BOSTON

DSP-388

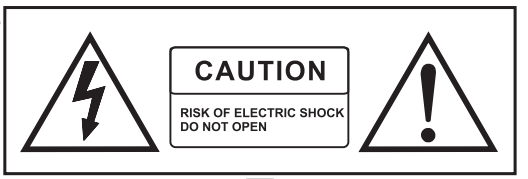
Digital Piano

User's Manual

Precaution

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

Safety Precautions



The lightning flash with arrowhead symbol within an equilateral triangle is in tended 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,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 am plifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug.A polarized plug hase 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 are provided for your safety,if the provided plug does not fit into your outlet.consult an elec trician 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 fo time.
14) Refer all servicing to qualified service personnel.Servicing is required when the apparatus has been dam aged 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.

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 choosing the DSP-388 Digital Piano

Your DSP-388 is a high quality digital piano featuring an 88 note hammer action, touch sensitive keyboard and the most advanced PCM tone generation technology that combined will provide you with a rich performing and playing experience. You can also record your own performances to play along to. The DSP-388 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.

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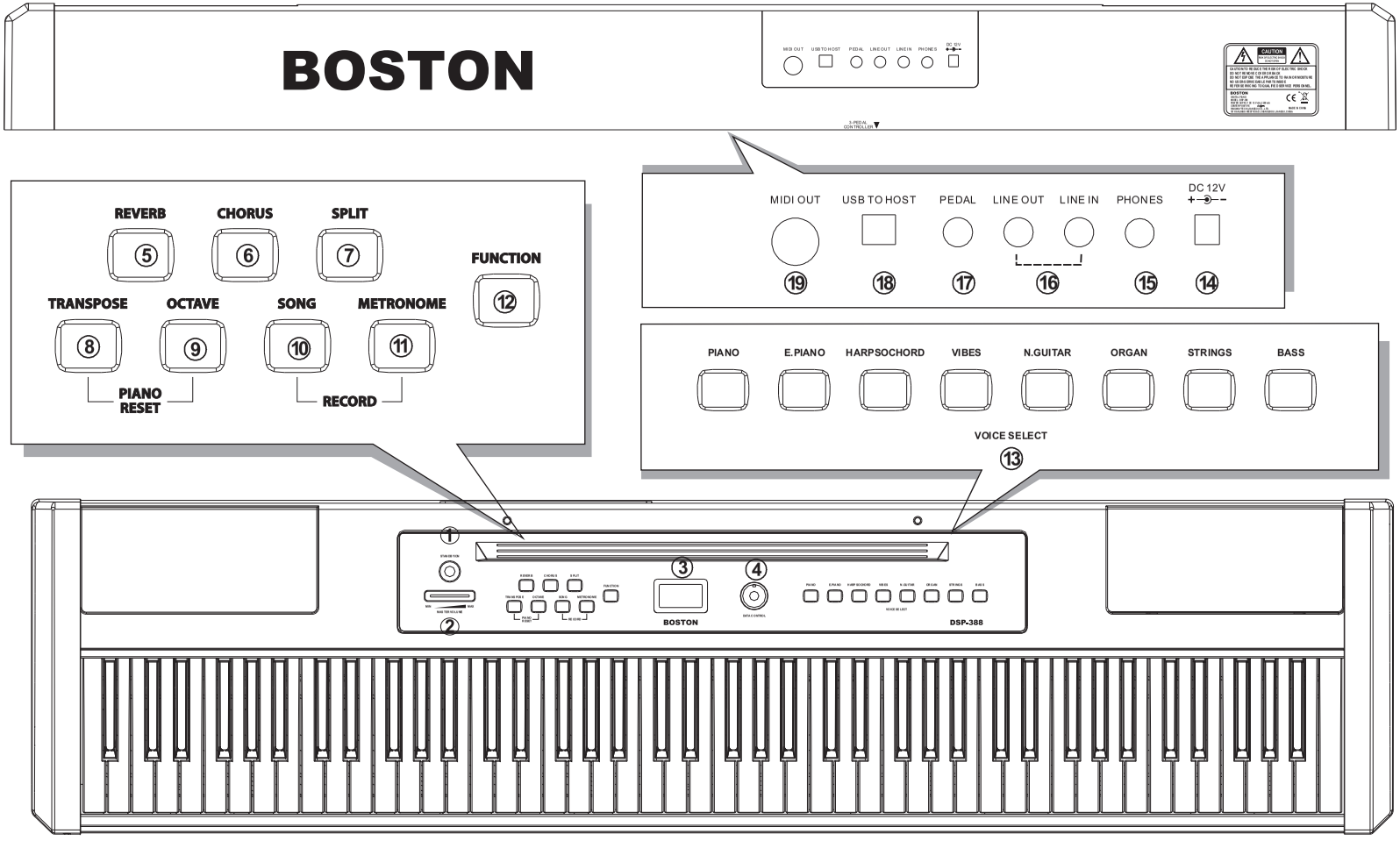

BOSTON
MIDI OUT
USB TO HOST
PEDAL
LINE OUT
LINE IN
PHONES
DC 12V
REVERB
CHORUS
SPLIT
FUNCTION
⑤
⑥
⑦
⑫
TRANSPOSE
OCTAVE
SONG
METRONOME
⑧
⑨
⑩
⑪
PIANO RESET
RECORD
⑲
⑱
⑰
⑯
⑮
⑭
PIANO
E.PIANO
HARPSOCHORD
VIBES
N.GUITAR
ORGAN
STRINGS
BASS
VOICE SELECT
⑬
①
②
③
④
BOSTON
DSP-388

Panel Control

Top Panel

1. STANDBY/ON
2. MASTER VOLUME
3. LED DISPLAY
4. [DATA CONTROL] Knob
5. [REVERB] Button
6. [CHORUS] Button
7. [SPLIT] Button
8. [TRANSPOSE] Button
9. [OCTAVE] Button
10. [SONG] Button
11. [METRONOME] Button
12. [FUNCTION] Button
13. VOICE SELECT
    - Piano
    - E.Piano
    - Harpsochord
    - Vibes
    - N.Guitar
    - Organ
    - Strings
    - Bass

Rear Panel

14. DC 12V Jack
15. PHONES Jack
16. LINE IN/OUT Jacks
17. PEDAL Jack
18. USB TO HOST Jack
19. MIDI OUT Jack

Set up

Thank you for purchasing the DSP-388 Digital Piano. Included with the piano you will find:
The foot pedal included sustain pedal ,double pedal(optional) and 3-Foot pedal (optional), one music rest, one power supply and of course this user guide.
Once you have located each item, proceed by making sure to set the piano up securely on a desk, table or dedicated keyboard stand. Then go through the following steps:

--- Make sure the power supply can reach from a AC wall socket to the piano's DC in.

--- Insert the music rest in the two holes on the top panel.

--- Connect the DC output cable from the power adapter in to the DC in jack on the rear panel.

--- Plug the AC connector of your power supply in to the wall AC power socket.

--- Plug the foot pedal in to the socket labeled Sustain on the rear panel.

NOTE

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

Connector Panel

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.

NOTE

MIDI OUT Transmits MIDI data to another MIDI device.

Using USB To Host

This product allows the transfer of MIDI information over USB to a laptop, tablet or smartphone. As complicated as this might sound, it's actually pretty straight forward. This piano is USB Class Compliant; therefore there is no need to install a driver to enable it to work with a computer. Simply just plug it in and the computor's operating system 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 from a Laptop, Tablet or Smartphone 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 Laptop, Tablet or Smartphone to record and edit music.

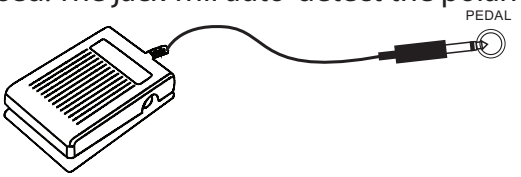
USB to Host

Pedal

The foot pedal included sustain pedal and double pedal(optional).

Sustain Pedal(included)

This digital piano can be used with the Sustain Pedal. It 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

Ensure the piano is turned off before connecting the pedal. Otherwise, it will affect the piano sound.

As standard, the pedal will affect the note playing after pressed. To change polarity, hold the foot pedal down during power up.

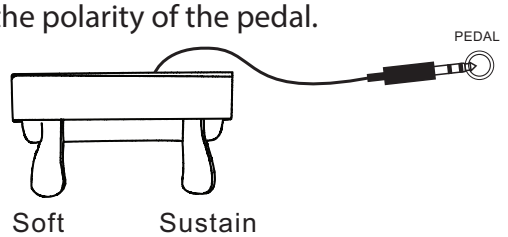
Double Pedal(optional)

This digital piano can be used with a Double pedal.

Soft Pedal(left): The Soft Pedal controls the sound volume. Press the pedal to decrease the output sound volume.

Sustain(right): It 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.

The jack will auto-detect the polarity of the pedal.



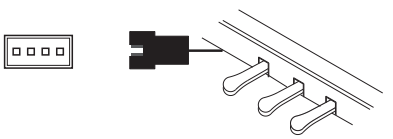
NOTE

As standard, the pedal will affect the note playing after pressed. To change polarity, hold the foot pedal down during power up.

