

**SAMICK**  
**D I G I T A L**

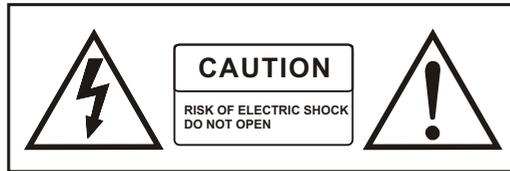
**DCP-12**



# 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 intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

## Important Safety Instructions

- 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 are provided for your safety, if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over (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 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.



(Figure 1)

**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 DCP-12 Digital Piano**

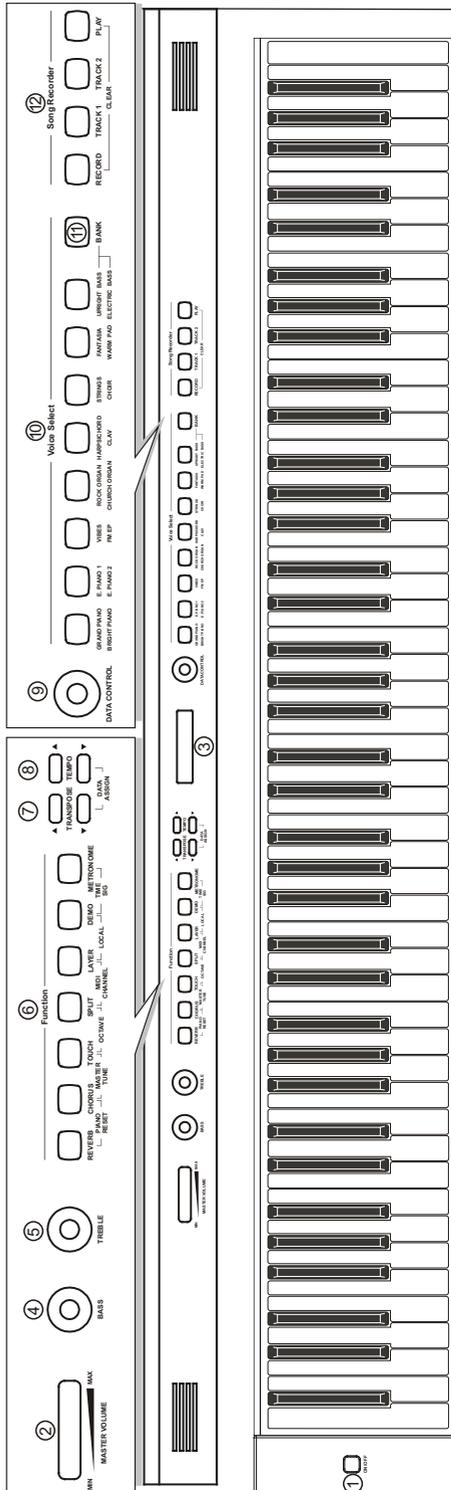
Your DCP-12 is a high quality digital piano featuring an 88 note hammer action, touch sensitive keyboard and the most advanced PCM tone generation technology that combined will provide you with a rich performing and playing experience. You can also record your own performances or record your own accompaniment to play along to. The DCP-12 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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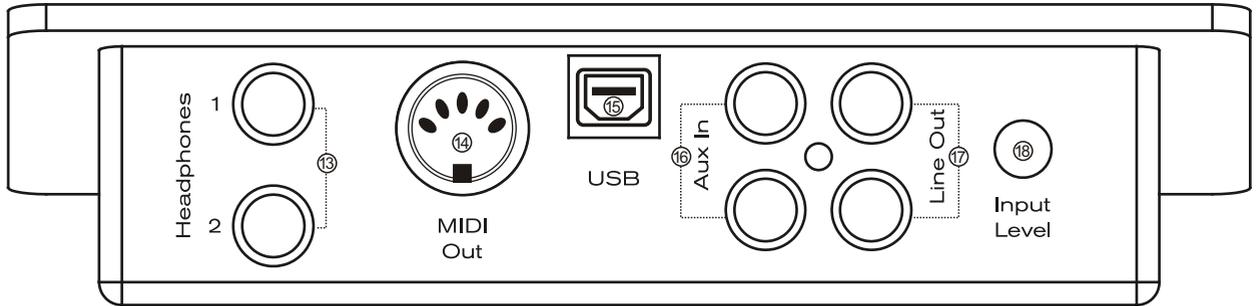
# Panel Control

## Top Panel



## Top Panel

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



### Connections Panel

- 13. Headphone Outputs
- 15. USB Connector
- 17. Line Out

- 14. MIDI Output
- 16. Aux Line In
- 18. Aux Input Level



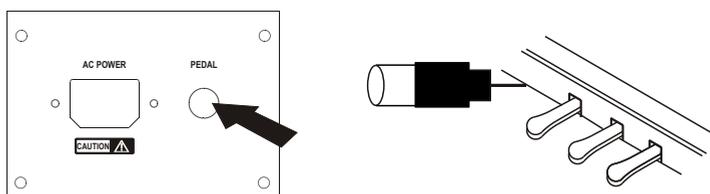
### Rear Panel

- 19. Power Socket
- 20. Pedal Connector

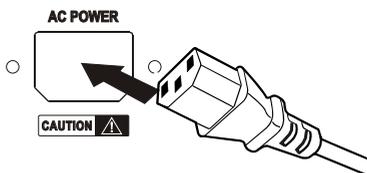
# Setup

You are no doubt eager to play your new DCP-12 instrument, but first please make sure you have completed the following basic setup steps:

- 1) Follow the assembly instructions as outlined on page 46 in the appendix of this manual.
- 2) Once the DCP-12 is securely assembled, connect the plug of the foot pedal unit to the pedal jack on the rear panel.



