

# DP-A 410 Digital Piano



# **Users** manual





## **INFORMATION FOR YOUR SAFETY!**

### THE FCC REGULATION WARNING (for USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

### **CAUTION**

The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

#### **PRECAUTIONS**

#### PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

#### **Power Supply**

When removing the electric plug from an outlet, always hold the plug itself and not the cord.

Do not connect the instrument to an electrical outlet using a multiple-connector or an AC outlet of voltage other than that for which your instrument is intended.

Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

#### **Connections**

Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

#### Location

Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- · Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

### Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

#### Cleaning

Clean only with a soft, dry cloth.

Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

#### Handling

Do not apply excessive force to the switches or controls. Do not let paper, metallic, or other objects into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

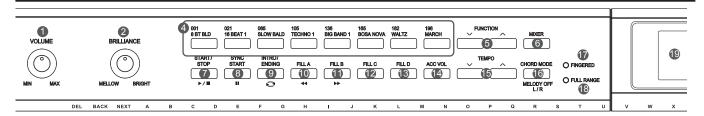
Disconnect all cables before moving the instrument.

# Contents

Panel & Display Description		DSP Effect	2
Front Panel	4	Reverb Type	2
LCD Display		Reverb Level	
Rear Panel		Chorus Type	
		Chorus Level	
Setup		MIDI IN	
Setup Guide	6	MIDI OUT	
		Touch	
Connections		Language	
Power Jack	Q	PowerOff	
Connecting a pair of Headphones			
Connecting a pair of freadphones		Register Memory	
Connecting an MP3/CD Player		Registering the Panel Setting	25
Connecting a Computer		Recalling the Registered Panel Settings	
Connecting a Computer		Selecting a Registration Bank	
Connecting external wild devices	10	Ocicoling a registration bank	
Adjusting the Master Volume	11	Song Recording	
		Start Recording	24
Adjusting the Voice Brilliance	11	Stop Recording	
,		Playback Recording	
Playing the Demo Song	11	Delete User Song	
,g 20			
Playing Voices		Song	
Playing Voices	12	Listening to the songs	26
Playing two voices simultaneously-DUAL		Song Control	
Playing Different Voices with Both hands-LOWER		Practice the song	
,		<b>3</b>	
Twinova	13	Restore Factory Setting	26
Auto Accompaniment		Connecting USB Flash Drive	
Play Auto Accompaniment(rhythm track only)	13	USB Flash Drive Operation	27
Play Auto Accompaniment(mytim track only)		Play	
Accompaniment Sections		Save	
Playing Different Accompaniment Sections		Load	
Accompaniment Volume		Delete	
Chord Fingering		Format	
Tempo		Keyboard and ASCII Character Relative Table	
One Touch Setting		Reyboard and Adon Gharacter Relative Table	20
Metronome		MIDI	
wetronome	10	What's MIDI?	3(
Miyor	17	MIDI Terminals	
Mixer	17	Downloading Data from the Computer	
Other Functions		Downloading Data from the Computer	
Tune	10	Troubleshooting	3.
Transpose		Troubleshooting	
•		Specifications	3.
Split Point		Openioations	
Beat Volume		Appendices	
Beat Volume		Voice List	21
Harmony Switch			
Harmony Type		Style List	
Scale Switch		Song List	
Scale Type		Chord List	
Scale Root		MIDI Implementation Chart	
EQ Type	21	Scale Tuning System	43

## **Panel & Display Description**

### Front Panel



- 1. [VOLUME] Knob
  Adjust master volume
- 2. [BRILLIANCE] Knob Adjust voice brilliance
- 3. USB device socket Insert a USB flash drive
- **12. [FILL C] button** A Fill-in C plays
- 13. [FILL D] button A Fill-in D plays
- **14. [ACC VOL] button**Adjust ACCOMP volume
- 15. [TEMPO+/-] button
  Adjust the current tempo
- 17. A.B.C. MODE lamp Indicate A.B.C. mode status: on or off
- **18. FULL RANGE MODE lamp**Show if the full range mode is on or off
- 19. LCD Show all the parameters related to the current operation
- **39. [POWER] button**Turn the power on or off

## When [SHIFT] key pressed SONO

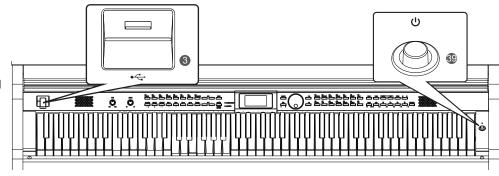
- **4. Style button 7.** Enter the style mode
- When [SHIFT] key released
- **4. Style direct button** Select a direct style
- 5. [FUNCTION+/-] button Enter function menu
- 6. [MIXER] button
  Enter mixer menu

#### **SONG MODE:**

- 7. [START/STOP] button
  Start or stop playing the song
- Start or stop playing the song
- 8. [PAUSE] button
  Pause the playing song
  or start it
- [REPEAT A/B] button
   Set the beginning and the end for a loop section of a selected song
- **10. [REW] button**Rewind the song
- 11. [FF] button
  Fast forward the song
- 16. [MELODY OFF L/R] button
  Use to mute/activate left or
  right-hand part, allowing each
  part to be practiced separately

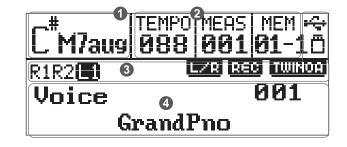
### STYLE MODE:

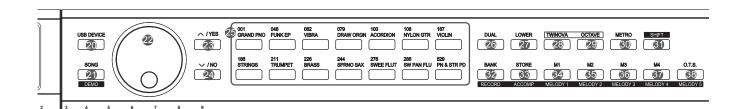
- 7. [START/STOP] button Start or stop playing the style
- 8. [SYNC START] button
  Turn the Sync Start on
  and off
- **9. [INTRO/ENDING] button** Play the Intro or Ending
- 10. [FILL A] button A Fill-in A plays
- 11. [FILL B] button A Fill-in B plays
- **16. [CHORD MODE] button**Choose chord mode



### LCD

- Chord display area
   Display chord information.
- Instant message area
  Display the current tempo, measure, memory/O.T.S setting.
- **3. Status display area**Display the status of function, USB drive, USB, etc.
- 4. System message display area Display important messages related to the current operation. I.e. in voice mode, it displays the voice name and number.





- 20. [USB DEVICE] button Enter USB DEVICE menu
- 22. Data dial Increase and decrease the value
- 23. [+/YES] button Increase the value
- 24. [-/NO] button Decrease the value
- 26. [DUAL] button Turn the Voice R2 on and off
- 27. [LOWER] button Turn the Voice L1 on and off
- 28. [TWINOVA] button Turn the TWINOVA on and off
- 29. [OCTAVE] button Set octave in TWINOVA mode
- 30. [METRO] button Turn the metronome on and off

## When [SHIFT] key pressed

21. [DEMO] button Enter demo mode and play

demo songs

- 25. [VOICE] button Enter the voice mode
- 32. [RECORD] button Enter record mode
- 33. [ACCOMP] button Select the accomp track to record
- 34~38. MELODY 1-5 button Select the melody1-5 track to record

### When [SHIFT] key released

21. [SONG] button

Enter song mode and play songs

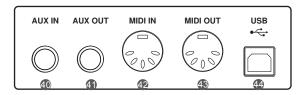
- 25. Voice direct button Select a direct voice
- 32. [BANK] button Select a bank to store settings
- 33. [STORE] button Register the current panel settings
- 34~37.M1~M4 button Recall the registered panel settings
- 38. [O.T.S] button Turn one touch setting on and off

Press and hold it to access secondary functions of other

### 31. [SHIFT] button

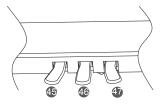
# buttons

## **Rear Panel**



- 40. AUX IN jack
- 41. AUX OUT jack
- 42. MIDI IN jack
- 43. MIDI OUT jack
- 44. USB jack

## **Pedal**



### 45. Soft Pedal

When you step on the soft pedal, all notes played on the keyboard will have a softer effect.

#### 46. Sostenuto Pedal

When you step on the sostenuto pedal, the notes played before you step on the pedal would have a sustain effect.

### 47. Sustain Pedal

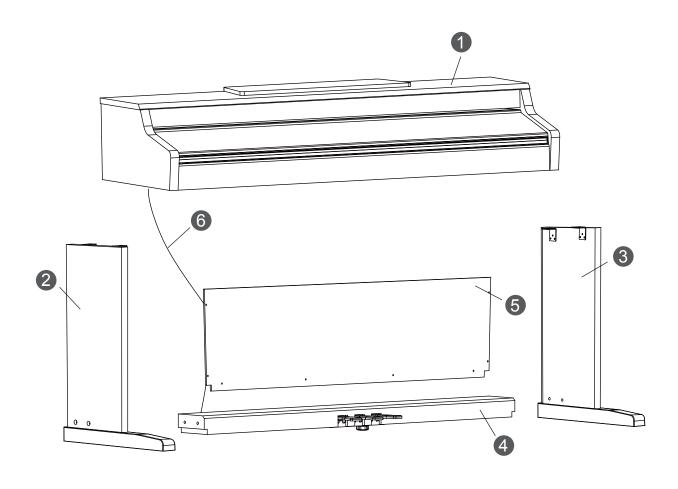
When you step on the sustain pedal, all notes played on the keyboard will have a longer sustain. It also supports the half-pedal operation. Performing with the sustain pedal will achieve a smoothly effect.

# Setup

This section contains information about setting up your instrument and preparing to play. Please go through this section carefully before turning the power on.

**Setup Guide**Before you proceeding to assemble the stand, get a Philip's screwdriver (not supplied).

Make sure you have the following parts, which are supplied into package.













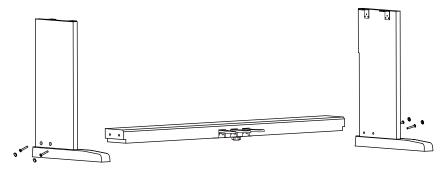




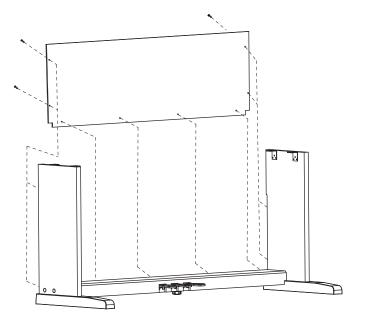


1	Piano body
2	Left leg component
3	Right leg component
4	Foot pedal
5	Rear board
6	Foot pedal cable
7	Hand screws (4pcs)
8	Screws M6x45 (4pcs)
9	Tapping screw 4x15 (8pcs)
10	Screw caps (4pcs)

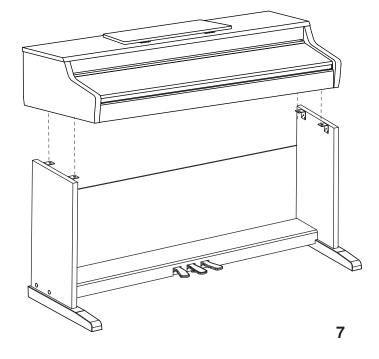
A. Put the foot pedal unit (4) in between the left and right leg components (2&3) use 4 pieces of screws (8) (2 on each side) to stable the legs onto the foot pedal unit. (Make sure the direction of the placement is correct before screwing)



**B.** Use 8 pieces screw (9), make the rear board fixed on the footpedal unit (4) and right leg component (3), the left leg component (2) finished in part B on the previous page.

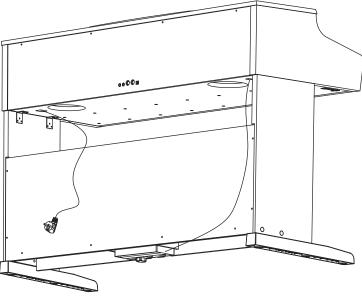


**C.** Put the piano body (1) on the top of the assembly finished in part B, use 4 pieces of hand screws (7) to stable afterward.

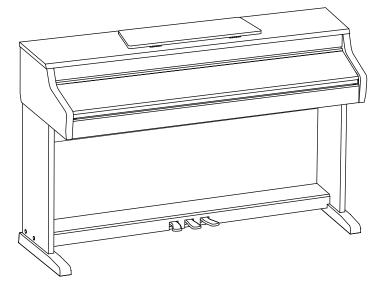


## Setup

**D.** After the initial set-up, connect pedal cable (6) with the foot pedal to the bottom-panel pedal jack.



**E.** Installation is completed now. Play the piano and enjoy the perfect performance.



## **Connections**

## **Power Jack**

## **Power Supply**

- 1. Make sure that the piano is turned off. Before you switch the piano on or off , turn down the volume of piano and any connected audio equipments first.
- 2. Connect the power cable to the AC outlet.
- 3. Press the [POWER] button, the LCD will display "LOADING...", which indicates the piano has powered on.
- 4. If you are ready to turn off the piano, press the [POWER] button again.

#### Notes:

- 1. The piano will be automatically shut down in about 30 minutes if it is not used.
- 2. When the keyboard is not in use or during thunderstorm, please disconnect the power for safety purpose.

## Connecting a pair of Headphones

A standard pair of stereo headphones can be plugged in here for private practice or late-night playing.