3-Foot Pedal(optional)

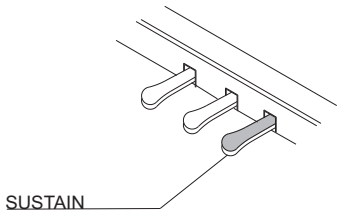
This digital piano can be used with a 3-Foot pedal.

Connect the plug of the foot pedal unit to the pedal jack in the button panel.

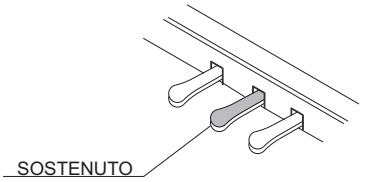


Damper Pedal (Right): It performs the same function as the damper pedal on an actual acoustic piano, letting you sustain the sound of the voices even after releasing your fingers from the keys.

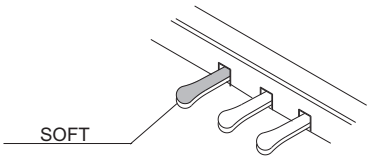
Your piano has Half-pedal function. You may release your foot from the pedal to different position to change the sustain time. The less you release your foot from the pedal, the longer the sustain effect lasts.



Sostenuto Pedal (Center): 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, but all subsequently played notes will not be sustained.



Soft Pedal (Left): The Soft Pedal controls the sound volume. Press the pedal to decrease the output sound volume.



NOTE

As standard, the pedal will affect the note playing after pressed. To change polarity, hold the foot pedal down during power up.

Line Out/In

Connect the external sound system to the Line In jack. The audio signal from the external sound system can be mixed with the sound of your piano. This function is convenient when you want to play along with a favourite song.

The Line Out jack can be used to transmit the audio signal of the piano to a keyboard amplifier, stereo sound system, mixing console or tape recorder.

Phones

The Phones jack allows playing in silence. When headphones are plugged in, the speakers are mute.

DC 12V Input

Connection for the included DC power adapter.
Please use only the provided adapter.

Panel Controls

Turning on the power

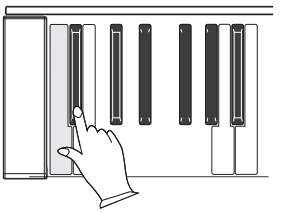
Turn the power on, the LED will light.

1.Standby On

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

2.Deactivate the 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 turn on the power to deactivate the AUTO STANDBY function.

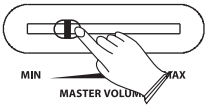


Function

The Function button transfers the piano to Edit mode, enabling the modification of the parameters of many features such as touch sensitivity, splits, layers and MIDI control, among others.

Master Volume

Slide the control to the left to lower the speaker volume, or to the right to increase it.



LED Display

The LED will display the appropriate status, function, value, voice or mode for the current operation.

Data Control Knob

The [DATA CONTROL] knob changes parameter values for voice, function, volume (0-127),metronome tempo (20-280), reverb/chorus depth(0-127), time signature, transpose value (-12 - +12),octave setting (-2 - +2), Master Tuning setting (-64- +63), track, MIDI channel/program number and Bank MSB/LSB values (0-127).

Though the [DATA CONTROL] knob may be used to edit a variety of functions on the piano, it will always revert to its default function of controlling metronome tempo if left inactive for 10 seconds.

Demo Songs

There are 8 demo songs pre-recorded in the DSP-388 piano. Each demo song will demonstrate a different voice as indicated in the chart below. Here's how you can select and play the demo songs.

Select the Demo Song

1.Use the Data Control Knob to Select

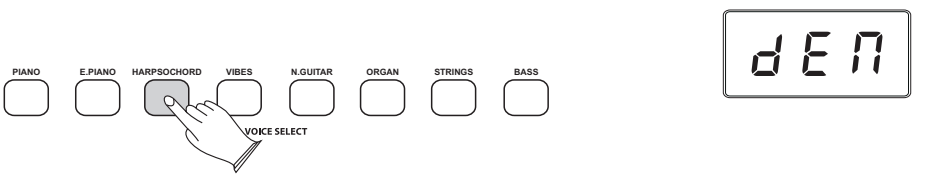
Press the [SONG] button, then turn the [DATA CONTROL] knob until the desired song is displayed in the LED. Press [SONG] again to begin playing. The [SONG] and voice buttons will flash and the LED will display: d E n

During playback, another song may be chosen by pressing a different voice select button.

2.Use the Voice Select Button's to Select

Press [SONG] button to enter Song Play Mode, the Song button will light.

Then press the desired Voice Select button. The [SONG] and voice buttons will flash and the LED will display: d E n



Demo Song #	Voice
1	Piano
2	E.Piano
3	Harpsochord
4	Vibes
5	N.Guitar
6	Organ
7	Strings
8	Bass

Stop Playing

To stop the demo song. press the [SONG] button again. To replay the current song from the beginning, press the flashing voice select button.

Reverb

Press [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 LED will turn off to indicate that Reverb is no longer active.

The Reverb effect may be applied to each voice individually and will be retained even when the power is turned off.

To apply reverb, select the desired voice and press [REVERB]. The button will light and the effect will be heard when the piano is played.

To adjust the amount (depth) of the reverb effect, hold the [REVERB] button down while turning the [DATA CONTROL] knob to the desired amount(0-127).

Chorus

Press [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 LED will turn off to indicate that Chorus is no longer active.

The Chorus Effect may be applied to each voice individually and will be retained even when the power is turned off. This effect simulates the same tone coming from multiple sources, like several singers or instruments singing or playing the same note.

To apply the Chorus Effect, select the desired voice and press [CHORUS]. The button will light and the effect will be heard when the piano is played.

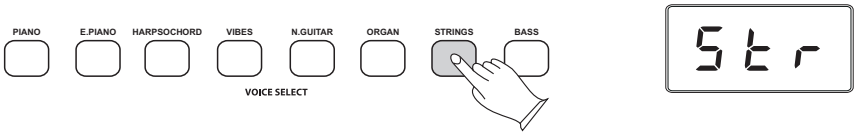
To adjust the amount (depth) of the Chorus effect, hold the [CHORUS] button down while turning the [DATA CONTROL] knob to the desired amount(0-127).

Voice

The DSP-388 piano has 8 built-in voices, which include several pianos as well as other instruments. These digitally-sampled musical instrument sounds may be selected one at a time, layered to produce two voices at once, or as signed to the left or right hands.

Voice Select

To select a voice, press the appropriate Voice Select button on the right side of the front panel.



The button will light and the LED will indicate these lection as shown below.

Voice	LED
Piano	Pno
E.Piano	EPn
Harpsochord	hAr
Vibes	vbE
N.Guitar	gtA
Organ	Org
Strings	Str
Bass	BAS

Split Mode

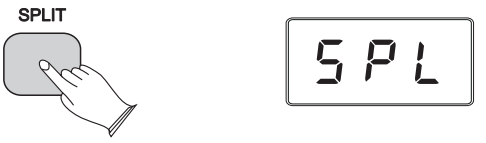
Split Mode allows the keyboard to be divided into two sections so that different voices may be played with the left and right hands.

The volume may be independently adjusted for each voice, the Split Point (the highest note played with the left hand) may be adjusted and the Split Voice may be changed as desired.

Enter Split Mode

Press the [SPLIT] button. The LED will show: SPL

The Split (left hand) voice will be Upright Bass and the Split Point will be F#2.

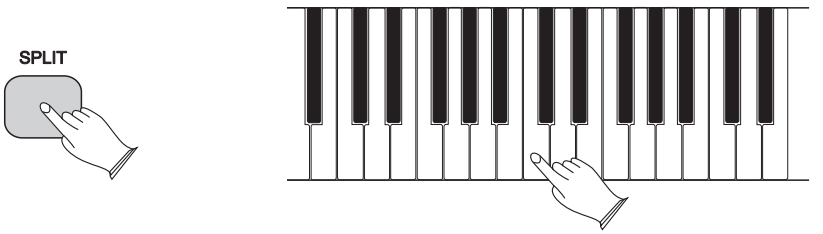


NOTE

If Voice Select is now used, it will only affect the Left Hand Split Voice. The Right Hand Voice will stay the same until Split Mode is turned off again.

Change the Split Point

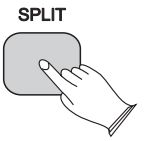
Press and hold the [SPLIT] button for 1 second, then press the appropriate piano key.



Change the Split (left hand) voice

In the Split Mode, Press a new [VOICE SELECT] button to select a new Split Voice

Change the Main (right hand) voice

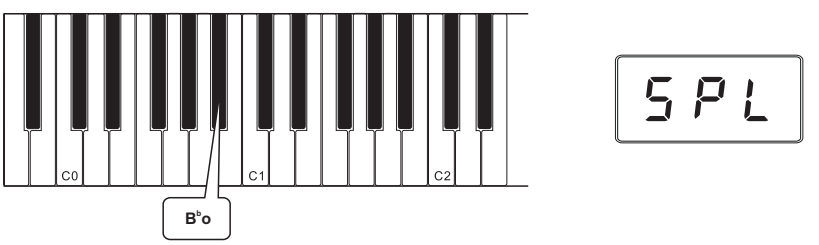


Exit Split Mode by pressing the [SPLIT] button again, select the appropriate voice and then press [SPLIT] again to re-enter Split mode.

