Digital Piano

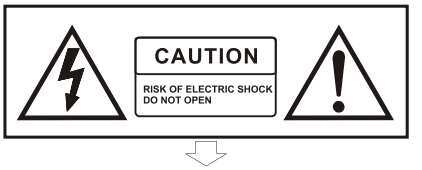
GDP-100

owner's manual

Precaution

Thank you for purchasing this digital instrument. For correct use, 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 apparatus to rain or moisture.
CAUTION: Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

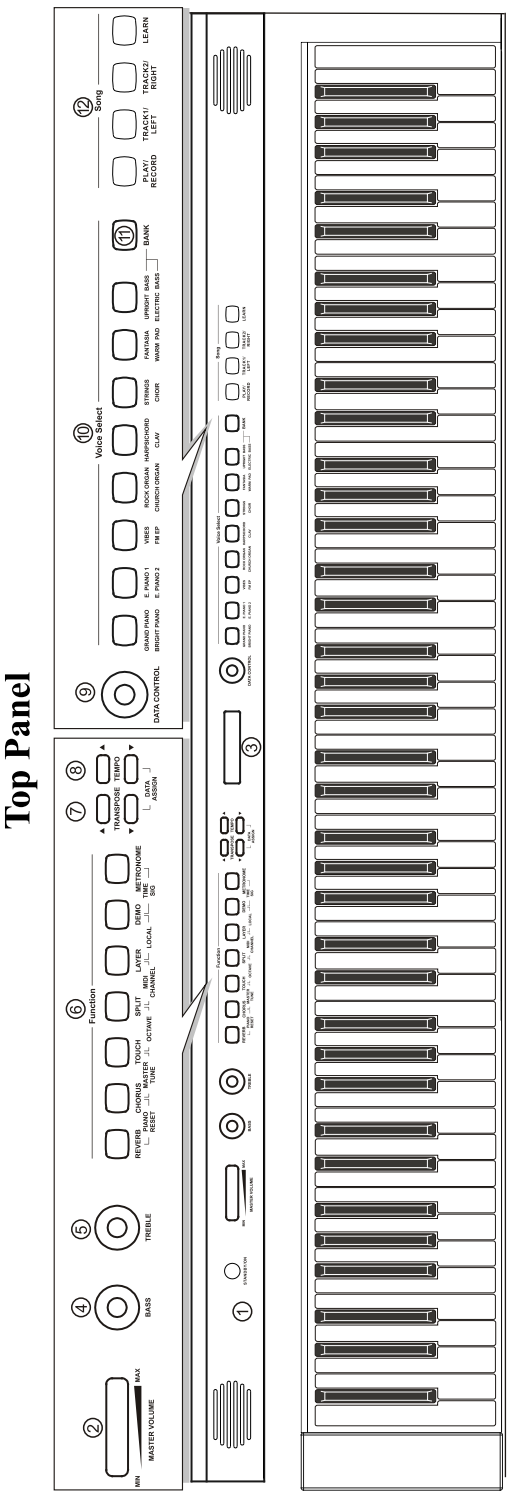
Thank you for choosing this digital piano

Your piano is a high quality digital piano featuring an 88 note hammer action, touch sensitive keybed 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 to play along to. The piano is more than great technology, your digital piano is also a stylish piece of furniture that will look great anywhere in your home. 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. We hope your new instrument will continue to entertain you for many years to come.

Contents

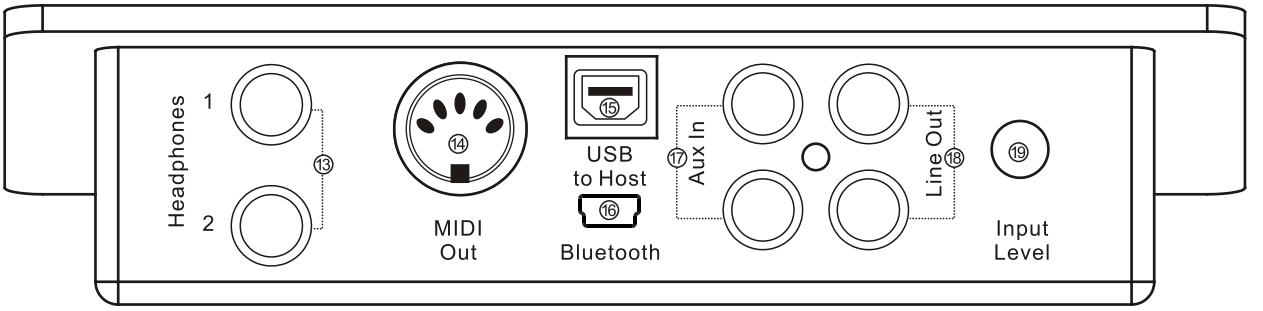
Panel Control **2**
Setup **4**
Basic Operation **5**
Standby/On 5
Auto Standby 5
Deactivate Auto Standby Function 5
Adjusting Volume & Start Playing 5
Piano Pedals 6
Bass & Treble 7
Piano Reset 7
Playing Demo Songs 8
The Connector Box **10**
Headphones 10
MIDI OUT 10
Line OUT 11
Using USB-MIDI 11
Aux In 12
Bluetooth 12
Voice & Functions **13**
Voice Select 13
Split Mode 14
Layer Mode 17
Using Split and Layer Modes Together 19
Transpose Button 20
Octave Function 21
Master Tune 22
Touch Select Mode 23
Reverb Effect 25
Chorus Effect 26
Metronome 28
Time Signature 29
Song Recording **30**
Record a Track 30
Play The Recording 31
Delete The Recording 32
Play Along Songs **33**
Selecting A Song 33
Listening To The Entire Song 33
Practicing The Right Hands Of The Selected Song 33
Practicing The Left Hand Of The Selected Song 34
Practicing The Both Hands Of The Selected Song 34
Exit Learning Mode 34
MIDI Functions **35**
Local On/Off 35
MIDI Channel 36
Data Control Assign 36
Appendix **38**
MIDI Implementation Chart 38
Data Control Assignments and MIDI CC List 39
Defaults 41
Factory Reset 43
Troubleshooting Hints 44
Specifications 45
Assembly Instructions 46

Panel Control



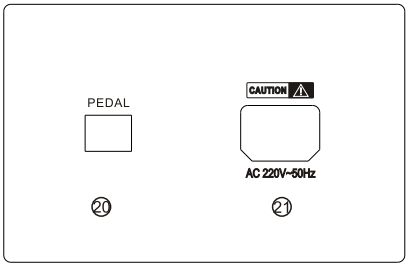
Top Panel

1. STANDBY/ON
2. Master Volume
3. LCD Display
4. Bass Control
5. Treble Control
6. Function Buttons
   - Reverb Button
   - Chorus Button
   - Touch Button
   - Split Button
   - Layer Button
   - Demo Button
   - Metronome Button
7. Transpose Buttons
8. Tempo Buttons
9. Data Control Knob
10. Voice Select Buttons
11. Bank Button
12. Song Recorder Buttons
    - Play / Record Button
    - Track 1 / Left Button
    - Track 2 / Right Button
    - Learn Button



Connections Panel

13. Headphones
14. MIDI Out
15. USB to Host
16. Bluetooth
17. Aux In
18. Line Out
19. Input Level



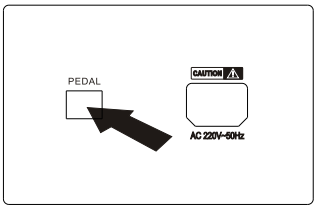
Rear Panel

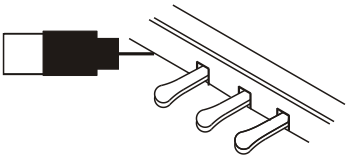
20. Pedal Connector
21. AC 220V

Setup

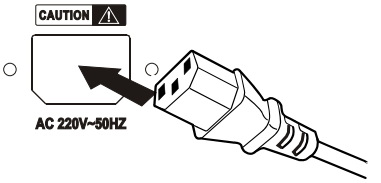
You are no doubt eager to play your new piano instrument, but first please make sure you have completed the following basic setup steps:

1) Follow the assembly instructions as outlined on page 46 in the appendix of this manual.
2) Once the piano is securely assembled, connect the plug of the foot pedal unit to the pedal jack on the rear panel.





