

KURZWEIL®

KA50

USER'S MANUAL

English Manual

HDC YOUNG CHANG

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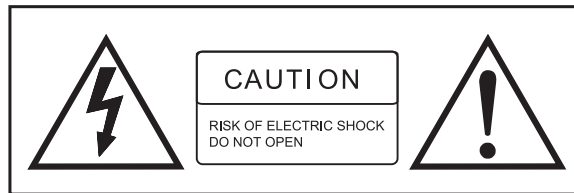
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Precaution

Thank you for purchasing this digital instrument. For correct operation and safety, 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.



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; 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 for a long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in anyway, such as the 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.
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.

WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Thank You for Using Our Digital Piano

Your portable 88 note piano not only contains leading and innovative technology but it also is developed by and for musicians of all playing levels. Featuring a natural balanced keyboard action and an advanced acousta ridge tone generation sound technology, that will provide you with a rich performing and playing experience.

This Performer offers many features and connection possibilities. To get the most out of your instrument, please read this manual and try out the various functions that can compliment your playing style.

Whether it is on stage, studio or home, your new portable piano is designed to give you many years of musical enjoyment.

Features Include:

- . 88 Key Natural Balanced Keybed
- . 16 Acousta Ridge Instrument Voices
- . DSP Functions for additional realism
- . USB to Host and USB Audio Connection
- . MIDI, Stereo and Mono Line Outs
- . Battery Operated (6 D Cell Batteries are not included)
- . Includes DC Adaptor, Sustain Pedal, Music Rack and more

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 generatee 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 :

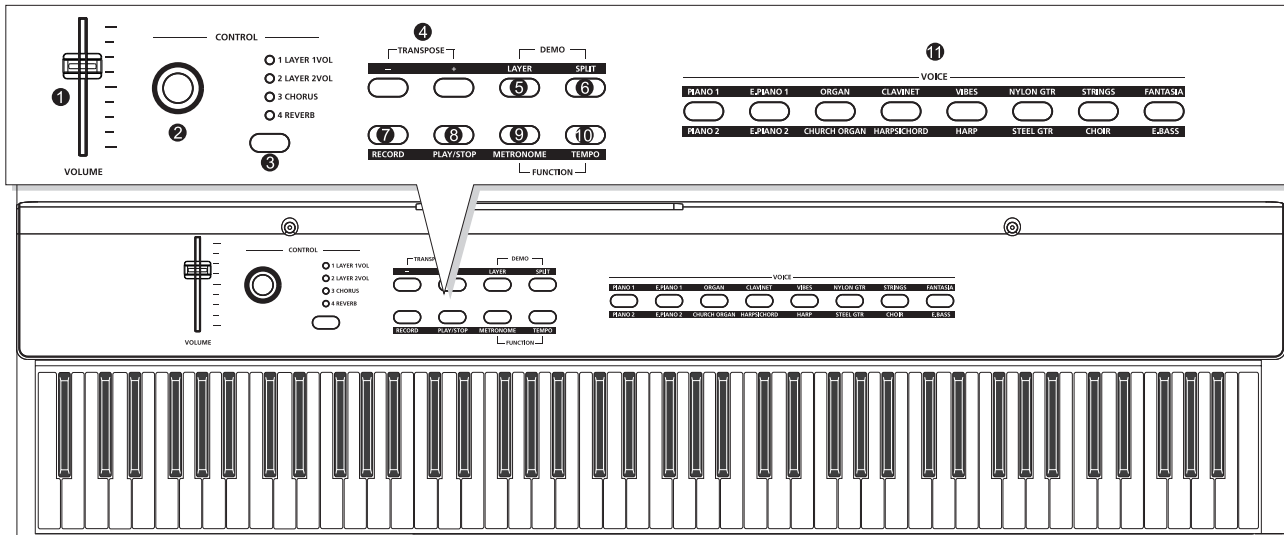
- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

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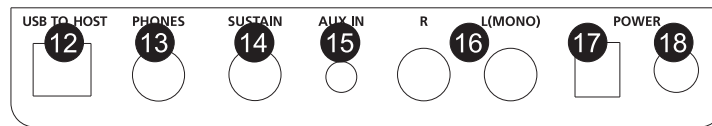
Panel Control

Top Panel



- | | | | |
|------------------|--------------------|---------------------|------------------|
| 1 VOLUME | 4 TRANSPOSE Button | 7 RECORD Button | 10 TEMPO Button |
| 2 MASTER VOLUME | 5 LAYER Button | 8 PLAY/ STOP Button | 11 VOICES Select |
| 3 Control Button | 6 SPLIT Button | 9 METRONOME Button | |

Rear Panel

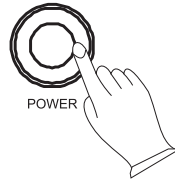


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|---------------------|-----------------|------------------------|-----------------|
| 12 USB TO HOST Jack | 14 SUSTAIN Jack | 16 LINE OUT(R) Jack | 18 POWER ON/OFF |
| | | LINE OUT(L)(MONO) Jack | |
| 13 PHONES Jack | 15 AUX IN Jack | 17 DC POWER Jack | |

Getting Started

Turn on the power

Before playing turn the power on by pressing the POWER switch, the control panel LED will turn on.

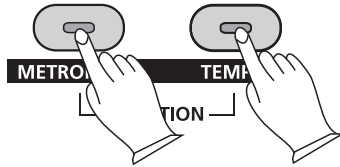


NOTE

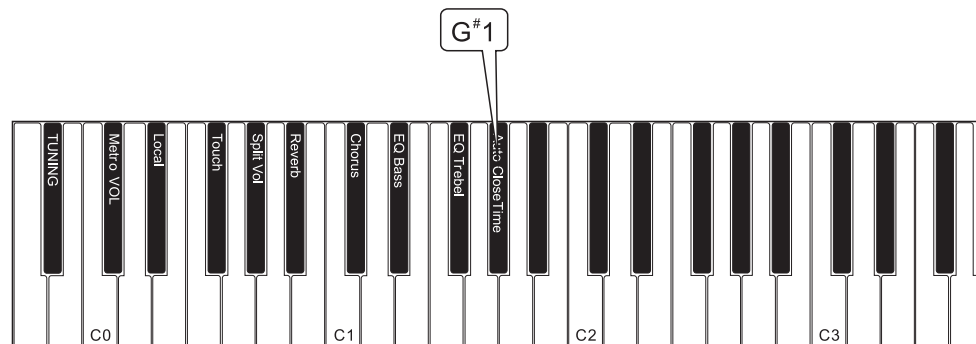
If you don't play the piano for 30 minutes then the piano will automatically turn off after 30 minutes. This energy saving function can be altered to the user's desired setting.

To Adjust the Auto Power On/Off Mode

Press the [METRONOME] and the [TEMPO] buttons together to enter the function mode.



Pressing the G#1 piano key allows the user to switch the Auto Power On or Off. Press down the B-1 Key for Auto Power On(off time:30min) or press down A-1 key for Auto Power Mode to be Off.



Press the [METRONOME] and the [TEMPO] buttons together again to exit the function mode.

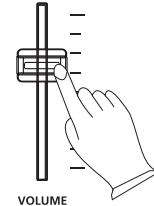
Getting Started

NOTE

The factory default mode is for the Auto Power to be in the On Mode.

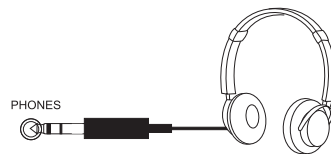
Set the Volume

Use the [VOLUME] fader to adjust the volume about half way between the "MIN" and "MAX" settings. Then adjust the volume to accommodate your desired performance playing volume.



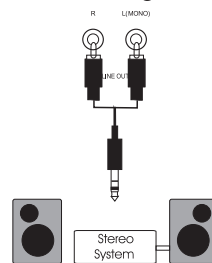
Using Headphones

Headphones can be plugged into the PHONES jack for private practice or late-night playing. The internal speaker system is automatically turned off when a pair of headphones is plugged into PHONES jacks.