Change the Split volume (left hand)

Press the [FUNCTION] button to enter Edit Mode. Press the $B^{b}0$ key to assign the [DATA CONTROL] knob to the Split (left hand)Voice Volume function.

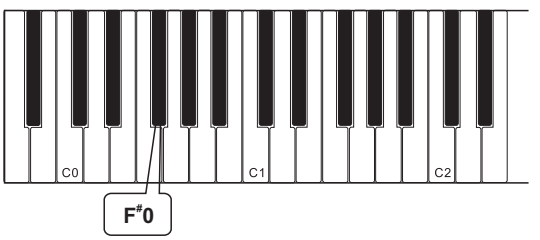
Turn the [DATA CONTROL] knob to the desired value (0-127) while striking any keyboard key to hear the effect.



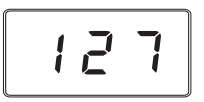
Change the Main volume (right hand)

Press the [FUNCTION] button to enter Edit Mode

Press the F#0 key to assign the [DATA CONTROL] knob to the Main (right hand) Voice Volume. The LED will show: vol

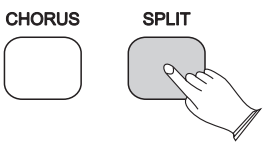


Turn the [DATA CONTROL] knob to the desired value (0-127) while striking any keyboard key to hear the effect.



Turn Off Split Mode

Press the [SPLIT] button. The LED will momentarily display oFF, then the currently selected voice.



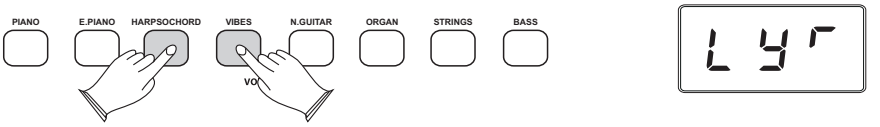
NOTE

The Main (right hand) Voice will transmit on the Main MIDI transmit channel.
The Split Voice(left hand voice) will transmit on the Main MIDI transm it channel + 1.
For information on setting the Main MIDI Transmit Channel, please see the "MIDI Channels".

Layer Mode

In Layer mode two voices may be played simultaneously, each at selected volumes.

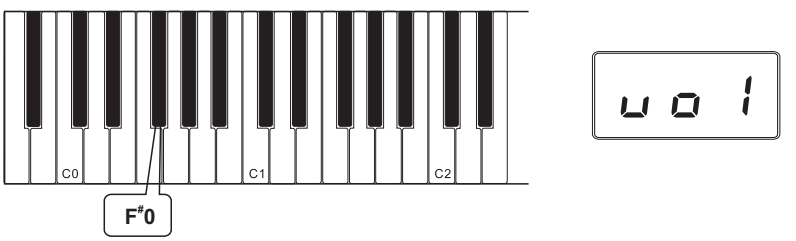
To enter Layer mode, press and hold the button to select the MAIN sound, then press the button for LAYER sound, and release. The buttons will light, the two voices will sound simultaneously and the LED will indicate: LYr



To Adjust the Volume of the Main Voice

Press the [FUNCTION] button to enter Edit Mode.

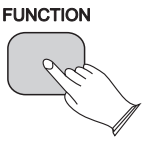
Press the Voice Volume key (F#o).The LED will display: vol



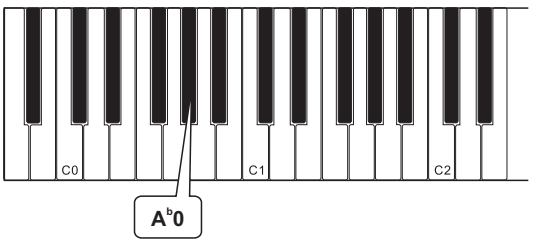
Turn the [DATA CONTROL] knob to the desired volume (0-127).

To Adjust the Volume of the Layer Voice

Press the [FUNCTION] button to enter Edit Mode.



Press the Layer Volume key ($A^{b}0$). The LED will display: LYr



Turn the [DATA CONTROL] knob to the desired volume (0-127).

NOTE

If Split Mode is engaged and Layer Mode is selected, the Layer Voice will only be applied to the keys to the right of the split point. The Left Hand Voice will remain the same as was specified for Split Mode.

NOTE

The Main Voice will be transmitted on the selected Main MIDI Transmit Channel. The Layer Voice will be played on the selected MIDI Transmit Channel +2. So if the Main Voice is transmitting on MIDI channel 1, the Layer Voice will be transmitted on MIDI channel 3. For more information, see Main MIDI Transmit Channel in MIDI Functions.

Turn Off Layer Mode

To turn Layer Mode off, select a single voice.

Metronome

The built-in metronome will help maintain accurate timing while recording a song. The time signature and tempo may be adjusted for the song to be recorded. To turn the metronome on, press the metronome button.

Tempo

The tempo of the metronome may range from 20 to 280 beats per minute (BPM). To change the tempo, simply use the [DATA CONTROL] knob. The LED will now display the desired tempo.

Though the [DATA CONTROL] knob may be used to edit a variety of functions on the piano, it will always revert to its default function of controlling metronome tempo if left inactive for 10 seconds.

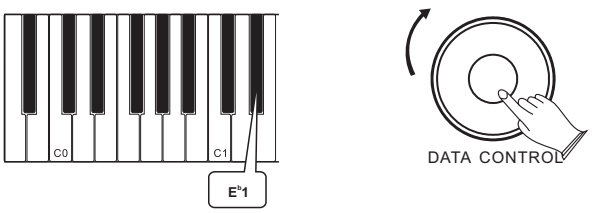
Specify Metronome Time Signature

Available time signatures are: 2/2, 2/4, 3/4, 4/4, 5/4,6/8, 7/8, 9/8 and 12/8.

To select the desired time signature:

--- Press [FUNCTION] and depress the Metronome Time Signature key ($E^{b}1$) on the keyboard.

--- Turn the [DATA CONTROL] knob until the de sired time signature is indicated in the LED. 4/4 time will appear as 4.4.



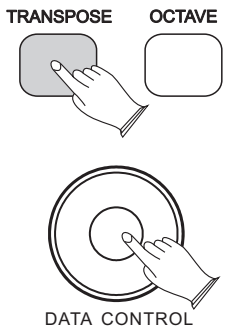
NOTE

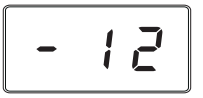
The tempo and time signature may not be changed during song recording.

Transpose

The Transpose function will raise or lower the pitch of the keyboard in semitone increments from -12 to +12.

To turn Transpose on, press the [TRANSPOSE] button. The LED will display: tr A Now use the [DATA CONTROL] knob to select the desired transpose value.





Optionally, the transpose value may be specified by holding down the [TRANSPOSE] button and pressing a keyboard key between C2 and C4, there by selecting the value indicated below:

C2	C#2	D2	D#2	E2	F2	F#2	G2	G#2	A2	A#2	B2	C3	C#3	D3	D#3	E3	F3	F#3	G3	G#3	A3	A#3	B3	C4
-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12

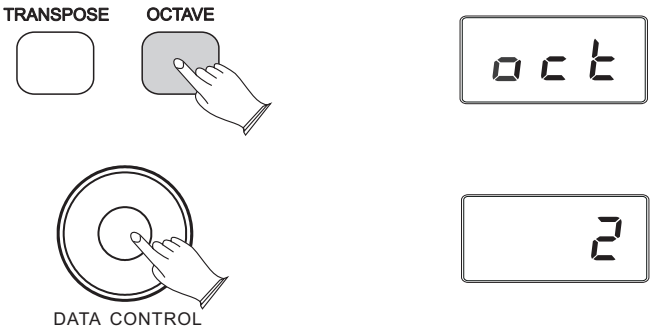
NOTE

The (Transpose/Octave) Button will remain lit while active. To deactivate (Transpose/Octave), simply press the button and the piano will return to its default configuration.

Octave

The Octave function will raise or lower the keyboard pitch in octave increments from -2 to +2.

To enable the Octave function, press and hold the [OCTAVE] button. The LED will display: oct Now use the [DATA CONTROL] knob to select the desired pitch.



NOTE

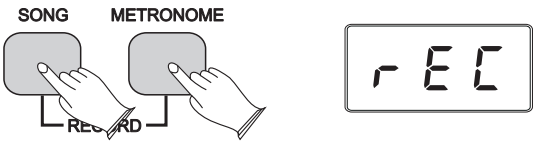
The (Transpose/Octave) Button will remain lit while active. To deactivate (Transpose/Octave), simply press the button and the piano will return to its default configuration.

Song Recording

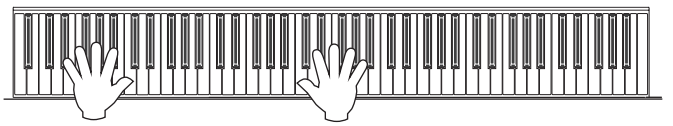
The Song Recorder built into the piano can record two individual tracks, allowing you to record one part and then record a second complementary part while the first part is played back.

To Record a Track

Press the [SONG] button and the [METRONOME] button simultaneously to enter Record Wait Mode. The Song button's LED will light, and the Metronome will begin playing at the currently selected tempo.
The LED display will show: rEC for one second, after which it will show: tr 1



This piano is now in Record Wait Mode. To start recording, begin playing the keyboard. Recording starts automatically as soon as you start playing.



