaniment mode, the indicator will be lit.
4. Press the START/STOP button. The START/STOP button will start the rhythm style immediately for both fingering modes. Depending on the fingering mode selected the auto accompaniment will start as follows:
 - Single: Auto accompaniment will start as soon as a note is struck in the auto accompaniment section of the keyboard.
 - Fingered: Auto accompaniment will start as soon as a recognized chord is played in the auto accompaniment section of the keyboard.
5. Press the START/STOP button again to stop the rhythm style and auto accompaniment.

SYNCHRONIZED START

Synchronized Start mode puts the piano auto accompaniment on standby. It allows you to start the rhythm style and its auto accompaniment by playing on the keyboard.

1. Select a rhythm style. Please refer to RHYTHM STYLE SELECT.
2. Select a fingering mode. Please refer to SINGLE MODE.
3. Press the ACCOMP button to engage the auto accompaniment mode, the indicator will be lit.
4. Press the SYNCHRO button, the beat indicator will light up, indicating that the synchronized start mode is engaged. If you want to start the accompaniment with a introduction, press the INTRO/ENDING button, or with either fill pattern press the FILL IN button for that now. Depending on the fingering mode selected, the SYNCHRO button will start the rhythm and the auto accompaniment as follows:
 - Single: The rhythm style and auto accompaniment will start as soon as a note is struck in the auto accompaniment section of the keyboard.
 - Fingered: The rhythm style and auto accompaniment will start as soon as a recognized chord is played in the auto accompaniment section of the keyboard.
5. Press the START/STOP button to stop the rhythm style and auto accompaniment.

Please note, if the ACCOMP button is not engaged only the rhythm style will play.

AUTO ACCOMPANIMENT

INTRODUCTION AND ENDING PATTERNS

All of the auto accompaniments can be started with an appropriate introduction and stopped with a finishing ending.

1. Select a rhythm style. Please refer to Select One of the 100 Rhythm Styles.
2. Select a fingering mode. Please refer to Select the Auto Accompaniment Fingering.
3. Press the ACCOMP button to engage the auto accompaniment mode, the indicator will be lit.
4. Press the SYNCHOR button, the indicator will light up, indicating that the synchronized start mode is engaged.

Please note, to hear the auto accompaniment introduction the SYNCHRO button must be used, otherwise the rhythm style introduction will begin immediately and the auto accompaniment introduction will not sound.

5. Press the INTRO/ENDING button. Depending on the fingering mode selected, the SYNCHRO button will start the rhythm and the auto accompaniment with an appropriate introduction as follows:
 - Single: The rhythm style and auto accompaniment with introduction will start as soon as a note is struck in the auto accompaniment section of the keyboard.
 - Fingered: The rhythm style and auto accompaniment will start as soon as a recognized chord is played in the auto accompaniment section of the keyboard.
6. Press the START/STOP button to stop the rhythm style and auto accompaniment. Or press the INTRO/ENDING button again to stop the auto accompaniment after a finishing ending pattern. The ending pattern can be engaged anytime an auto accompaniment is playing, whether or not it was started with an introduction.

FILL-IN1

The fill feature will insert a short rhythmic pattern of one to two measures in length, depending on the auto accompaniment selected. There is a fill in for both the main pattern and the variation. The FILL buttons can also be used to start a rhythm style and the auto accompaniment if used with the SYNCHRO button.

1. Press the either FILL IN1 button at any time while the accompaniment is playing to add a fill.
2. Press and hold down a FILL IN1 button to extend the fill indefinitely. If you hold down a FILL IN1 button, the fill pattern will repeat until the button is released, and then the pattern will resume from the beginning of the next measure after the fill.

VARIATION

1. Press the FILL IN 2 VARIATION button at any time to select the variation of any of the auto accompaniments. The indicator will light up and the variation pattern will be elected. If the auto accompaniment is playing the variation will start at the beginning of the next measure after the variation fill.

Please refer to the Starting and Stopping the Auto Accompaniment.

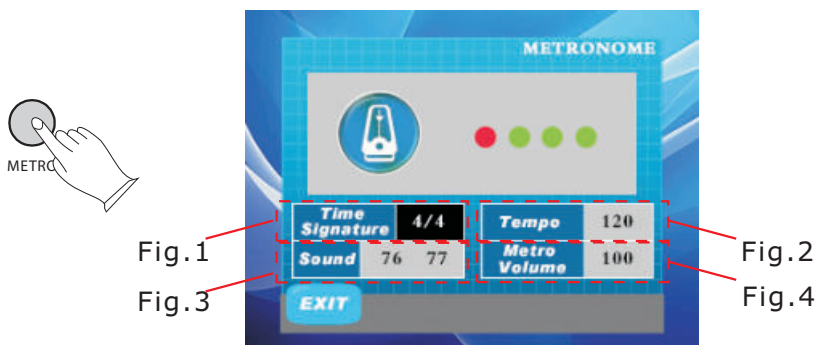
2. Press the FILL IN 1 button, the auto accompaniment will revert to the main auto accompaniment pattern selected after the main fill.

AUTO ACCOMPANIMENT

METRONOME

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

1. Press the METRONOME button to engage the metronome feature. The button's Indicator will turn on, the display screen will show the selected time signature and tempo, the metronome tick sound will start immediately.
2. Press the metronome button again to turn off the metronome.



TIME SIGNATURE

The TIME SIGNATURE can be set to the following measures: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 7/8, 9/8 or 12/8.

1. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the TIME SIGNATURE (Fig. 1).
2. Use the +YES or -NO buttons to change the time signature.
At the same time press +YES and -NO buttons to restore the default value: 4/4.

TEMPO

1. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the TEMPO (Fig. 2).
2. Use the +YES/ -NO or the TEMPO \leftarrow/\rightarrow buttons to change the value, Range: 20-280.
At the same time press +YES and -NO buttons to restore the default value.

SOUND

1. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the sound (Fig. 3).
2. Use the +YES/ -NO buttons to change the sound (76 77, 75 76, 67 68, 81 34).
At the same time press +YES and -NO buttons to restore the default value.

METRO VOLUME

1. Use the \uparrow \downarrow \leftarrow \rightarrow buttons to select the metro volume (Fig. 4).
2. Use the +YES/ -NO buttons to change the value, Range: 0-127.
At the same time press +YES and -NO buttons to restore the default value.