3) Plug in the included power chord to the rear of the piano body as illustrated below. Position the piano in the desired location, making sure that the power chord can reach a 220v AC power connection point.



4) Then plug the other end of the power cable into the AC power outlet.

NOTE

1.Ensure the piano is turned off when connecting and disconnecting the power.
2.Turn the volume knob to its minimum level before turning on the power.

Standby/On

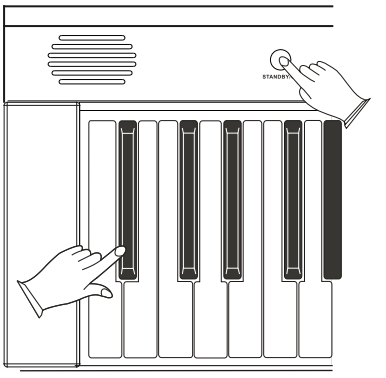
Press the [STANDBY/ON] button to turn on the power and the LCD display will light.

Auto Standby

Your piano will switch off automatically in 30 minutes after no any operation on it. In this case, press the [STANDBY/ON] button again to turn on the power.

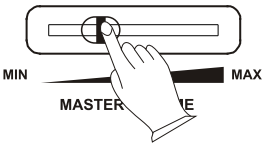
Deactivate Auto Standby Function

Hold the first white key and first black key on the left side of the keyboard at the same time and then press the [STANDBY/ON] button to deactivate the Auto Standby function.



Adjusting Volume & Start Playing

The speaker system in the piano is very powerful and can be overpowering in some rooms. Move the [MASTER VOLUME] fader to its halfway point. You can adjust the volume at any time even while you are playing .

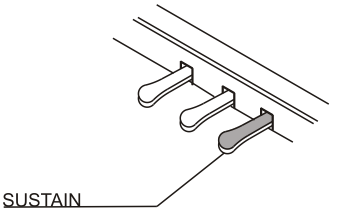


Now play the keyboard. You should hear the rich tone of the default Grand Piano sound.

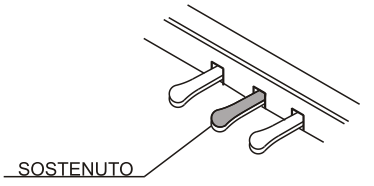
Piano Pedals

Just like a regular grand piano, your piano feature 3 foot pedals:

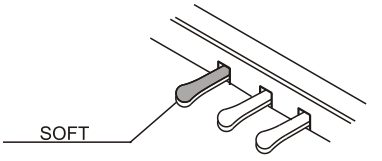
Damper Pedal (Right)
The damper pedal performs the same function as the damper pedal on an actual acoustic piano, letting you sustain the sound of the voices even after releasing your fingers from the keys.



Sostenuto Pedal (Center)
The sostenuto pedal also allows you to sustain notes, but it works a little different from the damper pedal. If you play a note or chord on the keyboard and press the sostenuto pedal while the notes are held, those notes will be sustained as long as the pedal is held. All subsequently played notes will not be sustained.

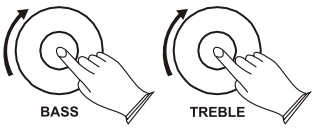


Soft Pedal (Left)
The soft pedal on an acoustic piano changes the character of the sound, making it softer and quieter. The soft pedal on your piano does exactly the same. Press the soft pedal when you need to play passages that require extreme pianissimo.



Bass & Treble

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

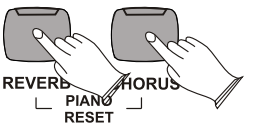


If you prefer a brighter sound move the Treble control to the right or move it to the left if you prefer a slightly darker tone.

Piano Reset

The Piano Reset Function resets selected aspects of the piano voices back to the default factory state. These elements are carefully selected to give you a quick and easy way to get you back to playing the main piano voice again.

Press the [REVERB] button and the [CHORUS] button at the same time.



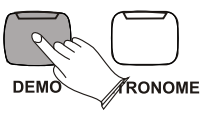
Now the piano is back in Performance Mode, with the Grand Piano voice selected. For a more detailed explanation of the Piano Reset function please check the appendix.

Playing Demo Songs

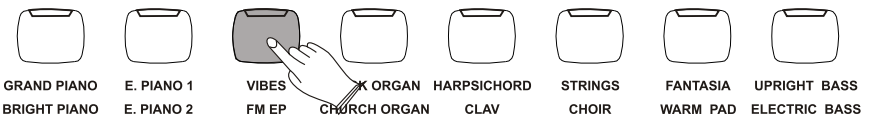
Piano comes pre-programmed with a selection of sixteen demo songs. Each of the demo songs is designed to demonstrate one of the instrument voices built into the piano.

To Start Demo Song Playback

Press the [DEMO] button to enter Demo Mode.
The display will show "DEMO01," and the Voice Select buttons will flash.



Press one of the Voice Select buttons to select a demo song.
The selected demo will play, and the corresponding Voice Select button will flash. If the Bank button is not lit, you will hear the Bank A voices (the top row of voices including Grand Piano, E. Piano 1, Vibes, etc.).



If you want to hear demo songs featuring the Bank B voices (the bottom row of voices including Bright Piano, E.Piano 2, FM EP, etc.), press the Bank button. It will flash.

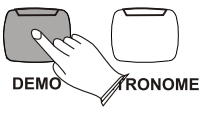
While in Demo Mode, as long as the Bank button is blink, pressing a Voice Select button will cause the demo song featuring that button's Bank B voice to play.

NOTE

.When the selected demo song has finished playing, the next demo song will play (following the order of the Voice Select buttons from left to right), and its corresponding Voice Select button will flash.
.When the last demo song of Bank A has finished playing, the first demo song of Bank B will begin. When the final demo song of Bank B ends, the first demo song of Bank A will begin again.

Stop Playing

Pressing the [DEMO] button at any point will stop playback and return piano to Performance Mode, allowing you to play the piano normally again.

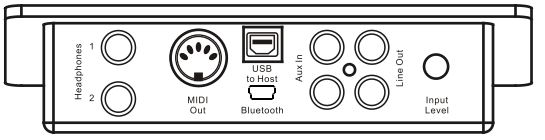


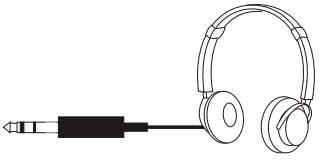
The Connector Box

The piano features a connection box which allows you to connect external audio equipment, a computer, other MIDI equipment or headphones. The following describes each option in more detail.

Headphones

Two sets of standard stereo headphones can be plugged in here for private practice or late-night playing. The internal speaker system is automatically shut off when a pair of headphones is plugged into PHONES jack1.





NOTE:

Never use headphones at a high volume, because high volume levels may cause permanent hearing damage.

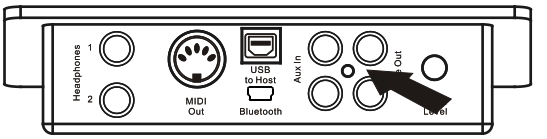
MIDI OUT

MIDI (Musical Instrument Digital Interface) is a world-standard communication interface which allows electronic musical instruments to communicate with each other, by sending and receiving compatible note, program change and other types of MIDI data. You should only plug the MIDI out in to another device featuring a MIDI input.

NOTE:
MIDI OUT Transmits MIDI data to another MIDI device.

Line OUT

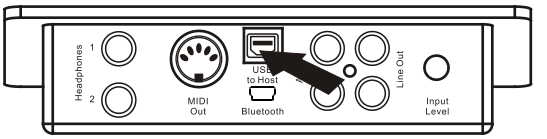
The piano's stereo RCA line output can be used to deliver the output of the piano to a keyboard amplifier, stereo sound system, mixing console or tape recorder.
The piano's internal sound system will remain on unless headphones are plugged in to the 1. Headphone jack.