NOTE

When Record Wait Mode is active, you can also start recording by pressing the Song button. In that case, the Song Recorder will record silence until you start playing the keyboard.

To end recording, press the [SONG] button.

As mentioned at the beginning of this section, you can record to two independent tracks within each song you record. This means that you can make a recording, and after you're done, play back what you recorded while recording a complementary part on a second track. This piano automates some of the track selections to make work with the Song Recorder more intuitive:

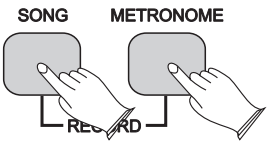
When you start recording, if data has already been recorded on track 1, the display will show tr 2, and the Song Recorder will record on track 2.

During recording, any notes already recorded on the other track will be played back. If you are recording on track 2, anything previously recorded on track 1 will be played back for you to play along to.

If tracks 1 and 2 both contain data, this piano will automatically choose to record to the track that was NOT last recorded to. (If your last recording was on track 1, track 2 will be selected; if your last recording was on track 2, track 1 will be selected.)

To Manually Select a Track to Record to

Press the [SONG] button and the [METRONOME] button simultaneously to enter Record Wait Mode.

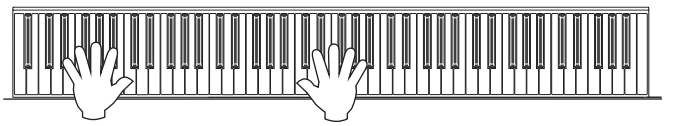


Turn the [DATA CONTROL] knob to select between Track 1 and Track 2.

If either of the tracks contains recorded data, the display will show a dot "." in the bottom right hand corner:tr 1. tr 2.

You will also see options for "Clear" (abbreviated "clr") and "Cancel" (abbreviated "cAn"), which you can ignore for the moment. These will be discussed later in this section.

When the LED display shows the track you wish to record to, you may begin playing whenever you are ready, and recording will automatically begin as soon as you play the first note.



To Cancel Recording While in Record Wait Mode

Turn the [DATA CONTROL] knob until the LED display shows: cAn.

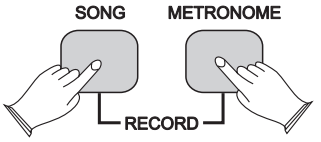
Press the [SONG] button.
Record Wait Mode will exit, and the keyboard will be back in Performance Mode, with no changes to the contents of either Track 1 or Track 2.

To Turn Off the Metronome While Recording

Press the [METRONOME] button, and the metronome will stop while recording continues.
Pressing the [METRONOME] button again will turn the metronome on again.
Note that the metronome can also be turned on and off in the same way while in Record Wait Mode, before recording commences.

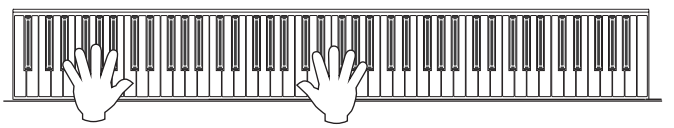
To Clear all Data in the Song Recorder

Press the [SONG] button and the [METRONOME] button at the same time to enter Song Recording Mode. This will start the Metronome and place the Song Recorder in Record Wait.



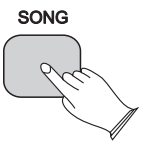
Turn the [DATA CONTROL] knob until the LED displays: clr

Begin playing the keyboard. The earliest previously recorded data on Tracks 1 or 2 will be cleared, and the notes you are now playing will be recorded on this tracks.



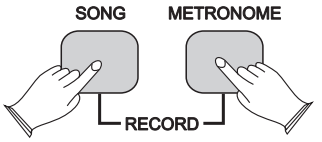
To clear all data on Tracks 1 and 2 without recording anything new,press the Song button twice.

You will then be back in Performance Mode, with all data cleared from the Song Recorder.



To Erase a Single Track in the Song Recorder

Press the [SONG] button and the [METRONOME] button at the same time to enter Song Recording Mode.



Use the [DATA CONTROL] knob to select the track you wish to erase.

Press the [SONG] button twice.
The track will be erased, and this piano will be back in Performance Mode.

To Erase Record Data While in Playback Mode

Press the [SONG] button.
Turn the [DATA CONTROL] knob to select “SNG” or “tr1” or “tr2” .

After you selected, double click the [SONG] button.

SNG :Erase both of the Song Recorder tracks simultaneously.
tr 1 :Erase Song Recorder Track1.
tr 2 :Erase Song Recorder Track2.

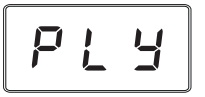
To Play Back Your Song Recorder Tracks

From Performance Mode, press the [SONG] button to enter Song Play Mode.

Use the [DATA CONTROL] knob to select one of the following:

SNG Playback of both of the Song Recorder tracks simultaneously.
tr 1 Playback of Song Recorder Track 1.
tr 2 Playback of Song Recorder Track 2.

Press the [SONG] button to start playback.
While the Song is playing the LED display will show: PLY

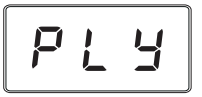


NOTE

If there is nothing recorded on either of the tracks (1 or 2), then the Song will not play. Rather, the Song LED will flash 3 times quickly, and this piano will exit Song Play Mode and resume Performance Mode, with the LED display showing the currently selected voice.

To Stop Playback and Exit Song Play Mode

Press the Song button. Song playback will stop, and this piano will exit Song Play Mode and resume Performance Mode with the LED display showing the currently selected voice.

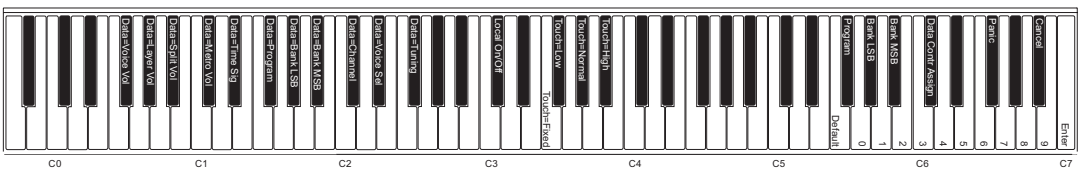


Edit Functions

In Edit Mode, the function of the [DATA CONTROL] knob is changed to specify a number of different values. The [DATA CONTROL] knob will "time out"after 10 seconds and return to default metronome tempo.

Keyboard control keys are used to select the function upon which the [DATA CONTROL] knob will have an effect.

Use of Function Key



Please refer to the appropriate sections earlier in this manual for proper use of the [DATA CONTROL] knob when editing the Metronome, Layer, Split, Transpose and Octave functions of the piano.

Master Tuning

The piano is tuned to A440 when the power is turned on and does not require tuning. However, if desired, in order to play along with other instruments or recordings that are tuned differently, the tuning may be adjusted in semitone increments from -64 to+63 (One full tone).

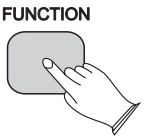
To change the Master Tuning:

---Press the [FUNCTION] key to enter Edit Mode.

---Press the F#2 key to select the [DATA CONTROL] knob to the

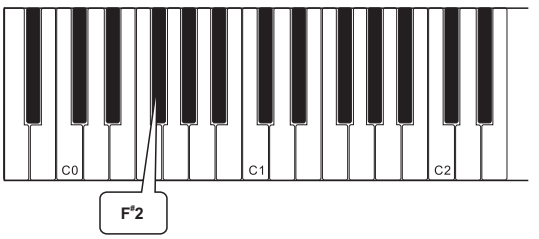
---Master Tuning Function. The LED will show: tUn

---Turn the [DATA CONTROL] knob to the desired value (-64 - 63).



NOTE

Master tuning must always be manually adjusted back to -0-.



Touch (Sensitivity)

The Touch Select function allows the choice of 4 sensitivity settings or velocity curves which determine how the force with which you hit the keys affects the volume of the notes played. This piano provides you with four different keyboard sensitivity options:

Normal ($A^{b}3$ key): This is the default setting and should work well for most players who play with an average amount of force. When selected, the LED display shows: nor

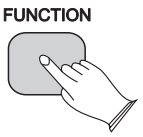
Low ($F^{\#}3$ key): This setting generates lower velocity values for the same force and is useful for playing more quietly, even with a heavy touch. When selected, the LED display shows: Lo

High ($B^{b}3$ key): The high setting generates higher velocity values for the same force and is useful for playing more loudly, even with a light touch. When selected, the LED shows: hd

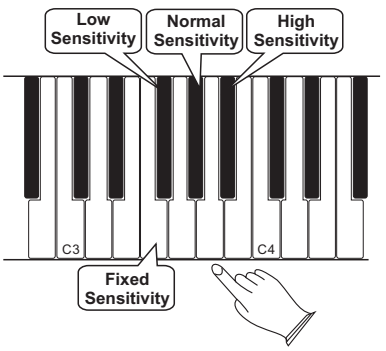
Fixed (F3 key) This setting effectively disables sensitivity control. The keyboard will generate a fixed velocity value of 100 (on a scale of 0-127) regardless of how hard or soft you play. When selected, the LED display shows: Fd.

To Set the Keyboard Sensitivity

Press the [FUNCTION] button to enter Edit Mode.