- 3) Plug in the included power chord to the rear of the piano body as illustrated below. Position the DCP-12 in the desired location, making sure that the power chord can reach a AC power connection point.



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

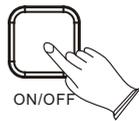
## **Caution**

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

# Basic Operation

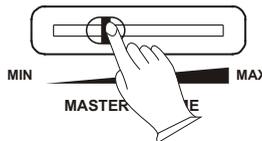
## Switching on Power

With the DCP-12 fully assembled and plugged in to a power outlet, its time to explore your piano in more detail. Start by pressing the POWER switch on the far right hand side of the keyboard, to turn on the power. The panel LCD display will light and display the default sound.



## Adjusting Volume & Start Playing

The speaker system in the DCP-12 is very powerful and can be overpowering in some rooms. Move the [MASTER VOLUME] fader to its halfway point. You can adjust the volume at any time even while you are playing .



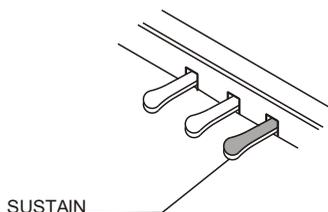
Now play the keyboard. You should hear the rich tone of the default Grand Piano sound.

## Piano Pedals

Just like a regular grand piano, your DCP-12 feature 3 foot pedals:

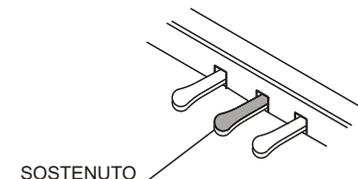
### **Damper Pedal (Right)**

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



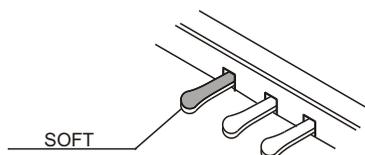
### **Sostenuto Pedal (Center)**

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



### **Soft Pedal (Left)**

The soft pedal on an acoustic piano changes the character of the sound, making it softer and quieter. The soft pedal on your DCP-12 does exactly the same. Press the soft pedal when you need to play passages that require extreme pianissimo.



## Bass & Treble

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

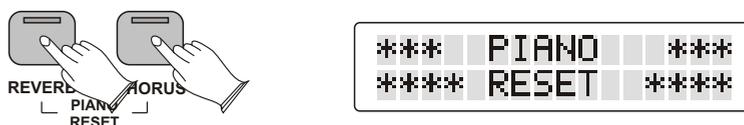


If you prefer a brighter sound move the Treble control to the right or move it to the left if you prefer a slightly darker tone.

## Piano Reset

The Piano Reset Function resets selected aspects of the DCP-12 voices back to the default factory state. These elements are carefully selected to give you a quick and easy way to get you back to playing the main piano voice again.

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



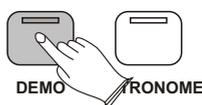
Now the piano is back in Performance Mode, with the Grand Piano voice selected. For a more detailed explanation of the Piano Reset function please check the appendix.

## Playing Demo Songs

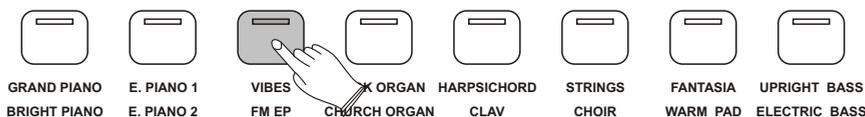
DCP-12 comes pre-programmed with a selection of sixteen demo songs. Each of the demo songs is designed to demonstrate one of the instrument voices built into the DCP-12.

### To Start Demo Song Playback

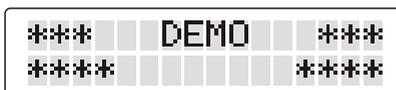
Press the [DEMO] button to enter Demo Mode.  
The display will show “DEMO,” and the Voice Select buttons will flash.



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



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



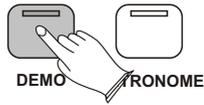
While in Demo Mode, as long as the Bank button is lit, pressing a Voice Select button will cause the demo song featuring that button's Bank B voice to play.

### **NOTE**

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

## Stop Playing

Pressing the [DEMO] button at any point will stop playback and return DCP-12 to Performance Mode, allowing you to play the piano normally again.

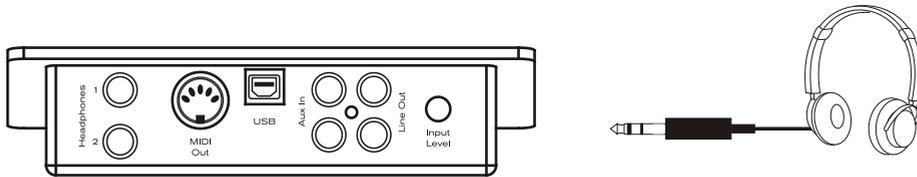


# The Connector Box

The DCP-12 features a connection box which allows you to connect external audio equipment, a computer, other MIDI equipment or headphones. The following describes each option in more detail.