- Jack1: when a pair of headphones is plugged into the jack 1, the sound can be heard from both headphones and speakers of the instrument.
- Jack2: when a pair of headphones is plugged into the jack 2,the internal stereo speaker system is automatically shut off. The sound can only be heard from headphones.

#### Note:

To avoid the risk of hearing loss when using headphones, please do not play the piano with a high volume level for a long time.

## **Connecting an Audio Equipment**

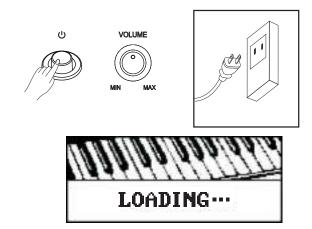
The rear-panel AUX.OUT jack delivers the output of the instrument for connection to a keyboard amplifier, a mixing console, or tape recorder. Use an audio cord to plug into the AUX.OUT jack located on the rear panel then plug the other end of the cord into AUX.IN of the amplifier.

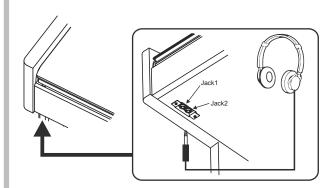
#### Note:

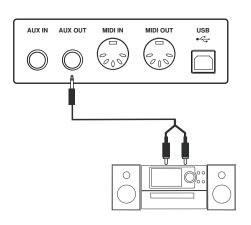
To avoid damaging the speakers, please ensure that the volume has been set to the minimum level before connecting the power and other devices.

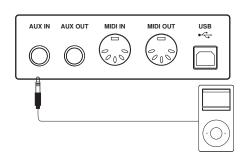
## Connecting an MP3/CD Player

Connect the audio output of an MP3/CD player or other audio source to the stereo AUX.IN jack on the rear panel. The input signal is mixed with the piano signal, allowing you to play along.









## **Connections**

## **Connecting a Computer**

You can use the USB Connector to receive MIDI messages from computer or transmit MIDI messages to computer.

You can use a commercially available MIDI interface to connect the piano to the computer via the MIDI connectors.

#### Note:

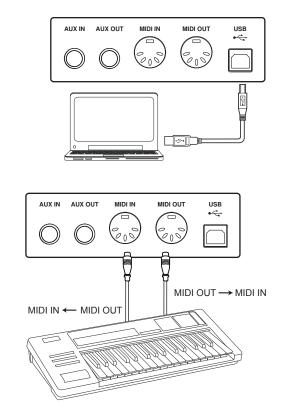
Do not set the USB device to be input and output simultaneously when setting the software on PC. Otherwise the sound will be overlapped when playing the keyboard.

## Connecting external MIDI devices You can use standard MIDI cables to connect external MIDI

devices.

MIDI IN: Receive MIDI message from an external MIDI device. MIDI OUT: Transmits MIDI message generated by the instrument. MIDI THRU: Simply relays the MIDI message received at MIDI IN.

To avoid damages, please be sure to turn off the power switches before you disconnect the related devices from the keyboard.



## **Adjusting the Master Volume**

Rotate the [VOLUME] knob to right, the volume increases and vice versa.



## **Adjusting the Voice Brilliance**

Slide the [BRILLIANCE] knob to right, the voice sounds brighter and vice versa. You can change the piano brilliance as you wish.



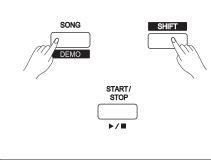
## **Playing the Demo Song**

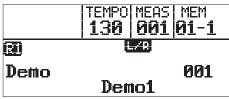
The instrument features 5 wonderful demos. Please refer to Demo List.

- Holding down the [SHIFT] button, then press the [DEMO] button to start the demo song playing, and the LCD will display the number and name of the demo.
- 2. Beats Flashing
  During demo playback, the LED indicator of [START/STOP] will flash
  with the current tempo, red for strong beat and green for weak beat.
- 3. You can use the data dial, [+/YES] / [-/NO]button to select a demo song.
- Holding down the [SHIFT] button, then press the [demo] button or press the [START/STOP] button directly to stop playing and exit the demo mode.

#### Note:

- In demo mode, only the following button functions will be available: [DEMO], [START/STOP], [TEMPO+/-], [+/YES], [-/NO], Data dial, [VOLUME], [BRILLIANCE], and [POWER].
   All other buttons and the keyboard function will become invalid.
- 2. In recording, style or song mode, the LED indicator of [START/STOP] will flash with the current tempo.





## **Playing Voices**

The instrument features 600 exceptionally realistic voices. Please refer to Voices List.

## **Playing Voices**

- 1. In idle status, holding down the [SHIFT] button, then press one of the voice direct button to enter the voice mode. LCD will display the name and number of the current voice and highlights "R1".
- Use the data dial, [+/YES]/ [-/NO] button to select the voice you want to play. You can also use the voice direct button to select a voice.
- 3. You can play the keyboard and listen to the wonderful voice.

#### Note:

When the Dual and Lower functions are on, hold down [SHIFT] button, then press one of the voice select buttons to shift the voice source between R1, R2 and L1. The selected one will be highlighted on LCD.

## Playing two voices simultaneously-DUAL

- In idle mode, press [DUAL] button to turn on dual voice. LCD displays current voice name and number, and highlights "R2".
- 2. When "R2" is highlighted, use the data dial, the [+/YES], [-/NO] button or voice direct button to select the dual voice you want to play.
- Play the keyboard, you will hear two different voices sounded simultaneously in a layer. It seems like two instruments playing at the same time.

#### Note:

When the keyboard has been split, only the right hand area will play the dual voice.

# Play Different Voices with Both hands-LOWER

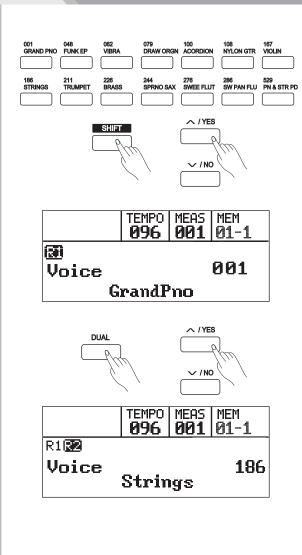
- In idle mode, press [LOWER] button to turn on lower voice. The keyboard is split into two independent areas, which have different voices. LCD displays the left hand voice name and number, and highlights "L1".
- When "L1" is highlighted, use the data dial, the [+/YES], [-/NO] button or voice direct button to select the lower voice you want to play.
- 3. Play the keyboard with both hands, and you will hear two different voices from the two areas.

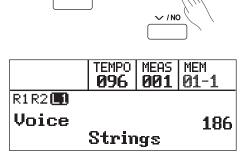
#### Note:

The right hand voice does not change when you change lower voice.

#### **Split Point**

The Point on the keyboard that separates voice L1 and voice R1/R2 is called the "split point". The split point is set to F#3/G3 at the factory setting. However you can set this to any key you want. Please refer to KeySplit setting for split point.





LOWER

ヘ/YES

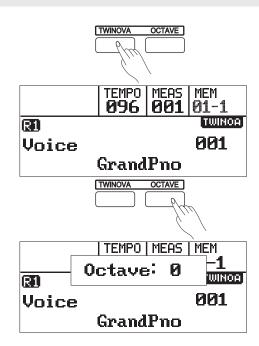
## **Twinova**

The twinova mode splits the keyboard into two independent areas, which have the same pitch and voice, for the convenience of one-to-one teaching.

- 1. In idle mode, press [TWINOVA] button to turn on twinova. LCD highlights "TWINOA". In twinova mode, dual voice and lower voice are unavailable. The default split point is E3 (32). Press [TWINOVA] button again you can exit twinova.
- In twinova mode, the default voice of right hand and left hand is the upper voice you select before entering twinova mode. Use the data dial, the [+/YES], [-/NO] button or the voice direct button to choose voice.
- 3. In twinova mode, press [OCTAVE] button, LCD temporarily displays the octave value of twinova. Now you can use the data dial, the [+/YES], [-/NO] button to set octave value of twinova. The range of octave is -1 to 1.

#### Note:

- 1. In the song playing mode, the twinova is invalid.
- 2. Please refer to Split Point setting to set the split point.



## **Auto Accompaniment**

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is to play the chords with your left hand using your selected accompaniment style, and then the accompaniment will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra. This keyboard features 240 (including 10 user styles: 231-240) styles in a variety of musical genres. Try to select some of the different styles (refer to Style List) and enjoy the auto accompaniment.

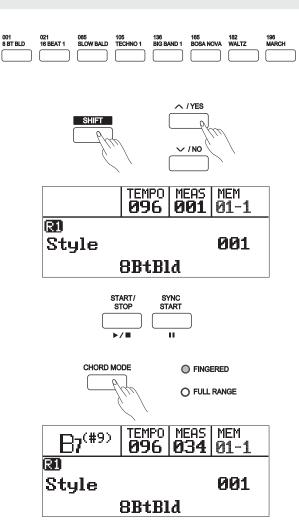
# Play Auto Accompaniment(rhythm track only)

- 1. In idle mode, when pressing [SHIFT] button, press any of the style direct button to enter the style mode. LCD displays the name and number of the current style.
- 2. Use the data dial, the [+/YES], [-/NO] button or the style direct button to choose style.
- Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment. Also you can press [SYNC START] and then play any key to start the rhythm tracks of the auto accompaniment.

## Play Auto Accompaniment(all tracks)

1. In style mode, press [CHORD MODE] button to enter "auto bass chord" (A.B.C.)mode. The "FINGERED" LED on the panel will light up. The keyboard is split into two areas. Play chords in the left hand area.

Press [CHORD MODE] button again to enter "full range" mode. The "FULL RANGE" LED on the panel will light up. You can play chords over the entire keyboard in normal fingering.



## **Auto Accompaniment**

2. Press [SYNC START] button , and then play a chord in the chord area to start auto accompaniment of all tracks. When you change a chord, the accompaniment automatically changes. Alternatively, press [START/STOP] button to start auto accompaniment of rhythm track, then play a chord in the chord area. It will start auto accompaniment of all tracks

## **Accompaniment Sections**

There are various types of Auto Accompaniment sections that allow you to vary the arrangement of the accompaniment to match the song you are playing.

They are: Intro, Main (A,B,C,D), Fill (A, B,C,D), and Ending. By switching among them during your performance you can easily produce the dynamic elements of a professional sounding arrangement in your performance.

#### **INTRO Section**

The intro is an opening section of the song. When the intro pattern finished, the system will automatically shift to the main section.

#### **MAIN Section**

The main is an important section of the song. And it plays an accompaniment pattern and repeat infinitely until another section's button is pressed.

#### **FILL IN Section**

Auto fill in function automatically adds a fill to your performance. When the fill-in is finished, accompaniment shifts to the Main section (A,B,C,D).

### **ENDING Section**

Ending is used for the ending of the song. When the ending is finished, accompaniment automatically stops. The length of the ending differs depending on the selected style.

#### Note:

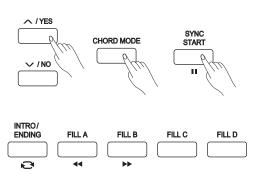
During style playback, hold down one of the FILL [A]-[D] buttons, and the selected fill-in pattern will play continuously until the button is released.

When style stops, press one of the FILL [A]-[D] buttons to select a main section. The corresponding LED will light up.

# Playing Different Accompaniment Sections

- Press style direct button or use the data dial, [+/YES]/[-/NO] button to choose style.
- Press [CHORD MODE] button to enter A.B.C. (auto bass chord) mode.
- 3. Press [SYNC START] button.
- 4. Press [FILL A] button.
- Press the [INTRO/ENDING] button. Now "A" LED flashes on panel, the style is ready to play.
- 6. It will start the accompaniment as soon as you start playing in Chord section. When the playback of the intro is finished, it automatically leads into Main A section.





## **Auto Accompaniment**

- 7. Press the [FILL B] / [FILLDC] / [FILL D] button. A fill-in plays, automatically followed by the Main B/C/D section.
- 8. Press the [INTRO/ENDING] again will lead it into the Ending Section. When the ending is finished, the auto accompaniment automatically stops.

## **Accompaniment Volume**

This function is used to change the volume of all tracks of accompaniment.

Press [ACC VOL] button, the LCD will display ACCOMP volume (from 0 to 127). At this time, you can use the data dial, or [+/YES]/[-/NO] button to adjust accomp volume.

## **Chord Fingering**

How the chords are played or indicated with your left hand (in the auto accompaniment section of the keyboard) is referred to as "fingering". There are 2 types of fingerings as described below.

#### **Chord Basics**

A chord, in music, is any harmonic set of three or more notes that is heard as if sounding simultaneously. The most frequently encountered chords are triads. A triad is a set of three notes that can be stacked in thirds. When stacked in thirds, the triad's members, from lowest pitched tone to highest, are called: the Root, the Third, and the Fifth.

#### **Triad Type**

There are following basic triad types:

Major Triad	A root with a major third added above and a perfect fifth
	will consist as a "Major Triad".
Minor Triad	A root with a minor third added above and a perfect fifth
	will consist as a "Minor Triad".
Augmented	A root with a major third added above and an
Triad	augmented fifth will consist as an "Augmented Triad".
Diminished	A root with a minor third added above and a diminished
Triad	fifth will consist as a "Diminished Triad".