Using External Sound System

The Line Out jack(R) and Line Out jack(L)(MONO) can be used to deliver the output of the piano to a keyboard amplifier, powered monitor speakers, stereo sound system, mixing console, recording devices etc..



Using USB-MIDI

This piano allows the transfer of MIDI over USB. There is a specific way in which the MIDI signals are routed for maximum flexibility.

This piano is a USB TO HOST digital piano, so the keyboard not only sends MIDI signals to the internal sound bank (just like normal) but also sends MIDI signals simultaneously to the internal MIDI connection of the USB device you are connecting to. Additionally it also connected to play audio files through the internal amplifier of the Performer Piano, giving the user endless connectivity options.



USB TO HOST

Getting Started

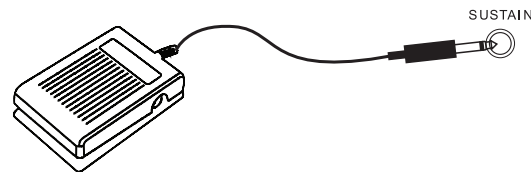
USB Audio

As mentioned the Performer Piano offers USB Audio.

This means that you can plug in via a USB Cable to your Laptop, Tablet, iPad, and SmartPhone and be able to hear your device's audio through the piano's speaker system. This is very useful for example when you are recording your piano with your laptop and want to listen back through the piano's speakers. Or if you are using some of the instrument voices from an APP like Garage Band from your iPad/Tablet/Smartphone. This way you can hear it through the piano's sound delivery system instead of just your device's speakers or headphones.

Sustain Pedal

The Sustain pedal included with your digital piano, when engaged will cause piano key sounds to decay slowly as if they were being held down. A piano-style pedal may optionally be used. The jack will auto-detect the polarity of the sustain pedal.



NOTE

Make sure the piano is turned off before connecting the Sustain pedal.
To change polarity, hold the foot pedal down during power up.

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 headphones outputs.

Using the Included Power Adapter

Please use only the provided adapter and plug it into the DC Power Jack on the back of the piano.

Using Battery Power

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

Always replace all of the batteries at the same time. 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.

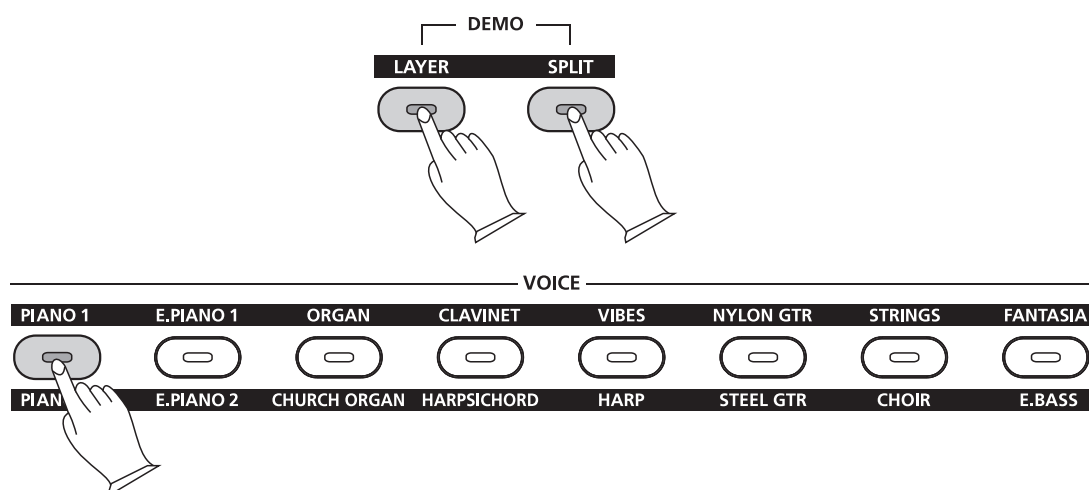
Demo Songs

There are 16 demo songs in the piano. Each demo song will demonstrate a different instrument voice. Here's how you can select and play the demo songs.

Select the Demo Song

The demo songs may be selected by pressing the [LAYER] and [SPLIT] buttons simultaneously. The first demo song is the PIANO 1 voice.

The [LAYER] button, the [SPLIT] button and the selected voice buttons will flash.

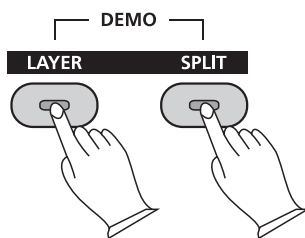


During playback, another demo song may be chosen by pressing a different Voice Select Button.

Stop the Demo Song

To stop the demo song. Press the [LAYER] button and the [SPLIT] button simultaneously again.

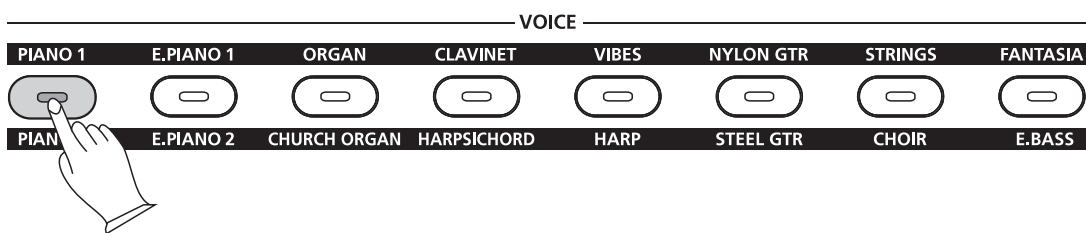
To replay the current song from the beginning, press the flashing voice select button.



Voice

Selecting a Voice

The piano has 16 built-in instrument voices, which include several piano voices as well as other instruments. These digitally-sampled musical instrument sounds may be selected one at a time or they can be layered to produce two voices at once. To select an instrument voice (Main voice), press the appropriate Voice Select button.

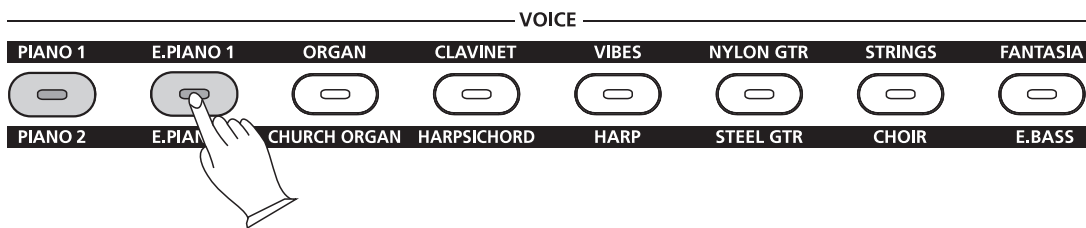
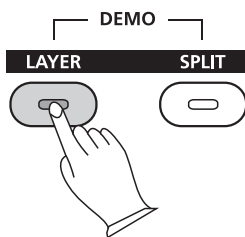


NOTE

Two direct voices for each button, press the same button twice, the voice will be changed between the upper and nether.

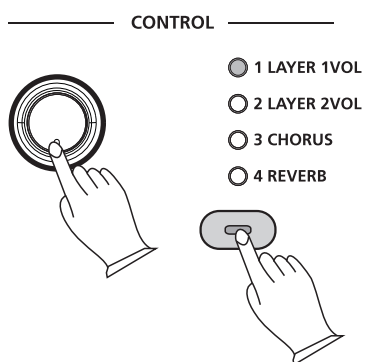
Layer Mode

In Layer mode two voices may be played simultaneously. Press the [LAYER] button to enter Layer mode, the LED will flash, press the Voice button to select the layer voice. The layer voice LED will light.