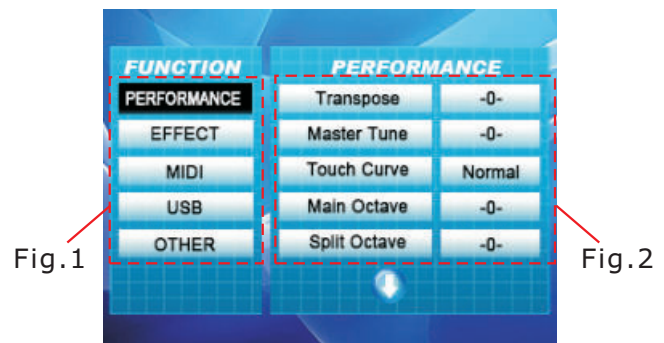
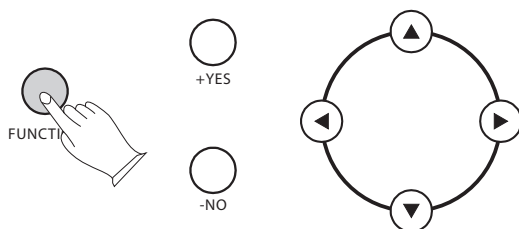
FUNCTION

The Function menu is used to set up or to adjust values or levels of various features related to the operation of this keyboard. This wide range of functions give the piano extraordinary versatility. With the FUNCTION button engaged you may access the sub-menus for the following:

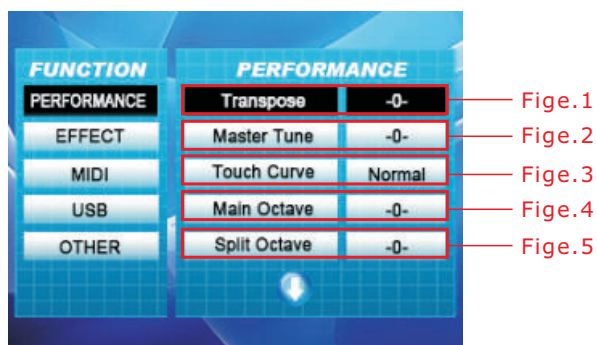
PERFORMANCE	EFFECT	MIDI	USB	OTHER
Transpose	Reverb Type	USB Midi In	USB Play Mode	Blue Tooth
Master Tune	Main Rev Lvl	Midi Out	USB Play Speed	Auto Close Time
Touch Cure	Split Rev Lvl	Local	Auto Rec Track	Factory Reset
Main Octare	Duet Rev Lvl		Rec Main Track	
Split Octare	Chorus Type		Rec Split Track	
Dual Octare	Main Chr Lvl		Rec Dual Track	
Split Point	Split Chr Lvl		USB Mute Track	
Chord Point	Duet Chr Lvl			
Chord Type				
Main Pan				
Split Pan				
Dual Pan				

All of the above listed Function Menus are accessed and adjusted as described below.

1. Press the FUNCTION button. The menu item that can be manipulated, will appear on the display.
2. Use the ▲ ▼ buttons to select the left function menu (Fig. 1).
3. Press ► button, and then use the ▲ ▼ buttons to select the sub menu on the right (Fig. 2). You can press ◀ button to return to the left function menu
4. Use the +YES/-NO buttons to set a new value or level.
5. Press the function button again to confirm your selection and exit the function mode.



FUNCTION / PERFORMANCE



TRANSPOSE

The Transpose function can shift the pitch of the keyboard up or down in semi-tone intervals up to a maximum of 24 semi-tones. Transpose does not affect the percussion. The transpose value range can be adjusted, one octave lower to -12, one octave higher 12. Press +YES and -NO buttons at the same time to restore the default value:0.(Fig.1)

MASTER TUNE

The pitch of this piano is very accurate and stable; it is automatically set to standard A440 pitch when the piano is turned on. If necessary, you can alter the piano pitch, the tuning feature makes it possible to tune the pitch of the instrument in fine intervals to match other instruments. You can adjust the master tune value from: -64 to 63. Press +YES and -NO buttons at the same time to restore the default value:0. (Fig.2)

TOUCH CURVE

The touch function provides four types of keyboard sensitivity to match different playing styles: Touch Soft, Touch Normal, Touch Hard, Fixed?, the default is Normal.(Fig.3)

- 1.Touch Soft, the most sensitive keyboard response which permits maximum sound levels with a light touch.
- 2.Touch Normal, an intermediate response suitable for most styles of music. Normal is the default setting.
- 3.Touch Hard, a less sensitive keyboard response which requires a heavier touch to obtain maximum sound levels.
- 4.Fixed?, the keyboard will transmit at a constant velocity and the sound will be the same volume. You can press the OK button than use the +YES/-NO buttons to adjust the value from:0-127, press +YES and -NO buttons at the same time to restore the default value:100.

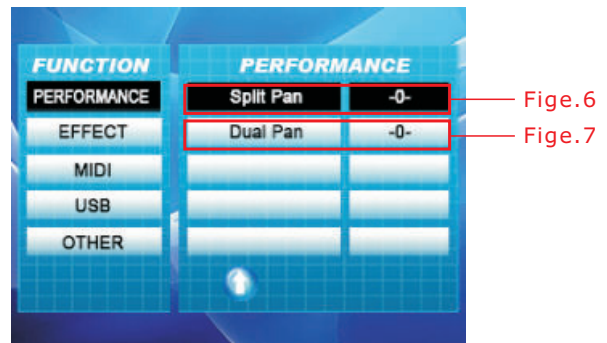
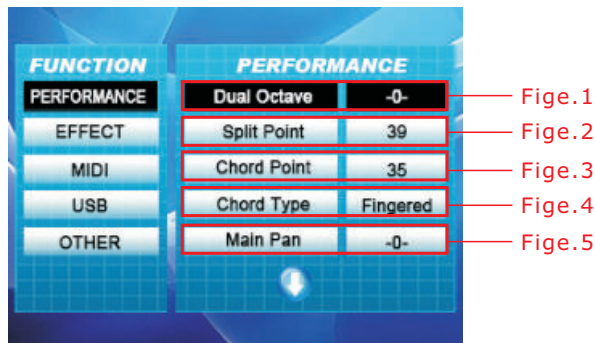
MAIN OCTAVE

The Octave function makes it possible to shift all the keys on the piano one or two octaves up or down. With this Function menu you can shift the Main voice from: -2 to +2 octaves, press +YES and -NO buttons at the same time to restore the default value:0. (Fig.4)

SPLIT OCTAVE

With this Function menu you can shift the Split voice from: -2 to +2 octaves, press +YES and -NO buttons at the same time to restore the default value:0.(Fig.5)

FUNCTION / PERFORMANCE



DUAL OCTAVE

With this Function menu you can shift the Dual voice from: -2 to +2 octaves, press +YES and -NO buttons at the same time to restore the default value:0.(Fig.1)

SPLIT POINT

When the split mode is engaged the keyboard is divided into two parts at the split point. In the left hand section a different instrument voice can be assigned, the split, or lower, voice. In this menu the default split point of B2 for the voice section can be changed from Key 0 to Key 87 (A-1 to C-7), with a default value of #A2.

You can adjust the split point value from: 01-88.

Press +YES and -NO buttons at the same time to restore the default value:39.(Fig.2)

CHORD POINT

For the auto accompaniment the keyboard is split into two sections at the default split point G2 key. A different split point for the auto accompaniment can be assigned in the Function menu from Key 0 to Key 87 (A-1 to C-7), with a default value of #F2.

You can adjust the chord point value from: 01-88.

Press +YES and -NO buttons at the same time to restore the default value:35.(Fig.3)

CHORD TYPE

The auto accompaniment, or auto bass chord, fingering modes of this piano are: single or fingered. Select a fingering mode: Single, Fingered, using this function menu. The default value is fingered.(Fig.4)

MAIN PAN/SPLIT PAN/DUAL PAN

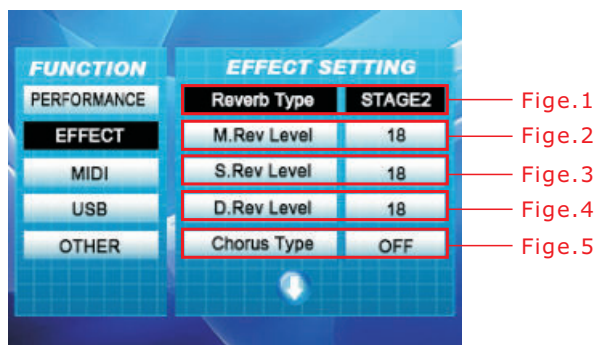
This function allows you to set the stereo position of each orchestration part to create a board stereo image to your sound. It can move one part of the piano sound to the left or right speakers to create more of a stage sound.