Using USB-MIDI

This product allows the transfer of MIDI information over USB to a computer. As complicated this might sound, it's actually pretty straight forward. Because your piano is USB Class Compliant, there is no need to install a driver to enable it to work with compute. Simply just plug it in and the OS will do the rest. The piano will work with all standard MIDI based computer software.

USB AUDIO interface is a digital audio interface. By USB cable, you can digitally transfer intact audio signals of PC to this instrument, and enjoy it on this instrument or use it for accompany when you play this instrument; likewise, you can transfer intact audio signals of the instrument to PC to record and edit music.

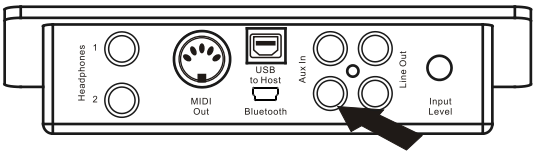


NOTE:
The piano also support the USB Audio.

Aux In

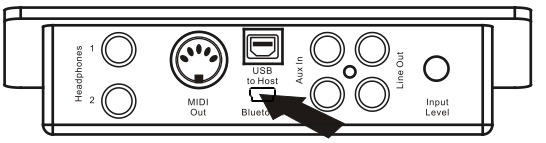
The Aux In stereo RCA connectors allow you to mix an external sound source (such as a CD player, MP3 player or computer output) with the piano's internal sounds, for playback through the piano's built-in speakers or headphone outputs.

The Aux In signal level can be adjusted using the Input Level knob.



Blue tooth

This piano can support Blue tooth with the Connection of the Blue tooth jack, Reference: Blue tooth.



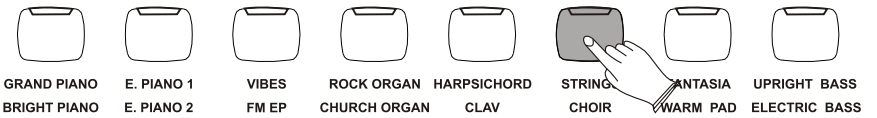
The Voice Select buttons are used together with the Bank button to change the currently selected voice.

Under the Voice Select buttons are two rows of voice names (a top row and a bottom row). When the Bank button is off (not lit), the voice select buttons may be used to activate any of the voices listed on the top row (Bank A). When the Bank button is lit, voices from the bottom row (Bank B) may be selected.

In either case, the name of the currently selected voice will be shown on the LCD.

Voice Select

Press the sixth Voice Select button to select the Strings sound.
The button's blue LED will light up, and “Strings” will appear on the LCD.
Play the keyboard to hear the Strings voice. Notice that the Bank button is not lit.



Press the Bank button.
The Bank button's blue LED will light up, and “Choir” will appear on the LCD. Play the keyboard to hear the Choir voice.

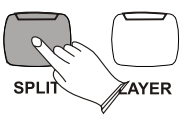
Of course, although the Strings and Choir voices were chosen for the example, the procedure is the same for all 16 available sounds.

Split Mode

In Split Mode, the keyboard is divided into two parts, with each part playing a different sound. This allows you to play two different instruments, for example, bass with your left hand and piano with your right hand. In Split Mode, the Split Voice will play on all keys to the left of, and including the Split Point (explained on the next page). The Main Voice will play on all keys to the right of the Split Point.

Use Split(left hand) Mode

Press the [SPLIT] button.
The LCD's first line will show the Main Voice and split point. The second line will show the Split Voice and the Split Voice volume setting:

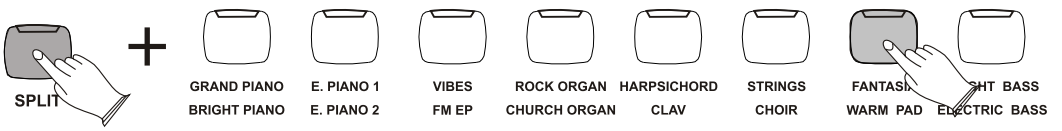


NOTE

In most cases, the number in the lower right corner of the LCD represents the current value of the Data Control knob. While in Split Mode, the Data Control knob defaults to controlling the Split Voice Volume. However, if you have assigned the Data Control knob to control a different function, the value for your custom setting will be displayed instead of the Split Voice Volume. For information on how to assign the Data Control knob to control different functions, see the “Data Control Assign” : MIDI Functions.

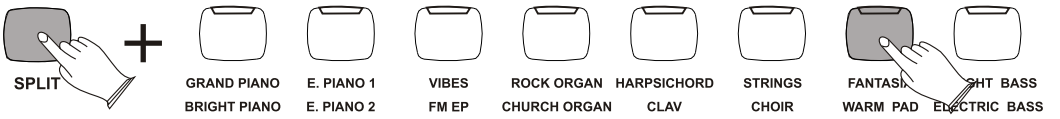
Change the Split(left hand) Voice

Press and hold the [SPLIT] button while selecting a Voice Select button.



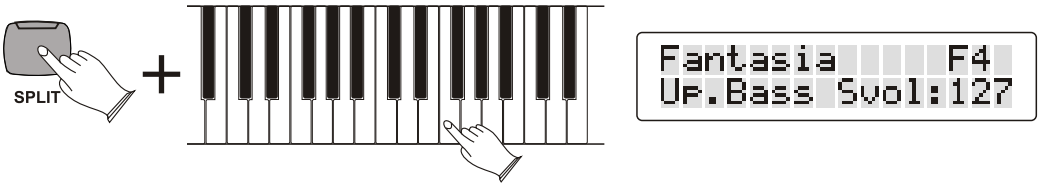
Change the Main(right hand) Voice

Press the [SPLIT] button to enter the [SPLIT] mode, then press a voice select button when the [SPLIT] indicator is not flashing.



Change the Split(left hand) Point

Press and hold the [SPLIT] button ,press anykey to select the split point.



Change the Volume of the Split(left hand) Voice

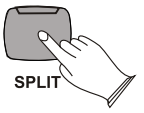
In split mode, Turn the [DATA CONTROL] knob to select a volume setting between 0 and 127.As long as you are in Split Mode, the Data Control knob controls the volume of the Split Voice (left hand voice).

Change the Volume of the Main(right hand) Voice

Press the [SPLIT] button to turn off Split Mode.

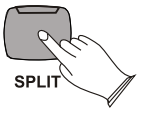
Turn the [DATA CONTROL] knob to select a volume setting between 0 and 127.

Press the [SPLIT] button to turn Split Mode back on.



Turn off Split(left hand) Mode

Press the [SPLIT] button to turn off Split Mode.



The default values for Split Mode are:
.Default Split Point: F#2
.Default Split Voice: Upright Bass

NOTE

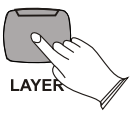
The Main Voice (right hand voice) will transmit on the selected Main MIDI Transmit Channel.
The Split Voice (left hand voice) will transmit on the Main MIDI Transmit Channel +1. For information on setting the Main MIDI Transmit Channel, please see the “MIDI Channel” : MIDI Functions.

Layer Mode

In Layer Mode, this piano will play two voices simultaneously on each key.

Turn on Layer Mode

Press the [LAYER] button.
The LCD's top line will show the Main Voice (first) and the Layer Voice (second).
The bottom line will show the tempo and the Layer Voice volume.

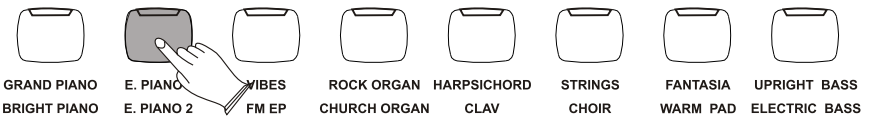


NOTE

That polyphony may be reduced while Layer Mode is in use.