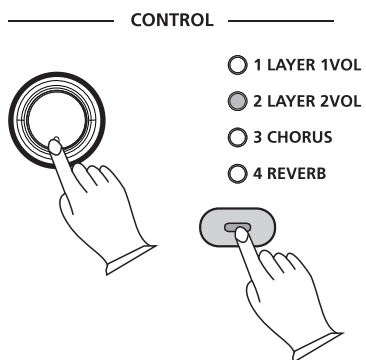
To Adjust the Volume of Main Voice in the Layer Mode

In the layer mode, press the control buttons repeatedly to select 1 LAYER 1VOL, the LED will light, then use the control knob to adjust the main voice.



To Adjust the Volume of Layer Voice in the Layer Mode

In the layer mode, press the control buttons repeatedly to select 2 LAYER 2VOL, the LED will light, then use the control knob to adjust the layer voice.



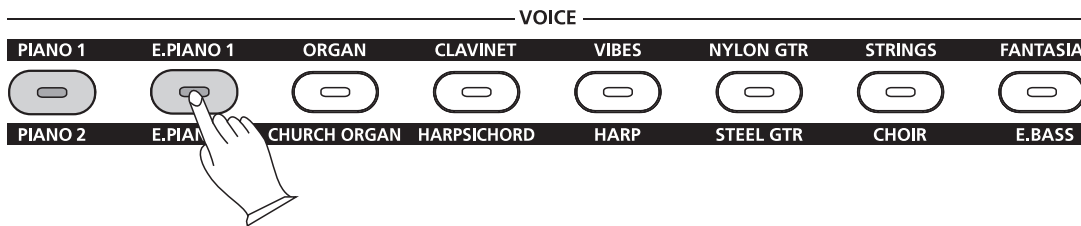
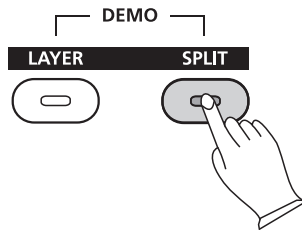
Press the [LAYER] button again to exit the Layer mode.

Voice

Split Mode

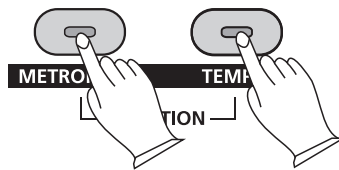
Split Mode allows the keyboard to be divided into two sections so that different voices may be played with the left and right hands.

Press the [SPLIT] button to enter split mode, the LED will flash, press the Voice button to select the split voice. The split voice LED will light.

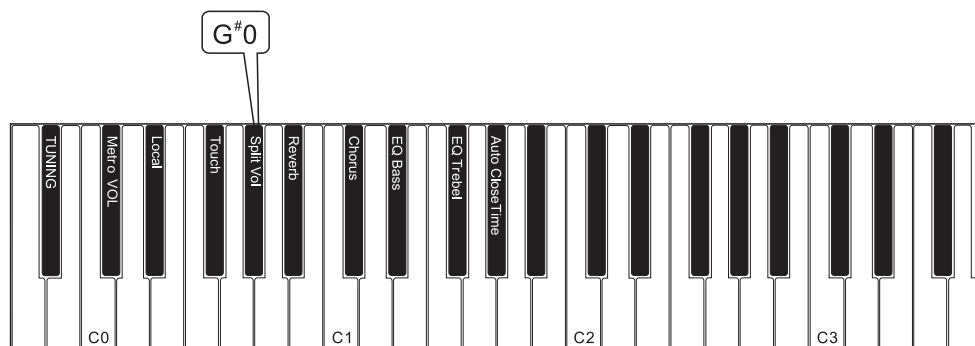


Setting the Split Voice Volume

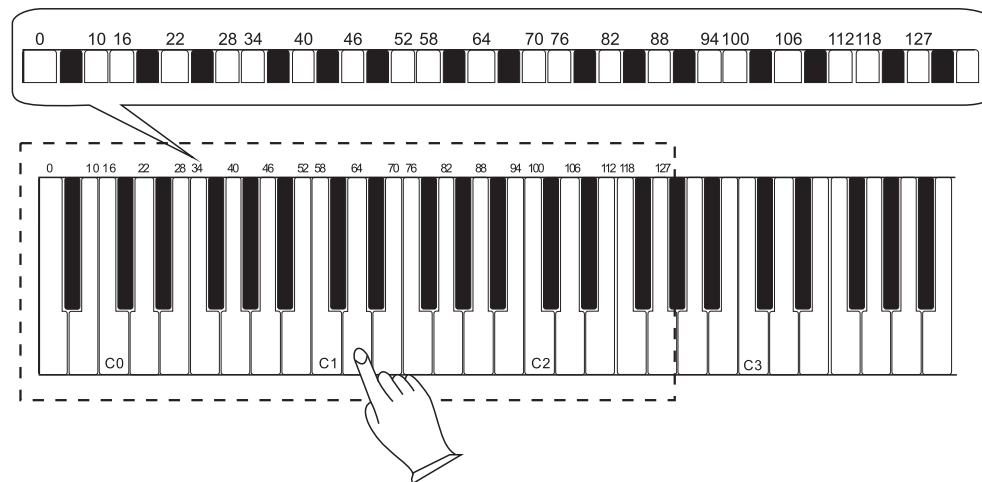
Press the [METRONOME] and [TEMPO] button to enter the edit function mode.



Press the (G#0) key as the activates the voice volume menu. The volume can be changed in 21 white keys from 0-127 where G2=127 and A-1=0.



Press a key to play the currently selected split sound at the volume corresponding to the key value.

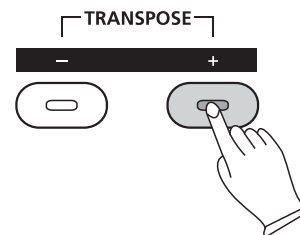


Press the [METRONOME] and the [TEMPO] again to exit the Function mode.

Transpose

This function allows you to change the key of the instrument in semitone steps, The keyboard can be transposed up to a maximum of 12 semitones up or down. (a maximum of one octave up or down).

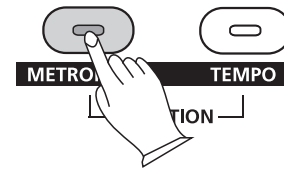
Press [+] and [-] buttons to set the Transpose value.