The main voice pan value can be set from: -64 to 63. Press +YES and -NO buttons at the same time to restore the default value:0.(Fig.5)

The split voice pan value can be set from: -64 to 63. Press +YES and -NO buttons at the same time to restore the default value:0.(Fig.6)

The dual voice pan value can be set from: -64 to 63. Press +YES and -NO buttons at the same time to restore the default value:0.(Fig.7)

FUNCTION / EFFECT



REVERB TYPE

There are eight reverb effects available: 1-Hall1, 2-Hall2, 3-Room1,4-Room2, 5-Room3, 6-Stage1, 7-Stage2 and 8-Plate.(Fig.1)
Please refer to REVERB/CHORUS.

REVERB LEVEL

Reverb simulates the effect of playing in a big room or a hall where the sound reverberates off the walls and ceiling. The reverb effect is engaged automatically when the piano is turned on.

MAIN REVERB LEVEL

In this function you can adjust the reverb depth for the main voice.
The main reverb Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:18.(Fig.2)

SPLIT REVERB LEVEL

In this function you can adjust the reverb depth for the split, or lower, voice.
The Reverb Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:18.(Fig.3)

DUAL REVERB LEVEL

In this function you can adjust the reverb depth for the layer, or dual, voice.
The Reverb Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:18.(Fig.4)

CHORUS TYPE

There are eight chorus effects available: 1-Chorus1,2-Chorus2, 3-Chorus3, 4-Chorus4, 5-Feedback, 6-Flanger1,7-SHRTDELY, and 8-SHRTDLFB.(Fig.5)
Please refer to REVERB/CHORUS.

FUNCTION / EFFECT



CHORUS LEVEL

The Chorus effect adds depth and spaciousness to the selected keyboard voice.

MAIN CHORUS LEVEL

In this function you can adjust the chorus depth for the main voice.

The main chorus Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:110.(Fig.1)

SPLIT CHORUS LEVEL

In this function you can adjust the chorus depth for the split, or lower, voice.

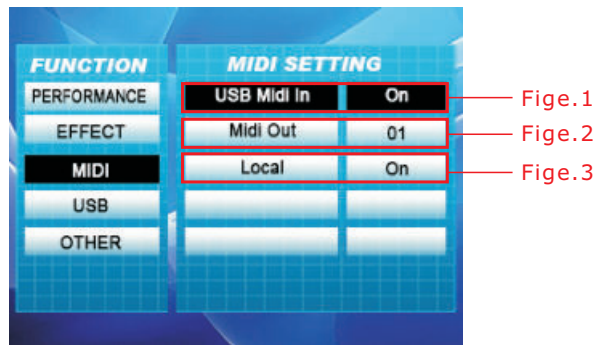
The split chorus Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:110.(Fig.2)

DUAL CHORUS LEVEL

In this function you can adjust the chorus depth for the layer voice.

The dual chorus Level value can be adjusted from 0-127, press +YES and -NO buttons at the same time to restore the default value:110.(Fig.3)

FUNCTION / MIDI



USB MIDI IN

This function allow you to turn on or off the USB MIDI IN function, the default is MIDI on. (Fig.1)

MIDI OUT

This function allow you to select the MIDI transmission track from 01 -16 or to turn the MIDI transmission function off, the default track is channel 1.(Fig.2)

LOCAL

This function allows you to turn on or off the speaker system of the piano. Normally, playing on the keyboard generates sound while it sends MIDI messages via the MIDI connector or USB. This mode is called Local On and is the default value. You can mute the piano sounds while still sending out the MIDI messages. This mode is called Local Off.(Fig.3)

Please note, if the Local is off there will be no sound from your keyboard.

FUNCTION / USB

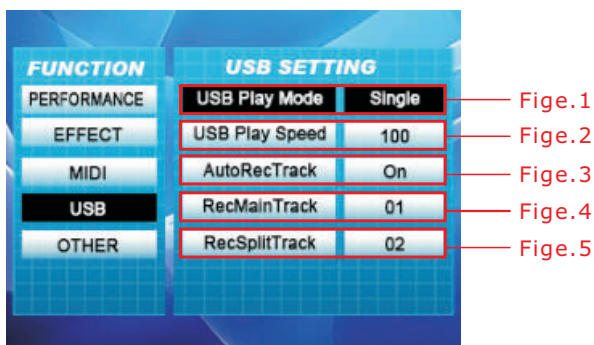


Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

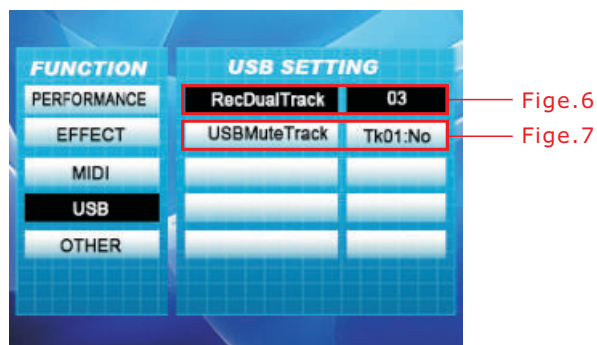


Fig.6

Fig.7

USB PLAY MODE

This function allows you to select the mode for the USB playback of the piano. You can select Single, Play All or Random. The default value is Play All Songs.(Fig.1)

USB PLAY SPEED

This function allows you to select the play back speed for USB on the piano. You can select a speed of 50% to 200%, press +YES and -NO buttons at the same time to restore the default value:100.(Fig.2)

AUTO RECORD TRACK

This function allows you to turn on or turn off the auto record track.

RECORD MAIN TRACK

You can select the track on/off by presspress +YES and -NO buttons. You can press [+ /YES] or [- /NO] buttons to select the main track(1-16,off).

RECORD SPLIT TRACK

You can select the track on/off by presspress +YES and -NO buttons . You can press [+ /YES] or [- /NO] buttons to select the split track(1-16,off).

RECORD DUAL TRACK

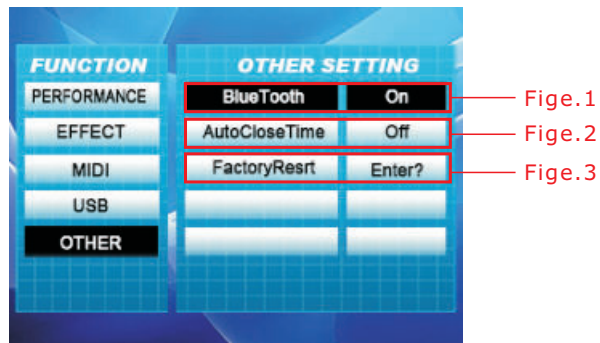
You can select the track on/off by presspress +YES and -NO buttons. You can press [+ /YES] or [- /NO] buttons to select the dual track(1-16,off).

USB MUTE TRACK

This function allows you to mute a track on the USB play back of the piano. You can mute any track from 01-16 by selecting it in this function menu. The default is all tracks no.