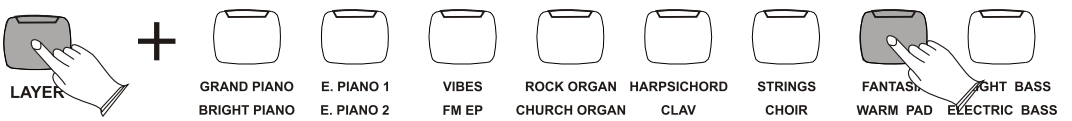
Change the Main Voice

Press the [LAYER] botton to enter the [LAYER] Mode, then press a voice select button when the [LAYER] indicator is not flashing.



Change the Layer Voice

Press and hold the [LAYER] Mode button while pressing a new Voice Select button.



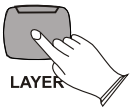
Adjust the Volume of the Layer Voice

Use the [DATA CONTROL] knob to adjust the volume.

Adjust the Volume of the Main Voice

Press the [LAYER] button to turn off Layer Mode.
Use the Data Control knob to adjust the Main Voice volume.

Press the [LAYER] button again to turn layer mode back on.

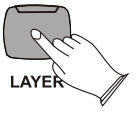


NOTE

The Main Voice will be transmitted on the selected Main MIDI Transmit Channel. The Layer Voice will be played on the selected Main MIDI Transmit Channel +2. For information on setting the Main MIDI Transmit Channel, please see the “MIDI Channel” : MIDI Functions.

Turn off Layer Mode

Press the [LAYER] button. The Layer button's LED will go dark.



Using Split and Layer Modes Together

When Split and Layer Modes are both enabled, Layer Mode will take priority, so the Data Control knob will be automatically assigned to control the volume level for the Layer Voice. If Layer Mode and Split Mode are both active, the Layer Voice will be added only to the Main Voice, not to the Split Voice. In other words, playing to the right of the Split Point will sound the Main and Layer Voices. Playing to the left of the Split Point will sound only the Split Voice.

The LCD will show a combination of all the voice information, and the Data Control knob value (which is the Layer Voice volume by default).

<Main Voice>+<Layer Voice>
<Split Voice> <Layer Voice Volume>

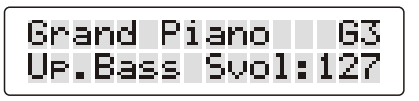
For example, the image on the left shows a setup with Grand Piano as the Main Voice, Strings as the Layer Voice and Upright Bass as the Split Voice.

NOTE

That the following instructions regarding using Layer Mode and Split Mode together are actually the same as if you were using either of the two modes separately, with the exception of the method for changing the Split Voice volume (which is different when using the two modes together).

Change the Main Voice Volume

Press the [LAYER] button to temporarily exit Layer Mode.



Press the [SPLIT] button to temporarily exit Split Mode.

Use the [DATA CONTROL] knob to adjust the Main Voice volume.

Press the [SPLIT] button again to reactivate Split Mode.

Press the [LAYER] button again to reactivate Layer Mode.

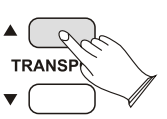
Transpose Button

The Transpose Up and Down buttons are used to increase or decrease the keyboard's transpose value, up to 12 semi-tones (one octave) up or down.

Use the Transpose Function

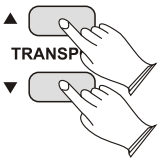
Each time you press the Transpose Up button, the pitch is raised by one semi-tone. In the same way, the Transpose Down button is used to lower the pitch in semi-tone increments.

Once you have changed the Transpose setting, the LCD will show a positive or negative value to the right of the voice name:(Rang:-12~12)



Each time you press the Transpose Up button, the pitch is raised by one semi-tone. In the same way, the Transpose Down button is used to lower the pitch in semi-tone increments.

Once you have changed the Transpose setting, the LCD will show a positive or negative value to the right of the voice name:



NOTE

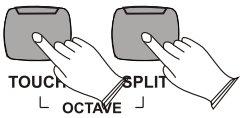
Changes to the Transpose setting are not remembered after a power-cycle. The setting will be back at its default value of zero at power-up.

Octave Function

Enabling the Octave function allows you to raise or lower the keyboard's pitch in octave increments.

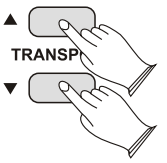
Use the Octave Function

Press the [TOUCH] and [SPLIT] buttons at the same time to enter Octave Shift Edit Mode. The top line of the LCD will show: Octave Shift: -0-



Use the [DATA CONTROL] knob (or the Transpose Up/Down buttons) to raise or lower the Octave Shift setting.(Rang:-03~03)

With Octave Shift Edit Mode enabled, press the [Transpose Up and Down buttons at the same time.



NOTE

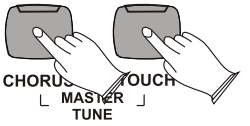
Changes to the Octave Shift setting are not remembered after a power cycle. The setting will be back at its default value of zero at power-up.

Master Tune

Although piano never actually slips out of tune, the Master Tuning function can be helpful when playing along with another instrument that may be tuned slightly higher or lower than standard pitch.

Adjust the Master Tune Setting

Press the [CHORUS] and [TOUCH] buttons at the same time.
The top line of the LCD will show: MasterTune: -0-



Use the [DATA CONTROL] knob (or the Transpose Up/Down buttons) to raise or lower the Master Tune setting.(Rang:-64~63)

NOTE

Changes to the Master Tune value are remembered after a power cycle. Also note that the Master Tune command is sent to the internal sound engine only. It will not affect MIDI sent from piano to an external MIDI device or software program.

Touch Select Mode

The Touch Sensitivity setting, sometimes referred to as the velocity curve, lets you decide how the pressure with which you hit a key determines the volume at which the note plays. piano provides you with three different sensitivity options:

Normal is the default setting, and is designed to be useful for most players with an "average" touch (i.e.: people who play with an average amount of force). **Low** is a sensitivity setting that generates lower velocity values for the same force. This setting is useful for playing more quietly, even if you tend to strike the keys harder.

High is a sensitivity setting that generates higher velocity values for the same force. This setting is useful for playing more loudly, even if you tend to strike the keys with less force.

Fixed is essentially the "off" setting, effective when when the Touch button is not lit. The same velocity value is sent regardless of how hard or how softly you strike the keys. The default Fixed velocity value is 90 (on a scale of 0-127), and can be adjusted (see next page).

Select a Touch Sensitivity Setting(Normal, Low, or High)

With the [TOUCH] button lit, press and hold the Touch button to enter Touch Select Mode.

While continuing to hold down the [TOUCH] button, use the [DATA CONTROL] knob (or the Transpose or Tempo Up/Down buttons) to select the desired Touch setting.

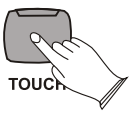
As you turn the [DATA CONTROL] knob, the LCD will scroll through the available Touch settings. (The “NORMAL” Touch setting is shown in the example below).

NOTE

Pressing the Transpose up and down buttons together while in Touch Select Mode will reset the Touch function back to its default value of Normal.

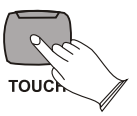
Set Touch Sensitivity to Fixed(off)

Press the Touch button. The blue LED will turn off.



Change the Fixed Velocity Value

With Touch Sensitivity turned off (Touch button is not lit), press and hold the [TOUCH] button.



While continuing to hold down the [TOUCH] button, use the [DATA CONTROL] knob (or the Transpose or Tempo Up/Down buttons) to select the desired Touch setting.

Reverb Effect

The built-in digital Reverb can be used for adding a natural-sounding room ambience to any of the 16 voices built into piano.

Apply Reverb to a Voice

Press the [REVERB] button.
The button will illuminate, and you will hear the Reverb effect when you play the currently selected voice.

To turn Reverb off, press the [REVERB] button again. The button will go dark to indicate that Reverb is off.