Voice

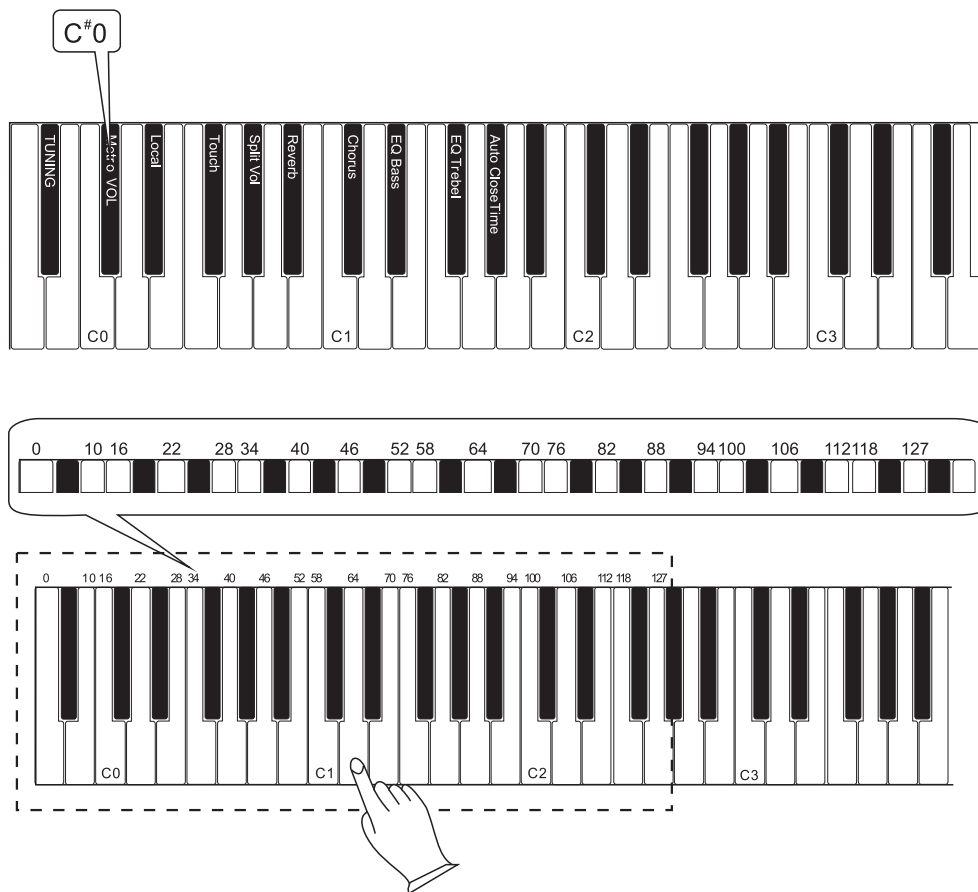
Metronome

Press the metronome button to turn the metronome on. When the Metronome button is activated its LED will turn on and you will hear the click.



Metronome Volume

Press the [METRONOME] and [TEMPO] buttons together to enter the Function mode. Pressing C#0 activates the metronome volume menu. The volume can be changed in 21 white keys from 0-127 where G2=127 and A-1=0. Pressing a key will play the metronome sound at the volume corresponding to the key value.



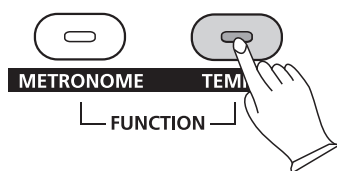
Changing the Time Signature

Hold the [METRONOME] button to enter the time signature for the metronome. Press the (A-1~E1) white keys to set the 12 Time Signatures. Default is 4/4 and the following options are available to toggle through: 2/2, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 7/8, 9/8, 12/8.

Press the [METRONOME] again to exit the metronome Mode.

Tempo

The tempo of the metronome can range from 20 to 280 beats per minute (BPM).

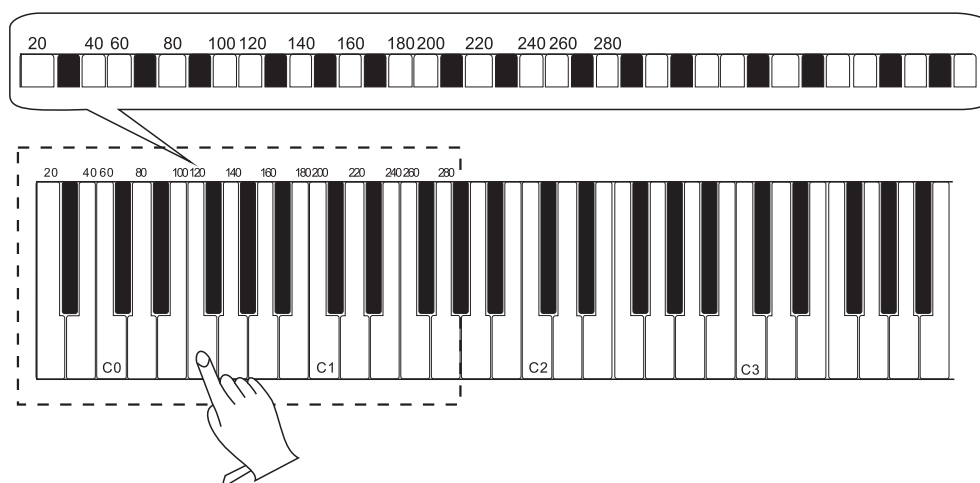


To change the tempo, press and hold the button for 3 seconds to change the setting. The LED will blink to the current tempo speed. If the Metronome is off, no sound will be heard.

Press a key on the keyboard to select a different Tempo. The LED will blink to the new value. It is possible to make multiple changes and see the LED tempo change as the different keys are pressed.

To exit, press the tempo button. The LED will stop blinking and not light. See Appendix for the value ranges.

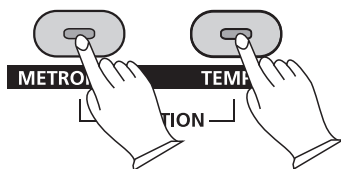
Tempo defaults to 120 but settings are retained when the power is turned off. For example 120BPM is the F0 piano key.



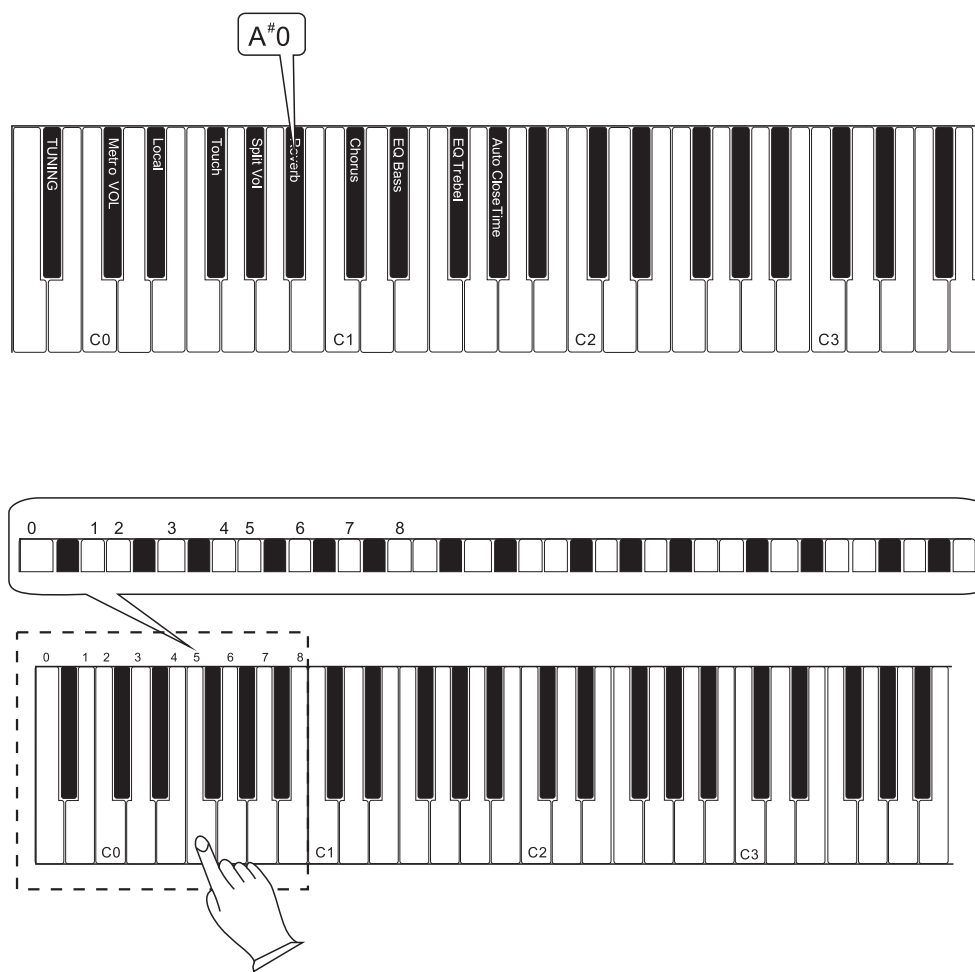
Voice

Reverb

Press the [METRONOME] and [TEMPO] button to enter the edit function mode.