Press the desired Touch Select key (F3, $F^{\#}3$, $A^{b}3$, $B^{b}3$).The LED display will show the selected Touch setting. Please note that these keys are in the middle of the keyboard. If you need help locating them, please refer to the included laminated Special Function Key chart.



MIDI Functions

The Musical Instrument Digital Interface (MIDI) is an industry-standard protocol that enables electronic musical instruments such as keyboards, computers, drum machines, etc. to communicate, control, and synchronize with each other. MIDI transmissions consist of electronic codes that communicate notes to be played, the instrument, pitch or intensity that notes are to be played with, and controlling codes such as volume, vibrato, cues and clock signals.
The RP-25 has several functions that facilitate its use as a MIDI device or controller.

MIDI Connections

Connect the piano to other MIDI-capable devices as required.

MIDI Channels

The MIDI system in the RP-25 has 16 channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message.

The transmission channels are fixed as follows:

Channel 1	Master voice (keyboard)
Channel 2	Split voice (keyboard)
Channel 3	Layer voice (keyboard)
Channel 4	Track 1, playback, Master Voice
Channel 5	Track 1, playback, Split Voice
Channel 6	Track 1, playback, Layer Voice
Channel 7	Track 2, playback, Master Voice
Channel 8	Track 2, playback, Split Voice
Channel 9	Track 2, playback, Layer Voice
Channel 10	Metronome Track
Channel 11-Channel 16	unused

Multitimbral Mode

The piano is able to receive MIDI information on up to 16 channels simultaneously. If you plan to use your piano with a multitrack MIDI recording system, you can record up to 16 different parts using the voices, each played back individually on different MIDI channels. To ensure your recorded part is played back with the correct voice make sure to press the voice button first and play your part second.

NOTE

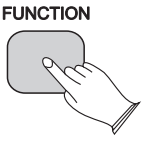
Because the DSP-388 is receiving playback information via MIDI, the currently selected voice on the piano may not correspond to the voice being played back.

Local On/Off(C#3)

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 Local off.

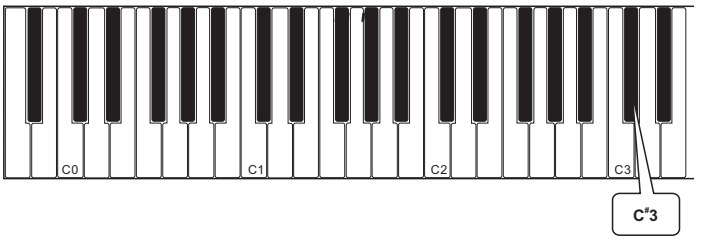
To turn Local On/Off to Off:

Press the [FUNCTION] button to enter Edit Mode.



Press the Local On/Off key (C#3)The LED display will show: oFF.

Turn Local On/Off to On



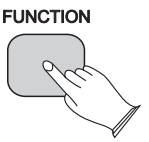
Repeat the above procedure. The LED display will show: on.

Main MIDI Transmit Channel(C#2)

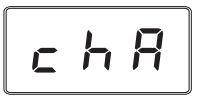
The main MIDI transmit channel number may be changed as necessary by increasing or decreasing the channel number.

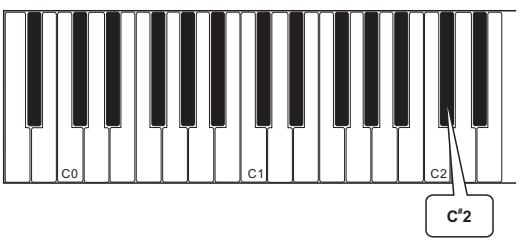
Change the Main MIDI Transmit Channel

Press the [FUNCTION] button to enter Edit Mode.



Press the MIDI Transmit Channel Key (C#2) The LED Display will momentarily show: chA.





Use the [DATA CONTROL] knob to select the desired Main MIDI Transmit Channel.

NOTE

The MIDI channels used for the Split and Layer voices are relative to the Main MIDI Transmit Channel, in the following way:

Split Voice Transmit Channel = Main MIDI Transmit Channel +1

Layer Voice Transmit Channel = Main MIDI Transmit Channel +2

Numeric Data Entry Keys(G5,A5,B5,C6,E6,F6,G6,A6,B6)

Some of the advanced MIDI editing functions of this piano require that a numeric value be entered. This can be accomplished using the Numeric Data Entry Keys.

Functions requiring numeric input include:

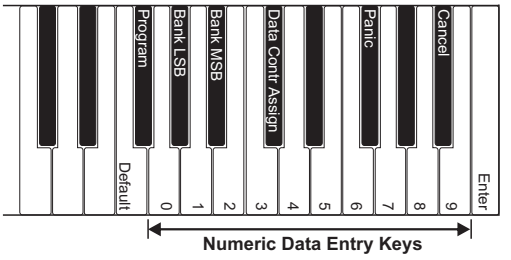
--- Program Change

--- Bank LSB

--- Bank MSB

--- Data Control Assign

These features are discussed in detail later in the MIDI Functions section.

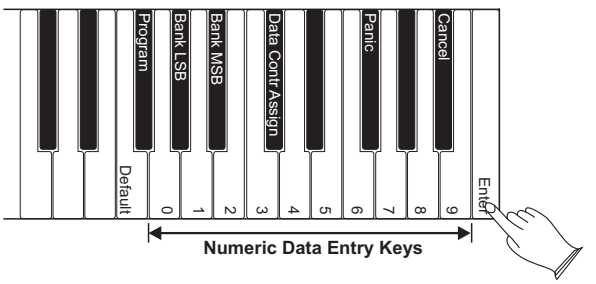


NOTE

If preferred, the Data Control knob may also be used to scroll to the desired numeric value, instead of using the Numeric Data Entry Keys.

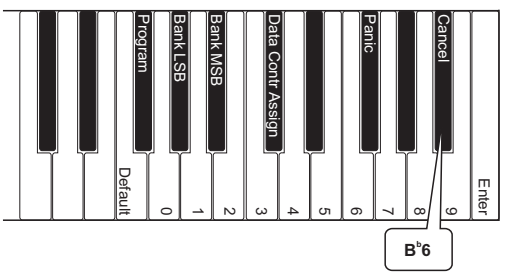
Enter Keys(C7)

When entering data in Edit Mode, pressing the Enter key will send the selected data to this piano as a MIDI command.
After pressing the Enter key, this piano will return to Performance Mode.



Cancel Keys($B^{b}6$)

Pressing the Cancel key at any time while in Edit Mode will exit Edit Mode and return this piano to Performance Mode. Settings will remain unchanged.

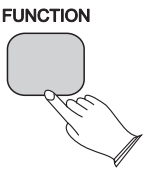


Data Control Assign Key($C^{\#}6$)

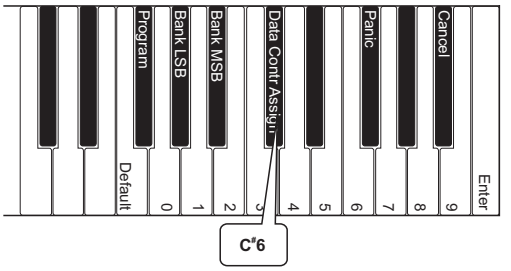
Pressing the Data Control Assign key while in Edit Mode will allow you to send MIDI Continuous Controller command values using the Data Control knob.

To assign the Data Control knob to send MIDI Continuous Controller command values:

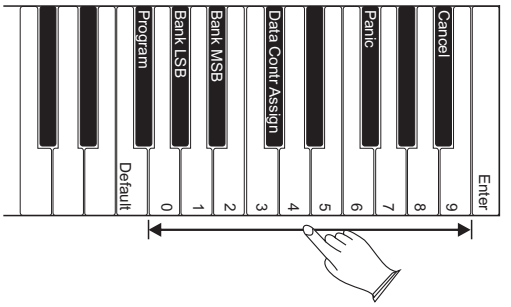
Press the [FUNCTION] button to enter Edit Mode.



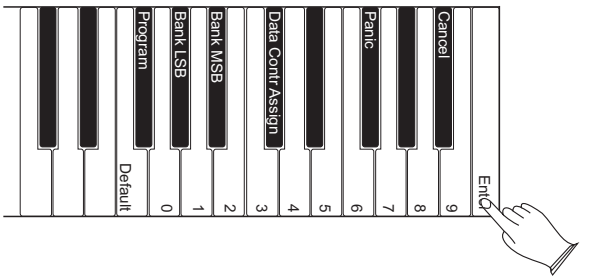
Press the Data Control Assign key (C♯6)



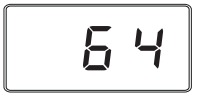
Using the Numeric Data Entry keys, select the Continuous Controller number you wish to assign to the Data Control knob.



Press the ENTER key (C7).



The piano is now back in Performance Mode and [DATA CONTROL] knob may be used to send values for the Continuous Controller (CC) number assigned to the [DATA CONTROL] knob.



NOTE

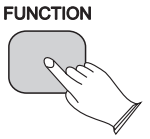
To reassign the Data Control knob for Voice Selection, press the [FUNCTION] button and then press the E♭2 key. (This procedure is illustrated at the beginning of the "Edit Mode" section.)