Adjust the Reverb Depth

While holding the [REVERB] button, turn the [DATA CONTROL] knob to adjust the Reverb Depth setting.
The LCD will show the current Reverb Depth setting. The minimum setting is 0, and the maximum setting is 127.

Once you have reached the desired amount of Reverb, let go of the Reverb button, and resume playing piano.

Change the Reverb Type

While holding the [REVERB] button, use the [TRANSPOSE] buttons to select a Reverb Type. The LCD will show the current Reverb Depth and Type.
Once you have selected the desired Reverb Type, let go of the Reverb button, and resume playing piano.

The following Reverb Types are available:

01	02	03	04	05	06	07	08
Hall 1	Hall 2	Room 1	Room 2	Room 3	Stage 1	Stage 2	Plate

Each of the 16 voices of piano will remember its individual Reverb on/off status, type and Depth setting, even after turning the Power switch off and on.

Chorus Effect

The built-in digital Chorus can be used for adding a rich, swirling stereo effect to any of the 16 voices built into piano.

Apply Chorus to a Voice

Press the [CHORUS] button.
The button will illuminate, and you will hear the Chorus effect when you play the currently selected voice.

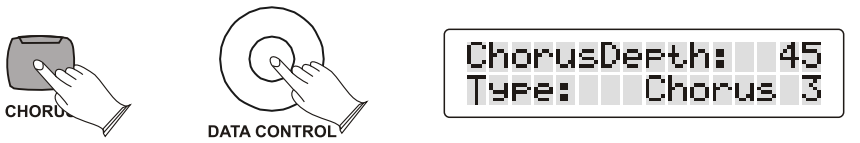
To turn Chorus off, press the Chorus button again. The button will go dark to indicate that Chorus is off.

NOTE

Depending on the default Depth setting for the selected Chorus preset, the effect may be quite subtle. To hear the Chorus more clearly, you may want to increase the Chorus Depth, as described in the next step.

Adjust the Chorus Depth

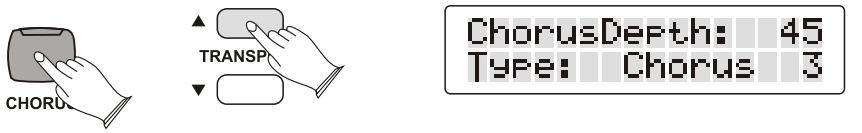
While holding the [CHORUS] button, turn the [DATA CONTROL] knob to adjust the Chorus Depth setting.
The LCD will show the current Chorus Depth and Type



Once you have the desired amount of Chorus, let go of the Chorus button, and resume playing piano.

Change the Chorus Type

While holding the [CHORUS] button, use the [TRANSPOSE] buttons to select a Chorus Type. The LCD will show the current Chorus Depth and Type.
Once you have selected the desired Chorus Type, let go of the Chorus button, and resume playing piano.



The following Chorus Types are available:

C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8
Chorus1	Chorus2	Chorus3	Chorus4	Feedback	Flanger1	ShrtDely	ShrtDlFb

Each of the 16 voices of piano will remember its individual Chorus on/off status, Type and Depth setting, even after turning the Power switch off and on.

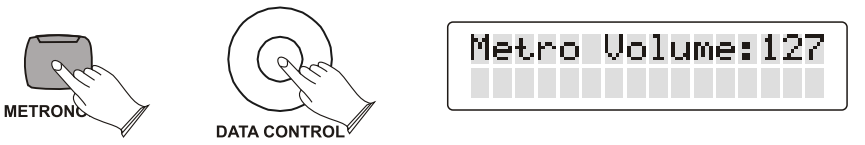
Metronome

The piano features a build-in metronome which you can use to practice your timing with. To activate it, simply press the METRONOME button.
You can set both volume, tempo and time signature for the metronome. The following describes how to adjust each of those functions.

Change the Metronome's Volume

While holding down the [METRONOME] button, turn the [DATA CONTROL] knob clockwise to increase volume, or counterclockwise to decrease volume.

The LCD will show the current Metronome Volume level. This can be adjusted between zero (minimum) and 127 (maximum).
When you have set a comfortable level, let go of the [METRONOME] button.



Change the Metronome's Tempo

Use the [TEMPO] Up/Down buttons (Up button increases tempo, Down button decreases tempo).

The Metronome can be programmed for any tempo between 20 beats per minute (bpm) and 280 bpm.

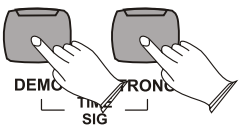
> NOTE
>
> Pressing both Tempo Up/Down buttons simultaneously will reset the Tempo to its default value of 120 bpm.

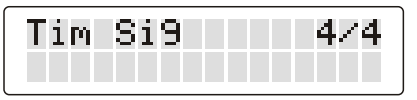
Time Signature

The metronome can support the following time signatures:2/2,1/4, 2/4, 3/4, 4/4, 5/4, 6/4,3/8,6/8, 7/8, 9/8, 12/8

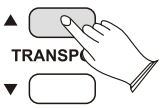
Change the Metronome's Time Signature

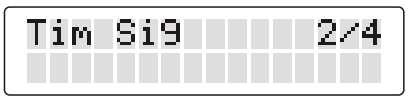
Press the [DEMO] and [METRONOME] buttons at the same time to enter Time Signature Edit Mode.
The top line of the LCD will show: Time Sig: 4/4





Use the [TRANSPOSE] Up or Down button to change the Time Signature.

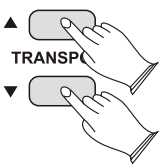


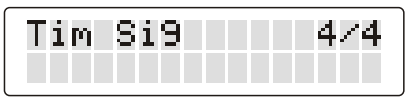


NOTE

After pressing the Demo and Metronome buttons in Step, you will have three seconds to begin using the Transpose Up or Down buttons (or the Data Control knob) to change the Time Signature. After three seconds, the piano goes back to Performance Mode (the basic “play the piano” setting), and the LCD goes back to its main screen. This three second “Time Out” function is common to most of the editing functions of piano.

While in Time Signature Edit Mode, press the [TRANSPOSE] Up and Down buttons at the same time to restore the defult value:4/4.





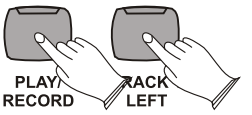
Song Recording

The Song Recorder (or sequencer) built into piano can record two individual tracks, allowing you to record one part and then play and record a second complementary part while the first part plays back.

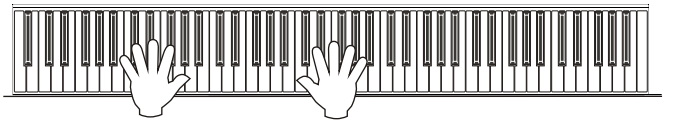
Record a Track

Track1

1.Hold down the [PLAY/RECORD] button , then press the [TRACK1/LEFT] button, the light of the [TRACK1/LEFT] button will flash and the light of the [PLAY/RECORD] button will turn on.



2.Play the music to start recording.



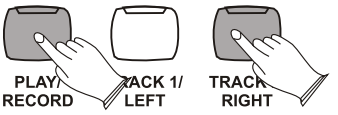
3.Press the [PLAY/RECORD] button again to end off the recording.

NOTE

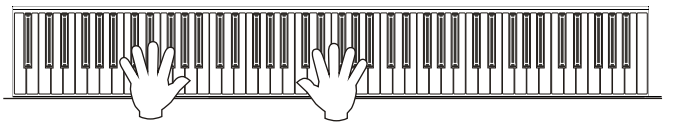
If the TRACK 2 has data recorded, the indicator will light and it will play when the record is started. You can press the [TRACK 2/RIGHT] button to mute it, then the indicator will be unlighted.

Track2

1.Hold down the [PLAY/RECORD] button ,then press the [TRACK2/RIGHT] button, the light of the [TRACK2/RIGHT] button will flash ,the light of the [PLAY/RECORD] button will turn on.



2.Play the music to start recording.