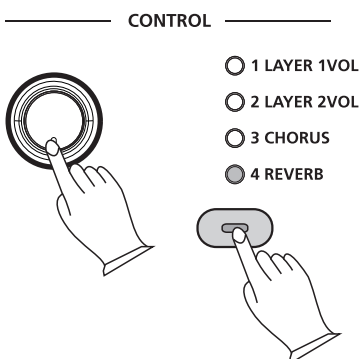


Press the (A#0) key as the activates the reverb menu. Press the (A-1~B0) White keys to set the reverb types: 0:Off,1:Room1,2:Room2,3:Rooms3,4:Hall 1, 5:Hall 2,6:Plate,7:Delay,8:Echo.



Select the Reverb Level

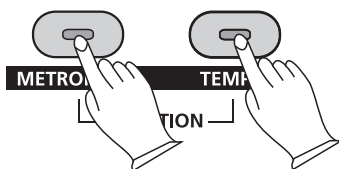
Press the control button Repeatedly to select 4 REVERB, the LED will light, then use the control knob to adjust the reverb level.



Press the [METRONOME] button and the [TEMPO] button again to exit the Function mode.

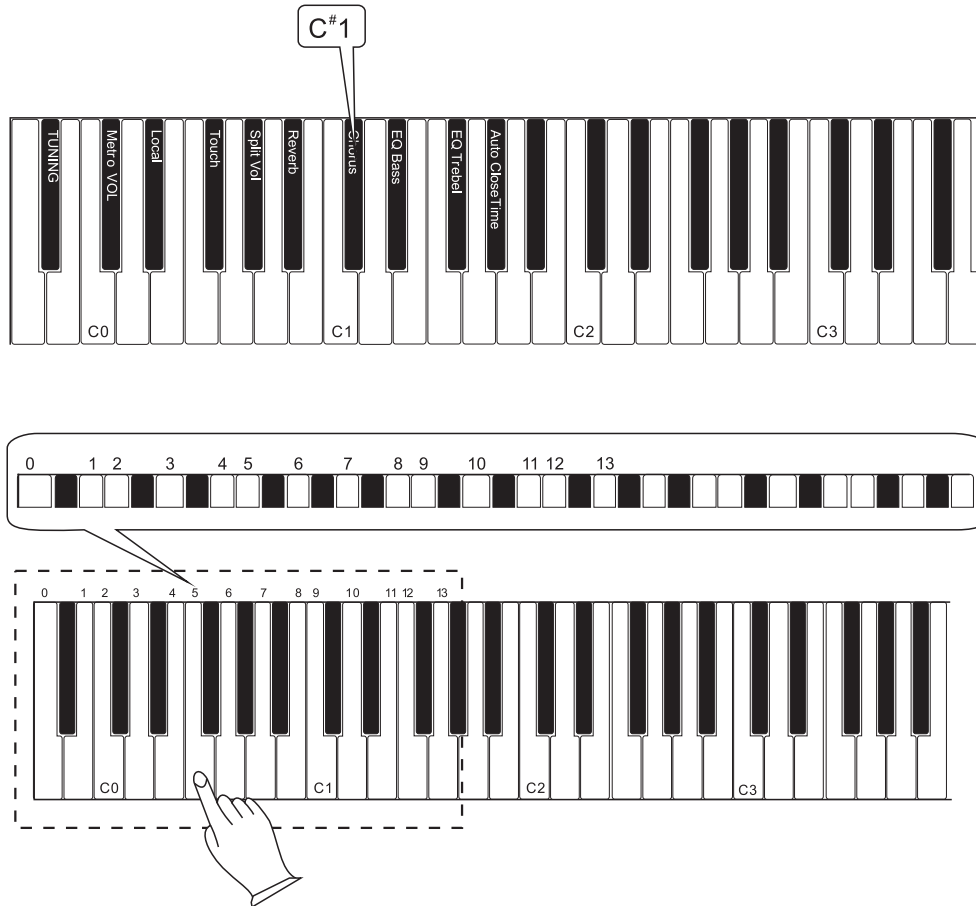
Chorus

Press the [METRONOME] and [TEMPO] button to enter the edit function mode.



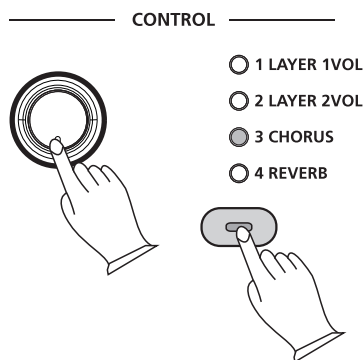
Press the (C#1) key as the activates the chorus menu. Press the (A-1~G1) white keys to set the chorus types: 0:Off, 1:Chorus1, 2:Chorus2, 3:Chorus3, 4:Chorus4, 5:Chorus Feedback, 6:Flanger Short Delay, 7:Short Delay Feedback, 8:Flanger2, 9:Flanger3, 10:Celeste1, 11:Celeste2, 12:Celeste3, 13:Celeste4.

Voice



Select the Chorus Level

Press the control button Repeatedly to select 3 CHORUS, the LED will light, then use the control knob to adjust the chorus level.

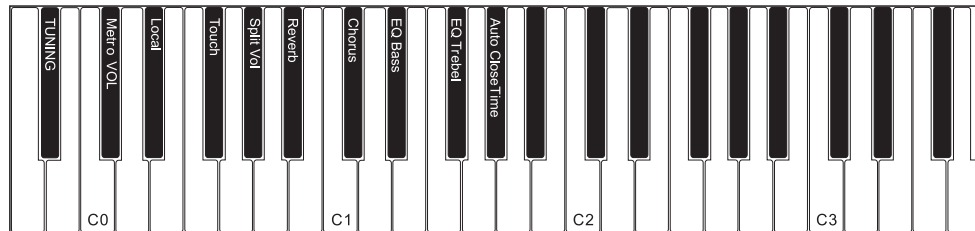


Press the [METRONOME] button and the [TEMPO] button again to exit the Function mode.

Function Mode

In the Function Mode the keys on the keyboard are used for selecting the Function to be edited. To enter the Function Mode, press the Metronome and Tempo buttons at the same time.

Function Key Assignments



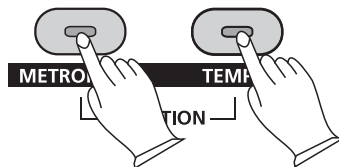
Please refer to pages 11,12,13 and 14 for information about editing the Split, Metronome, reverb and chorus functions.

Tune

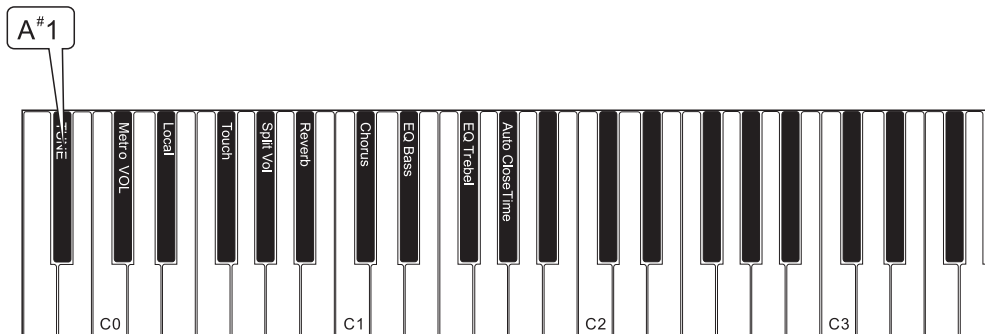
This function makes it possible to tune the pitch of your instrument to match other instruments which deviate from standard pitch. One of the benefits of owning a digital instrument, is that the tuning is set at the time of design and never needs adjustment. A=440Hz is the default setting.

To change the Tune:

Press the [METRONOME] and [TEMPO] button together to enter the Function Mode.