Please note, this sub-menu does require an additional confirmation of the track to mute. Use the +YES/ -NO buttons to select a track from 01-16 tracks. Press the OK button to select the YES or NO.(Fig.7)

FUNCTION / OTHER



BLUETOOTH

Plug the tiny Bluetooth receiver into the allotted slot on the connector panel to stream audio from Bluetooth devices onto your piano. This function allows you to turn Bluetooth on or off while the receiver is engaged, the default setting is Bluetooth On.(Fig.1) Please see the Bluetooth section of this manual for more information.

AUTO CLOSE TIME

This piano will automatically power off after a preset time of inactivity. Set the length of standby time before a power down in this function menu. The default power off can be set from 20 - 60 minutes, or the feature can be turned off. Press +YES and -NO buttons at the same time to restore the default value:Off.(Fig.2)

FACTORY RESET

You can Reset your piano to the initial factory settings. Please be aware that this will erase all saved data from the User buttons, the Registration memory banks and the song banks and all the changed settings from the Function menu. Please note, there is no sub-menu for this function, once you select the Reset and press the OK button, the piano will reset.(Fig.3)

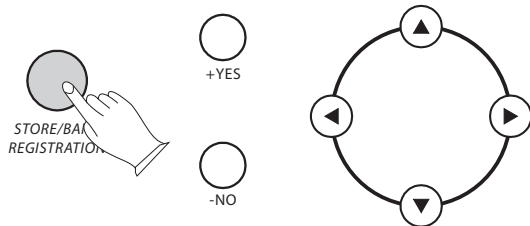
REGISTRATION MEMORY

Registration Memory can recall particular settings of style, voice, chord and other parameters or features you have engaged. This piano has four banks each with four registration memories to hold 16 of your favorite settings so that they can be recalled quickly by the press of a button. The registration will not be lost when the power is turned off. The following data can be preset and stored in a registration memory:

Main, Split & Layer Voice	Main, Split & Layer Reverb Level	Chord Split Point
Main, Split & Layer Volume	Main, Split & Layer Chorus Level	Voice Split Point
Main, Split & Layer Pan	Style Hold	Touch On/Off
Transpose	Style (Number)	Touch Fixed
Main, Split & Layer Octave	Tempo	Split On/Off
Metronome Volume	Chord On/Off	Layer On/Off
Reverb On/Off & Reverb Type	Drum Vol/Bass Vol	Duet On/Off
Chorus On/Off & Chorus Type	Acc Volume	

SAVE REGISTRATION

1. Press the STORE/BANK button to select a bank, BANK1-4.(Fig.1)
2. Use the (▲) (▼) buttons to select a registration memories, M1-4(Fig.2)
3. Press (▶) button, and then use the (▲) (▼) buttons to select the sub menu on the right (Fig.3). You can press (◀) button to return to the left menu.



4. Use the (▲) (▼) (◀) (▶) buttons to select the SAVE, than press the OK button.(Fig.4)

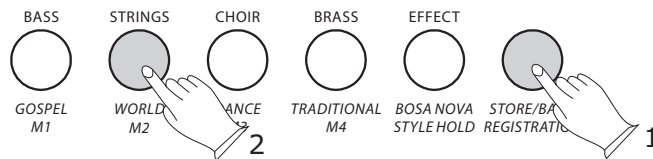


Fig.5

REGISTRATION MEMORY

RECALL REGISTRATION

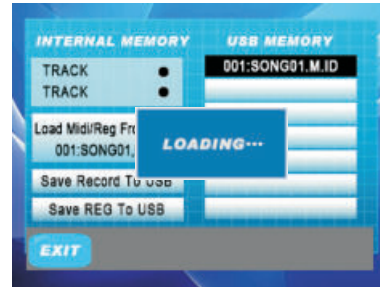
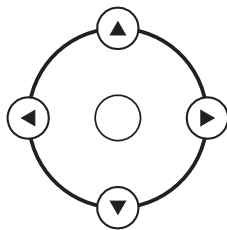
1. Press the STORE/BANK button to select a bank, BANK1-4.
2. Press the number M1-M4 button that corresponds to the settings you want to recall in the selected bank, the stored settings will be recalled instantly and the display will show the registration memory number with a "Load" suffix. The display will recover to the voice that is now selected from the registration memory.



Read Load Registration/Songs Data from USB

Use the ▲ ▼ buttons to select Registration/Songs.

Then use the ▲ ▼ buttons to select "Load Midi/Reg From USB" and then use OK button to confirm, the LCD will show "Loading".

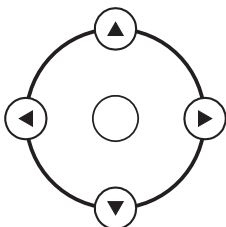


16 groups of Registration Memory settings will be loaded to the memory store on the panel. You can recall the data you have loaded by pressing M1-M4.

The selected USB midi file will be stored into track1 and track2 .Use the PLAY/STOP button to play.

Save Registration to USB

Press ▲ ▼ button to select "Save REG to USB" and then use the OK button to confirm, the LCD will show a message "XXX:REG-001.REG"



Save Record to USB

Press ▲ ▼ button to select "Save Record to USB" and then use the OK button to confirm, the LCD will show a message "XXX:Song01.MID".

RECORD

This digital piano lets you record your performances and Registration setting to a USB Disk. Each user song lets you record up to sixteen independent tracks. These include not only the voices for the keyboard performance, but also the auto accompaniment parts.

It provides two different ways to record: USB Recording and Melody Track Recording, which can save into local memory.

Two Tracks recording can be save into USB disk as a MIDI File and the MIDI file in the USB disk can be load to local memory.

RECORD

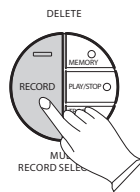
■ USB Recording

1. Insert the USB Disk into the USB Terminal and the indicator of the [MEMORY] button will light up.

If your USB disk is plugged in, but the [MEMORY] button indicator is turned off, then you can press the [MEMORY] button again to restore the USB mode.

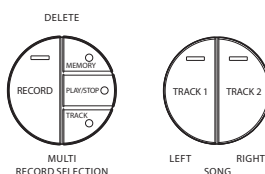
2. Start Recording

Press the [RECORD] button and the buttons indicator is flashing, then you can start recording.

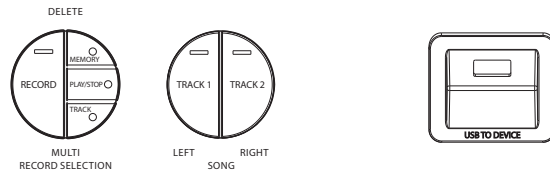


3. Stop Recording

Press [RECORD] button again to stop recording and the indicator will be unlight. Recording stops and your performance is written to the song. The song to which your performance is recorded is automatically named "XXX: SONG XXX" (XXX indicates this file's sequence Num in USB Disk. XXX indicates the recording file number). You can edit the song as desired by computer or midi edit soft.



RECORD



■ Multi Recording

1. Insert the USB Disk into the USB Terminal and the indicator of the [MEMORY] button will be light.

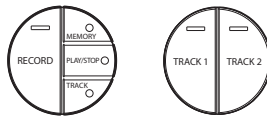
2. You can use the ▲ ▼ buttons knob to select the base file.