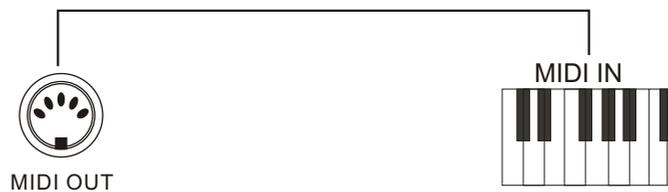
## Headphones

The DCP-12 is equipped with two sets of standard stereo headphone jacks to accommodate private practice or late-night playing. The internal speaker system is automatically shut off when a pair of headphones is plugged into the 1. Headphone jack.



## MIDI OUT

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

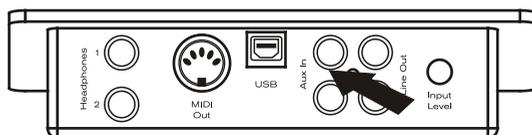


### **NOTE**

*MIDI OUT Transmits MIDI data to another MIDI device.*

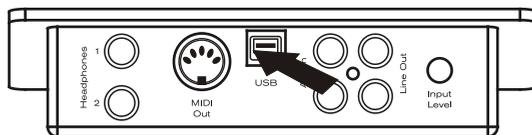
## Line OUT

The DCP-12's stereo RCA line output can be used to deliver the output of the piano to a keyboard amplifier, stereo sound system, mixing console or tape recorder. The DCP-12's internal sound system will remain on unless headphones are plugged in to the 1. Headphone jack.



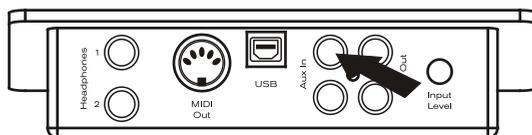
## Using USB-MIDI

This product allows the transfer of MIDI information over USB to a computer. As complicated this might sound, it's actually pretty straight forward. Because your DCP-12 is USB Class Compliant, there is no need to install a driver to enable it to work with computer running OSX, Windows XP, Vista or Windows 7. Simply just plug it in and the OS will do the rest. The DCP-12 will work with all standard MIDI based computer software.

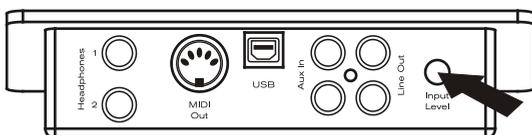


## Aux In

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



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



# Voice & Functions

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

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

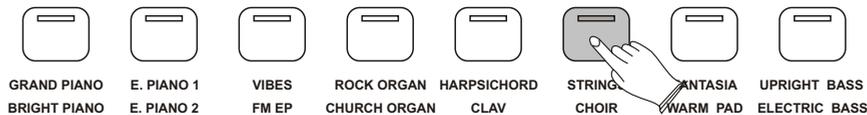
In either case, the name of the currently selected voice will be shown on the LCD.

## Voice Select

Press the sixth Voice Select button to select the Strings sound.

The button's blue LED will light up, and "Strings" will appear on the LCD.

Play the keyboard to hear the Strings voice. Notice that the Bank button is not lit.



Press the Bank button.

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



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

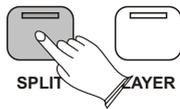
## Split Mode

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

### Use Split(left hand) Mode

Press the [SPLIT] button.

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

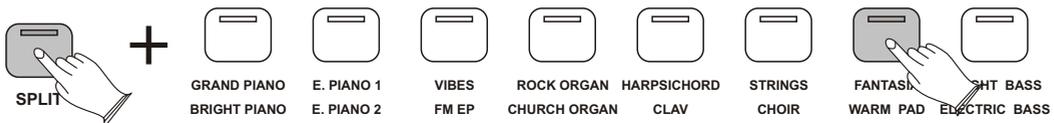


### **NOTE**

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

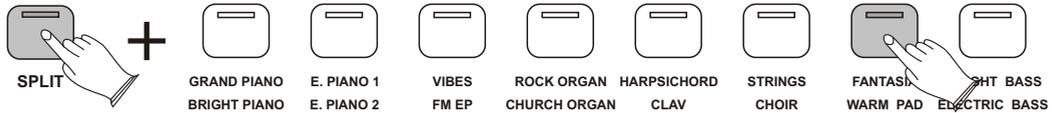
### Change the Split(left hand) Voice

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



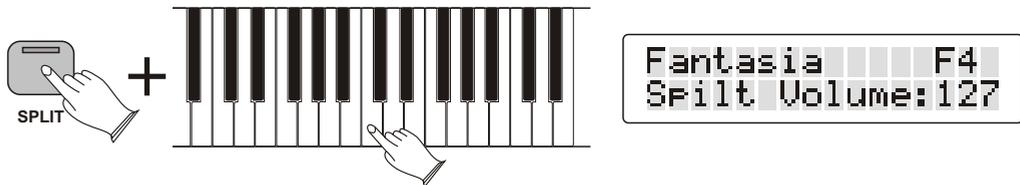
## Change the Main(right hand) Voice

Press the [SPLIT] button then press a voice select button.



## Change the Split(left hand) Point

Press and hold the [SPLIT] button while pressing the highest note to be included in the Split zone (i.e., the highest note to be played with the left hand voice).