### **Chord Inversion**

We define this chord its root is not in the bass (i.e., is not the lowest note) as an inversion chord. When the root is in the bass, we call the chord: root-position chord. If we put the Third and Fifth in the root position, then it forms "Inversion", we call this chord "Inversion Chord". See the following major triad and its inverted chord.

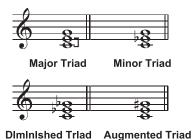
#### **Chord Name**

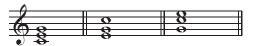
The chord name contains two parts content: Chord root and Chord type.

#### Single Finger

Single-finger makes it simple to produce major, seventh, minor and minor seventh chords by pressing a minimum number of keys on the auto accompaniment section.

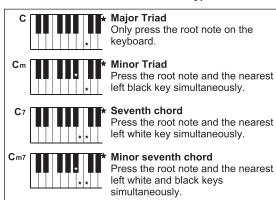






Root Position First Inversion Second Inversion





## **Auto Accompaniment**

#### Multi-finger

Multi-finger allows you to play chords in normal fingering. Try playing the 32 chord types in C scale as listed on the right.

#### Note:

In full range mode, the entire keyboard will only recognize chords played in normal fingering.

## Tempo

Each style of the instrument has been set with a default or standard tempo, however, this can be changed by using the [TEMPO+]/ [TEMPO-] buttons.

- Use the [TEMPO+] or [TEMPO-] button to change the tempo. While the tempo data is flashing, use the data dial also can change the tempo.
- 2. Press the [TEMPO+]/[TEMPO-] buttons simultaneously to restore the default tempo setting.

**One Touch Setting** 

When One Touch Setting is switched on, you can instantly recall all auto accompaniment related settings including voices selection and digital effects simply with a single touch of a button.

- 1. Press the [O.T.S.] button to turn on the One Touch Setting for current style.
- Press one of the one touch setting buttons [M1]-[M4]. Various panel settings (such as voice, effect, etc.) that match the selected style can be instantly recalled with just a single button press.
   Auto accompaniment is automatically turned on during O.T.S mode.
- 3. Play the keyboard.

One Touch Setting parameter list:

Part ON/OFF (VOICER1, R2, L1)

Voice Change (VOICER1, R2, L1)

Voice Volume (VOICER1, R2, L1)

Voice Reverb Level (VOICER1, R2, L1)

Voice Chorus Level (VOICER1, R2, L1)

#### Metronome

Using metronome helps you with beat that guides your playing by preset tempo.

1. Turn on the metronome

Press the [METRO] button to turn the metronome on.

2. Turn off the metronome

Press the [METRO] button again to turn the metronome off.

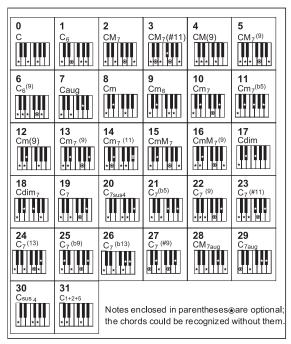
3. Metronome beat type setting

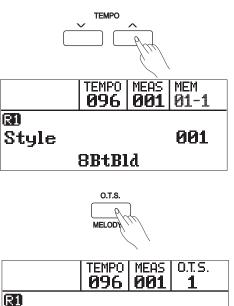
Please refer to beat type setting.

#### Note:

The metronome will respond in the next beat if it is turn on when the accompaniment is playing.

When recording, metronome beats cannot be recorded.





030

Voice



**DetunEP** 

## **Mixer**

108

Mixer function adjusts separately the volume of different tracks.

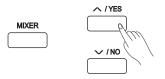
- 1. Press the [MIXER] button.
  - Now you have entered the menu of mixer. Press the [MIXER] button repeatedly to select a track to change its volume.
- 2. To adjust the selected volume setting, please use the data dial or the [+/YES]/[-/NO] button.

Press [+/YES] and [-/NO] button simultaneously to turn off a track volume.

Press[+/YES]and[-/NO] button simultaneously again to turn on a track volume.

The option and parameters are as follows:

Option	LCD display	Range
Rhythm slave volume	Slave Rhythm: xxx	0 - 127
Rhythm master volume	Master Rhythm: xxx	0 - 127
Bass volume	Bass: xxx	0 - 127
Chord 1 volume	Chord1: xxx	0 - 127
Chord 2 volume	Chord2: xxx	0 - 127
Chord 3 volume	Chord3: xxx	0 - 127
Phrase 1 volume	Phrase1: xxx	0 - 127
Phrase 2 volume	Phrase2: xxx	0 - 127
Voice R1 volume	Upper1: xxx	0 - 127
Voice R2 volume	Upper2: xxx	0 - 127
Voice L volume	Lower: xxx	0 - 127
Disk volume	Disk Vol: xxx	0 - 127



TEMPO MEAS MEM **096 001 01-1** 

R1

MixerSet

Rhythm\_m Vol:

## **Other Functions**

Press [FUNCTION+/-] button to enter function menu. The default option of the menu is "Tune". When you enter the menu next time, you will find the option is the same as last time. Use [FUNCTION+/-] button to select the option to set. Use [+/YES]/[-/NO] or data dial to set parameter of the current menu.

The option and parameters are as follows:

No.	Option	Range	Default
1	Tune	-50~+50	+00
2	Transpose	-12~+12	+00
3	Split Point	1~88	034
4	Beat Type	0, 2~9	004
5	Beat Volume	0~127	090
6	Harmony Switch	OFF, ON	OFF
7	Harmony Type	Duet, 1+5, Octave, CtryDuet, Trio, Block, 4Close1, 4Close2, 4Open	Duet
8	Scale Switch	OFF, ON	OFF
9	Scale type	Pythagor, Major, Minor, MeanTone, Werckmei, Kirnberg	Pythagor
10	Scale Root	C, C#, D, D#, E, F, F#, G, G#, A, A#, B	С
11	EQ type	Reset, Pop, Rock, Class, Jazz, Dance	Reset
12	DSP Effect	OFF, ON	ON
13	Reverb Type	Room1, Room2, Room3, Hall1, Hall2, Church, Delay, PanDelay	Hall2
14	Reverb Level	0~127	070
15	Chorus Type	Chorus1, Chorus2, GM Chrs1, GM Chrs2, Flanger1, Flanger2,Rotary1, Rotary2	Chorus1
16	Chorus Level	0~127	000
17	MIDI IN	1~16, ALL	ALL
18	MIDI OUT	1~16	001
19	Touch	OFF, 1, 2, 3	002
20	Language	中文, English	English
21	Power Off	OFF, 30, 60	030

### **Tune**

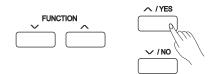
This function sets the pitch of entire keyboard in 2-cent increments.

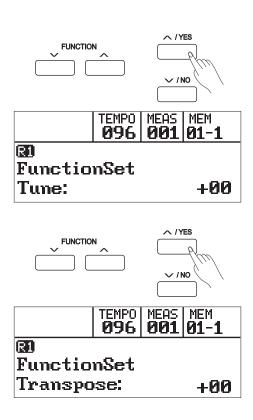
- 1. Press [FUNCTION+/-] button to select tune menu. LCD displays "Tune: xxx". Use [+/YES]/[-/NO] or data dial to change tune value. Its range is from -50 to 50.
- 2. Press [+/YES] and [-/NO] simultaneously will set the tune value to its default setting:000.

## **Transpose**

Transpose function allows the overall pitch of the instrument to be transposed up or down by a maximum of one octave in semitone steps.

- Press [FUNCTION+/-] button to select transpose menu. LCD displays "Transpose: xxx". Use [+/YES]/[-/NO] or data dial to change transpose value. The max transpose is±12 semitones.
- 2. Press [+/YES]/[-/NO] simultaneously will set the transpose value to its default setting:000.





## **SplitPoint**

This function sets the point that separates the entire keyboard to two sections.

- 1. Press [FUNCTION+/-] button to select SplitPoint menu. LCD displays "SplitPt: xxx". Use [+/YES]/[-/NO] or data dial to change SplitPoint value. The range of keyspilit: 1~88.
- 2. Press [+/YES] and [-/NO] simultaneously will set the SplitPoint value to its default setting: F#3(34).

#### Note:

When twinova is on, the range of keysplit is C3~C6(28~64). Press [+/YES] and [-/NO] simultaneously will set the SplitPoint value to its default setting: E3(32).

**Beat Type** 

- 1. Press [FŪNCTION+/-] button to select BeatType menu. LCD displays "BeatType: xxx". Use [+/YES]/[-/NO] or data dial to change beat type. The range of beat type: 0, 2~9.
- Press [+/YES] and [-/NO] simultaneously will set the beat type value to its default setting: 4.

## **Beat Volume**

- Press [FUNCTION+/-] button to select beat volume menu. LCD displays "BeatVol: xxx". Use [+/YES]/[-/NO] or data dial to change beat volume. The range of beat volume: 0~127.
- 2. Press [+/YES] and [-/NO] simultaneously will set the beat volume value to its default setting: 090.

## **Harmony Switch**

- 1. Press [FUNCTION+/-] button to select harmony switch menu. LCD displays "HarmonySw: xxx". Use [+/YES]/[-/NO] or data dial to change harmony switch status: OFF,ON.
- 2. Press [+/YES] and [-/NO] simultaneously will set harmony switch to default setting: OFF.

#### Playing with harmony:

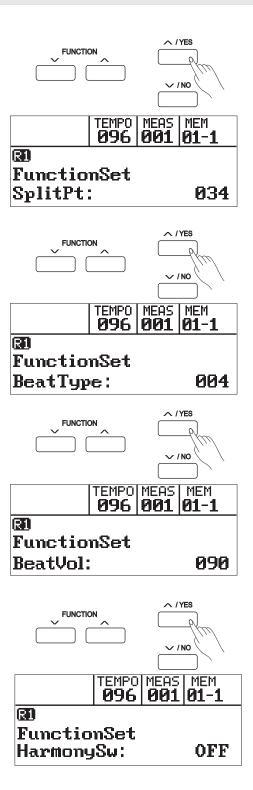
Turn on the A.B.C function, then play a chord in the left hand area. When you play in the right hand area, it will automatically add a harmony effect to the notes.

Harmony types "1+5" and "octave" are always available, while the rest are effective only when A.B.C is on.

## **Harmony Type**

You can add a variety of harmony notes to the keys you played in the right-hand section.

1. Press [FUNCTION+/-] button to select harmony type menu. LCD displays "HarmonyTp: xxx". Use [+/YES]/[-/NO] or data dial to change harmony type.



	TEMPO <b>096</b>	MEAS <b>001</b>	MEM <b>01-1</b>
FunctionSet			
HarmonyTp: Duet			

## **Other Functions**

There are 9 harmony types built into this instrument.

Parameter	LCD Display
Duet	Duet
1+5	1+5
Octave	Octave
Country Duet	CtryDuet
Trio	Trio
Block	Block
4 Close 1	4Close1
4 Close 2	4Close2
4 Open	4Open

Press [+/YES] and [-/NO] simultaneously will set harmony type to default setting: Duet.

## **Scale Switch**

The equal temperament (has only one tuning method, and is suitable for keyboard instrument) is commonly used in modern music, based on this temperament method to make your own composition and performance. Especially for piano, equal temperament is widely used and taken for granted. But people used several other scales to compose and perform before adopting the equal temperament.

- Press [FUNCTION+/-] button to select scale switch menu. LCD displays "ScaleSw: xxx". Use [+/YES]/[-/NO] or data dial to change Scale switch status: OFF, ON.
- Press [+/YES] and [-/NO] simultaneously will set scale switch to default setting: OFF.

## **Scale Type**

Press [FUNCTION+/-] button to select scale type menu.
 LCD displays "ScaleType: xxx". Use [+/YES]/[-/NO] or data dial to change scale type.

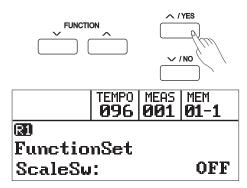
There are 6 scale types built into this instrument.

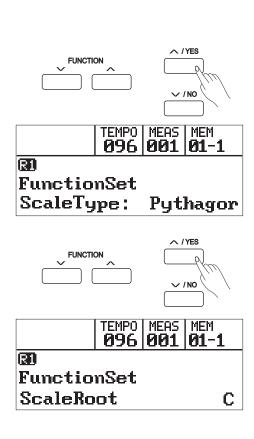
Parameter	LCD Display
Pythagorean	Pythagor
Pure Major	Major
Pure Minor	Minor
Meantone	MeanTone
Werkmeister	Werckmei
Kirnberger	Kirnberg

Press [+/YES] and [-/NO] simultaneously will set scale type to default setting: Pythagor.

## **Scale Root**

- Press [FUNCTION+/-] button to select scale root menu.
   LCD displays "ScaleRoot: xxx". Use [+/YES]/[-/NO] or data dial to change scale root: C, C#, D, D#, E, F, F#, G, G#, A, A#, B.
- Press [+/YES] and [-/NO] simultaneously will set scale root to default setting: C.





ヘ/YES

**EQ Type** 

EQ function can control the gain of different frequency band. And different gain settings produce different sound field effects.

Press [FUNCTION+/-] button to select EQ type menu.
 LCD displays "EqType: xxx". Use [+/YES]/[-/NO] or data dial to change EQ type.

There are 6 EQ types built into this instrument.