Press [RECORD] button and the [TRACK] button simultaneously to start recording, the [RECORD] buttons indicator is flashing and the [TRACK] button indicator will be light.

Press [RECORD] button again to stop recording and the indicator will be unlighted.
The Name of the New File Will be Saved in Sequence

■ Play Button

You can use the ▲ ▼ buttons knob to select your desired MIDI file.
Press the [PLAY/STOP] button to play the song of the USB disk.



Press the [PLAY/STOP] button again to stop playing the song and the indicator will be unlighted.

■ Select Recording Track

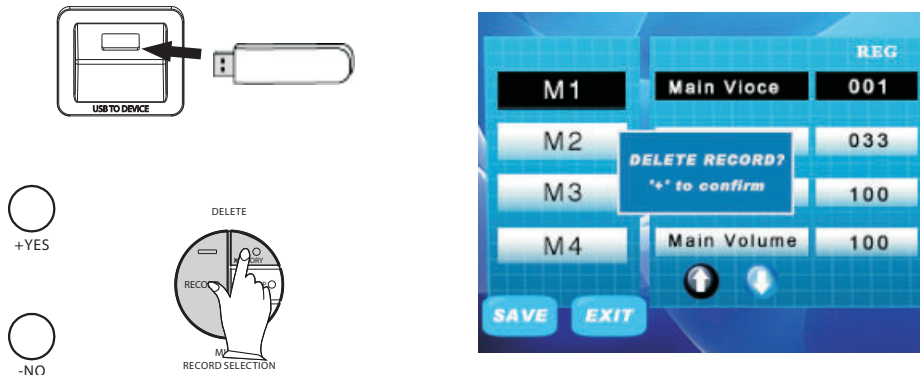
Hold the [TRACK] button can select 4 Track modes: Auto RecTrack(default), M.RecTrack, S. RecTrack, L.TecTrack.

- Auto Recording Track can change automatically
- Main voice recording track set (After setting the main voice recording track, separation voice and layer-voice recording track will change into main-voice recording track+1 and main-voice recording track +2. For example: If the main voice recording set is 3, then separation voice recording track will change into 4 automatically and double-voice recording track will change into 5 automatically)
- Split voice recording track set (Main voice and layer-voice recording track will not change automatically)
- Layer voice recording track set (Main-voice and split voice recording track will not change automatically)

RECORD

■ Delete Song

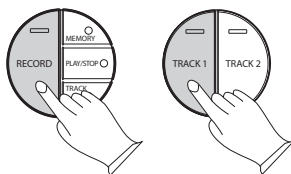
Insert the USB Disk into the USB terminal. Use the \uparrow \downarrow buttons to select "XXX:SONGXXX" file you want to delete, then hold down the [RECORD] button and press the [MEMORY] button. LCD shows: DELECT RECORD?"+" to conform.



Press the [+ / YES] button to confirm delete the file.
Press the [- / NO] button to cancel.

■ Melody Track Recording Melody Track1 Recording

Hold down the [RECORD] button, and then press the [TRACK1] button, the [TRACK1] and the [RECORD] indicator flashes to indicate ready to record. You can start recording simply by playing the key board or playing styles.



Press the [RECORD] button again to stop recording and the data will save to local memory track1.

NOTE:

If the TRACK 2 has data recorded, the indicator will light and it will play when the record is started. You can press the [TRACK 2] button to mute it, then the indicator will be unlighted.

RECORD

Melody Track2 Recording

Hold down the [RECORD] button, and then press the [TRACK2] button, the [TRACK2] and the [RECORD] indicator flashes to indicate ready to record. You can start recording simply by playing the key board.

Press the [RECORD] button again to stop recording and the data will save to local memory track 2.

NOTE:

If the TRACK 1 has data recorded, the indicator will light and it will play when the [TRACK 2] is started. You can press the [TRACK 1] button to mute it, then the indicator will be unlighted.

■ Play the Local Track Recording

During song playback, if the [MEMORY] button is light, you should press the [MEMORY] button again to turn off it.

Press the [PLAY/STOP] to play the local recording. During song playback you can select which track you wish to hear by press the [TRACK 1] or [TRACK 2] button.

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

■ Delete local recording

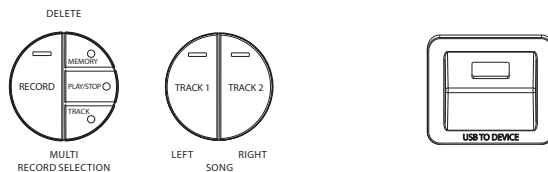
If the TRACK 1 has data recorded, hold the [TRACK 1] button for 3 seconds and the LCD will display: DELECT RECORD?"+" to conform. Then press the [+ /YES] to delete the file. Press [- /NO] button to cancel.

If the TRACK 2 has data recorded, hold the [TRACK 2] button for 3 seconds and the LCD will display: DELECT RECORD?"+" to conform. Then press the [+ /YES] to delete the file. Press [- /NO] button to cancel.

You also can press the [RECORD] and [MEMORY] button simultaneously to delete two tracks.

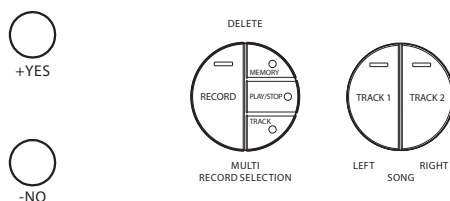
PLAY ALONG SONGS

There are 55 songs, of varying difficulty, built into the piano for you to practice and learn how to play. These songs have separate left hand or accompaniment, and right hand or melody, parts that can be turned on and off independently, so you can learn right, left and both hand portions as you progress in skill.



SELECT AND LISTEN TO A SONG

1. Press the TRACK 1/SONG LEFT and the TRACK 2/SONG RIGHT buttons simultaneously, the PLAY/STOP indicator will flash blue and the first play along song will appear on the display. Both SONG LEFT and SONG RIGHT indicators will be off.
2. You can use the ▲▼ buttons to select a song. The song number and title will appear on the display.
3. Press the PLAY/STOP button to listen to both hand portions of the selected song. The song will start after two tips beat count in.



4. The song will stop automatically when it is finished, or press the PLAY/STOP button at any time to stop the playback. The Play Along Song feature will return to standby for you to listen again, choose another song or try the Play Along Song Left Hand, Right Hand or Both Hands.
5. Press the SONG LEFT and the SONG RIGHT buttons simultaneously to exit the play along song mode, the PLAY/STOP indicator will go out, then press both track buttons, one at a time, so the indicator lights turn off.

PLAY ALONG SONGS

PRACTICING THE RIGHT HAND MELODY OF THE SONG

1. Press the SONG LEFT and the SONG RIGHT buttons simultaneously, the PLAY/STOP indicator will flash blue and the first play along song will appear on the display. Both SONG LEFT and SONG RIGHT indicators will be off.
2. Use the ▲ ▼ buttons or to select a song. The song number and title will appear on the display.
3. Press the SONG RIGHT button. The indicator will turn on.
4. Press the PLAY/STOP button, after the metronome sound counts in, the auto accompaniment will play, and you can play the right hand melody notes.
5. The song will stop automatically when it is finished, or you can press the PLAY/STOP button at anytime to return to Play Along Song standby.
You will have a percentage grade displayed in the LCD screen when the song is finished, if you stop the song early there will be no grade.
6. Press the PLAY/STOP button to try again, or next try the Left Hand, or press the SONG LEFT and the SONG RIGHT buttons simultaneously to exit the play along song mode, the PLAY/STOP indicator will go out, then press both track buttons, one at a time, so the indicator lights turn off.