## Change the Volume of the Split(left hand) Voice

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



## Change the Volume of the Main(right hand) Voice

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



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



Grand Piano									
Tem:120								Vol:120	

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



Grand Piano								F4	
Fantasia								Vol:110	

### **Turn off Split(left hand) Mode**

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



Grand Piano									
Tem:120								Vol:120	

**The default values for Split Mode are:**

**.Default Split Point: Eb3**

**.Default Split Voice: Upright Bass**

#### ***NOTE***

*The Main Voice (right hand voice) will transmit on the selected Main MIDI Transmit Channel.*

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

## Layer Mode

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

### Turn on Layer Mode

Press the [LAYER] button.

The LCD's top line will show the Main Voice (first) and the Layer Voice (second).

The bottom line will show the tempo and the Layer Voice volume.



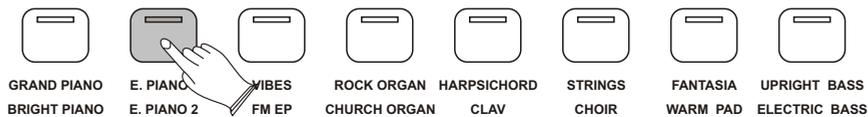
```
Grd PnotStrines
Tem:120 Vol:100
```

### **NOTE**

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

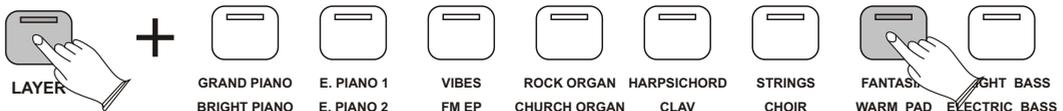
### Change the Main Voice

Press the Voice Select button.



### Change the Layer Voice

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





## Using Split and Layer Modes Together

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

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

<Main Voice>+<Layer Voice>

<Split Voice> <Layer Voice Volume>

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



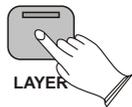
Grd Pno+Strins  
Up. Bass Vol:100

### NOTE

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

## Change the Main Voice Volume

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



Grand Piano Eb3  
Up. Bass Vol:127

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



Grand Piano  
Tem:120 Vol:127

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



Grand Piano				
Tem:120		Vol:120		

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



Grand Piano		Eb3		
Up.Bass		Vol:127		

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



Grd PnotStrinas				
Up.Bass		Vol:100		

## Transpose Button

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

### Use the Transpose Function

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

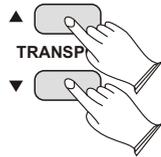
Once you have changed the Transpose setting, the LCD will show a positive or negative value to the right of the voice name:



Grand Piano		+01		
Tem:120		Vol:127		

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

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



**NOTE**

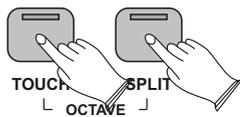
*Changes to the Transpose setting are not remembered after a power-cycle. The setting will be back at its default value of zero at power-up.*

## Octave Function

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

### Use the Octave Function

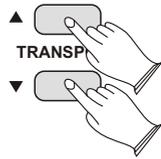
Press the [TOUCH] and [SPLIT] buttons at the same time to enter Octave Shift Edit Mode. The top line of the LCD will show: OctaveShift: -0-



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



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



**NOTE**

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

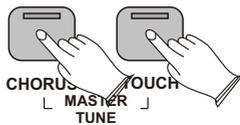
## Master Tune

Although DCP-12 never actually slips out of tune, the Master Tuning function can be helpful when playing along with another instrument that may be tuned slightly higher or lower than standard pitch.

### Adjust the Master Tune Setting

Press the [CHORUS] and [TOUCH] buttons at the same time.

The top line of the LCD will show: MasterTune: -0-



Use the [DATA CONTROL] knob (or the Transpose Up/Down buttons) to raise or lower the Master Tune setting.



**NOTE**

*Changes to the Master Tune value are remembered after a power cycle. Also note that the Master Tune command is sent to the internal sound engine only. It will not affect MIDI sent from DCP-12 to an external MIDI device or software program.*

## Touch Select Mode

The Touch Sensitivity setting, sometimes referred to as the velocity curve, lets you decide how the pressure with which you hit a key determines the volume at which the note plays. DCP-12 provides you with three different sensitivity options:

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

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

**Fixed** is essentially the “off” setting, effective when the Touch button is not lit. The same velocity value is sent regardless of how hard or how softly you strike the keys. The default Fixed velocity value is 100 (on a scale of 0-127), and can be adjusted (see next page).

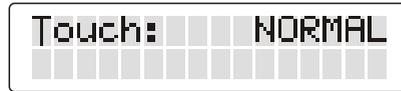
### Select a Touch Sensitivity Setting(Normal, Low, or High)

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



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

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



**NOTE**

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

**Set Touch Sensitivity to Fixed(off)**

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



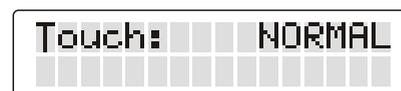
**Change the Fixed Velocity Value**

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



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

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



## Reverb Effect

The built-in digital Reverb can be used for adding a natural-sounding room ambience to any of the 16 voices built into DCP-12.

### Apply Reverb to a Voice

Press the [REVERB] button.