Panic Key(F#6)

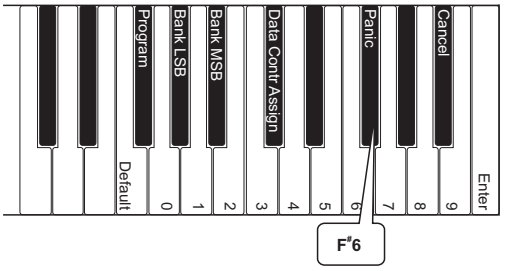
Pressing the Panic key will send out a "Reset All Controllers" and "All Notes Off" MIDI Message on ALL MIDI Channels 1 - 16. This can be especially useful for clearing "stuck notes" when controlling external MIDI devices or software.

To use the Panic key to send out a "Reset All Controllers" and "All Notes Off" MIDI Message on ALL MIDI Channels 1 - 16:

Press the [FUNCTION] button to enter Edit Mode.



Press the Panic Key (F#6).



NOTE

The Piano Reset procedure described at the beginning of the Additional Features section also sends out a "Reset All Controllers" and "All Notes Off" MIDI Message, but on MIDI Channel 1 only.

To do a Piano Reset, press the Reverb and Function buttons at the same time. For a complete list of MIDI commands sent during a Piano Reset, see Appendix A: Defaults.

Default Key(F5)

The Default Key can be used to reset any one of the following Edit Mode parameters to its default value:

--- Program (F#5) --- Bank LSB (A♭5)

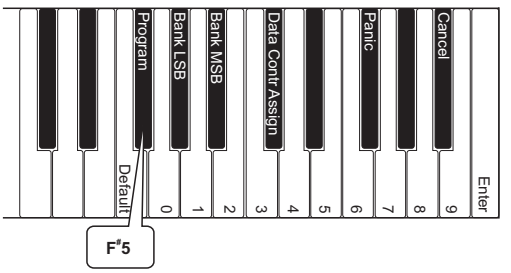
--- Bank MSB (B♭5) --- Data Ctrl Assign (C#6)

When the Default Key is applied to Program, Bank MSB, or Bank LSB, those parameters will be returned to their default value of zero. When the Default Key is applied to the Data Ctrl Assign parameter, the [DATA CONTROL] knob will be returned to its default function of "Metronome Tempo".

To apply the Default Key, press the [FUNCTION] button to enter Edit Mode.

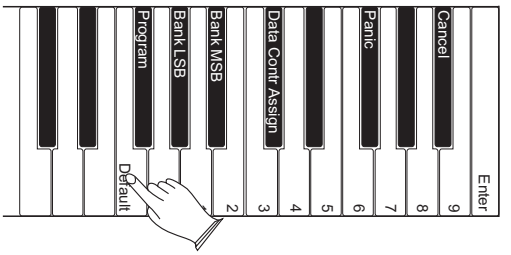
Press the special function key for the Edit Mode parameter you would like to return to its default value.

This example will use the Program parameter.



Press the Default Key (F5).

Once you have pressed the Default Key, this piano will automatically be back in Performance Mode, with the selected Edit Mode parameter returned to its default value.



NOTE

While in Edit Mode, if you happen to press the Default Key without first choosing an Edit Mode parameter, this piano will be returned to Performance Mode, with no other changes.

To clear all battery backed memory and restore all functions to their factory defaults, follow the Factory Reset procedure described near the beginning of the "Additional Features" section.

For information regarding the default values of all the various functions of the piano, please see Appendix :Defaults.

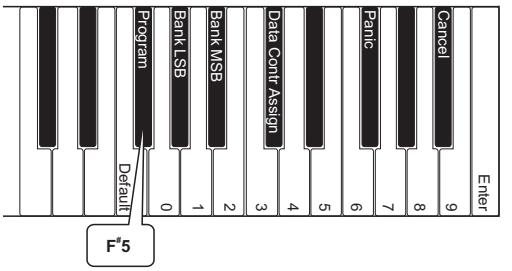
Sending MIDI Program Changes

There are two ways to send MIDI Program Number changes. You can either enter a single specific Program Number (Data Control knob assignment remains unchanged), or you can assign the Data Control knob to send MIDI Program Changes.

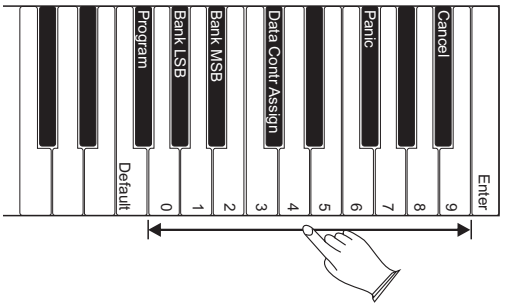
1.To send a single specific Program Number (Data Control knob assignment remains unchanged):

Press the [FUNCTION] button to enter Edit Mode.

Press the Program Key (F#5).



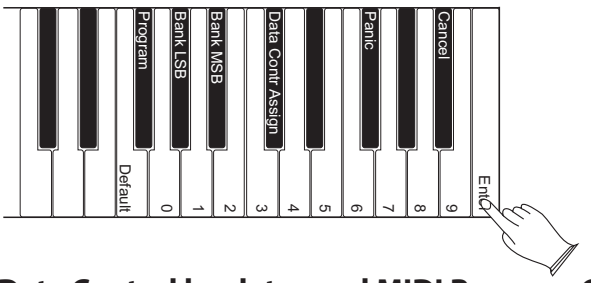
Using the Numeric Data Entry keys, enter the MIDI Program Number you want to send.



NOTE

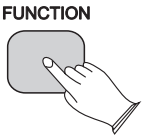
As an alternative to using the Numeric Data Entry Keys, you could instead use the Data Control knob to choose the MIDI Program Number in this step.

Press the Enter Key (C7) to send the MIDI command.



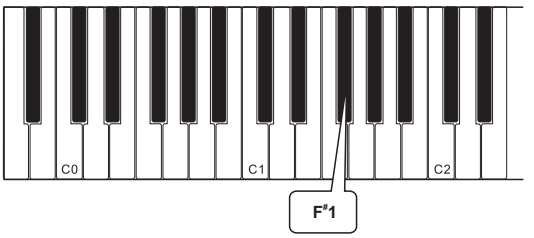
2.To assign the Data Control knob to send MIDI Program Changes:

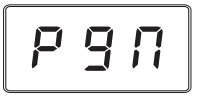
Press the [FUNCTION] button to enter Edit Mode.



Press the Program Number Data Control Key (F#1).

The LED display will momentarily show:P9n.





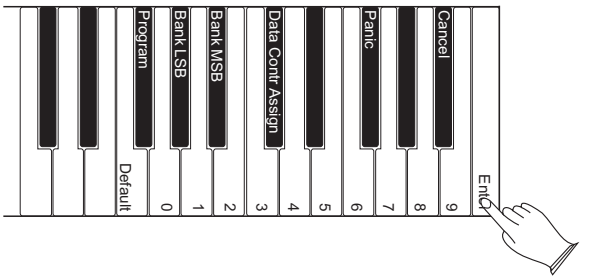
The piano is back in Performance Mode, and the [DATA CONTROL] knob has been assigned so that a MIDI Program Change will be sent out each time the knob is turned.

The LED display will show the currently selected MIDI Program Number (0 - 127).

NOTE

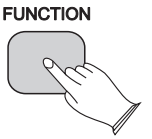
This is different than the Program Key (F#5) that you used to input a single MIDI Program Number value.

Press the Enter Key (C7) to send the MIDI command.

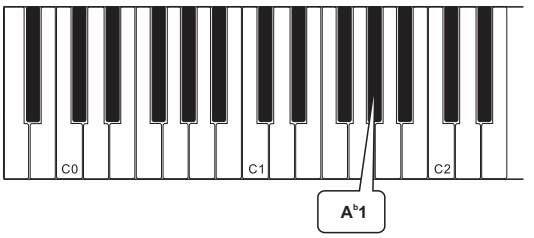


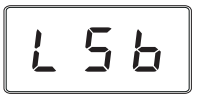
2.To Assign the Data Control Knob to Send Bank LSB Changes:

Press the [FUNCTION] button to enter Edit Mode.



Press the Bank LSB Data Control Key (A^{b}1).
The LED display will momentarily show: LSb.





NOTE

That this is different than the Bank LSB Key (A^{b}5) that you used to input a single Bank LSB value.

The piano is now back in Performance Mode, and the Data Control knob has been assigned to send Bank LSB values.
A MIDI Bank LSB change will be sent out each time the Data Control knob is turned. The LED display will show the Bank LSB value (between 0 and 127) as you turn the knob.

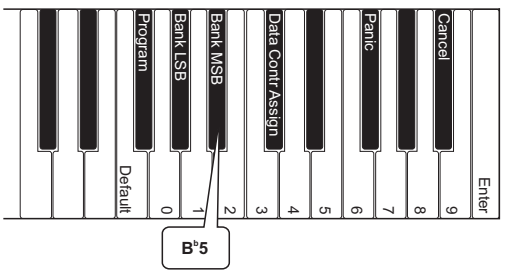
Sending Bank MSB Changes

There are two ways to send Bank MSB changes. You can either enter a specific MSB (Most Significant Byte) value using the Numeric Data Entry Keys, or you can assign the Data Control knob to send Bank MSB changes. (Please note that after any kind of bank message, it is usually necessary to follow up with a MIDI Program Change message in order to affect a sound change on the receiving device.)