PRACTICING THE LEFT HAND ACCOMPANIMENT OF THE SONG

1. Press the SONG LEFT and the SONG RIGHT buttons simultaneously, the PLAY/STOP indicator will flash blue and the first play along song will appear on the display. Both SONG LEFT and SONG RIGHT indicators will be off.
2. Use the ▲ ▼ buttons to select a song. The song number and title will appear on the display.
3. Press the SONG LEFT button. The indicator will turn on.
4. Press the PLAY/STOP button, after the metronome sound counts in, the melody notes will play, and you can play the left hand auto accompaniment.
5. The song will stop automatically when it is finished, or you can press the PLAY/STOP button at anytime to return to Play Along Song standby.
You will have a percentage grade displayed in the LCD screen when the song is finished, if you stop the song early there will be no grade.
6. Press the PLAY/STOP button to try again, or next try Both Hands, or press the SONG LEFT and the SONG RIGHT buttons simultaneously to exit the play along song mode, the PLAY/STOP indicator will go out, then press both track buttons, one at a time, so the indicator lights turn off.

PLAY ALONG SONGS

PRACTICING BOTH HANDS OF THE SONG

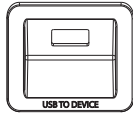
1. Press the SONG LEFT and the SONG RIGHT buttons simultaneously, the PLAY/STOP indicator will flash blue and the first play along song will appear on the display. Both SONG LEFT and SONG RIGHT indicators will be off.
2. Use the ▲ ▼ buttons to select a song. The song number and title will appear on the display.
3. Press the SONG LEFT and the SONG RIGHT buttons, one at a time, if you press them both you will exit the Play Along Song mode. Both indicators will turn on.
4. Press the PLAY/STOP button, after the metronome sound counts in, you can play the left hand auto accompaniment and the right hand melody notes.
5. The song will stop automatically when it is finished, or you can press the PLAY/STOP button at anytime to return to Play Along Song standby. You will have a percentage grade displayed in the LCD screen when the song is finished, if you stop the song early there will be no grade.
6. Press the PLAY/STOP button to try again, or press the SONG LEFT and the SONG RIGHT buttons simultaneously to exit the play along song mode, the PLAY/STOP indicator will go out, then press both track buttons, one at a time, so the indicator lights turn off.

USB

USB is a digital audio interface. The USB feature allows you to record your songs or registrations on a USB drive, or to listen to any MIDI files prerecorded onto a USB.

INSERT THE USB

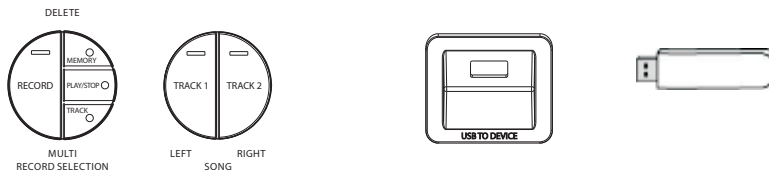
Insert the USB flash drive in the USB TO DEVICE slot with the top (fat) side up and leading into the slot. Gently push the USB drive into the slot, it will be a snug fit and the protruding end will be angled slightly upwards. Do not force the USB drive.



REMOVE THE USB

To remove the USB flash drive grasp the protruding end and pull straight out at following it's upward angle until it slides out from the slot, again it is a snug fit, do not force.

Do not remove the USB flash drive or turn off the power when the USB TO DEVICE is engaged to avoid memory loss or damage to the USB flash drive or the USB TO DEVICE reader.



PLAY

To play the prerecorded SMF (Standard MIDI File) format songs that are on the USB flash drive.

1. Insert the USB flash drive into USB TO DEVICE slot. The blue indicator light on the MEMORY button will be lit and the screen will show the first song available for playback.
2. Use the \blacktriangle \blacktriangledown buttons to select a song.
3. Press the PLAY/STOP button, the blue indicator will flash and the music sequencer will automatically load the first MIDI File Song that is on the USB and it will begin to play. The music sequencer will continue to load and play all songs in sequence. The keyboard is available for playing while the recording is playing back. If the metronome is engaged it will tick to the tempo of the recording. You can adjust the tempo by using the TEMPO +/- button.
4. Press the PLAY/STOP button at any time to stop the play or to select another song.
5. Press the MEMORY button to disengage the USB drive, press the MEMORY button again to return.

Please note, the USB Play Mode, USB Play Speed and USB Mute Track can all be manipulated from the Function menu.

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

Please see the Record section of this manual for information regarding recording to USB.

BLUETOOTH

BT-1 ARTESIA BLUETOOTH CONNECTION

Artesia adds Bluetooth to your digital piano! Plug this tiny unit into the allotted slot on the connector panel and stream high-quality audio from Bluetooth devices like your smartphone, tablet or computer. Now you will be able to listen to music files and music apps from your Bluetooth-enabled devices on your piano.

This receiver is compatible with most A2DP stereo Bluetooth-enabled devices.



SPECIFICATIONS

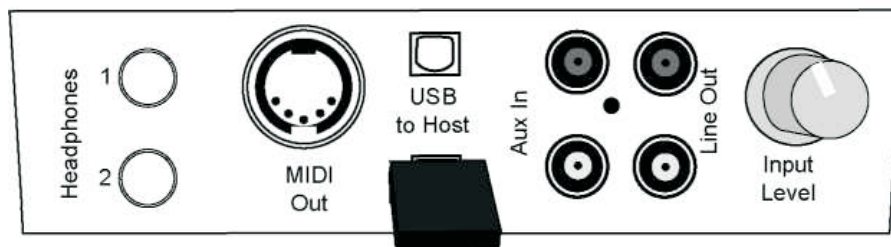
Compliant with Bluetooth 2.1 +EDR specs
Operates in 2.402-2.480 GHz ISM band

4dBm output max power
80dBm receiver sensitivity

The included Artesia BT-1 Bluetooth receiver turns your piano into a home entertainment center for the entire family and allows you to play along with your favorite hits.

BLUETOOTH CONNECTION

1. Make sure that the piano is powered off, if not please press the POWER button to do so. Insert the Bluetooth receiver into the Bluetooth slot located on the connector panel on the left side of the piano underneath the key-bed.
2. Press the POWER button to turn the piano on. The blue indicator light on the Bluetooth receiver will flash.
3. Press the FUNCTION button and use the \uparrow \downarrow buttons to select The Bluetooth Menu.
4. From the sub-menu, turn the Bluetooth feature on by pressing the +/YES button and off by pressing the -/NO button. The blue indicator will begin to flash quickly, it will continue to flash, once every .7 second, while connecting to another Bluetooth device. (Default: on)
5. You will find the Artesia BT-1 as an option on your Bluetooth device's settings, select the BT-1 from your device to connect. When the BT-1 receiver has successfully connected the blue indicator light on the receiver will remain on. Use your Bluetooth device to access the information that you want to hear through the piano. The keyboard is available for playing while the recording is playing back. Play along with your favorite band!
6. Use the Function Bluetooth menu again to turn Bluetooth off.