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



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

### Adjust the Reverb Depth

While holding the [REVERB] button, turn the [DATACONTROL] knob to adjust the Reverb Depth setting.

The LCD will show the current Reverb Depth setting. The minimum setting is 0, and the maximum setting is 127.



Once you have reached the desired amount of Reverb, let go of the Reverb button, and resume playing DCP-12.

#### **NOTE**

*If you prefer, you may use the Tempo Up/Down buttons instead of the Data Control knob to change the Reverb Depth (while holding down the Reverb button).*

## Change the Reverb Type

While holding the [REVERB] button, use the [TRANSP] buttons to select a Reverb Type. The LCD will show the current Reverb Depth and Type. Once you have selected the desired Reverb Type, let go of the Reverb button, and resume playing DCP-12.



The following Reverb Types are available:

01	02	03	04	05	06	07	08
ROOM1	ROOM2	ROOM3	HALL1	HALL2	PLATE	DELAY	PANDELAY

Each of the 16 voices of DCP-12 will remember its individual Reverb on/off status, Type and Depth setting, even after turning the Power switch off and on.

## **Chorus Effect**

The built-in digital Chorus can be used for adding a rich, swirling stereo effect to any of the 16 voices built into DCP-12.

### Apply Chorus to a Voice

Press the [CHORUS] button.

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



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

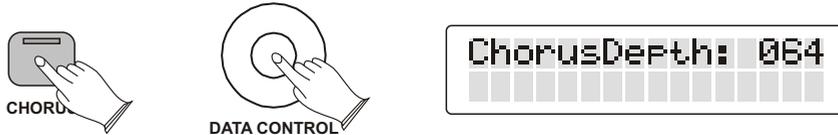
### **NOTE**

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

### Adjust the Chorus Depth

While holding the [CHORUS] button, turn the [DATA CONTROL] knob to adjust the Chorus Depth setting.

The LCD will show the current Chorus Depth and Type



Once you have the desired amount of Chorus, let go of the Chorus button, and resume playing DCP-12.

#### **NOTE**

*If you prefer, you may use the Tempo Up/Down buttons instead of the Data Control knob to change the Chorus Depth (while holding down the Chorus button).*

### Change the Chorus Type

While holding the [CHORUS] button, use the [TRANSP] buttons to select a Chorus Type. The LCD will show the current Chorus Depth and Type.

Once you have selected the desired Chorus Type, let go of the Chorus button, and resume playing DCP-12.



The following Chorus Types are available:

C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8
CHORUS1	CHORUS2	CHORUS3	CHORUS4	FEEDBACK	FLANGER	SHTDELAY	FBDELAY

Each of the 16 voices of DCP-12 will remember its individual Chorus on/off status, Type and Depth setting, even after turning the Power switch off and on.

## Metronome

The DCP-12 features a build-in metronome which you can use to practice your timing with. To activate it, simply press the METRONOME button.

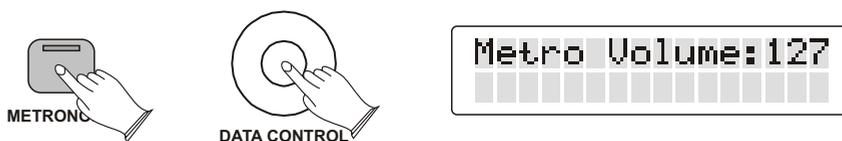
You can set both volume, tempo and time signature for the metronome. The following describes how to adjust each of those functions.

### Change the Metronome's Volume

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

The LCD will show the current Metronome Volume level. This can be adjusted between zero (minimum) and 127 (maximum).

When you have set a comfortable level, let go of the [METRONOME] button.



## Tempo

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

### Change the Metronome's Tempo

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



### **NOTE**

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

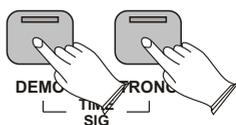
## Time Signature

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

### Change the Metronome's Time Signature

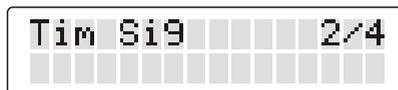
Press the [DEMO] and [METRONOME] buttons at the same time to enter Time Signature Edit Mode.

The top line of the LCD will show: Time Sig: 4/4



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

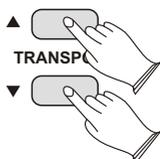
You step through the time signatures in the following order: 2/2, 2/4, 3/4, 4/4, 5/4, 6/8, 7/8, 9/8, 12/8



### **NOTE**

*After pressing the Demo and Metronome buttons in Step, you will have three seconds to begin using the Transpose Up or Down buttons (or the Data Control knob) to change the Time Signature. After three seconds, the piano goes back to Performance Mode (the basic “play the piano” setting), and the LCD goes back to its main screen. This three second “Time Out” function is common to most of the editing functions of DCP-12.*

While in Time Signature Edit Mode, press the [TRANSPOSE] Up and Down buttons at the same time.



# Song Recording

The Song Recorder (or sequencer) built into DCP-12 can record two individual tracks, allowing you to record one part and then play and record a second complementary part while the first part plays back.

## Record a Track

Simultaneously press the [RECORD] button and the [TRACK 1] button to record on Track 1.

Or Simultaneously press the [RECORD] button and the [TRACK 2] button to record on Track 2.

The Metronome will begin counting, but recording will not start yet. This is called Record Wait Mode.