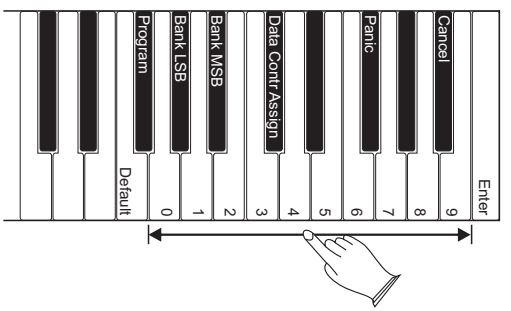
1.To Send a Specific Bank MSB Value Using the Numeric Data Entry Keys:

Press the [FUNCTION] button to enter Edit Mode.

Press the Bank MSB Key ($B^{b}5$).



Using the Numeric Data Entry keys, enter the Bank MSB value you want to send.



NOTE

As an alternative to using the Numeric Data Entry Keys, you could instead use the Data Control knob to choose the Bank MSB value in this step.

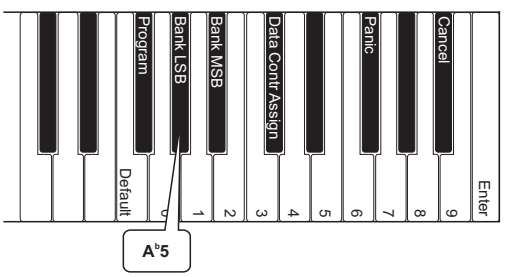
Sending Bank LSB Changes

There are two ways to send Bank LSB changes. You can either enter a specific LSB (Least Significant Byte) value using (Data Control knob assignment remains unchanged), or you can assign the Data Control knob to send Bank LSB changes. (Please note that after any kind of bank message, it is usually necessary to follow up with a MIDI Program Change message in order to affect a sound change on the receiving device.)

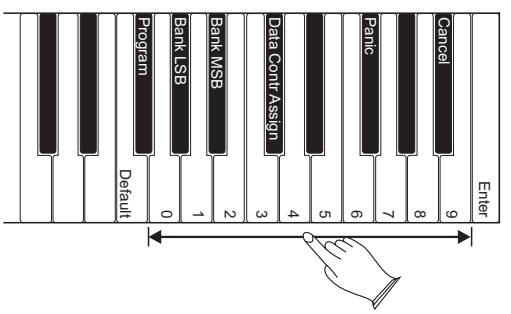
1.To Send a Specific Bank LSB Value (Data control knob assignment remains unchanged):

Press the [FUNCTION] button to enter Edit Mode.

Press the Bank LSB Key ($A^{b}5$).



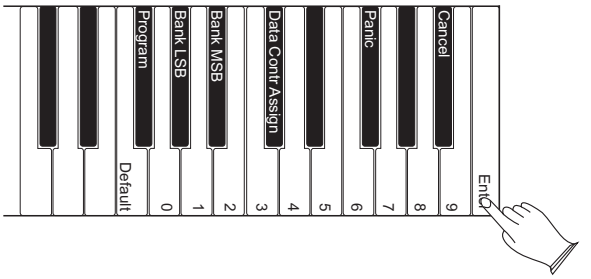
Using the Numeric Data Entry keys, enter the Bank LSB value you want to send.



NOTE

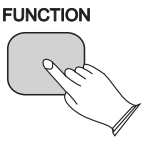
As an alternative to using the Numeric Data Entry Keys, you could instead use the Data Control knob to choose the Bank LSB value in this step.

Press the Enter Key (C7) to send the MIDI command.

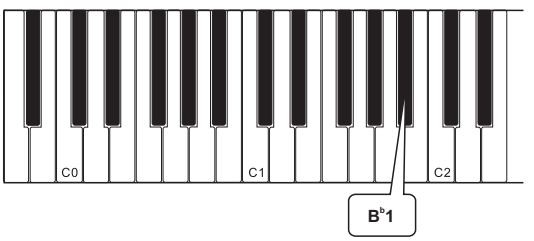


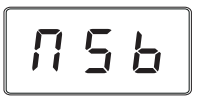
2.To assign the Data Control Knob to Send Bank MSB Changes:

Press the [FUNCTION] button to enter Edit Mode.



Press the Bank MSB Data Control Key ($B^{b}1$).
The LED display will momentarily show: nSb.





NOTE

That this is different than the Bank MSB Key ($B^{b}5$) that you used to input a single Bank MSB value.

The piano is now back in Performance Mode, and the Data Control knob has been assigned to send Bank MSB values.
A MIDI Bank MSB change will be sent out each time the [DATA CONTROL] knob is turned. (See the section on MIDI Functions for more information.) The LED display will show the Bank MSB value (between 0 and 127) as you turn the knob.

Appendix

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic	Default	1-16	1-16	*Up to 3 channels
Channel	Changed	1-16	1-16	simultaneously
Mode	Default	Mode 3	Mode 3	
	Messages	Yes	No	
	Altered	********	No	
Note	True voice	0~127	0~127	
Number		********		
Velocity	Note ON	Yes	Yes	
Note	Note OFF	Yes	Yes	
After	Key's	No	No	
Touch	Channels	No	No	
Pitch Bend		No	No	
Control Change		0-127	0,1,5,6,7,10,11, 32,64,65,66,67, 80,81,91,93,100, 101,121	
Program	True #	0-127	0-7	* 8 sounds only on
Change		********		RP-25, PGM= 0-7
System Exclusive		Yes*	Yes*	*The controller will recognize and respond to GM Device inquiries. Master Tune supported. Master Volume supported.
System	Song Position Pointer	No	No	
Common	Song Select	No	No	
	Tune Request	No	No	
System	Clock	No	No	
Real Time	Commands	No	No	
Aux Messages	All Sounds Off*	Yes	Yes	* The controller will respond to GM, but not piano voices.
	Reset All Controllers	Yes	Yes	
	Local ON/OFF*	Yes	Yes	
	ALL Notes OFF	Yes	Yes	
	Active Sensing	No	Yes	
	System Reset	No	Yes	
Notes				

MIDI Channel Modes		
	POLY OFF	MONO ON
OMNI ON	Mode1	Mode3
OMNI OFF	Mode2	Mode4

Data Control Assignments and MIDI CC List

When the Data Control back in Tempo, the metronome button's light will flash 3 times.

CC no.	Controller Name	Display Name	Default Value
	Tempo	20~280	120
	Octave	oct	0
	Transpose	trA	0
	Voice Volume	vol	127
	Layer Volume	Lyr	75
	Split Volume	SPL	127
	Metronome Volume	Mtr	127
	Time Signature	tSg	4.4
	Program Change	PgM	0
	Bank Change LSB	LSb	0
	Bank Change MSB	MSb	0
	MIDI Transmit Channel	chA	1
	Voice Select(same as CTRL 7 below)	SEL	
	Master Tune	tUn	0
0	0 Bank Select (coarse)	000	0
1	1 Modulation Wheel (coarse)	001	0
2	2 Breath controller (coarse)	002	0
3		003	0
4	4 Foot Pedal (coarse)	004	0
5	5 Portamento Time (coarse)	005	0
6	6 Data Entry (coarse)	006	0
7	7 Volume (coarse)	007	127
8	8 Balance (coarse)	008	0
9		009	0
10	10 Pan position (coarse)	010	64
11	11 Expression (coarse)	011	127
12	12 Effect Control 1 (coarse)	012	0
13	13 Effect Control 2 (coarse)	013	0
14		014	0
15		015	0
16	16 General Purpose Slider 1	016	0
17	17 General Purpose Slider 2	017	0
18	18 General Purpose Slider 3	018	0
19	19 General Purpose Slider 4	019	0
20-31		020,021,022...031	0
32	32 Bank Select (fine)	032	0
33	33 Modulation Wheel (fine)	033	0
34	34 Breath controller (fine)	034	0
35		035	0
36	36 Foot Pedal (fine)	036	0
37	37 Portamento Time (fine)	037	0
38	38 Data Entry (fine)	038	0
39	39 Volume (fine)	039	127
40	40 Balance (fine)	040	0
41		041	0