Parameter	LCD Display
Reset	Reset
Pop	Pop
Rock	Rock
Class	Class
Jazz	Jazz
Dance	Dance

2. Press [+/YES] and [-/NO] simultaneously will set EQ type to default setting: Reset.

## **DSP Effect**

- Press [FUNCTION+/-] button to select DSP effect menu. LCD displays "DspEffect: xxx". Use [+/YES]/[-/NO] or data dial to change DSP switch status: OFF, ON.
- 2. Press [+/YES] and [-/NO] simultaneously will set DSP switch to default setting: ON.

**Reverb Type** 

Press [FUNCTION+/-] button to select reverb type menu.
 LCD displays "ReverbType: xxx". Use [+/YES]/[-/NO] or data dial to change reverb type.

There are 8 reverb types built into this instrument.

Parameter	LCD Display
Room 1	Room1
Room 2	Room2
Room 3	Room3
Hall 1	Hall1
Hall 2	Hall2
Church	Church
Delay	Delay
Pan Delay	PanDelay

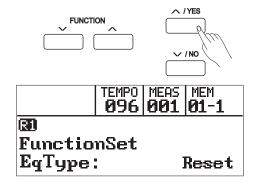
2. Press [+/YES] and [-/NO] simultaneously will set reverb type to default setting: Hall2.

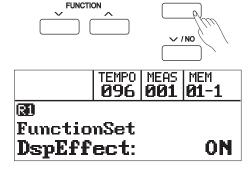
## **Reverb Level**

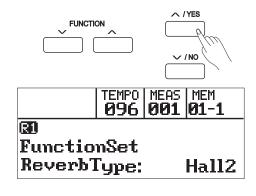
 Press [FUNCTION+/-] button to select reverb level menu. LCD displays "ReverbLev: xxx". Use [+/YES]/[-/NO] or data dial to change reverb level.

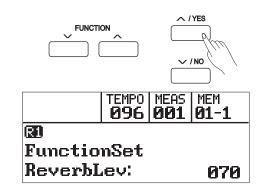
The range of reverb level: 0~127.

Press [+/YES] and [-/NO] simultaneously will set reverb level to default: 070.









## **Other Functions**

**Chorus Type** 

 Press [FUNCTION+/-] button to select chorus type menu. LCD displays "ChorusType: xxx". Use [+/YES]/[-/NO] or data dial to change chorus type.

There are 8 chorus types built into this instrument.

Parameter	LCD Display
Chorus 1	Chorus1
Chorus 2	Chorus2
GM Chorus 1	GM Chrs1
GM Chorus 2	GM Chrs2
Flanger 1	Flanger1
Flanger 2	Flanger2
Rotary 1	Rotary1
Rotary 2	Rotary2

2. Press [+/YES] and [-/NO] simultaneously will set chorus type to default setting: Chorus1.

## **Chorus Level**

Press [FUNCTION+/-] button to select chorus level menu.
 LCD displays "ChorusLev: xxx". Use [+/YES]/[-/NO] or data dial to change chorus level.

The range of chorus level: 0~127.

Press [+/YES] and [-/NO] simultaneously will set chorus level to default: 000.

### MIDI IN

- Press [FUNCTION+/-] button to select MIDI IN menu. LCD displays "Midiln: xxx". Use [+/YES]/[-/NO] or data dial to change MIDI IN channel:1~16,ALL.
- 2. Press [+/YES] and [-/NO] simultaneously will set MIDI IN channel to default setting: ALL.

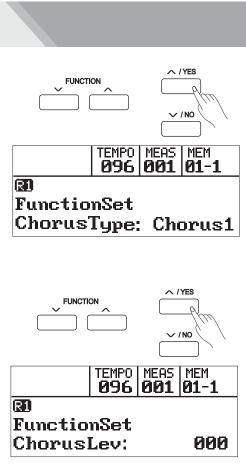
### **MIDI OUT**

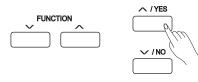
- 1. Press [FUNCTION+/-] button to select MIDI OUT menu. LCD displays "MidiOut: xxx". Use [+/YES]/[-/NO] or data dial to change MIDI OUT channel:1~16.
- Press [+/YES] and [-/NO] simultaneously will set MIDI OUT channel to default setting: 001.

#### Touch

The keyboard is equipped with a touch response feature that lets you dynamically and expressively controls the level of the voice with your playing strength just as on an acoustic instrument.

- 1. Press [FUNCTION+/-] button to select touch menu. LCD displays "Touch: xxx". Use [+/YES]/[-/NO] or data dial to change touch type: OFF, 1(soft), 2(normal), 3(hard).
- 2. Press [+/YES] and [-/NO] simultaneously will set touch value to default setting: 2(normal).



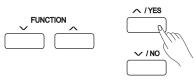


TEMPO MEAS MEM 096 001 01-1

TunctionSet
MidiIn: ALL

TEMPO MEAS MEM 096 001 01-1

TunctionSet
MidiOut: 001



TEMPO MEAS MEM 096 001 01-1

(3)

FunctionSet Touch: 002

## **Other Functions**

## Language

This function is used to set the system language.

- 1. Press [FUNCTION+/-] button to select language menu. LCD displays "Language: xxx". Use [+/YES]/[-/NO] or data dial to change language: 中文, English
- 2. The language setting will not be lost after power off.

## **PowerOff**

This function is used to set the time of automatic shutdown.

- Press [FUNCTION+/-] button to select power off menu. LCD displays "PowerOff: xxx". Use [+/YES]/[-/NO] or data dial to change time value: OFF, 030, 060
- Press [+/YES] and [-/NO] simultaneously, the time will be restore default: 030 minutes

The keyboard is an instrument with a variety of controls and functions, the Registration Memory feature can make your performance more easily and efficiently. It allows you to save virtually all panel settings to a Registration Memory setting, and you can instantly recall custom panel settings by pressing a single button.

## Registering the Panel Setting

- 1. There are 24 memory banks, each bank has 4 memories (M1-M4).
- 2. While holding the [STORE] button, press one of the REGISTRA-TION MEMORY buttons: [M1] - [M4]. Notice that the new settings will replace the previous memory data.

## **Recalling the Registered Panel Settings**

Press one of the MEMORY buttons [M1] - [M4] to recall a panel setting.

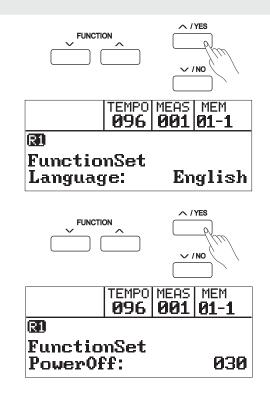
For example, press [M3] and LCD shows "01-3". It will recall a setting from memory 3 of bank 1.

#### Note:

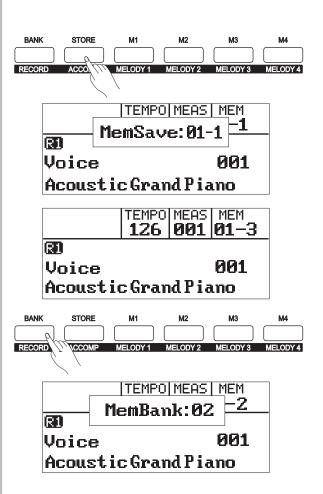
Registration data cannot be recalled when the One Touch Setting function is on.

## Selecting a Registration Bank

- Press the [BANK] button. There are 24 banks at all and each bank has 4 memories(M1-M4). Press the [BANK] button, the LCD displays "MemBank".
- 2. Select a bank. Use the data Ddal, [+/YES] or [-/NO] button to select a bank from 1 to 24.



## **Register Memory**



## **Song Recording**

With the easy-to-use song recording features, you can record your own keyboard performances as a user song. 10 user songs can be recorded with 6 tracks (1 ACCOMP track, 5 MELODY tracks) each. The accomp track records the accompaniment for a user song, while the melody tracks record melodies for a user song.

An accomp track and a melody track can be recorded independently or together, however, you can not record two melody tracks at the same time.

You can play back the accomp track and melody tracks together. The saved data will not be lost after power off.

## **Start Recording**

Before recording starts, you will need to select a user song to which your recording will be saved.

- Holding down [SHIFT] button, then press [RECORD] button to enter the user song selection interface. The LCD displays "RecSong1" and sequence number. 10 user songs can be recorded. Press [+/YES] / [-/NO] button to select the user song you want.
- Hold down [SHIFT] button, then press [RECORD] button again to enter the recording standby mode. "REC" appears on LCD, and the [START/STOP] LED on the panel lights up.
   It will automatically select an empty track to record your performance. LED of the selected track (ACCOMP, MELODY1 -MELODY 5) will flash on the panel.
- 3. In recording standby mode, you can select your desired voice, style and tempo.

Hold down [SHIFT] button, then Press [Accomp] or [Melody1] - [Melody 5] to select a different track. LED of the selected track will light up on the panel.

An accomp track and a MELODY track can be recorded together, but it cannot record two melody tracks simultaneously.

4. Press [START/STOP] button or play the keyboard to start recording. The [RECORD] LED will light up.

When the accomp track is selected and A.B.C is on, recording will start as soon as you play a chord in the left hand area.

### Note:

Style can only be recorded in "Accomp" track.

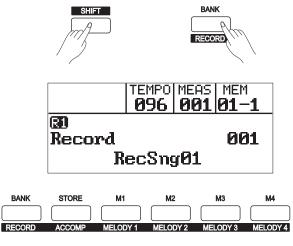
Track indicators on the left of LCD usually shows one of three states: blinking, light up, light off. Press the track buttons repeatedly to shift between different states.

**Blinking:** the track is selected for recording. All existing data will be over-written.

**Light up:** the track has data and will play back the data during recording.

**Light off:** the track either has no data or is under recording and cannot play back.

In recording standby mode, the keyboard will automatically select the empty track next to the occupied track. For example, if "Melody 1" is occupied, "Melody 2" will be selected as the record track. When all 6 tracks have been recorded and a specific track needs to be revised, press the button of that track and start recording. The original data will be replaced.





## **Song Recording**

## Stop Recording

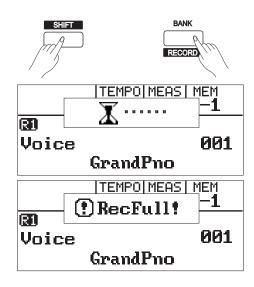
- 1. When recording is in process, holding down [SHIFT] button then press the [RECORD] button to stop recording.
- 2. When recording is in process, if the memory is full, the recording will stop and save automatically, the LCD displays "RecFull".
- 3. If you are recording a style, the recording will stop automatically when the ending of the rhythm finishes.

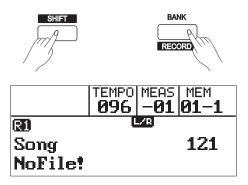
## **Playback Recording**

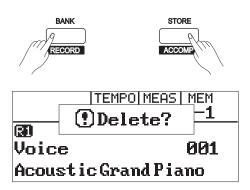
- When recording is in process, holding down [STORE] button then
  press the [RECORD] button, it will stop recording and enter the
  song mode, and the current recorded song will play automatically in
  circle.
- 2. Press the [SONG] button to enter the song mode and it will play all songs circularly. Use the data dial, [+/YES] or [-/NO] button to select a song, there are 130 songs in all, including 10 user songs (121-130). If there is no data in the selected user song, it will display "Nofile" and stop playing. Alternatively, when the playback stops, you can select a user song and then press [PLAY/STOP] button to play the song in a loop.

## **Delete User Song**

- 1. Pressing and holding [RECORD] and [STORE] button together and turn power on simultaneously, all user songs will be erased.
- 2. In the recording standby mode, holding down [SHIFT] button then press the [RECORD] button for two second, the LCD will display "Delete?". And holding down [SHIFT] button then press the [Accomp] (or [Melody1] to[Melody 5]) button to select the track you want to delete. The track selected will light up. If all tracks light up, it will delete the user song after confirmation.
- Press [+/YES] to confirm and the recorded data in this track will be erased. Press [-/NO] to quit this step, and go back to recording standby mode.







## Song

The piano has 130 songs in all, including 10 user songs.

## Listening to the songs

- 1. Press the [SONG] button to enter the song mode and it will play all songs circularly.
- 2. Use the data dial, [+/YES] or [-/NO] button to select a song.
- 3. Once you start playing a song by pressing [START/STOP] button, it will play current song repeatedly.
- When playback stops, press [STYLE] or [VOICE] button to exit song mode.

## **Song Control**

1. Introductory beat

Before song starts playing, it has the introductory beat, the measure starts from negative value. It begins to play song when the measure goes to 1.

2. REW, FF and PAUSE

When the song is playing:

Press the [FF] button to fast forward the song.

Press the [REW] button to rewind the song (base on the measure).

Press the [PAUSE] button to pause the playing song.

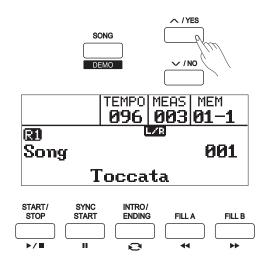
3. Song Repeat

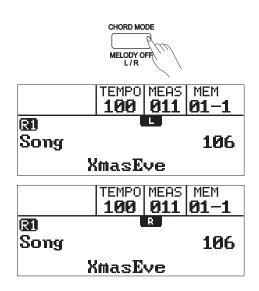
During song playback, press [REPEAT A/B] button to set the beginning for a loop section of the current song, then press it again to set the loop end. During loop playback, press [REPEAT A/B] button to quit the loop and go back to song playback.