Start playing the keyboard. Recording starts as soon as you play the first note.



### **NOTE**

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

When you are finished playing, press the [RECORD] button again to stop recording.

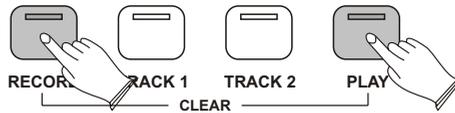


**NOTE**

*The Metronome may be turned off or on at any time while in Record Wait Mode, or during recording. To turn off the Metronome, press the Metronome button.*

**Erase a Track**

Press the [RECORD] and [PLAY] buttons simultaneously.



**NOTE**

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

Press the [TRACK] button for the track you wish to erase.



**NOTE**

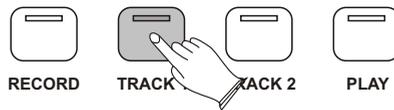
*Once the Clear function has been used to erase a track, this action cannot be undone. The track will be permanently erased.*

## Song Playback

During song playback, the Track buttons are used to determine which tracks will be audible during playback.

### Start Song Playback

Press the [TRACK] button of the track you wish to hear, so that the button lights up. (If the desired Track button is already lit, you can skip this step and proceed to Step 2).



#### **NOTE**

*That if there is nothing recorded on the track, the Track button will not light up, even if you press the button.*

Press the [PLAY] button to begin playback.



Grand Piano	■■■■
Tem:120	Vol:127

Also note that during playback, either (or both) Track buttons can be pressed at any time to make the corresponding track audible or inaudible. Playback will continue until the end of the recording, even if neither Track button is lit.

#### **NOTE**

*That pressing the Play button again during playback will stop playback.*

### **Play a Previously Recorded Track While Recording a Second Track**

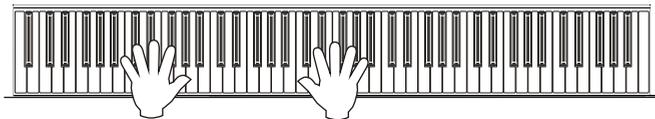
Press the [TRACK] button of the previously recorded track you wish to hear, so that its blue LED is lit. (If the Track button for the track you wish to hear is already lit, you can skip this step and proceed to Step 2).



Simultaneously press the [RECORD] button and the [TRACK] button of the track you wish to record on. This will start the Metronome.



Start playing the keyboard. Recording starts as soon as you play the first note (as does playback of the previously recorded track).



#### ***NOTE***

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

When you are finished playing, press the [RECORD] button again to stop recording.



#### **NOTE**

*If you have already recorded a performance on Track 1, and would like to record an independent performance on Track 2 (without hearing Track 1 as you record), you can make sure the Track 1 button is not lit (pressing it if necessary), before beginning to record on Track 2. When used this way, the song recorder allows you to record and play back two “single track songs” instead of one “two track song.”*

### **Punch In**

In recording jargon, “punching in” refers to recording over a portion of a previously recorded track, usually to fix a mistake. The previously recorded track plays up to the point of the mistake (the “punch in point”), at which time recording is activated on the track.

#### **Punch In on a Previously Recorded Track**

Press the Track button(s) for the track(s) you would like to hear so that the button(s) are illuminated. (If the Track button for the track you wish to hear is already lit, you can skip the above step and proceed to Step 2.)



Press the [PLAY] button.

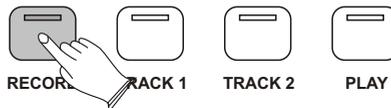
When the song reaches the point at which you would like to punch in, press the [RECORD] button and the Track button (for the track you want to record over) at the same time. The Record LED will light and the Play LED will go out.



Play the keyboard to record your new performance.



Press the [RECORD] button again to stop recording.



**NOTE**

*Once you have punched in, the old data on the selected track will be cleared from the punch in point to the end of the track, even if Record Mode is stopped before the end of the original recording, and even if no new notes have been played.*

# MIDI Functions

If you are an advanced MIDI user, this section will help you to access the MIDI controller capabilities of the DCP-12. If you already know that you need this specialized functionality, then this section is for you. However, this information is not necessary in order to enjoy playing the piano. A good rule to keep in mind is: If you don't know what a function described in this section is, then you probably don't need it.

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

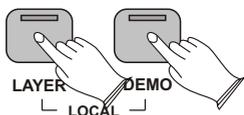
The DCP-12 can send MIDI information to a computer or another MIDI-capable instrument, via its MIDI or USB output. This enables the DCP-12 to act as a controller keyboard for another instrument, MIDI sequencer or MIDI enabled Digital Audio Workstation program.

## Local On/Off

Turning the Local On/Off function to Off will disconnect the keyboard from the internal sound engine of the DCP-12. This means you can use the DCP-12 as a MIDI controller to control other MIDI devices (or virtual instrument software running on your computer) without playing the internal sounds of the DCP-12. You may also find other occasions (such as when you are using MIDI sequencing software on your computer) where it is useful to turn Local off.

### Turn Local On/Off to Off

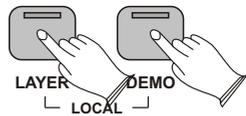
Press the [LAYER] button and [DEMO] button at the same time. The LCD show:



***	LOCAL	***
****	OFF	****

## Turn Local On/Off to On

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



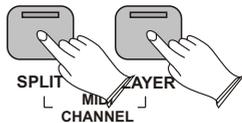
## **MIDI Channel**

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

### Change the Main MIDI Transmit Channel

Press the [SPLIT] button and [LAYER] button simultaneously to enter MIDI Channel Edit Mode.