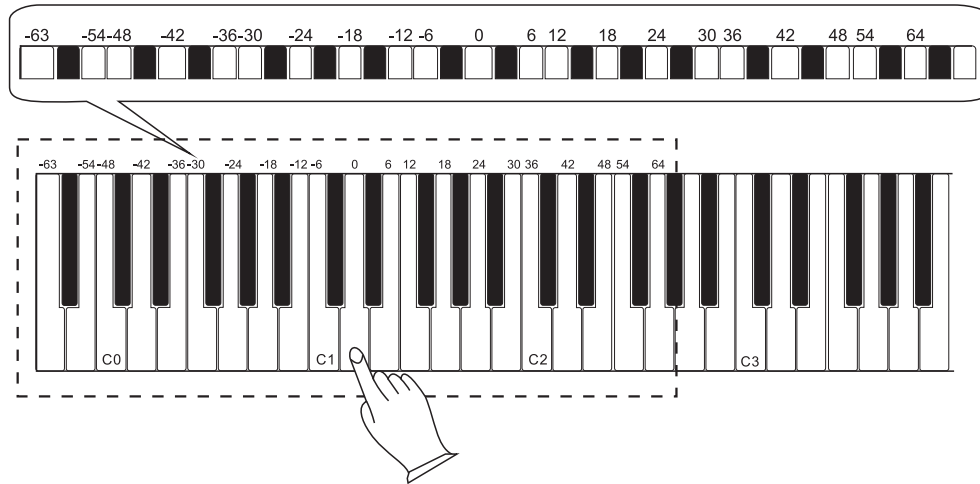


Press the (A#-1) key to select the Master Tuning Function.



Function Mode

Press the (A-1~G1) White keys to set the tune value. The tune value can be changed in 21 note step from -63~64 where G2=64 and A-1=-63.

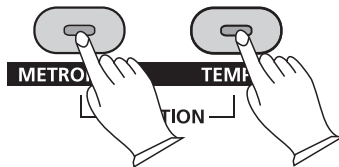


Press the [METRONOME] and the [TEMPO] again to exit the Function mode.

Local

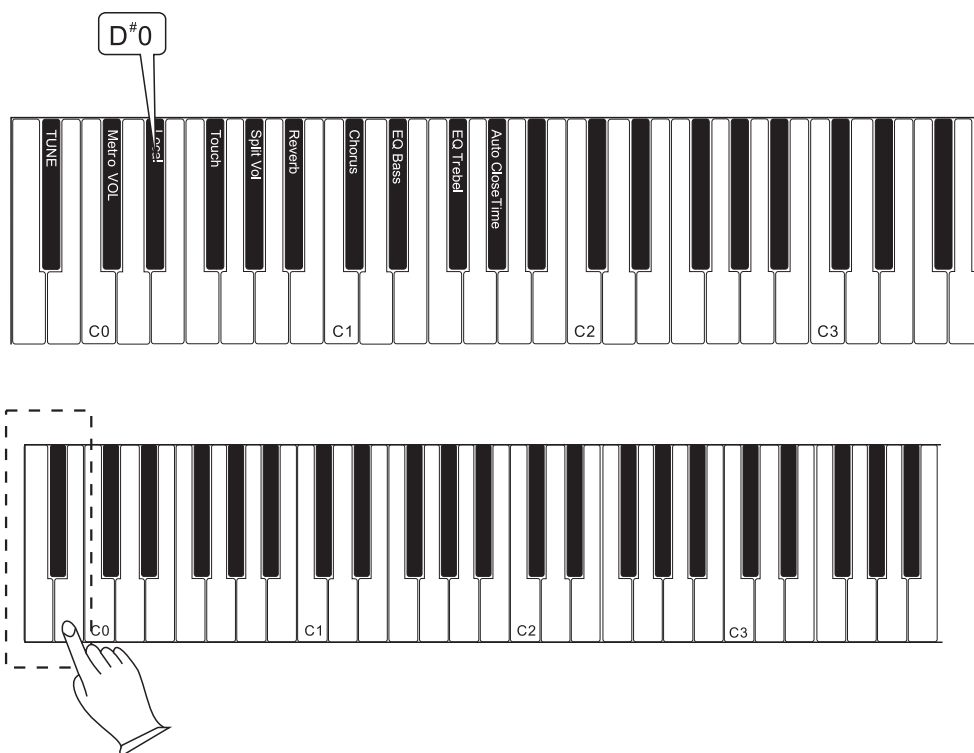
Turning the Local On/Off function to Off will disconnect the keyboard from the internal sound engine of this piano. This means you can use the piano as a MIDI controller to control other MIDI devices (or virtual instrument software running on your computer) without playing the internal sounds of this 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 MIDI function to off.

Press the [METRONOME] and [TEMPO] button together to enter the Function Mode.



Function Mode

Press the (D#-0) key to select the Local Function. The Local on/off can be changed in 2 White keys from on/off where B-1=on and A-1=off.



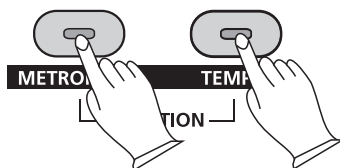
Press the [METRONOME] and the [TEMPO] Buttons again to exit the Function mode.

Touch

The Touch Sensitivity Select function allows the choice of 6 keyboard sensitivity settings for different playing styles: Low1 Sensitivity, Low2 Sensitivity, Normal1 Sensitivity, Normal2 Sensitivity, High1 Sensitivity, High2 Sensitivity.

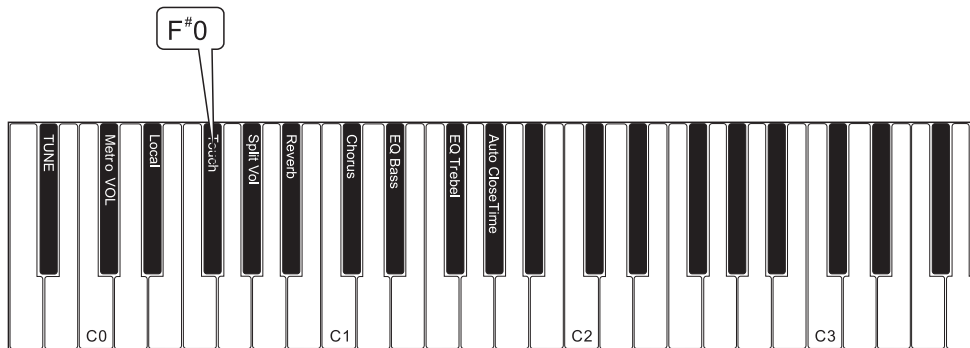
To Set the Keyboard Sensitivity

Press the [METRONOME] and the [TEMPO] buttons together to enter function mode.

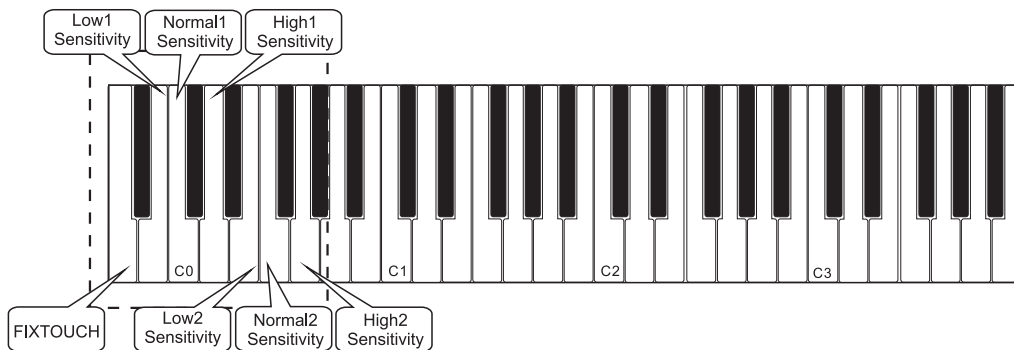


Function Mode

Press the (F#0) key to select the touch function.