Practice the song

In song mode, press [MELODY OFF L/R] button to turn on/off the left or right hand part, so as to practise each part separately. A lit "L" on LCD indicates only the left hand melody will play and the right hand part will be muted, so you can practise the right hand melody.

In the same way, a lit "R" on LCD means you can practise the left hand part along with the right hand melody.





## **Restore Factory Setting**

Pressing and holding [+/YES] and [-/NO] button together and then turn the power on, the piano would be restored to factory setting. It will delete all the user data: user styles, user songs, registered memory. The process will last about 8 seconds, after which the piano will start up normally.



# **Connecting USB Flash Drive**

The piano recognizes USB flash drives, sizing from 16M to 32G in the format of FAT16 or FAT32.

We recommend to format the USB flash drive on the piano before using. Do not edit the backup files saved in the USB flash drive.

## **USB Flash Drive Operation**

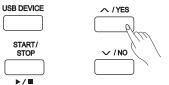
- The function buttons related to USB Flash Drive are: [USB DEVICE], [+/YES], [-/NO], [START/STOP] and the data dial.
- Press [USB DEVICE] button to enter USB mode, and press it again can quit that mode.
- 3. If the USB Flash Drive has been inserted before pressing [USB DEVICE] button, the LCD displays a waiting notice, the upper right corner of LCD displays icon []. If initialization succeeds, LCD displays "Play", the icon becomes []. If initialization failed, the LCD displays "DiskErr", and the icon remains []. If USB Flash Drive is not inserted, the LCD displays "NoDisk", the upper right corner of LCD does not display USB Flash Drive icon.
- 4. In USB mode, use data dial to select menu, press [+/YES] button to proceed, press [-/NO] to go back.
- 5. In USB mode, it can read a maximum of 512 files in one folder. Icon represents folder, icon represents file.
- 6. In USB mode, press [USB DEVICE], voice direct button, style direct button can exit USB device mode.
- Press [MIXER] button can change the volume when playing MIDI file.
- 8. Loading, Save and Delete operating are intended for the file in "MMKD" folder.

#### Note

The "MMKD" folder will be generated automatically when user data is saved to the USB flash drive.

## **Play**

- 1. Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Play" menu.
- 2. Press [+/YES] button, LCD will display the name of MIDI files and sub directories in the root of the USB Flash Drive.
- 3. If you choose a sub-directory, press [+/YES] button to open the folder, press [-/NO] to return to the root directory. If LCD displays "...", pressing [+/YES] button will return to the previous directory.
- Use data dial to select a midi MIDI file, press [START/STOP] button to play it repeatedly. Press [+/YES] button to play all files in the current directory circularly. Press [START/STOP]button again to stop playing,

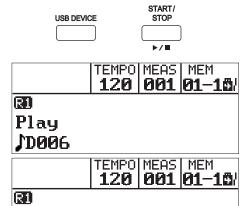




TEMPO MEAS MEM

<u> 120 | 001 | 01-1</u>

001



(!)NoDisk!

Acoustic Grand Piano

R1

Voice

Play

**a**...

## **Connecting USB Flash Drive**

### Save

- Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Save".
- Press [+/YES] to enter "Save" sub menu. It includes "SaveSong", "SaveSty", "SaveMem". Use [+/YES], [-/NO]button or data dial to select one.

#### Save user song:

- Select the menu "SaveSong" sub menu and press [+/YES] button, LCD displays the user song name and number. Use the data dial to select the file to save.
- After selected the user song, press [+/YES]. The LCD prompts to enter file name "SNG\_". Now use keyboard to enter 8 character file name.
- 3. After entering the file name, press [+/YES]. The LCD prompts to confirm the operation: "Sure?". Press [+/YES] again to save the file. Press [-/NO] to cancel the operation.
- 4. If the name you enter is the same with the song name in USB Flash Drive, the LCD prompts "SameName!". You need to enter a different name to save file.
  - Follow the steps above to save a user style or a user memory.

## Load

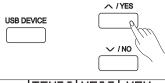
- Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Load" menu.
- Press [+/YES] to enter "load" submenu. Load submenu are displayed on LCD, it includes "LoadSong", "LoadSty", "LoadMem". Use [+/YES], [-/NO]button or data dial to select one.

#### Load Song:

- Select the menu "LoadSong" and press [+/YES] button, LCD displays the MIDI files(\*.midi) in the MMKD\SONG directory of USB Flash Drive. Use the data dial to select the file to load.
- 2. After selected the midi file, press [+/YES]button, and then use the data dial to select user song number.
- 3. After selected the song number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.

#### **Load Style**

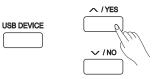
- Select the menu "LoadSty" and press [+/YES] button, LCD displays the style files(\*.sty) in the MMKD\STYLE directory of USB Flash Drive. Use the data dial to select the file to load.
- 2. After selected the style file, press [+/YES] button, and then use the data dial to select user style number.
- After selected the user style number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.



	TEMPO	MEAS	MEM
	<b>120</b>	<b>001</b>	<b>01-15</b> /
<b>30</b> DiskMen Save	u		

	TEMPO <b>120</b>	MEAS <b>001</b>	MEM <b>01</b> -:	
<b>R1</b>				
Save				
SaveSor	ng			

	TEMPO <b>120</b>	MEAS <b>001</b>	MEM <b>01-10</b> /
<b>R1</b>			
SaveSor FSNG_	ng		



	TEMPO	MEAS	MEM
	120	001	01-15/
R10			
DiskMen	u		
Load			

	TEMPO <b>120</b>	MEAS <b>001</b>	MEM <b>01</b> -:	18
R1				
Load				
LoadSon	g			

	TEMPO <b>120</b>	MEAS <b>001</b>	MEM <b>01–1</b> 6/
RI			
LoadSon	g		
JSNG001	_		001

	TEMPO <b>120</b>	MEAS <b>001</b>	MEM <b>01-1</b> 8	3/
② Load LoadSty				_

## **Connecting USB Flash Drive**

#### **Load Memory**

- Select the menu "LoadMem" and press [+/YES] button, LCD displays the memory files(\*.mem) in the MMKD\MEMORY directory of USB Flash Drive. Use the data dial to select the file to load.
- 2. After selected the memory file, press [+/YES] button, and then use the data dial to select user memory number.
- 3. After selected the user memory number, press [+/YES] button, and the LCD displays "Sure?". Press [+/YES] again to confirm the loading operation. Press [-/NO] to cancel the that operation.

### **Delete**

- Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Delete".
- Press [+/YES] to enter "Delete" sub menu. It includes "UserSong", "UserSty", "UserMem". Use [+/YES], [-/NO] button or data dial to select one.
- 3. After selected file type to delete, press [+/YES] to enter the corresponding menu.
- 4. After selected the file to delete, press [+/YES], and the LCD displays "Sure?". Press [+/YES] to confirm, and press [-/NO] to cancel the operation.

### **Format**

- Press [USB DEVICE] button to enter USB mode. Then use data dial to select "Format".
- 2. Press [+/YES] to confirm. LCD displays "Sure?", then press [+/YES] to format, press [-/NO] to cancel operation.

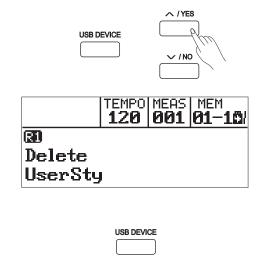
#### Note:

Formation will delete all data in USB Flash Drive!

#### **Keyboard and ASCII Character Relative Table**

,											
NOTE	C#2	D2	Eb2	E2	F2	F#2	G2	Ab2	A2	Bb2	B2
LETTER	DEL	BACK	NEXT	Α	В	С	D	E	F	G	Н
NOTE	C3	C#3	D3	Eb3	E3	F3	F#3	G3	Ab3	A3	Bb3
LETTER	1	J	K	L	М	N	0	Р	Q	R	S
				•		•			•		
NOTE	В3	C4	C#4	D4	Eb4	E4	F4	F#4	G4	Ab4	A4
LETTER	Т	U	V	W	Х	Υ	Z	0	1	2	3
NOTE	Bb4	B4	C5	C#5	D5	Eb5					
LETTER	4	5	6	7	8	9					





R1

DiskMenu

Format

TEMPO MEAS MEM 120 001 01-15/

## **MIDI**

By using the MIDI functions you can expand your musical possibilities. This section explains what MIDI is, and what it can do, as well as how you can use MIDI on your instrument.

### What's MIDI?

MIDI (short for Musical Instrument Digital Interface) allows a wide variety of electronic musical instruments, computers and other related devices to connect and communicate with one another. MIDI carries event messages that specify notation, pitch and velocity, control signals for parameters such as volume, vibrato, audio panning, and program change information to change the voice selections.

The instrument can output the real-time playback information via MIDI messages and control external MIDI devices. The instrument can also accept incoming MIDI messages and generate sound accordingly.

### **MIDI Terminals**

Connect the piano with external MIDI devices with a standard MIDI cable for the exchange of MIDI data.

MIDI IN: Receives MIDI data from a computer.

**MIDI OUT:** Transmits MIDI data from the piano to an external MIDI device.

**MIDI THRU PORT:** You can use MIDI cable to link the MIDI THRU port to other MIDI instrument MIDI IN port. The message that the MIDI IN port receives will be auto sent to the MIDI THRU port, so that one MIDI instrument can control many MIDI instrument at the same time.

Connect the MIDI OUT of other Device to the MIDI IN jack on the rear panel, this instrument will work as a sound module.

Connect the MIDI IN of other Device to the MIDI OUT jack on the rear panel. this instrument will work as a MIDI controller.

## **Downloading Data from the Computer**

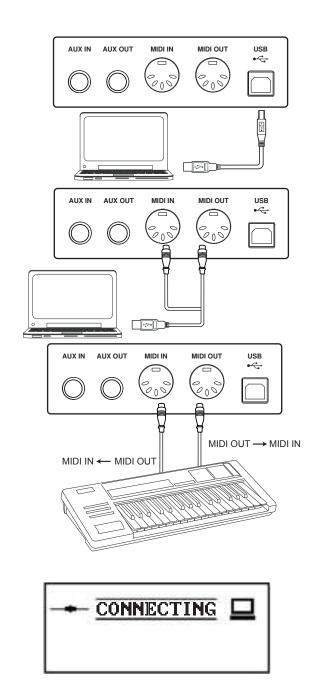
Connect a standard USB cable between the rear-panel of the USB jack of the instrument and the USB jack on your computer. Power on the instrument first, and then open the PCSUITE software in your computer, the "CONNECTING" will be displayed on LCD. The PCSUITE will connect successfully with the instrument.

You can download 10 SMF MIDI files to the keyboard as user songs or upload the user songs.

You can upload user styles to the computer as a backup or download them to the keyboard.

You can upload memory files to the computer as a backup or download them to the keyboard.

Please refer to software operation instructions for detail operating methods.



## **Troubleshooting**

Problem	Possible Cause and Solution
The speakers produce a pop sound whenever the power is turned ON or OFF.	This is normal and is no cause for alarm.
No sound when the keyboard is played.	Make sure the master volume is set to an appropriate level. Check if headphones are plugged into Jack 2. The R1/R2/L voice volume (Mixer) settings could be set too low. Make sure the voice volumes are set at appropriate levels.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
The auto accompaniment does not play back even Sync is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Sync Start, make sure to play a key in the left-hand range of the keyboard.
Certain notes sound at wrong pitch.	Make sure that the tuning value is set to 0. Press and hold the [+/YES] and [-/NO] buttons at the same time, then turning the power on will set INSTRUMENT to default.
The Harmony function does not operate.	Please make sure the Harmony function is on. And Harmony cannot be turned on when a drum kit is selected for the voice R1.
After connecting with the computer, the piano is not recognized.	Please check if the USB cable is being connected firmly, or try connecting another USB port of the computer, without the need to install another driver on the PC.

## **Specifications**

**LCD Display** 

Multi-functional LCD

Keyboard

88 Hammer-Action Keys

**Polyphony** 

128

Voice 600

Cono

120 preset songs, 10 user songs

Style

230 preset styles, 10 user styles

Demo

5

**Control button** 

Power Switch, Volume knob, Brilliance knob, Styles, Tempo+/-, Acc Vol, Mixer, Function+/-, Start/Stop, Sync Start, Intro/ Ending, Fill A, Fill B, Fill C Fill D, Chord Mode, Voices, Dual, Lower, USB Device, Metro, Twinova, Octave, Song, Bank, Store, M1-M4, O.T.S., Shift, Demo, +/Yes, -/No, Data dial, Melody off L/R

**Record Function** 

Record, Accomp, Melody 1-5

Memory

96

Connectors

PHONES (2 standard. ¼" phone),AUX IN, AUX OUT USB-MIDI, MIDI IN/OUT, USB Device Jack Pedals (Sustain, Soft, Sostenuto)

**Power Supply** 

AC 220~240V, 50Hz

Speaker

HIGH 8Ω 10W X2 LOW 6Ω 40W X2

**Dimensions** 

1368(L)x525(W)x890(H)mm

Weight

56KG

\* All specifications and appearances are subject to change without notice.