The display will begin flashing the current Main MIDI Transmit Channel:



Use the [DATA CONTROL] knob or the [TRANPOSE] Up or Down buttons to change the Main MIDI Transmit Channel.

The new Main MIDI Transmit Channel will be selected and shown in the display.



If the keyboard is being played at the time of the MIDI Channel change, all new notes played will be sent on the new MIDI Channel. All held notes will play their note off messages on the MIDI Channel on which they were played.

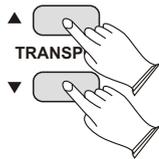
While in MIDI Channel Edit Mode, pressing the Transpose up and down buttons together will reset the Main MIDI Transmit Channel function back to its default value of Channel 1.

## Data Control Assign

Though it controls Voice Volume by default, the Data Control knob can be assigned to send control messages for a variety of functions, including Octave, Master Tuning, MIDI Program Change, Tempo, and any of the standard MIDI CC (Control Change) messages. A table containing all the possible Data Control knob assignments can be found in Appendix C -Data Control Assignments and MIDI CC List.

### Change the Assignment of the Data Control Knob

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



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



After approximately three seconds, the keyboard will go back into Performance Mode, with your new Data Control knob assignment.

Please note that the default assignment for the DataControl knob is 007-VolumC.

# Appendix

## MIDI Implementation Chart

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

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

## Data Control Assignments and MIDI CC List

CC no.	Controller Name	Display Name	Name(3 char)	Default Value
	Octave	Octave	Oct	0
	Transpose	Transpose	Tra	0
	Voice Volume	Voice Vol	Vol	127
	Layer Volume	Layer Vol	Vol	100
	Split Volume	Split Vol	Vol	127
	Metronome Volume	Metro Vol	Vol	100
	Time Signature	Time Sig	TSg	4/4
	Program Change	PGM Change	PGM	0
	Bank Change LSB	Bank LSB	LSB	0
	Bank Change MSB	Bank MSB	MSB	0
	MIDI Transmit Channel	MIDI Chan	Cha	1
	Voice Select	Voice Sel	Sel	0
	Master Tune	Master Tune	Tun	64
	Tempo	Tempo	Tem	120
0	0 Bank Select (coarse)	000-Bank C	CC	0
1	1 Modulation Wheel (coarse)	001-Mod C	CC	0
2	2 Breath controller (coarse)	002-BrethC	CC	0
3		3	CC	0
4	4 Foot Pedal (coarse)	004-FootPC	CC	0
5	5 Portamento Time (coarse)	005-PortaC	CC	0
6	6 Data Entry (coarse)	006-DataEC	CC	0
7	7 Volume (coarse)	007-VolumC	Vol	127
8	8 Balance (coarse)	008-BalanC	CC	0
9		9	CC	0
10	10 Pan position (coarse)	010-Pan C	Pan	0
11	11 Expression (coarse)	011-Expr C	Exp	0
12	12 Effect Control 1 (coarse)	012-Eff1 C	CC	0
13	13 Effect Control 2 (coarse)	013-Eff2 C	CC	0
14		14	CC	0
15		15	CC	0
16	16 General Purpose Slider 1	016-GenPr1	CC	0
17	17 General Purpose Slider 2	017-GenPr2	CC	0
18	18 General Purpose Slider 3	018-GenPr3	CC	0
19	19 General Purpose Slider 4	019-GenPr4	CC	0
20-31		020, 021, 022... 031	CC	0
32	32 Bank Select (fine)	032-Bank F	CC	0
33	33 Modulation Wheel (fine)	033-Mod F	CC	0
34	34 Breath controller (fine)	034-BrethF	CC	0
35		35	CC	0
36	36 Foot Pedal (fine)	036-FootPF	CC	0
37	37 Portamento Time (fine)	037-PortaF	CC	0
38	38 Data Entry (fine)	038-DataEF	CC	0
39	39 Volume (fine)	039-VolumF	CC	127
40	40 Balance (fine)	040-BalanF	CC	0
41		41	CC	0

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

## Defaults

### Default Settings

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

Parameter	Factory Default	Retained on Power-Down
Program Number & Voice Selected	0	No
Voice Button Bank Selection	Off	No
Bank MSB Number	0	No
Bank LSB Number	0	No
Transmit Channel	00(channel 1)	No
Octave shift	0	No
Transpose	0	No
Local	On	No
Data Control Assignment	Data = cc:007 Volume	Yes
Data Control Value (per assignment and only CC - not including PGM or Bank LSB/MSB)	Value of cc:007	Yes
Velocity Curve Selected	“NORMAL”	Yes
Voice Volume	100	Yes
Metronome Volume	127	Yes
Master Tune	0	Yes
Tempo	120	Yes
Reverb On/Off	Reverb On	Yes - store for each sound
Reverb Depth	Defaults for each sound	Yes - store for each sound
Reverb Type	Defaults for each sound	Yes - store for each sound
Chorus On/Off	Chorus On	Yes - store for each sound
Chorus Depth	Defaults for each sound	Yes - store for each sound
Chorus Type	Defaults for each sound	Yes - store for each sound
Split Mode On/Off	Off	No
Split Point	Eb3	Yes
Split Mode Voice	8 - Upright Bass	Yes
Split Volume	127	Yes
Layer Mode On/Off	Off	No
Layer Mode Voice	7 - Strings	Yes
Layer Volume	100	Yes