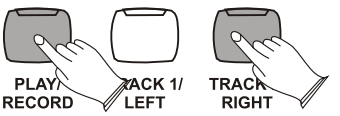
3.Press the [PLAY/RECORD] button again to end off the recording.

NOTE

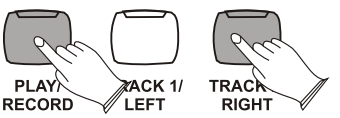
If the TRACK 1 has data recorded, the indicator will light and it will play when the record is started. You can press the [TRACK 1/LEFT] button to mute it, then the indicator will be unlighted.

Play The Recording

Press the [PLAY/RECORD] to play the local recording. During song playback you can select which track you wish to hear by press the [TRACK 1/LEFT]or [TRACK2/RIGHT] button.



Press the [PLAY/RECORD] button again to end off the recording.

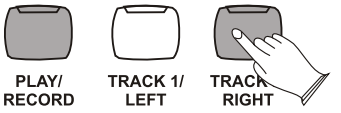


NOTE

That the button for any track into which material has been recorded will light.

Delete The Recording

Hold down the [TRACK 1/LEFT] or [TRACK2/RIGHT] button for 3 seconds until the LCD show: DELETE TRACK1? or DELETE TRACK 2?, then press the [TRACK 1/LEFT] or [TRACK2/RIGHT] button to delete the recording.

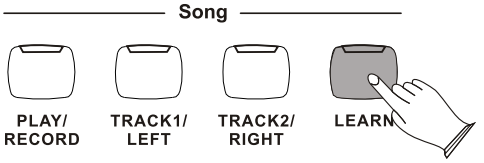


Play along Songs

There are 55 songs built into this Piano for your musical enjoyment. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the piano.

Selecting A Song

Press the [LEARN] button or press the [TRACK1/LEFT] and [TRACK2/RIGHT] button at the same time. The song number will appear on the LCD display. Both Right and Left indicator are OFF.

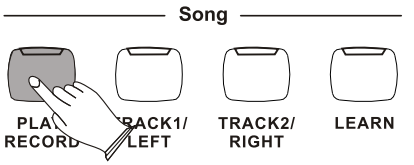


Use the [TRANSPOSE▲]/[TRANSPOSE▼] /[TEMPO▲]/[TEMPO▼] button to select a song. Press the [PLAY/RECORD] button to start the song.

Listening To The Entire Song

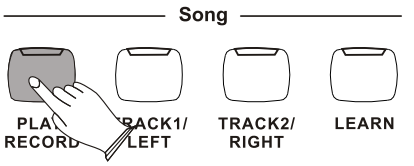
1). With the play along song mode engaged, press the [PLAY/RECORD] button to hear both hand parts playing the entire song.

2). Press the [PLAY/RECORD] button again to stop.



Practicing The Right Hand Of The Selected Song

1). With the play along song mode engaged, press the [RIGHT/TRACK2] button to mute the right hand part. The [RIGHT/TRACK2] button indicator lights up.



2). Press the [LEARN] button.Its indicator lights up and you will hear the metronome "count in" the song. You will then hear the left-hand part.

NOTE

The default status of the metronome is ON. Press the METRONOME button if you want to disable the metronome sound in the right / Left hand mode.

3). Play the right-hand part of your selected song while the left-hand part plays.

4). Press the [PLAY/RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

Practicing The Left Hand Of The Selected Song

Follow steps 1-4 listed above, substituting the LEFT button whenever RIGHT button is mentioned.You will hear the right-hand part of your selected song. Play the left-hand part of your selected song while the right-hand part plays.

Practicing The Both Hands Of The Selected Song

1). While the play along song mode is engaged.

2). Press the [LEFT/TRACK1] button first, then the [RIGHT/TRACK2] button.

3). Press the [LEARN] button. Its indicator lights up and you will hear the Metronome "count in" the song.

4). Play the left-hand and right-hand parts of your selected song. The metronome will continue to play to assist you in keeping time.

5). Press the [PLAY/RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

Exit Learning Mode

Hold the [LEARN] button or press the [TRACK1/LEFT] and [TRACK2/RIGHT] button at the same time again to exit Learning Mode.

MIDI Functions

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. A good rule to keep in mind is: If you don't know what a function described in this section is, then you probably don't need it.

MIDI, or Musical Instrument Digital Interface, is the way most electronic keyboards communicate with computers and with each other. Through a series of MIDI messages a computer or keyboard can tell an instrument what note to play, how loud to play it, when to stop playing it, and a host of other information.

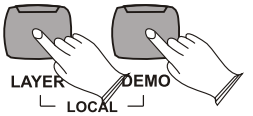
The piano can send MIDI information to a computer or another MIDI-capable instrument, via its MIDI or USB output. This enables the piano to act as a controller keyboard for another instrument, MIDI sequencer or MIDI enabled Digital Audio Workstation program.

Local On/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 Local off.

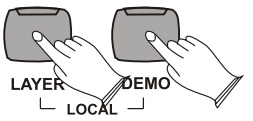
Turn Local On/Off to Off

Press the [LAYER] button and [DEMO] button at the same time. The LCD show:



Turn Local On/Off to On

Press the [LAYER] button and [DEMO] button at the same time again.
The LCD show:

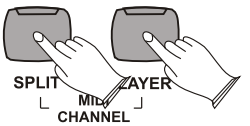


MIDI Channel

This function allows you to use the Data Control knob (or Transpose Up/Down buttons) to increase or decrease the Main MIDI Transmit Channel. The Main MIDI Transmit Channel is the MIDI channel used for the Main Voice.

Change the Main MIDI Transmit Channel

Press the [SPLIT] button and [LAYER] button simultaneously to enter MIDI Channel Edit Mode.
The display will begin flashing the current Main MIDI Transmit Channel:



Use the [DATA CONTROL] knob to change the Main MIDI Transmit Channel.
The new Main MIDI Transmit Channel will be selected and shown in the display.

If the keyboard is being played at the time of the MIDI Channel change, all new notes played will be sent on the new MIDI Channel. All held notes will play their note off messages on the MIDI Channel on which they were played.
While in MIDI Channel Edit Mode, pressing the Transpose up and down buttons together will reset the Main MIDI Transmit Channel function back to its default value of Channel 1.

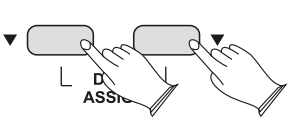
Data Control Assign

Though it controls Voice Volume by default, the Data Control knob can be assigned to send control messages for a variety of functions, including Octave, Master Tuning, MIDI Program Change, Tempo, and any of the standard MIDI CC (Control Change)

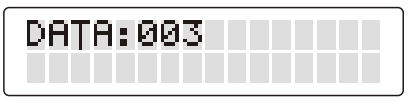
messages. A table containing all the possible Data Control knob assignments can be found in Appendix C -Data Control Assignments and MIDI CC List.

Change the Assignment of the Data Control Knob

Press the [TRANSPOSE] Down and Tempo Down buttons at the same time.



Turn the [DATA CONTROL] knob to scroll through the possible assignments until you see the desired assignment on the LCD.



After approximately three seconds, the keyboard will go back into Performance Mode, with your new Data Control knob assignment.
Please note that the default assignment for the DataControl knob is 007-VolumC.