# **Voice List**

Piano  1 Acoustic Grand Piano 2  3 Acoustic Grand Piano 2  3 Acoustic Grand Piano (wide)  5 Acoustic Grand Piano (wide)  5 Acoustic Grand Piano (wide)  6 Bright Acoustic Piano  7 Bright Acoustic Piano 2  8 Bright Acoustic Piano (wide)  10 Electric Grand Piano (wide)  11 Electric Grand Piano (wide)  12 Electric Grand Piano (wide)  13 Electric Grand Piano (dark)  14 Honky Tonk Piano (dark)  15 Honky Tonk Piano (wide)  16 Honky Tonk Piano (wide)  17 Honky Tonk Piano (dark)  18 Harpsichord  19 Harpsichord 2  20 Harpsichord (octave mix)  21 Harpsichord (wide)  22 Harpsichord (wide)  23 Octave Grand Piano 2  24 Octave Grand Piano 2  25 Piano & Strings  26 Piano & Pad  27 Piano & Choir  28 Piano & Choir  29 Piano & Lectric Piano 2  30 Detuned Electric Piano 2  31 Electric Piano 2  32 Electric Piano 2  33 Electric Piano 2  34 Electric Piano 3  35 Electric Piano 1 (velocity mix)  36 O's Electric Piano 1  40 Phase EP  41 Clavi  42 Clavi 2  43 Phase Clavi  44 Wah Clavi  45 Pulse Clavi  46 Dream EP  50 Choir EP  51 Wah EP  52 Modern EP  53 Korvation  50 Acoustic Grand Piano (wide)  50 Choir EP  51 Wah EP  52 Modern EP  53 EP Pad  54 Chromatic Percussion	No.	Full Name
1 Acoustic Grand Piano 2 2 Acoustic Grand Piano 3 4 Acoustic Grand Piano 3 4 Acoustic Grand Piano (wide) 5 Acoustic Grand Piano (wide) 6 Bright Acoustic Piano 2 8 Bright Acoustic Piano 3 9 Bright Acoustic Piano 2 8 Bright Acoustic Piano (wide) 10 Electric Grand Piano (wide) 11 Electric Grand Piano (wide) 12 Electric Grand Piano (wide) 13 Electric Grand Piano (wide) 14 Honky Tonk Piano (dark) 15 Honky Tonk Piano (dark) 16 Harpsichord 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 19 Harpsichord 2 20 Harpsichord (wide) 21 Harpsichord (wide) 22 Harpsichord (wide) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & Choir 28 Piano & Choir 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 2 33 Electric Piano 2 34 Electric Piano 2 35 Electric Piano 2 36 Electric Piano 2 37 Electric Piano 2 38 Electric Piano 2 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		· un runio
Acoustic Grand Piano 2 Acoustic Grand Piano (wide) Acoustic Grand Piano (wide) Bright Acoustic Piano 2 Bright Acoustic Piano 2 Bright Acoustic Piano 3 Bright Acoustic Piano 3 Bright Acoustic Piano (wide) Electric Grand Piano (wide) Belectric Grand Piano (wide) Honky Tonk Piano Honky Tonk Piano (dark) Honky Tonk Piano (wide) Harpsichord Piano (wide) Harpsichord 2 Harpsichord (wide) Harpsichord (wide) Larpsichord (wide) Cave Grand Piano 2 Fiano & Strings Piano & Strings Fiano & Piano & Choir Piano & Electric Pi		Acoustic Grand Piano
4 Acoustic Grand Piano (wide) 5 Acoustic Grand Piano (dark) 6 Bright Acoustic Piano 7 Bright Acoustic Piano 2 8 Bright Acoustic Piano (wide) 10 Electric Grand Piano (wide) 11 Electric Grand Piano 2 12 Electric Grand Piano (wide) 13 Electric Grand Piano (wide) 14 Honky Tonk Piano (dark) 15 Honky Tonk Piano (dark) 16 Harpsichord 17 Honky Tonk Piano (wide) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (wide) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & EP 29 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 3 33 Electric Piano 1 (velocity mix) 33 Electric Piano 2 44 Clavi 2 45 Plase EP 41 Clavi 45 Puse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 52 EP Ad	2	
5 Acoustic Grand Piano (dark) 6 Bright Acoustic Piano 2 8 Bright Acoustic Piano 3 9 Bright Acoustic Piano (wide) 10 Electric Grand Piano (wide) 11 Electric Grand Piano (wide) 12 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano (dark) 15 Honky Tonk Piano (dark) 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (wide) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 2 33 Electric Piano 2 34 Electric Piano 2 35 Electric Piano 2 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP	3	Acoustic Grand Piano 3
6 Bright Acoustic Piano 2 8 Bright Acoustic Piano 3 9 Bright Acoustic Piano 3 9 Bright Acoustic Piano (wide) 10 Electric Grand Piano 2 11 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano 15 Honky Tonk Piano (dark) 16 Honky Tonk Piano (dark) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (with key off) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 1 (velocity mix) 36 Electric Piano 2 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP	4	Acoustic Grand Piano (wide)
7 Bright Acoustic Piano 2 8 Bright Acoustic Piano (wide) 10 Electric Grand Piano (wide) 11 Electric Grand Piano 2 12 Electric Grand Piano (wide) 13 Electric Grand Piano (wide) 14 Honky Tonk Piano 15 Honky Tonk Piano 2 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (wide) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Wibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 3 33 Electric Piano 4 36 Electric Piano 2 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60°s Electric Piano 3 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Punk EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	5	Acoustic Grand Piano (dark)
8 Bright Acoustic Piano 3 9 Bright Acoustic Piano (wide) 10 Electric Grand Piano 11 Electric Grand Piano 2 12 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano 2 16 Honky Tonk Piano 2 16 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord (ottave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Strings 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 3 32 Electric Piano 3 33 Electric Piano 1 (velocity mix) 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 43 Phase EP 41 Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	6	Bright Acoustic Piano
9 Bright Acoustic Piano (wide) 10 Electric Grand Piano 11 Electric Grand Piano 2 12 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano 15 Honky Tonk Piano 2 16 Honky Tonk Piano (dark) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (wide) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 2 34 Electric Piano 2 35 Electric Piano 1 (velocity mix) 36 Electric Piano 2 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	7	Bright Acoustic Piano 2
10 Electric Grand Piano 2 11 Electric Grand Piano (wide) 13 Electric Grand Piano (wide) 14 Honky Tonk Piano 15 Honky Tonk Piano (wide) 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 3 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	8	Bright Acoustic Piano 3
11 Electric Grand Piano 2 12 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano 15 Honky Tonk Piano 2 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (with key off) 23 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Strings 27 Piano & Choir 28 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Electric Piano 2 32 Electric Piano 3 33 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	9	Bright Acoustic Piano (wide)
12 Electric Grand Piano (wide) 13 Electric Grand Piano (dark) 14 Honky Tonk Piano 15 Honky Tonk Piano 2 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 1 36 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	10	
13 Electric Grand Piano (dark) 14 Honky Tonk Piano 15 Honky Tonk Piano 2 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & Choir 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 1 (velocity mix) 37 Electric Piano 1 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
14 Honky Tonk Piano 15 Honky Tonk Piano (wide) 17 Honky Tonk Piano (wide) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (wide) 21 Harpsichord (wide) 22 Harpsichord (wide) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		,
15 Honky Tonk Piano 2 16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (wide) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 2 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 3 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 3 35 Electric Piano 1 (velocity mix) 36 Electric Piano 2 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Trenolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	_	, ,
16 Honky Tonk Piano (wide) 17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & Choir 28 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 1 (velocity mix) 36 Electric Piano 2 (velocity mix) 37 Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		,
17 Honky Tonk Piano (dark) 18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & Choir 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
18 Harpsichord 19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
19 Harpsichord 2 20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
20 Harpsichord (octave mix) 21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 3 35 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	_	•
21 Harpsichord (wide) 22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 2 34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		•
22 Harpsichord (with key off) 23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 2 34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
23 Octave Grand Piano 24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
24 Octave Grand Piano 2 25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 2 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 52 Modern EP 53 EP Pad		, , ,
25 Piano & Strings 26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 2 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	_	
26 Piano & Pad 27 Piano & Choir 28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
28 Piano & EP 29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	26	
29 Piano & Vibraphone 30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	27	Piano & Choir
30 Detuned Electric Piano 31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	28	Piano & EP
31 Detuned Electric Piano 2 32 Electric Piano 3 33 Electric Piano 3 34 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	29	Piano & Vibraphone
32 Electric Piano 33 Electric Piano 2 34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	30	Detuned Electric Piano
33 Electric Piano 2 34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	31	Detuned Electric Piano 2
34 Electric Piano 3 35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
35 Electric Piano 4 36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
36 Electric Piano 1 (velocity mix) 37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
37 Electric Piano 2 (velocity mix) 38 60's Electric Piano 39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
38       60's Electric Piano         39       EP Legend         40       Phase EP         41       Clavi         42       Clavi 2         43       Phase Clavi         44       Wah Clavi         45       Pulse Clavi         46       Dream EP         47       Tremolo EP         48       Funk EP         49       Warm EP         50       Choir EP         51       Wah EP         52       Modern EP         53       EP Pad		
39 EP Legend 40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
40 Phase EP 41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
41 Clavi 42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
42 Clavi 2 43 Phase Clavi 44 Wah Clavi 45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
43       Phase Clavi         44       Wah Clavi         45       Pulse Clavi         46       Dream EP         47       Tremolo EP         48       Funk EP         49       Warm EP         50       Choir EP         51       Wah EP         52       Modern EP         53       EP Pad		
44       Wah Clavi         45       Pulse Clavi         46       Dream EP         47       Tremolo EP         48       Funk EP         49       Warm EP         50       Choir EP         51       Wah EP         52       Modern EP         53       EP Pad		
45 Pulse Clavi 46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	_	
46 Dream EP 47 Tremolo EP 48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad	-	
48 Funk EP 49 Warm EP 50 Choir EP 51 Wah EP 52 Modern EP 53 EP Pad		
<ul> <li>49 Warm EP</li> <li>50 Choir EP</li> <li>51 Wah EP</li> <li>52 Modern EP</li> <li>53 EP Pad</li> </ul>		
<ul> <li>50 Choir EP</li> <li>51 Wah EP</li> <li>52 Modern EP</li> <li>53 EP Pad</li> </ul>		
<ul> <li>51 Wah EP</li> <li>52 Modern EP</li> <li>53 EP Pad</li> </ul>	49	Warm EP
52 Modern EP 53 EP Pad	50	Choir EP
53 EP Pad	51	Wah EP
	52	
Chromatic Percussion		
On onital Croaddin	Chrom	atic Percussion
54 Celesta	54	Celesta
55 Celesta 2	55	Celesta 2

56	Celesta 3
57	Glockenspie
58	Glockenspiel 2
59	Music Box
60	Music Box 2
61	Music Box 3
62	Vibraphone
63	Vibraphone 2
64	Vibraphone (wide)
65	Marimba
66	Marimba 2
67	Marimba (wide)
68	Xylophone
69	Xylophone 2
70	
71	Xylophone 3 Tubular Bells
72	Tubular Bells 2
73	Church Bell
74	Carillon
75	Dulcimer
76	Dulcimer 2
77	Santur
Organ	W. W
78	Italian 60's Organ
79	Drawbar Organ
80	Drawbar Organ 2
81	Detuned Drawbar Organ
82	Drawbar Organ 3
83	Detuned Percussive Organ
84	Percussive Organ
85	Percussive Organ 2
86	70's Percussive Organ
87	Percussive Organ 3
88	Rock Organ
89	Rock Organ 2
90	Rock Organ 3
91	Church Organ
92	Church Organ 2
93	Church Organ 3
94	Church Organ (octave mix)
95	Detuned Church Organ
96	Reed Organ
97	Reed Organ 2
98	Rotary Organ
99	Puff Organ
100	Accordion
101	Accordion 2
102	Accordion 3
103	Harmonica
104	Harmonica 2
105	Harmonica 3
106	Tango Accordion
107	Tango Accordion 2
Guitar	
108	Acoustic Guitar (nylon)
109	Acoustic Guitar (nylon) 2
110	Acoustic Guitar (nylon) 3
111	Acoustic Guitar (nylon + key off)