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

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

## Reverb and Chorus Defaults

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

## Piano Reset

As soon as the Piano Reset function is activated (by pressing the Reverb and Chorus buttons simultaneously), the device will perform the following functions:

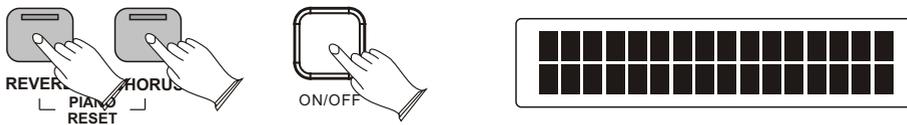
1. Turn Local On
2. Send “All Notes Off” Command on MIDI Channel 1 - external and to the internal sound engine
3. Send “Reset All Controllers” Command on MIDI channel 1 - external and to the internal sound engine
4. Assign Data Control to MIDI Controller 7 (Volume)
5. Set Volume levels for Main Voice,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

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

## 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 DCP-12 for the first time. Please note that anything you have recorded into the Song Recorder will be erased by this procedure!

Hold down the [REVERB] and [CHORUS] buttons while powering on DCP-12.



The LCD window will light all pixels, 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.

Once the reset has finished, DCP-12 will return to Performance Mode, allowing you to play the piano normally again. All button LEDs will return to their default states. The display window will show the version number of the *firmware* (the piano's internal operating system) for 2 seconds and then return to showing the Voice Name.

DCP-12 will then function normally, as if powered on for the first time.

## Specifications

**Keyboard:**

88 Keys With Touch Sensitivity

**Display:**

LcD Display

**Voice:**

16

**Polyphony:**

64

Voice Control:

Layer, Touch, Transpose, Split,

Metro, Octave

**Pedals:**

Soft, Sostenuto, Sustain

**Effect:**

Reverb, Chorus

**Demo Song:**

16

**Song Recording:**

Record two individual tracks

Built - in 1- song

**Midi:**

Transmit Settings

Local Control

USB MIDI

**Connectors:**

MIDI Out, Pedal, Line Out,

Aux in, Phones, USB Socket

**Speakers:**

WR05016-R×2

YDQG32-8C-4N18C×2

**Dimensions(W x D x H)**

1480mm×530mm×410mm

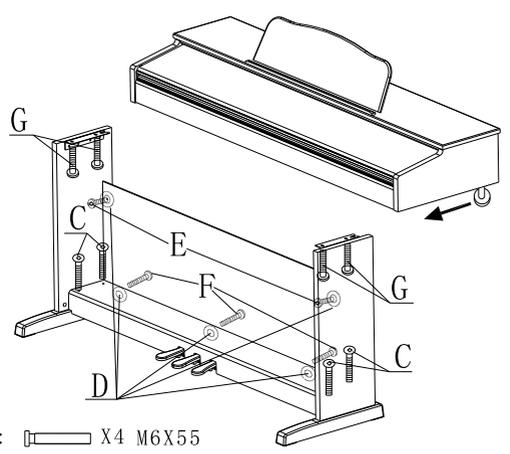
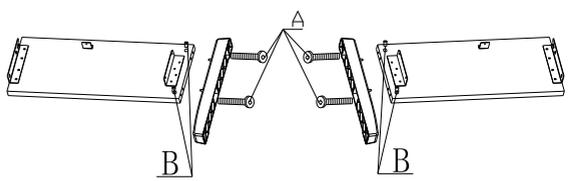
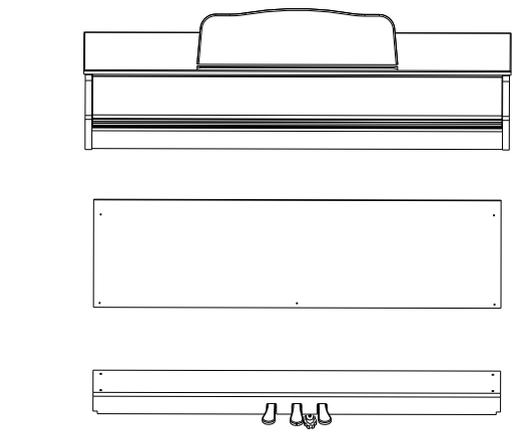
**Weight:**

49Kg

**Supplied Accessories:**

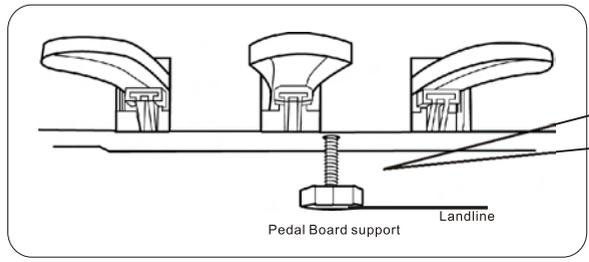
Owner's Manual

## Assembly Instructions



- A: X4 M6X55
- B: X4
- C: X4 M6X25
- D: X5 d=4
- E: X2 M4X16
- F: X3 M4X20
- G: X4 M6X16

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



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

10505547V1.0



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