CC no.	Controller Name	Display Name	Default Value
42	42 Pan position (fine)	042	0
43	43 Expression (fine)	043	127
44	44 Effect Control 1 (fine)	044	0
45	45 Effect Control 2 (fine)	045	0
46-63		046,047,048...063	0
64	64 Hold Pedal (on/off)	064	0
65	65 Portamento (on/off)	065	0
66	66 Sostenuto Pedal (on/off)	066	0
67	67 Soft Pedal (on/off)	067	0
68	68 Legato Pedal (on/off)	068	0
69	69 Hold 2 Pedal (on/off)	069	0
70	70 Sound Variation	070	64
71	71 Sound Timbre	071	64
72	72 Sound Release Time	072	64
73	73 Sound Attack Time	073	64
74	74 Sound Brightness	074	64
75	75 Sound Control 6	075	0
76	76 Sound Control 7	076	0
77	77 Sound Control 8	077	0
78	78 Sound Control 9	078	0
79	79 Sound Control 10	079	0
80	80 General Purpose Button 1 (on/off)	080	0
81	81 General Purpose Button 2 (on/off)	081	4
82	82 General Purpose Button 3 (on/off)	082	2
83	83 General Purpose Button 4 (on/off)	083	0
84-90		084,085,086...090	0
91	91 Effects Level	091	40
92	92 Tremolo Level	092	0
93	93 Chorus Level	093	0
94	94 Celeste Level	094	0
95	95 Phaser Level	095	0
96	96 Data Button increment	096	0
97	97 Data Button decrement	097	0
98	98 Non-registered Parameter (fine)	098	127
99	99 Non-registered Parameter (coarse)	099	127
100	100 Registered Parameter (fine)	100	127
101	101 Registered Parameter (coarse)	101	127
102-119		102,103,104...119	0
120	120 All Sound Off	120	0
121	121 All Controllers Off	121	0
122	122 Local Keyboard (on/off)	122	0
123	123 All Notes Off	123	0
124	124 Omni Mode Off	124	0
125	125 Omni Mode On	125	0
126	126 Mono Operation	126	0
127	127 Poly Operation	127	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	000 - Grand Piano	No
Bank MSB Number	000	No
Bank LSB Number	000	No
Main MIDI Transmit Channel	Channel 1	No
Octave shift	0	No
Transpose	0	No
Local	On	No
Data Control Assignment	Data = Tempo	No
Reverb On/Off	Reverb On	Yes - store for each sound
Reverb Depth	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
Velocity Curve Selected	"NORMAL"	Yes
Split Point	Eb3	Yes
Voice Volume	127	No
Layer Volume	100	Yes
Split Volume	127	Yes
Metronome Volume	127	Yes
Master Tune	0	Yes
Tempo	120	Yes
Layer Mode Voice	n/a	n/a
Split Mode Voice	8 - Upright Bass	Yes
Layer Mode On/Off	Off	No
Split Mode On/Off	Off	No

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

Additional Default Information

1.Effects Defaults

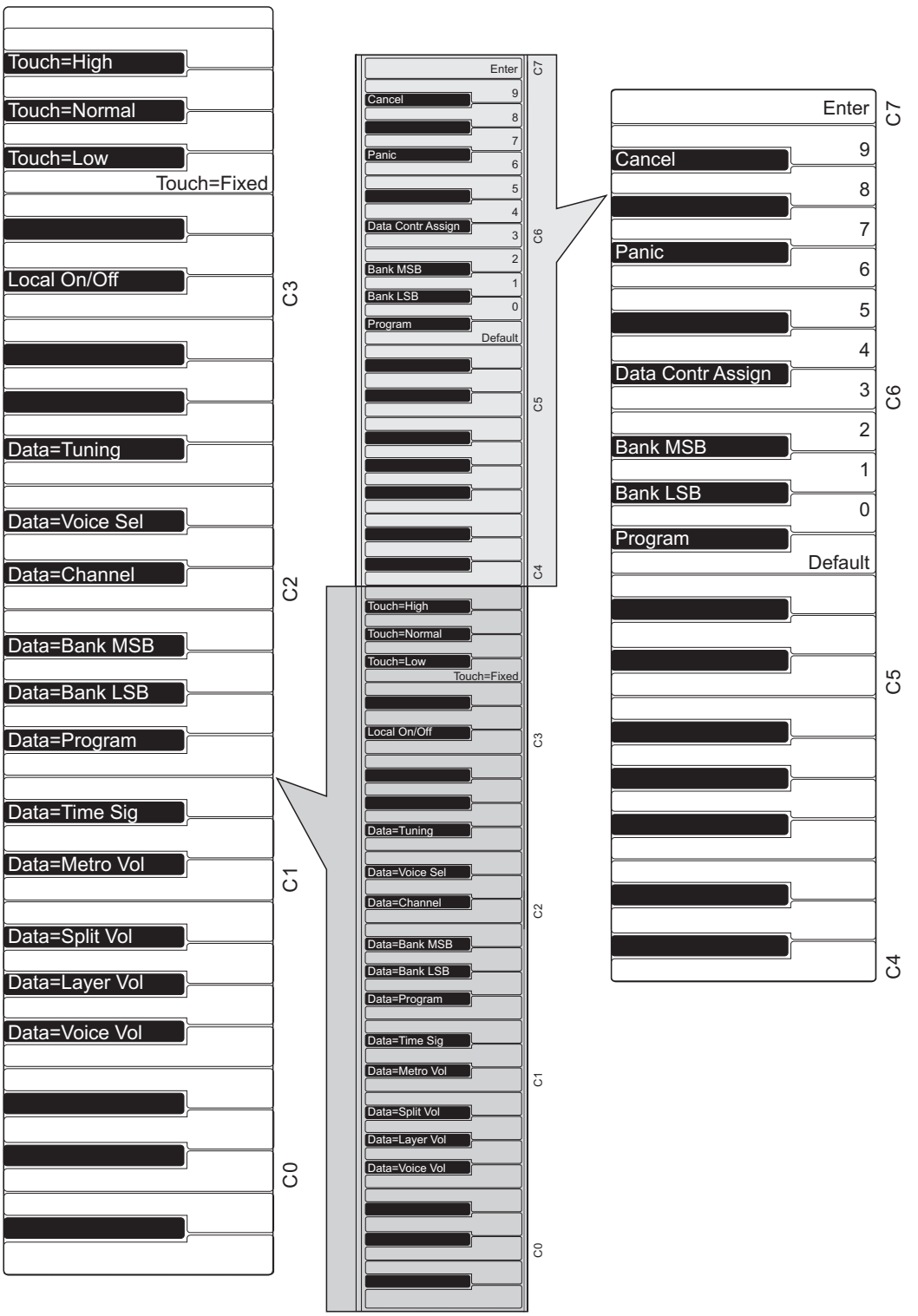
PGM	Sound Name	Reverb On/Off	Reverb Depth	Chorus On/Off	Chorus Depth
0	Piano	On 40	40	Off	64
1	E.Piano	On 40	40	Off	64
2	Harpsochord	On 40	40	Off	64
3	Vibes	On 48	48	Off	64
4	N. Guitar	On 96	96	Off	64
5	Organ	On 40	40	Off	64
6	Strings	On 64	64	Off	64
7	Bass	On 32	32	Off	64
MIDI Channel 10	(Metronome) Off	n/a 0	0	Off	0

2.Other Defaults

Parameter	Default	Value Range
Octave Shift	0	-2 to +2
Transpose	0	-12 to +12
Voice Vol	127	0 to 127
Layer Vol	75	0 to 127
Split Vol	127	0 to 127
Metronome Vol	127	0 to 127
Tempo	120	20 to 280 bpm
Program	0	0 to 127
Bank LSB	0	0 to 127
Bank MSB	0	0 to 127
Channel	1	1 to 16
Voice Select	1 (Grand Piano)	1 to 8 (display shows Voice names)
Tuning	440 Hz (display shows “0”)	-64 (-50 cents) to 63 (+50 cents) in 128 MIDI steps

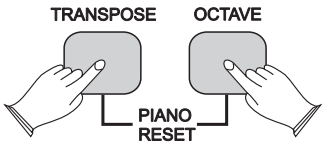
1 tone = 200 cents, therefore -100 to +100 cents = -1 to +1 semi-tone.
Note this is shown in MIDI steps -64 to 63.

Advanced Functions Keyboard Chart



Piano Reset in Detail

As soon as the Piano Reset function is activated (by pressing the [TRANSPOSE] and [OCTAVE] buttons simultaneously), the device will perform the following functions:



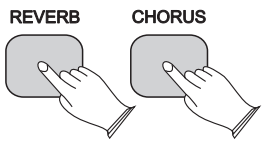
1. Turn Local On
2. Send “All Notes Off” Command on MIDI Channel 1 - external and to the internal sound engine
3. Send “Reset All Controllers” Command on MIDI Channel 1 - external and to the internal sound engine
4. Assign Data Control to Tempo
5. Set Volume levels for Main Voice, Split Voice and Layer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

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.

Please note that anything you have recorded in the Song Recorder will be erased by this procedure!

1. Turn the Power Off.
2. Hold down the [REVERB] and [CHORUS] buttons while powering on the piano.



The LED Display will light ALL segments, and all LEDs on the device will light while these buttons are held down. Once this has happened, you can release the [REVERB] and [CHORUS] buttons.

When the [REVERB] and [CHORUS] buttons are released, this Allegro will return to Performance Mode (ready-to-play). All button LEDs will return to their defaultstates.

The LED Display will show the version number of the firmware (the piano's internal operating software) for 2 seconds and then return to showing the Voice Name (Grand Piano - Pno).

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

Specifications

Keyboard:
88 weighted
hammer-action
velocity-sensitive keys

Display:
LED Display

Voice:
8

Polyphony:
64

Voice Control:
Layer, Touch, Trans, Split, Metro

Pedals:
Sustain

Effect:
Reverb, Chorus

Demo Song:
8

Song Recording:
Two track
10,000 notes per track

Midi:
Transmit Settings
Local Control

Connectors:
MIDI Out jack, USB to Host, Pedal socket,
Line Out/IN jacks, Phones jack ,
DC 12V power socket

Speakers:
YDT816: 4Ù*10W*2

Dimensions(W x D x H)
1143mm x 515mm x 310 mm

Weight:
17.1Kg

Supplied Accessories:
Owner's Manual

10506734V1.0