1112   Ukulele     113   Acoustic Guitar (steel) 2   114   Acoustic Guitar (steel) 2   115   12-Strings Guitar   116   Mandolin   117   Mandolin   2   118   Steel Guitar with Body Sound   119   Electric Guitar (jazz)   120   Electric Guitar (jazz)   121   Electric Guitar (jazz)   121   Electric Guitar (clean)   122   Electric Guitar (clean)   123   Electric Guitar (clean)   124   Electric Guitar (detan)   125   Mid Tone Guitar   126   Electric Guitar (muted)   127   Electric Guitar (muted)   128   Electric Guitar (muted)   129   Electric Guitar (muted)   129   Electric Guitar (muted velo-sw)   130   Jazz Man   131   Overdriven Guitar   132   Overdriven Guitar   133   Guitar Pinch   134   Distortion Guitar   135   Distortion Guitar   136   Distortion Guitar   137   Guitar Feedback   138   Distorted Rhythm Guitar   139   Guitar Harmonics   140   Guitar Harmonics   141   Velocity Nylon Guitar   142   Acoustic Bass   143   Acoustic Bass   144   Wah Bass   145   Electric Bass (finger)   148   Electric Bass (finger)   149   Fretless Bass   150   Fretless Bass   151   Slap Bass   152   Slap Bass   153   Slap Bass   154   Slap Bass   155   Synth Bass   156   Synth Bass   157   Synth Bass   158   Synth Bass   159   Warm Synth Bass   150   Rounce SynBass   151   Glav Bass   152   Synth Bass   153   Slap Bass   154   Slap Bass   155   Synth Bass   156   Synth Bass   157   Synth Bass   158   Synth Bass   159   Warm Synth Bass   150   Harmonics   150   Harm		
114         Acoustic Guitar (steel) 2           115         12-Strings Guitar           116         Mandolin           117         Mandolin 2           118         Steel Guitar with Body Sound           119         Electric Guitar (jazz)           120         Electric Guitar (jazz) 2           121         Electric Guitar (pedal steel)           122         Electric Guitar (pedal steel)           123         Electric Guitar (detan) 2           124         Electric Guitar (detan)           125         Mid Tone Guitar           126         Electric Guitar (muted)           127         Electric Guitar (muted)           128         Electric Guitar (muted velo-sw)           130         Jazz Man           131         Overdriven Guitar           132         Overdriven Guitar           133         Guitar Pinch           134         Distortion Guitar           135         Distortion Guitar           136         Distortion Guitar (with feedback)           137         Guitar Harmonics           138         Distorted Rhythm Guitar           139         Guitar Harmonics           140         Guitar Harmonics	112	
115         12-Strings Guitar           116         Mandolin           117         Mandolin           118         Steel Guitar with Body Sound           119         Electric Guitar (jazz)           120         Electric Guitar (jazz) 2           121         Electric Guitar (clean)           122         Electric Guitar (clean) 2           123         Electric Guitar (detuned clean)           125         Mid Tone Guitar           126         Electric Guitar (muted)           127         Electric Guitar (muted) 2           128         Electric Guitar (muted velo-sw)           130         Jazz Man           131         Overdriven Guitar           132         Overdriven Guitar           133         Overdriven Guitar           134         Distortion Guitar           135         Distortion Guitar           136         Distortion Guitar (with feedback)           137         Guitar Feedback           138         Distorted Rhythm Guitar           139         Guitar Harmonics           140         Guitar Harmonics           141         Velocity Nylon Guitar           142         Acoustic Bass           143 </td <td>113</td> <td>Acoustic Guitar (steel)</td>	113	Acoustic Guitar (steel)
116         Mandolin           117         Mandolin 2           118         Steel Guitar with Body Sound           119         Electric Guitar (jazz)           120         Electric Guitar (jazz) 2           121         Electric Guitar (pedal steel)           122         Electric Guitar (pedal steel)           123         Electric Guitar (detuned clean)           125         Mid Tone Guitar           126         Electric Guitar (muted)           127         Electric Guitar (muted)           128         Electric Guitar (muted velo-sw)           130         Jazz Man           131         Overdriven Guitar           132         Overdriven Guitar           133         Overdriven Guitar           134         Distortion Guitar           135         Distortion Guitar (with feedback)           136         Distortion Guitar (with feedback)           137         Guitar Feedback           138         Distorted Rhythm Guitar           139         Guitar Harmonics           140         Guitar Harmonics 2           141         Velocity Nylon Guitar           142         Acoustic Bass           143         Acoustic Bass (finger)	114	Acoustic Guitar (steel) 2
117         Mandolin 2           118         Steel Guitar with Body Sound           119         Electric Guitar (jazz) 2           120         Electric Guitar (pedal steel)           121         Electric Guitar (pedal steel)           122         Electric Guitar (clean) 2           123         Electric Guitar (dutend clean)           125         Mid Tone Guitar           126         Electric Guitar (muted) 2           127         Electric Guitar (muted) 2           128         Electric Guitar (muted velo-sw)           130         Jazz Man           131         Overdriven Guitar           132         Overdriven Guitar           133         Guitar Pinch           134         Distortion Guitar           135         Distortion Guitar (with feedback)           137         Guitar Feedback           138         Distortion Guitar (with feedback)           137         Guitar Harmonics 2           140         Velocity Nylon Guitar           138         Distortion Guitar Quitar           140         Guitar Harmonics 2           141         Velocity Nylon Guitar           142         Acoustic Bass 2           143         Acoustic Bas	115	12-Strings Guitar
118	116	Mandolin
119	117	Mandolin 2
Electric Guitar (jazz) 2	118	Steel Guitar with Body Sound
Electric Guitar (pedal steel)	119	Electric Guitar (jazz)
122   Electric Guitar (clean)     123   Electric Guitar (clean) 2     124   Electric Guitar (detuned clean)     125   Mid Tone Guitar     126   Electric Guitar (muted)     127   Electric Guitar (muted) 2     128   Electric Guitar (muted) 2     129   Electric Guitar (muted velo-sw)     130   Jazz Man     131   Overdriven Guitar     132   Overdriven Guitar     133   Guitar Pinch     134   Distortion Guitar     135   Distortion Guitar     136   Distortion Guitar     137   Guitar Feedback     138   Distorted Rhythm Guitar     139   Guitar Harmonics     140   Guitar Harmonics     141   Velocity Nylon Guitar     142   Acoustic Bass     143   Acoustic Bass     144   Wah Bass     145   Electric Bass (finger)     146   Finger Slap Bass     147   Electric Bass (pick)     148   Electric Bass (pick)     149   Fretless Bass     150   Fretless Bass     151   Slap Bass     152   Slap Bass     153   Slap Bass     154   Slap Bass     155   Synth Bass     156   Synth Bass     157   Synth Bass     158   Synth Bass     159   Warm Synth Bass     160   Rsonance SynBass (rubber)     165   Synth Bass (rubber)     166   Attack Pulse     Strings & Orchestral     167   Violin	120	Electric Guitar (jazz) 2
123	121	Electric Guitar (pedal steel)
124	122	Electric Guitar (clean)
125         Mid Tone Guitar           126         Electric Guitar (muted)           127         Electric Guitar (muted) 2           128         Electric Guitar (muted velo-sw)           130         Jazz Man           131         Overdriven Guitar           132         Overdriven Guitar 2           133         Guitar Pinch           134         Distortion Guitar           135         Distortion Guitar (with feedback)           137         Guitar Feedback           138         Distorted Rhythm Guitar           139         Guitar Harmonics           140         Guitar Harmonics 2           141         Velocity Nylon Guitar           8ass         142           142         Acoustic Bass           143         Acoustic Bass 2           144         Wah Bass           145         Electric Bass (finger)           146         Finger Slap Bass           147         Electric Bass (pick) 2           148         Electric Bass (pick) 2           149         Fretless Bass 2           151         Slap Bass 3           152         Slap Bass 4           153         Slap Bass 3	123	Electric Guitar (clean) 2
126 Electric Guitar (muted) 127 Electric Guitar (muted) 2 128 Electric Guitar (funky cutting) 129 Electric Guitar (muted velo-sw) 130 Jazz Man 131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 135 Distortion Guitar 2 136 Distortion Guitar 2 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar 142 Acoustic Bass 142 Acoustic Bass 143 Acoustic Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 3 154 Slap Bass 3 155 Synth Bass 3 156 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	124	Electric Guitar (detuned clean)
127 Electric Guitar (muted) 2 128 Electric Guitar (funky cutting) 129 Electric Guitar (funky cutting) 130 Jazz Man 131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 135 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar 143 Acoustic Bass 142 Acoustic Bass 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 150 Fretless Bass 151 Slap Bass 152 Slap Bass 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 3 157 Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	125	Mid Tone Guitar
128 Electric Guitar (funky cutting) 129 Electric Guitar (muted velo-sw) 130 Jazz Man 131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 2 135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar 142 Acoustic Bass 142 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 2 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 3 154 Slap Bass 3 155 Synth Bass 1 156 Synth Bass 1 157 Synth Bass 1 158 Synth Bass 1 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	126	Electric Guitar (muted)
129 Electric Guitar (muted velo-sw) 130 Jazz Man 131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar 142 Acoustic Bass 142 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 157 Synth Bass 158 Synth Bass 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	127	Electric Guitar (muted) 2
130 Jazz Man 131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 2 135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 142 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 3 154 Slap Bass 3 155 Synth Bass 3 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse	128	Electric Guitar (funky cutting)
131 Overdriven Guitar 132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 135 Distortion Guitar 2 136 Distortion Guitar 2 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 3 154 Slap Bass 4 155 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	129	Electric Guitar (muted velo-sw)
132 Overdriven Guitar 2 133 Guitar Pinch 134 Distortion Guitar 135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	130	Jazz Man
133 Guitar Pinch 134 Distortion Guitar 135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	131	Overdriven Guitar
134 Distortion Guitar 135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 2 151 Slap Bass 3 152 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 2 157 Synth Bass 1 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	132	Overdriven Guitar 2
135 Distortion Guitar 2 136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 3 152 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 2 157 Synth Bass 2 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	133	Guitar Pinch
136 Distortion Guitar (with feedback) 137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	134	Distortion Guitar
137 Guitar Feedback 138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 149 Fretless Bass 150 Fretless Bass 150 Fretless Bass 151 Slap Bass 152 Slap Bass 152 Slap Bass 3 154 Slap Bass 3 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	135	Distortion Guitar 2
138 Distorted Rhythm Guitar 139 Guitar Harmonics 140 Guitar Harmonics 2 141 Velocity Nylon Guitar  Bass 142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	136	Distortion Guitar (with feedback)
139       Guitar Harmonics         140       Guitar Harmonics 2         141       Velocity Nylon Guitar         Bass         142       Acoustic Bass 2         144       Wah Bass         145       Electric Bass (finger)         146       Finger Slap Bass         147       Electric Bass (pick)         148       Electric Bass (pick) 2         149       Fretless Bass         150       Fretless Bass 2         151       Slap Bass 3         152       Slap Bass 2         153       Slap Bass 3         154       Slap Bass 4         155       Synth Bass         156       Synth Bass 3         158       Synth Bass 4         159       Warm Synth Bass         160       Rsonance SynBass         161       Clavi Bass         162       Hammer         163       Attack Bass         164       Synth Bass (rubber)         165       Synth Bass (rubber)         166       Attack Pulse         Strings & Orchestral         167       Violin	137	Guitar Feedback
1410 Guitar Harmonics 2           1411 Velocity Nylon Guitar           Bass           142 Acoustic Bass           143 Acoustic Bass 2           144 Wah Bass           145 Electric Bass (finger)           146 Finger Slap Bass           147 Electric Bass (pick)           148 Electric Bass (pick) 2           149 Fretless Bass           150 Fretless Bass 2           151 Slap Bass           152 Slap Bass 2           153 Slap Bass 3           154 Slap Bass 4           155 Synth Bass           156 Synth Bass 2           157 Synth Bass 3           158 Synth Bass 4           159 Warm Synth Bass           160 Rsonance SynBass           161 Clavi Bass           162 Hammer           163 Attack Bass           164 Synth Bass (rubber)           165 Synth Bass (rubber)           166 Attack Pulse           Strings & Orchestral           167 Violin	138	Distorted Rhythm Guitar
Bass  142 Acoustic Bass 143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	139	Guitar Harmonics
Bass142Acoustic Bass143Acoustic Bass 2144Wah Bass145Electric Bass (finger)146Finger Slap Bass147Electric Bass (pick)148Electric Bass (pick) 2149Fretless Bass150Fretless Bass 2151Slap Bass152Slap Bass 3154Slap Bass 3155Synth Bass156Synth Bass 2157Synth Bass 3158Synth Bass 4159Warm Synth Bass160Rsonance SynBass161Clavi Bass162Hammer163Attack Bass164Synth Bass (rubber)165Synth Bass (rubber) 2166Attack PulseStrings & Orchestral167Violin	140	Guitar Harmonics 2
Bass142Acoustic Bass143Acoustic Bass144Wah Bass145Electric Bass (finger)146Finger Slap Bass147Electric Bass (pick)148Electric Bass (pick)149Fretless Bass150Fretless Bass151Slap Bass152Slap Bass153Slap Bass154Slap Bass155Synth Bass156Synth Bass157Synth Bass158Synth Bass160Rsonance SynBass161Clavi Bass162Hammer163Attack Bass164Synth Bass (rubber)165Synth Bass (rubber)165Synth Bass (rubber)165Synth Bass (rubber)166Attack PulseStrings & Orchestral167Violin	4.4.4	
143 Acoustic Bass 2 144 Wah Bass 145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 2 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 3 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	141	Velocity Nylon Guitar
144 Wah Bass  145 Electric Bass (finger)  146 Finger Slap Bass  147 Electric Bass (pick)  148 Electric Bass (pick) 2  149 Fretless Bass  150 Fretless Bass 2  151 Slap Bass  152 Slap Bass 2  153 Slap Bass 3  154 Slap Bass 3  155 Synth Bass  156 Synth Bass 2  157 Synth Bass 3  158 Synth Bass 4  159 Warm Synth Bass  160 Rsonance SynBass  161 Clavi Bass  162 Hammer  163 Attack Bass  164 Synth Bass (rubber)  165 Synth Bass (rubber) 2  166 Attack Pulse  Strings & Orchestral  167 Violin		Velocity Nylon Guitar
145 Electric Bass (finger) 146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 2 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	Bass	
146 Finger Slap Bass 147 Electric Bass (pick) 148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 166 Attack Pulse  Strings & Orchestral 167 Violin	Bass 142	Acoustic Bass
147 Electric Bass (pick)  148 Electric Bass (pick) 2  149 Fretless Bass  150 Fretless Bass 2  151 Slap Bass  152 Slap Bass 2  153 Slap Bass 3  154 Slap Bass 4  155 Synth Bass  156 Synth Bass 2  157 Synth Bass 3  158 Synth Bass 4  159 Warm Synth Bass  160 Rsonance SynBass  161 Clavi Bass  162 Hammer  163 Attack Bass  164 Synth Bass (rubber)  165 Synth Bass (rubber) 2  166 Attack Pulse  Strings & Orchestral  167 Violin	<b>Bass</b> 142 143	Acoustic Bass Acoustic Bass 2
148 Electric Bass (pick) 2 149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	142 143 144	Acoustic Bass Acoustic Bass 2 Wah Bass
149 Fretless Bass 150 Fretless Bass 2 151 Slap Bass 152 Slap Bass 2 153 Slap Bass 3 154 Slap Bass 4 155 Synth Bass 156 Synth Bass 2 157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	142 143 144 145	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger)
150         Fretless Bass 2           151         Slap Bass           152         Slap Bass 2           153         Slap Bass 3           154         Slap Bass 4           155         Synth Bass           156         Synth Bass 2           157         Synth Bass 3           158         Synth Bass 4           159         Warm Synth Bass           160         Rsonance SynBass           161         Clavi Bass           162         Hammer           163         Attack Bass           164         Synth Bass (rubber)           165         Synth Bass (rubber) 2           166         Attack Pulse           Strings & Orchestral           167         Violin	142 143 144 145 146	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass
151       Slap Bass         152       Slap Bass 2         153       Slap Bass 3         154       Slap Bass 4         155       Synth Bass         156       Synth Bass 2         157       Synth Bass 3         158       Synth Bass 4         159       Warm Synth Bass         160       Rsonance SynBass         161       Clavi Bass         162       Hammer         163       Attack Bass         164       Synth Bass (rubber)         165       Synth Bass (rubber) 2         166       Attack Pulse         Strings & Orchestral         167       Violin	Bass       142       143       144       145       146       147	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick)
152       Slap Bass 2         153       Slap Bass 3         154       Slap Bass 4         155       Synth Bass         156       Synth Bass 2         157       Synth Bass 3         158       Synth Bass 4         159       Warm Synth Bass         160       Rsonance SynBass         161       Clavi Bass         162       Hammer         163       Attack Bass         164       Synth Bass (rubber)         165       Synth Bass (rubber) 2         166       Attack Pulse         Strings & Orchestral         167       Violin	Bass       142       143       144       145       146       147       148	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2
153       Slap Bass 3         154       Slap Bass 4         155       Synth Bass         156       Synth Bass 2         157       Synth Bass 3         158       Synth Bass 4         159       Warm Synth Bass         160       Rsonance SynBass         161       Clavi Bass         162       Hammer         163       Attack Bass         164       Synth Bass (rubber)         165       Synth Bass (rubber) 2         166       Attack Pulse         Strings & Orchestral         167       Violin	Bass       142       143       144       145       146       147       148       149	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass
154       Slap Bass 4         155       Synth Bass         156       Synth Bass 2         157       Synth Bass 3         158       Synth Bass 4         159       Warm Synth Bass         160       Rsonance SynBass         161       Clavi Bass         162       Hammer         163       Attack Bass         164       Synth Bass (rubber)         165       Synth Bass (rubber) 2         166       Attack Pulse         Strings & Orchestral         167       Violin	142 143 144 145 146 147 148 149	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) Fretless Bass Fretless Bass 2
155         Synth Bass           156         Synth Bass 2           157         Synth Bass 3           158         Synth Bass 4           159         Warm Synth Bass           160         Rsonance SynBass           161         Clavi Bass           162         Hammer           163         Attack Bass           164         Synth Bass (rubber)           165         Synth Bass (rubber) 2           166         Attack Pulse           Strings & Orchestral           167         Violin	142 143 144 145 146 147 148 149 150	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass 2 Slap Bass
156         Synth Bass 2           157         Synth Bass 3           158         Synth Bass 4           159         Warm Synth Bass           160         Rsonance SynBass           161         Clavi Bass           162         Hammer           163         Attack Bass           164         Synth Bass (rubber)           165         Synth Bass (rubber) 2           166         Attack Pulse           Strings & Orchestral           167         Violin	142 143 144 145 146 147 148 149 150 151	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass 2 Slap Bass Slap Bass 2
157 Synth Bass 3 158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3
158 Synth Bass 4 159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4
159 Warm Synth Bass 160 Rsonance SynBass 161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass
160 Rsonance SynBass  161 Clavi Bass  162 Hammer  163 Attack Bass  164 Synth Bass (rubber)  165 Synth Bass (rubber) 2  166 Attack Pulse  Strings & Orchestral  167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass 2
161 Clavi Bass 162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 3 Synth Bass 4
162 Hammer 163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass
163 Attack Bass 164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse  Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass
164 Synth Bass (rubber) 165 Synth Bass (rubber) 2 166 Attack Pulse Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass
165 Synth Bass (rubber) 2 166 Attack Pulse Strings & Orchestral 167 Violin	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass
166 Attack Pulse  Strings & Orchestral  167 Violin	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155       156       157       158       159       160       161       162	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Hammer
Strings & Orchestral 167 Violin	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155       156       157       158       159       160       161       162       163	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Hammer Attack Bass
167 Violin	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155       156       157       158       159       160       161       162       163       164       165	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Clavi Bass Synth Bass (rubber)
	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155       156       157       158       159       160       161       162       163       164       165       166	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Clavi Bass Synth Bass (rubber) Synth Bass (rubber) 2 Attack Pulse
168   Violin 2	Bass       142       143       144       145       146       147       148       149       150       151       152       153       154       155       156       157       158       159       160       161       162       163       164       165       166	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Clavi Bass Synth Bass (rubber) Synth Bass (rubber) 2 Attack Pulse
	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 String 167	Acoustic Bass Acoustic Bass 2 Wah Bass Electric Bass (finger) Finger Slap Bass Electric Bass (pick) Electric Bass (pick) 2 Fretless Bass Fretless Bass Fretless Bass 2 Slap Bass 3 Slap Bass 3 Slap Bass 4 Synth Bass Synth Bass 2 Synth Bass 3 Synth Bass 4 Warm Synth Bass Rsonance SynBass Clavi Bass Hammer Attack Bass Synth Bass (rubber) Synth Bass (rubber) Synth Bass (rubber) Attack Pulse S & Orchestral Violin