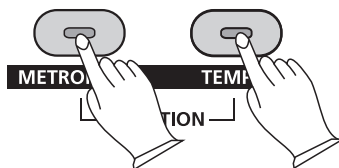
Press the desired Touch Select key (B-1,C0,D0,E0,F0,G0) to select between Low, Normal and High Sensitivity settings. Press the A-1 key to select fixtouch, the value is 100.



Bass EQ

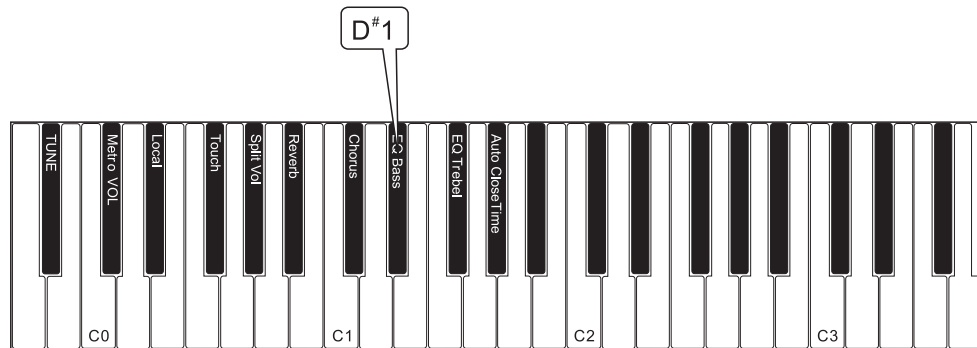
To change the sound of your piano's amplifier you can adjust the EQ to add more Bass.

Press the [METRONOME] and the [TEMPO] buttons together to enter the Function Mode.

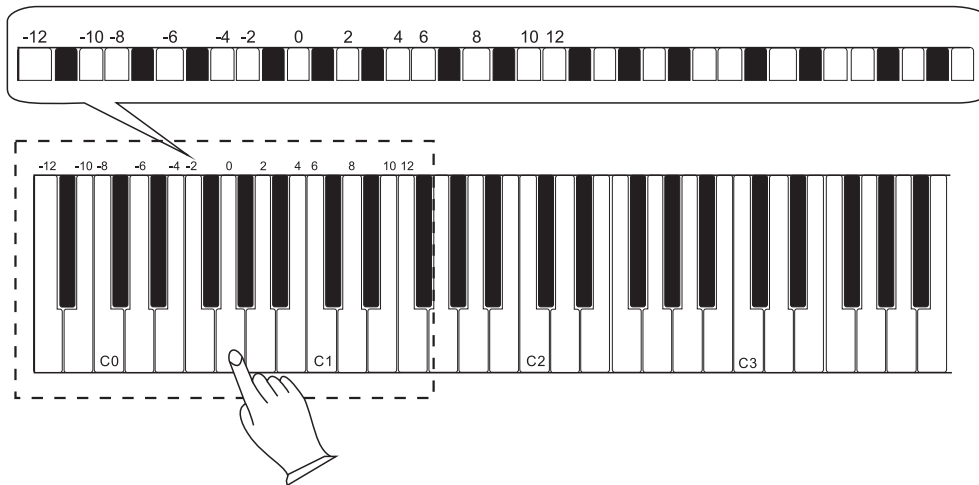


Function Mode

Press the (D#1) key to enter the EQ bass function.



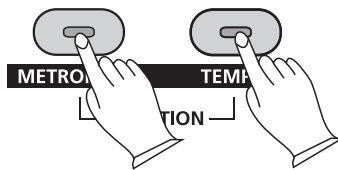
Press the (A-1~F1) White keys to set the bass EQ value. The bass EQ value can be changed in 13 note step from -12~12 where F1=12 and A-1=-12.



Treble EQ

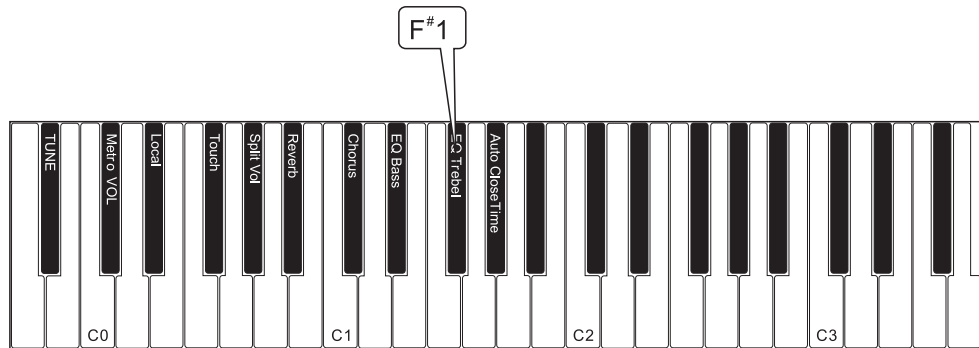
To change the sound of your piano's amplifier you can adjust the EQ to remove some of the Treble.

Press the [METRONOME] and the [TEMPO] buttons together to enter the Function Mode.

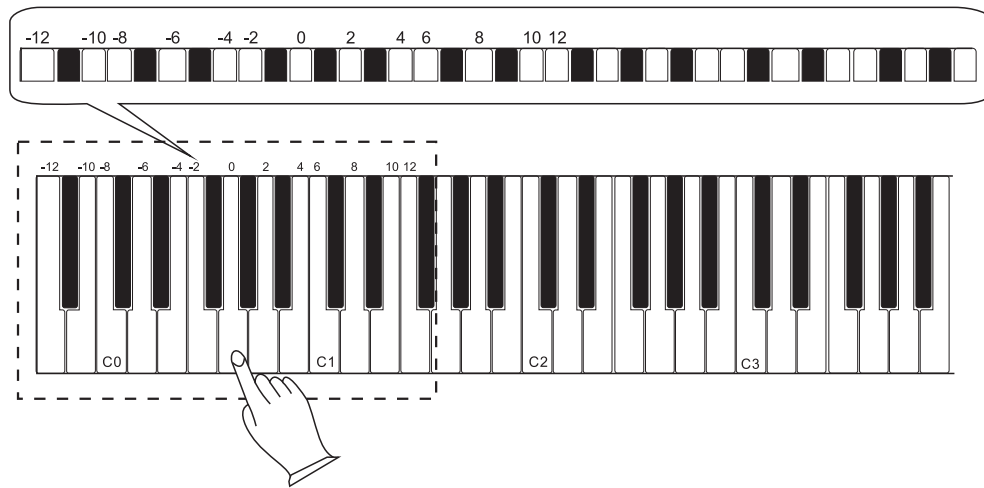


Fuction Mode

Press the (F#1) key to enter the treble EQ function.



Press the (A-1~F1) White keys to set the treble EQ value. The treble EQ value can be changed in 13 note step from -12~12 where F1=12 and A-1=-12.

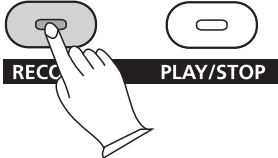


Song Recording

Your instrument allows you to record and play back complete songs.

Record

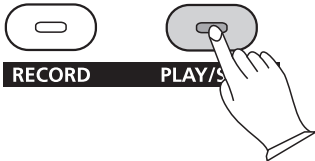
Press the [RECORD] button, the LED will light. The metronomes' LED will flash (It means tempo prompt only. It cannot record any data). Then play any key on the keyboard to start recording, the LED will flash.



Press the [RECORD] button again to stop recording and the LED will unlight.

Play/Stop Your Recording

Press the [PLAY/STOP] button to playback your recording song and the LED will flash.



Press the [PLAY/STOP] button again to stop your recording song and the LED will light.