BLUETOOTH

Please note, Bluetooth devices should be placed near and in direct view of the Bluetooth receiver when initially set up. The distance and strength of the signal will depend on environmental conditions. Please make sure the volume of the piano and the Bluetooth device is turned up.

If you are unable to connect to your Bluetooth device, please make sure that any other previously connected device has been disconnected.

If you are still unable to connect, please turn the Bluetooth function on your device off, and then back on to attempt to connect.

To change Bluetooth devices during normal operation disconnect the first Bluetooth and then reconnect to the new device following the above instructions.

Please also note, due to differences in Bluetooth technology, some Bluetooth enabled devices may be incompatible, function improperly, or may not support all features when used with the wireless receiver.

TROUBLESHOOTING

Please make sure the volume of the piano and the Bluetooth device is turned up.

If you are unable to connect to your Bluetooth device, please make sure that any other previously connected device has been disconnected.

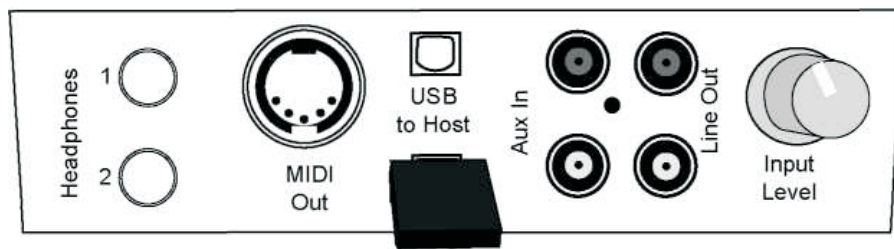
If you are still unable to connect, please turn the Bluetooth function on your device off, and then back on to attempt to connect.

To change Bluetooth devices during normal operation disconnect the first Bluetooth and reconnect to the new device following the above instructions.

MIDI

MIDI stands for Musical Instrument Digital Interface. This is a worldwide standard communication interface that enables electronic musical instruments and computers of all brands to communicate with each other so that 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.

If you are an advanced MIDI user, this section will help you to access the MIDI controller capabilities of the piano. If you already know that you need this specialized functionality, then this section is for you. However, this information is not necessary in order to enjoy playing the piano.



MIDI CONNECTION

The MIDI terminal is located on the left side of the piano, under the key-bed. For more information regarding transmitted MIDI data please see the MIDI implementation chart at the back of this manual.

The MIDI Local, USB MIDI In and the MIDI Out are turned adjusted using the Function menu.

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

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.

LOCAL ON/OFF

This function allows you to turn on or off the speaker system of the piano, local is the MIDI Channel message that sets whether your keyboard is going to trigger its internal sounds (Local ON) or not (Local OFF). Normally, playing on the keyboard generates sound while it sends MIDI messages via the MIDI connector or USB. This mode is called Local On. You can mute the piano sounds while still sending out the MIDI messages. This mode is called Local Off. Turning the Local On/Off function to off, will disconnect the keyboard from the internal sound engine of the piano. This means you can use the piano as a MIDI controller to control other MIDI devices or virtual instrument software running on your computer without playing the internal sounds of the piano.

You may also find other occasions such as when you are using MIDI sequencing software on your computer, where it is useful to turn the Local Off. Local On/Off is found in the Function menu.

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

MIDI

MIDI IMPLEMENTATION CHART

Function	Transmitted	Recognized	Remark
Basic Channel	1 CH	1-16 CH	
Channel changed	1-16 CH	1-16 CH	
Default Mode	3	3	
Note Number 9-120 0-127			
Velocity: Note On	.		
Velocity: Note Off	X		
Pitch Bender	.		
Control Change: 0	.	X	Variation page
1	X	X	Modulation
5	X	X	Portamento value
7, 10	.		Volume, Pan
11	X		Expression
64, 66, 67	.		Sustain. Sostenuto, Soft Pedal
65	X	X	Portamento yes/no
80, 81	.		Reverb, Chorus program
91	.		Reverb, Chorus send level
98, 99	X	X	NRPNL, NRPHH
100, 101	X	X	RPNL, RPNH
121	.		Reset all controllers
123	.		All notes off
Program Change	0-127	0-127	
System Exclusive	X	X	
Sys. Common: Song	X	X	
Select	X	X	
Sys. Common: 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

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 details

AUTO BASS CHORD FINGERING GUIDE

FINGERING GUIDE		
CHORD	DISPLAY	INTERVALS
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
Seventh suspend fourth	7sus4	1-4-5b7

The Fingering Guide table above lists all of the 32 playable chords of the Fingering Mode. Please note, the intervals 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:

- The M6 chords are only recognized in root note position. All other inversions are interpreted as m7.
- The 69 chords are only recognized in root note position. All other inversions are interpreted as m11
- The m6 chords are only recognized in root note position. All other inversions are interpreted as m7b5.
- With aug and dim7 chords, the lowest note played is assumed to be the root.
- These inversions do not apply to the Piano mode.

VOICE LIST

PIANO	
1	Acoustic Grand
2	Bright Acoustic
3	Electric Grand
4	Honky-Tonk Piano
5	Electric Piano 1
6	Electric Piano 2
7	Harpsichord
8	Clavichord
CHROMATIC PERCUS	
9	Celesta
10	Glockenspiel
11	Music box
12	Vibraphone
13	Marimba
14	Xylophone
15	Tubular Bells
16	Dulcimer
ORGAN	
17	Drawbar Organ
18	Percussive Organ
19	Rock Organ
20	Church Organ
21	Reed Organ
22	Accordion
23	Harmonica
24	Tango Accordion
GUITAR	
25	Nylon Guitar
26	Steel Guitar
27	Jazz Guitar
28	Clean Guitar
29	Mute Guitar
30	Overdriven Guitar
31	Distortion Guitar
32	Guitar Harmonics
BASS	
33	Upright Bass
34	Electric (finger)
35	Electric (pick)
36	Fretless Bass
37	Slap Bass 1
38	Slap Bass 2
39	Synth Bass 1
40	Synth Bass 2
STRINGS	
41	Violin
42	Viola
43	Cello
44	Contrabass
45	Tremolo Strings
46	Pizzicato Strings
47	Orchestral Harp
48	Timpani
ENSEMBLE	
49	Strings
50	String Ensemble 2
51	Synth Strings 1
52	Synth Strings 2
53	Choir Aahs
54	Voice Oohs
55	Synth Voice
56	Orchestra Hit
BRASS	
57	Trumpet
58	Trombone
59	Tuba
60	Muted Trumpet
61	French Horn
62	Brass Section
63	Synth Brass 1
64	Synth Brass 2
REED	
65	Soprano Sax
66	Alto Sax
67	Tenor Sax
68	Baritone Sax
69	Oboe
70	English Horn
71	Bassoon
72	Clarinet
PIPE	
73	Piccolo
74	Flute
75	Recorder
76	Pan Flute
77	Bottle Blow
78	Shakuhachi
79	Whistle
80	Ocarina
SYNTH LEAD	
81	Lead 1 (square)
82	Lead 2 (sawtooth)
83	Lead 3 (calliope)
84	Lead 4 (chiff)
85	Lead 5 (charang)
86	Lead 6 (voice)
87	Lead 7 (fifths)
88	8 (bass + lead)
SYNTH PAD	
89	Pad 1 (new age)
90	Pad 2 (warm)
91	Pad 3 (polysynth)
92	Pad 4 (choir)
93	Pad 5 (bowed)
94	Pad 6 (metallic)
95	Pad 7 (halo)
96	Pad 8 (sweep)
SYNTH EFFECT	
97	FX 1 (rain)
98	FX 2 (soundtrack)
99	FX 3 (crystal)
100	FX 4 (atmosphere)
101	FX 5 (brightness)
102	FX 6 (goblins)
103	FX 7 (echoes)
104	Sci-Fi
ETHNIC	
105	Sitar
106	Banjo
107	Shamisen
108	Koto
109	Kalimba
110	Bagpipe
111	Fiddle
12	Shanai
PERCUSSIVE	
113	Tinkle Bell
114	Agogo
115	Steel Drums
116	Woodblock
117	Taiko Drum
118	Melodic Tom
119	Synth Drum
120	Reverse Cymbal
SOUND EFFECT	
121	Guitar Fret Noise
122	Breath Noise
123	Seashore
124	Bird Tweet
125	Telephone Ring
126	Helicopter
127	Applause
128	Gunshot
DRUM LIST	
129	Standard
130	Room
131	Power
132	Eletroni
133	Synth
134	Jazz
135	Brush
136	Classic
137	Effect