Appendix

MIDI Implementation Chart

Function	Transmitted	Recognized	Remarks
Basic Default	1-16	1-16	
Channel Changed	1-16	1-16	
Mode Default	Mode 3	Mode 3	
Messages	O	X	
Altered	********	X	
Note True voice	0~127	0~127	
Number	********		
Velocity ON	O	O	
Note OFF	O	O	
After Key's	X	X	
Touch Touch Channel	X	X	
Pitch Bend	X	X	
Control Change	0-127	0,1,5,6,7,10,11, 32,64,65,66,67, 80,81,91,93,100, 101,121	
Program	0-127	0-15	*16 sounds only
Change True #	********		PGM=0-15
System Exclusive	O*	O*	*The controller will recognize and respond to GM Device inquiries. Master Tune supported. Master Volume supported.
System Song Position Pointer	X	X	
Common Song Select	X	X	
Tune Request	X	X	
System Clock	X	X	
Real Time Commands	X	X	
Aux All Sounds Off*	O	O	
Messages Reset All Controllers	O	O	
Local ON/OFF*	O	O	
ALL Notes OFF	O	O	
Active Sensing	X	O	
System Reset	X	O	
Notes			

Mode1:OMNI ON,POLY Mode2:OMNI ON,MONO O: Yes
Mode3:OMNI OFF,POLY Mode4:OMNI OFF,MONO X: NO

Data Control Assignments and MIDI CC List

CC no.	Controller Name	Display Name	Name(3 char)	Default Value
	Octave	Octave	Oct	0
	Transpose	Transpose	Tra	0
	Voice Volume	Voice Vol	Vol	127
	Layer Volume	Layer Vol	Vol	70
	Split Volume	Split Vol	Vol	127
	Metronome Volume	Metro Vol	Vol	100
	Time Signature	Time Sig	TSg	4/4
	Program Change	PGM Change	PGM	0
	Bank Change LSB	Bank LSB	LSB	0
	Bank Change MSB	Bank MSB	MSB	0
	MIDI Transmit Channel	MIDI Chan	Cha	1
	Voice Select	Voice Sel	Sel	0
	Master Tune	Master Tune	Tun	0
	Tempo	Tempo	Tem	120
0	0 Bank Select (coarse)	000-Bank C	CC	0
1	1 Modulation Wheel (coarse)	001-Mod C	CC	0
2	2 Breath controller (coarse)	002-BrethC	CC	0
3		3	CC	0
4	4 Foot Pedal (coarse)	004-FootPC	CC	0
5	5 Portamento Time (coarse)	005-PortaC	CC	0
6	6 Data Entry (coarse)	006-DataEC	CC	0
7	7 Volume (coarse)	007-VolumC	Vol	127
8	8 Balance (coarse)	008-BalanC	CC	0
9		9	CC	0
10	10 Pan position (coarse)	010-Pan C	Pan	0
11	11 Expression (coarse)	011-Expr C	Exp	0
12	12 Effect Control 1 (coarse)	012-Eff1 C	CC	0
13	13 Effect Control 2 (coarse)	013-Eff2 C	CC	0
14		14	CC	0
15		15	CC	0
16	16 General Purpose Slider 1	016-GenPr1	CC	0
17	17 General Purpose Slider 2	017-GenPr2	CC	0
18	18 General Purpose Slider 3	018-GenPr3	CC	0
19	19 General Purpose Slider 4	019-GenPr4	CC	0
20-31		020, 021, 022 ... 031	CC	0
32	32 Bank Select (fine)	032-Bank F	CC	0
33	33 Modulation Wheel (fine)	033-Mod F	CC	0
34	34 Breath controller (fine)	034-BrethF	CC	0
35		35	CC	0
36	36 Foot Pedal (fine)	036-FootPF	CC	0
37	37 Portamento Time (fine)	037-PortaF	CC	0
38	38 Data Entry (fine)	038-DataEF	CC	0
39	39 Volume (fine)	039-VolumF	CC	127
40	40 Balance (fine)	040-BalanF	CC	0
41		41	CC	0

CC no.	Controller Name	Display Name	Name(3 char)	Default Value
42	42 Pan position (fine)	042-Pan F	CC	0
43	43 Expression (fine)	043-Expr F	CC	127
44	44 Effect Control 1 (fine)	044-Eff1 F	CC	0
45	45 Effect Control 2 (fine)	045-Eff2 F	CC	0
46-63		046, 047, 048 ... 063	CC	0
64	64 Hold Pedal (on/off)	064-Sustai	CC	0
65	65 Portamento (on/off)	065-Portam	CC	0
66	66 Sostenuto Pedal (on/off)	066-Sosten	CC	0
67	67 Soft Pedal (on/off)	067-SoftPd	CC	0
68	68 Legato Pedal (on/off)	068-Legato	CC	0
69	69 Hold 2 Pedal (on/off)	069-HoldP2	CC	0
70	70 Sound Variation	070-Var	CC	64
71	71 Sound Timbre	071-Timbre	CC	64
72	72 Sound Release Time	072-Releas	CC	64
73	73 Sound Attack Time	073-Attack	CC	64
74	74 Sound Brightness	074-Bright	CC	64
75	75 Sound Control 6	075-CTRL 6	CC	0
76	76 Sound Control 7	076-CTRL 7	CC	0
77	77 Sound Control 8	077-CTRL 8	CC	0
78	78 Sound Control 9	078-CTRL 9	CC	0
79	79 Sound Control 10	079-CTRL10	CC	0
80	80 General Purpose Button 1 (on/off)	080-GenBt1	CC	0
81	81 General Purpose Button 2 (on/off)	081-GenBt2	CC	4
82	82 General Purpose Button 3 (on/off)	082-GenBt3	CC	2
83	83 General Purpose Button 4 (on/off)	083-GenBt4	CC	0
84-90		084, 085, 086 ... 090	CC	0
91	91 Effects Level	091-FXLevl	CC	40
92	92 Tremolo Level	092-Tremel	CC	0
93	93 Chorus Level	093-Chorus	CC	0
94	94 Celeste Level	094-Celest	CC	0
95	95 Phaser Level	095-Phaser	CC	0
96	96 Data Button increment	096-DatInc	CC	0
97	97 Data Button decrement	097-DatDec	CC	0
98	98 Non-registered Parameter (fine)	098-NRPN F	CC	127
99	99 Non-registered Parameter (coarse)	099-NRPN C	CC	127
100	100 Registered Parameter (fine)	100-RPN F	CC	127
101	101 Registered Parameter (coarse)	101-RPN C	CC	127
102-119		102, 103, 104 ... 119	CC	0
120	120 All Sound Off	120-SndOff	CC	0
121	121 All Controllers Off	121-CTLOff	CC	0
122	122 Local Keyboard (on/off)	122-Local	CC	0
123	123 All Notes Off	123-NoteOf	CC	0
124	124 Omni Mode Off	124-OmniOf	CC	0
125	125 Omni Mode On	125-OmniOn	CC	0
126	126 Mono Operation	126-Mono	CC	0
127	127 Poly Operation	127-Poly	CC	0

Defaults

Default Settings

The table below shows the piano factory default settings and whether or not user changes to these settings are retained after a power-cycle (turning the device off and on):

Parameter	Factory Default	Retained on Power-Down
Program Number & Voice Selected	0	No
Voice Button Bank Selection	Off	No
Bank MSB Number	0	No
Bank LSB Number	0	No
Transmit Channel	00(channel 1)	No
Octave shift	0	No
Transpose	0	No
Local	On	No
Data Control Assignment	Data = cc:007 Volume	Yes
Data Control Value (per assignment and only CC - not including PGM or Bank LSB/MSB)	Value of cc:007	Yes
Velocity Curve Selected	“NORMAL”	Yes
Voice Volume	127	Yes
Metronome Volume	127	Yes
Master Tune	0	Yes
Tempo	120	Yes
Reverb On/Off	Reverb On	Yes - store for each sound
Reverb Depth	Defaults for each sound	Yes - store for each sound
Reverb Type	Defaults for each sound	Yes - store for each sound
Chorus On/Off	Chorus Off	Yes - store for each sound
Chorus Depth	Defaults for each sound	Yes - store for each sound
Chorus Type	Defaults for each sound	Yes - store for each sound
Split Mode On/Off	Off	No
Split Point	#F2	Yes
Split Mode Voice	8 - Upright Bass	Yes
Split Volume	127	Yes
Layer Mode On/Off	Off	No
Layer Mode Voice	7 - Strings	Yes
Layer Volume	75	Yes

At power-on, the following MIDI data will be sent to the sound engine, the USB MIDI and the MIDI Out:

1. Bank Change MSB=0, LSB=0, PGM=0 - Set sound engine to piano voice
2. Reverb default value
3. Chorus default value

Reverb and Chorus Defaults

No.	Sound Name	Reverb On/Off	Reverb Depth	Reverb Type	Chorus On/Off	Chorus Depth	Chorus Type
0	Grand Piano	Off	40	4	Off	45	2
1	Bright Piano	Off	40	0	Off	45	3
2	E. Piano 1	Off	35	1	On	45	2
3	E. Piano 2	Off	38	1	Off	45	3
4	Vibes	Off	35	4	Off	45	2
5	FM EP	Off	50	4	On	45	2
6	Rock Organ	Off	48	1	Off	45	1
7	Church Organ	Off	96	5	Off	45	3
8	Harpsichord	Off	50	0	Off	45	2
9	Clav	Off	35	1	On	45	4
10	Strings	Off	54	4	Off	45	2
11	Choir	Off	127	4	Off	45	1
12	Fantasia	Off	64	4	Off	45	1
13	Warm Pad	Off	40	4	Off	45	2
14	Upright Bass	Off	35	6	Off	45	3
15	Electric Bass	Off	35	0	On	45	1
MIDI Channel 10	n/a (Metronome)	Off			Off		

Factory Reset

Turn off the power. Hold [REVERB] and [CHORUS], then turn the power on. It can restore all internal settings to factory set.
As soon as the Factory Reset function is activated (by pressing the Reverb and Chorus buttons simultaneously), the device will perform the following functions:

1. Turn Local On
2. Send “All Notes Off” Command on MIDI Channel 1 - external and to the internal sound engine
3. Send “Reset All Controllers” Command on MIDI channel 1 - external and to the internal sound engine
4. Assign Data Control to MIDI Controller 7 (Volume)
5. Set Volume levels for Main Voice, Split Voice and Layer Voice to defaults
6. Set Pan to 64 for Main Voice, Split Voice and Layer Voice
7. Turn off Layer Mode and Split Mode
8. Set Global Transmit Channel to 1
9. Set Transpose and Octave Shift both back to zero
10. Send a Bank Change MSB = 0 and Bank Change LSB = 0 on channel 1
11. Send a Program Change = 0 on channel 1
12. Send the Reverb Depth back to the default value for the Piano Voice
13. Send the Chorus Depth back to the default value for the Piano Voice
14. Send the current status of the Sustain Pedal on channel 1

The device will remain in Performance Mode during the Piano Reset function. The LCD display will show “Piano Reset” for 1 second and then return to the default display.

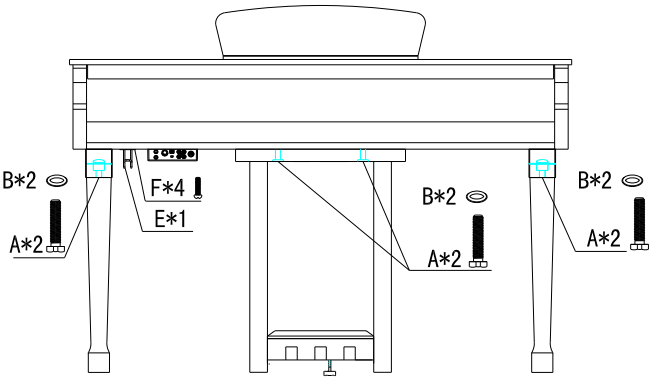
Troubleshooting Hints

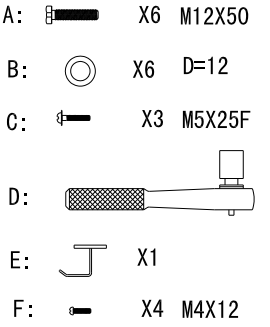
• When the instrument is turned on or off, a Popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
• When using a mobile phone, noise is produced. Using a mobile phone in close proximity to the instrument may produce interference.	To prevent 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 Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.
• The Auto Accompaniment does not sound properly.	Make sure that the Auto Accomp Volume Function is set to an appropriate level. Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate position on the keyboard. Is the chord indicator showing in the LCD display? If it is not showing, press the CHORD button so that it does show.
• No sound produced by the keyboard, but the lights and screen work.	Check that the master volume control is not set to minimum. Check that nothing is plugged into the headphone socket.
• 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, etc. does not play correctly. • The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones, or use the supplied AC adaptor. If you have lost or damaged your AC adaptor, please contact your nearest store for a correct replacement adaptor. An incorrect AC mains adaptor which is not rated sufficiently can cause malfunction or damage.
• To completely restore all settings as per factory settings	Perform a factory reset, Please refer to content in this owner's manual. All of the user setting will be erased and the default factory settings will be applied to the instrument.
• Power suddenly and unexpectedly turns off, after a period of not touching the keys.	This is normal and the Auto Power Off function may have been activated. If you need to disable the Auto Power Off function, please see how to do this in the owner's manual.
• The sustain pedal or footswitch seems to produce the opposite effect. Example pressing the footswitch deactivates the sustain, and releasing the footswitch triggers the sustain.	The polarity of the footswitch needs to be correctly detected.Make sure the jack plug for the footswitch is connected. Switch the instrument on whilst not touching the pedal.

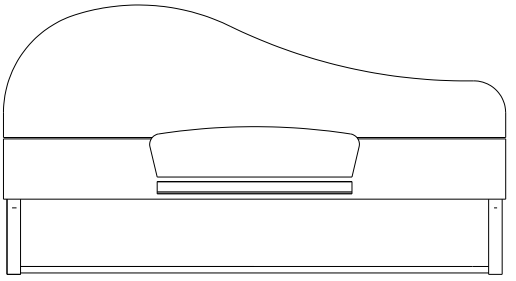
Specifications

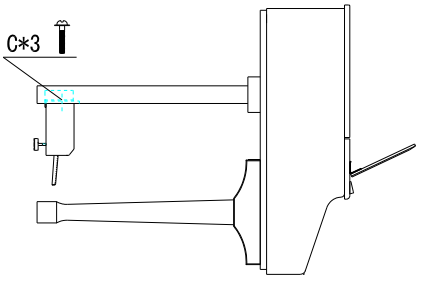
Keyboard	88 Keys With Touch Sensitivity
Display	LCD Display
Voice	16, 8 Direct Selection Buttons
Polyphony	64
Voice Control	Layer, Touch, Transpose, Split, Metro, Octave
Keyboard Control	Split, 3 Touch Sensitivity and Fixed Touch Response, Layer
Pedals	Soft, Sostenuto, Sustain
Effect	Bass,Treble,8 Reverb Types and Reverb Level 8 Chorus Types and Chorus Level
Demo Song	16 demo + 55 learning songs
Coach Feature	Left/Right part On/Off
Song Recording	2 tracks of record and playback without USB DISK
Midi	Transmit Settings, Local Control, USB MIDI
Connectors	Headphones, MIDI Out, USB to Host, Bluetooth, Aux In, Line Out, Input Level, PEDAL, AC 220V
Dimensions(W x D x H)	1490mm×520mm×415mm
Weight	72.9Kgs
Supplied Accessories	Owner's Manual

Assembly Instructions

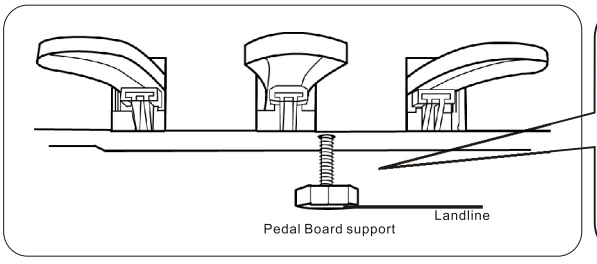








Turn the adjustable Pedal Board support, until it is in firm contact with the floor.



Before moving the piano to a new location, always remember to raise the level of the Pedal Board support so that it is not touching the floor. Once the piano is in place, you can adjust it so it is in firm contact with the floor again.