Delete

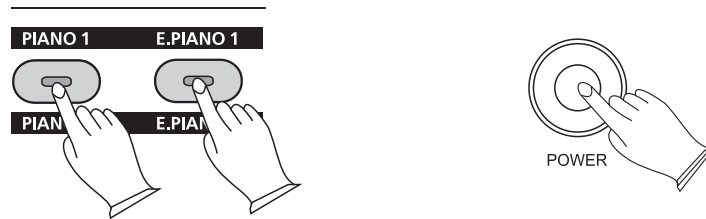
Hold the [RECORD] button until the [PLAY/STOP] button LED will unlight with the record is deleted.

100
95
75
25
5
0

Factory Reset

Performing a Factory Reset will clear all battery backed memory and restore all functions to their factory defaults, just like they were when you used this piano for the first time.

1. Turn the Power OFF.
2. Hold down the [PIANO 1] and the [E.PIANO 1] buttons while powering on the piano.



All LEDs on the device will light while these buttons are held down. Once this has happened, you can release [PIANO 1] and the [E.PIANO 1] buttons.

When the [PIANO 1] and the [E.PIANO 1] buttons are released, this piano will return to Performance Mode (ready-to-play). All button LEDs will return to their default states.

This piano will then function normally and as if powered on for the first time.

Parameter adjusting instructions

According to chart shown below, choose corresponding key to set the desired values.

	Tune	Layer Vol	Split Vol	Metro. Vol	Reverb Vol	Chorus Vol	Tempo	Treble EQ	Bass EQ	Trans
A-1	-63	x	0	0	x	x	20	-12	-12	x
B-1	-54	x	10	10	x	x	40	-10	-10	x
C0	-48	x	16	16	x	x	60	-8	-8	x
D0	-42	x	22	22	x	x	80	-6	-6	x
E0	-36	x	28	28	x	x	100	-4	-4	x
F0	-30	x	34	34	x	x	120	-2	-2	x
G0	-24	x	40	40	x	x	140	0	0	x
A0	-18	x	46	46	x	x	160	2	2	x
B0	-12	x	52	52	x	x	180	4	4	x
C1	-6	x	58	58	x	x	200	6	6	x
D1	0	x	64	64	x	x	220	8	8	x
E1	6	x	70	70	x	x	240	10	10	x
F1	12	x	76	76	x	x	260	12	12	x
G1	18	x	82	82	x	x	280	x	x	x
A1	24	x	88	88	x	x	x	x	x	x
B1	30	x	94	94	x	x	x	x	x	x
C2	36	x	100	100	x	x	x	x	x	x
D2	42	x	106	106	x	x	x	x	x	x
E2	48	x	112	112	x	x	x	x	x	x
F2	54	x	118	118	x	x	x	x	x	x
G2	64	x	127	127	x	x	x	x	x	x

NOTE

X: No value available for this particular Edit Function on this key.

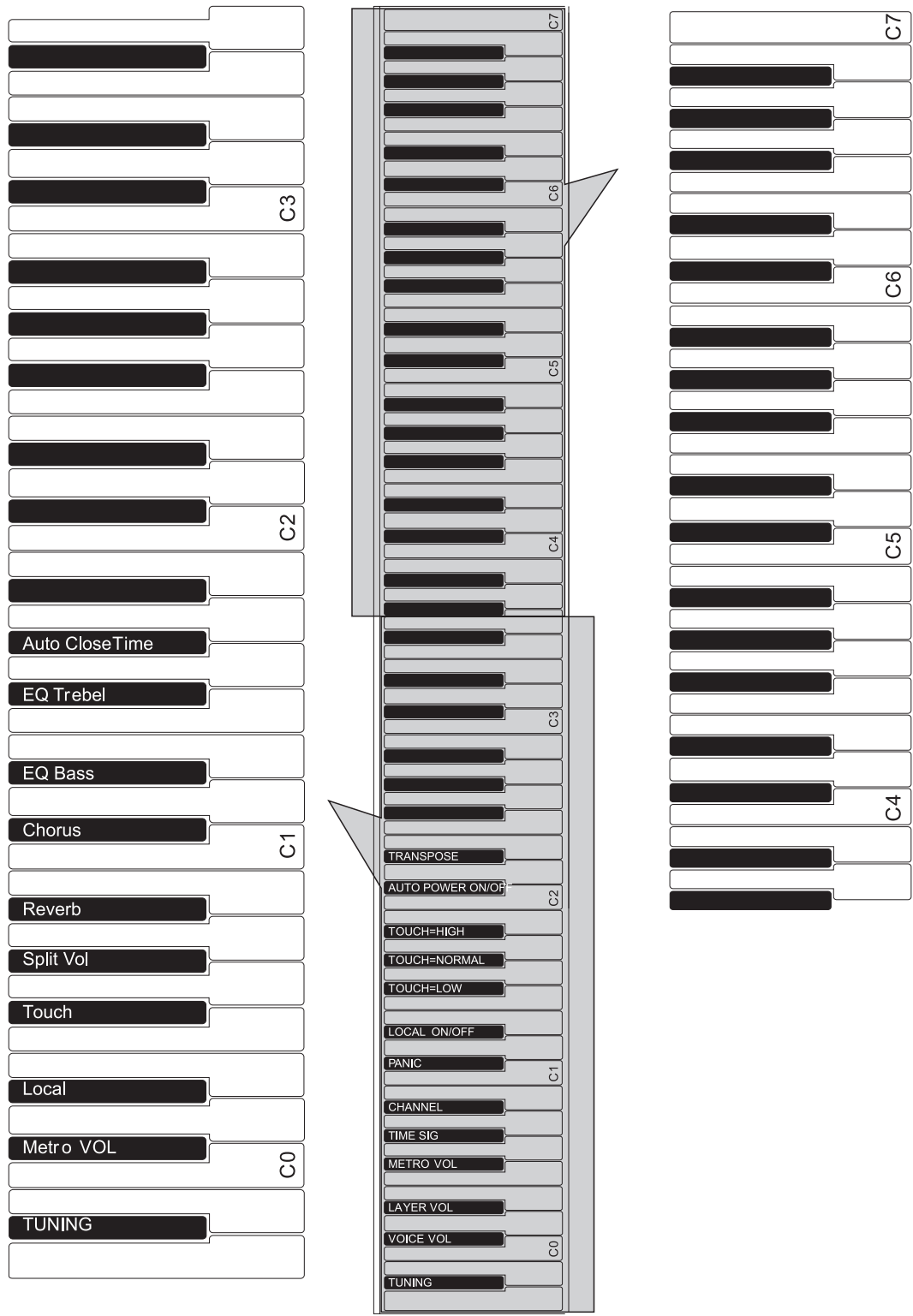
Resetting Value :

	Tune	Layer Vol	Split Vol	Metro Vol	Local	Reverb Vol	Chorus Vol	Tempo	Trans	Auto Power Off
Factory Default	0	75	127	100	OFF	15	0	120	0	ON

	Treble EQ	Bass EQ	Reverb Type	Chorus Type
Factory Default	0	0	5	13

Appendix

Advanced Functions Keyboard Chart



Specifications

Keyboard :	88 velocity-sensitive keys
Voice :	16
Polyphony :	32
Voice Control :	Layer, Layer Vol, Keyboard sensitivity, Tune, Transpose
Metronome :	On/Off, Level, Time signature
Pedal Response :	Sustain
Effect :	Reverb, Chorus, Bass EQ, Treble EQ
DemoSongs :	16
MIDI & Audio :	Local On/Off, USB Audio
Connectors :	USB To Host, Sustain pedal, Aux In, Line Out L/R, Phones, DC Power
Speakers :	YDT713 10W/4ohm x 2 YDG50 5W/4ohm x2
Dimensions(W x D x H) :	1270mm x 270mm x 180mm
Weight :	9Kg
Supplied Accessories :	Owner's Manual, Music Rest



100
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100
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Incheon, Korea

100

95

75

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