Please 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.

STYLE LIST

R N B	
1	R&B
2	R&B SHUFFLE
3	ROCKIN R&B
4	DETROIT SOUND
5	GOSPEL
6	GOSPEL SHUFFLE
7	ROCKIN GOSPEL
8	BLUES ROCK
9	SWING FUNK
10	REGGAE 1
11	BOOGIE WOOGIE
12	50'S ROCK N ROLL
13	SLOW BLUES
14	SHUFFLE BLUES
SWING	
15	LOUNGE
16	SWINGIN' ORGAN
17	SWINGTRIO
18	SLOW SWING
19	BOSA NOVA 1
20	BOSA NOVA 2
21	BIG BAND
22	JIVE
23	JAZZ
24	SWING 1
25	DIXIE
BALLAD	
26	BALLAD
27	50'S BALLAD
28	POWER BALLAD
29	JAZZ BALLAD
30	PIANO BALLAD
31	LOVE SONG
32	POP BALLAD
33	BIG BAND BALLAD

34	JAZZ BALLAD 2
35	16 BEAT BALLAD
36	COUNTRY BALLAD
37	SLOW COUNTRY
38	SLOW 16
39	GOSPELL BALLAD
40	MODERN BALLAD
POP	
41	8 BEAT POP 1
42	POP 16
43	POPVILLE
44	POP SHUFFLE
45	GUITAR POP
46	SYNCHOPATE POP
47	COUNTRY POP
48	COUNTRY SWING
49	COUNTRY 2 STEP
50	COUNTRY WALTZ
51	COUNTRY
52	COUNTRY TWAIN
53	EASYPop
54	FUNKY POP
55	FOLK 1
LATIN	
56	LATIN POP 1
57	LATIN POP 2
58	TANGO
59	RUMBA
60	BEGUINE
61	LATIN 1
62	LATIN 2
63	BOLERO
64	MERENGUE
65	SALSA
66	SAMBA
DANCE	

67	DANCE
68	DANCE POP
69	HOUSE
70	CLUB DANCE
71	CLUB LATIN
72	TECHNO
73	HIP HOP
74	CHILL OUT
75	70'S DISCO
76	LATIN DISCO
77	DISCO PARTY
78	DISCO FEVER
79	NY DISCO
WORLD	
80	SWING REGGAE
81	POLKA 1
82	POLKA 2
83	MEX POLKA
84	TAMTELA
85	MARIACHI
86	NEWAGE
87	PASODOBLE
TRADITIONAL	
88	HAWAIIAN 1
89	HAWAIIAN 2
90	BLUEGRASS
91	BRODWAY 1
92	RAGTIME
93	WALTZ 1
94	CHILDREN SONG 1
95	CHILDREN SONG 2
96	MARCH 1
97	MARCH 2
98	MARCH 3
99	CLASSICAL 2
100	ENGLISH WALTZ

TROUBLESHOOTING

When the instrument is turned on or off, a popping sound is heard.	This is normal and indicates that the instrument is receiving electrical power.
When using a mobile phone, noise is produced	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
Not all of the voices seem to sound, or the sound seems to cut off.	The instrument is polyphonic up to a maximum of 32 notes, including the layer voice, split voice, auto accompaniment and metronome. Notes exceeding this limit will not sound.
The auto accompaniment does not sound properly.	Make sure that the accompaniment volume is set to an appropriate level. Check that the split point is set to an appropriate key for the chords you are playing. Make sure that the CHORD button is engaged.
No sound is produced by the keyboard, but the lights and screen work.	Check the master volume control. Check that nothing is plugged into the headphone socket or that LOCAL has been turned off in the Function menu.
The sound of the voice changes from note to note.	This is normal. The digital tone generation uses multiple recordings, samples, of an instrument across the range of the keyboard. The actual sound of the voice may be slightly different from note to note.
The volume is too soft. The sound quality is poor. The rhythm stops unexpectedly or will not play The recorded data of the song does not play correctly. The LCD display suddenly goes dark and all panel settings are reset.	An incorrect AC adapter which is not rated sufficiently can cause malfunction or damage. If you have lost or damaged your AC adapter, please contact your nearest dealer for the correct replacement adapter.
To completely restore all settings as set by the factory.	Perform a factory reset from the Function menu, all of the user settings will be erased and the default factory settings will be applied to the instrument.
Power suddenly and unexpectedly turns off after a period of inactivity.	This is normal outcome of the Auto Power Off feature. You can disable the Auto Power Off, in the Function menu.
The sustain pedal seems to produce the opposite effect, so that pressing the pedal deactivates the sustain and releasing the pedal triggers the sustain.	The polarity of the switch needs to be changed. Make sure the jack plug for the pedal is connected correctly and do not press the pedal while turning the piano on.

SPECIFICATIONS

Keyboards:	88 weighted, velocity-sensitive keys
Display:	Full Color Graphic LCD display
Polyphony:	128 notes max
Voices:	128PCM Voices+ 9 drum kits
Voice Control:	Transpose, Tune, Pan, Octave, Volume for Main voice, Split voice and Layer voice
Pedal:	Soft, Sostenuto, Sustain(support halfpedal)
Effect:	8 Reverb Types and Reverb Level 8 Chorus Types and Chorus Level EQ Bass Level EQ Treble Level
Styles:	100
Style Features:	Synchro Start, Intro, Ending, Fill In1, Fill in 2, Variation, Startstop, Accompaniment. Volume, Metronome
Song recording:	Real Time Recording and Playback with U disk. Local two tracks recording. Save local recording to U disk or Load U disk midi song to Local Recording track
Registration Memory:	4 x 4 per reg file. Save/Load reg file to/from U disk.
Keyboard Control:	Split, Layer, Duet Piano 3 touch sensitivity and fixed touch select
Demo and Coach :	10 demos + 55 lessons Left/Right part On/Off Score for Learning Level
Others:	Bluetooth U Disk for recording, play demo, save/load reg file. USB MIDI USB AUDIO to Play/Record Audio with Computer
Interface:	AC110V/220V, Aux In, Line Out, USB, midiout, Pedal 2 Headphones, Bluetooth

FCC STATEMENT

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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