169	Violin (slow attack)
170	Viola
171	Viola 2
172	Cello
173	Cello 2
174	Contrabass
175	Contrabass 2
176	Tremolo Strings
177	Tremolo Strings 2
178	Tremolo Strings 3
179	Pizzicato Strings
180	Pizzicato Strings 2
181	Orchestral Harp
182	Orchestral Harp 2
183	Yang Chin
184	Timpani
185	Timpani 2
186	String Ensembles
187	String Ensembles 2
188	String Ensembles 3
189	String Ensembles 4
190	Strings & Brass
191	60's Strings
192	Synth Strings
193	Synth Strings 2
194	Synth Strings 3
195	Synth Strings 4
196	Synth Strings 5
197	Choir Aahs
198	Choir Aahs 2
199	Choir Aahs 3
200	Voice Oohs
201	Voice Oohs 2
202	Humming
203	Anlong Voice
204	Synth Voice
205	Synth Voice 2
206	Orchestra Hit
207	Orchestra Hit 2
208	Bass Hit Plus
209	6th Hit
210	Euro Hit
Brass	
211	Trumpet
212	Trumpet 2
213	Dark Trumpet
214	Trombone
215	Trombone 2
216	Trombone 3
217	Bright Trombone
218	Tuba
219	Tuba 2
220	Muted Trumpet
221	Muted Trumpet 2
222	Muted Trumpet 3
223	French Horn
224	French Horn 2
225	French Horn 3

## **Voice List**

226	Brass Section
227	Brass Section 2
228	Brass Section 3
229	Synth Brass
	,
230	Synth Brass 2
	Synth Brass 3
232	Synth Brass 4
233	Synth Brass 5
234	Synth Brass 6
235	Synth Brass 7
236	Synth Brass 8
237	Analog Synth Brass
238	Analog Synth Brass 2
239	Analog Synth Brass 3
240	Jump Brass
241	Jump Brass 2
242	Funny
243	Funny 2
Reed	
244	Soprano Sax
245	Soprano Sax 2
246	Soprano Sax 3
247	Alto Sax
248	Alto Sax 2
249	Alto Sax 3
250	Tenor Sax
251	Tenor Sax 2
252	Tenor Sax 3
253	Baritone Sax
254	Baritone Sax 2
255	Baritone Sax 3
256	Oboe
257	Oboe 2
258	Oboe 3
259	2 Oboes
260	English Horn
261	English Horn 2
262	English Horn 3
263	2 English Horns
264	Bassoon
265	Bassoon 2
266	Bassoon 3
267	2 Bassoons
268	Clarinet
269	Clarinet 2
270	Clarinet 3
271	2 Clarinets
Pipe	
272	Piccolo
273	Piccolo 2
274	Piccolo 3
275	2 Piccolos
276	Sweet Flute
277	Flute
278	Flute 2
279	Flute 3
280	2 Flutes
281	Recorder

282	Recorder 2
283	2 Recorders
284	Pan Flute
285	Pan Flute 2
286	Sweet Pan Flute
287	Blown Bottle
288	Blown Bottle 2
289	Shakuhachi
290	Shakuhachi 2
291	Whistle
292	Whistle 2
293	Ocarina
294	Ocarina 2
Synth	
295	Lead 1 (square)
296	Lead 1a (square) 2
297	Lead 1 (square) 3
298	Lead 1b (sine)
299	Lead 2 (sawtooth)
300	Lead 2a (sawtooth) 2
301	Lead 2 (sawtooth) 3
302	Lead 2b (saw + pulse)
303	Lead 2c (double sawtooth)
304	Lead 2d (sequenced analog)
305	Lead 2d (sequenced analog) 2
306	Wavy Sawtooth
307	Bauble Lead
308	Super Analog
309	Lead 3 (calliope)
310	Lead 3 (calliope) 2
311	Lead 4 (chiff)
312	Lead 4 (chiff) 2
313	Lead 4 (chiff) 3
314	Lead 5 (charang)
315	Lead 5 (charang) 2
316	Lead 5 (charang) 3
317	Lead 5 (charang) 4
318	Lead 5a (wire lead)
319	Lead 5a (wire lead) 2
320	Lead 6 (voice)
321	Lead 6 (voice) 2
322	Lead 7 (fifths)
323	Lead 7 (fifths) 2
324	Lead 8 (bass + lead)
325	Lead 8 (bass + lead) 2
326	Lead 8 (bass + lead) 3
327	Lead 8a (soft wrl)
328	Massiness
329	Square Square Load
330	Slow Square Lead
331 332	Sine Solo
	Square Lead 4 Thick Square
333	Thick Square
334	2Oscillators Lead
335	Wavy Sawtooth 2
336 337	Analog Lead
338	Big Lead Fat Lead
٥٥٥	I at Leau

1 3 3 4	PWM 4th	395	Warm Air	451	Analog Cymbal
	Delayed Lead		FX 5 (brightness)	452	Ride Cymbal
	Delayed Lead 2		Smog	453	China Cymbal
342	Fifth Lead		FX 6 (goblins)	454	Ride Bell
343	Corrie		FX 6 (goblins) 2	455	Tambourine
344		400	Choir Bell	456	
				457	Splash Cymbal Cowbell
	th Pad	401	Choir Bell 2	457	
	Pad 1 (new age)		FX 7 (echoes)	459	Analog Cowbell High Bongo
	Pad 1 (new age) 2		FX 7 (echoes) 2	460	
	Pad 2 (warm) Pad 2 (warm) 2		FX 7b (echo pan)	461	Low Bongo
	,		FX 7a (echo bell)	462	Mute Hi Conga
	Pad 2a (sine pad) Pad 3 (polysynth)		FX 7a (echo bell) 2 FX 7a (echo bell) 3	463	Open Hi Conga Low Conga
	Pad 3 (polysynth) 2	_	FX 8 (sci-fi)	464	Analog Hi Conga
_	Pad 3 (polysynth) 3		FX 8 (sci-fi) 2	465	Analog Mid Conga
				466	
_	Pad 3 (polysynth) 4 Pad 4 (choir)		nic Misc.	467	Analog Low Conga High Timbale
_					-
	Pad 4 (choir) 2	411	Sitar 2	468	Low Timbale
	Pad 4a (itopia)		Banjo	469	Cabasa
	Pad 5 (bowed)		Banjo 2	470	Maracas
	Pad 5 (bowed) 2	414	Shamisen	471	Analog Maracas
	Pad 6 (metallic)	415	Shamisen 2	472	Short Guiro
	Pad 6 (metallic) 2	416	Koto	473	Long Guiro
361	` '	417	Koto 2	474	Claves
	Pad 7 (halo) 2	418	Taisho Koto	475	Mute Cuica
	Pad 8 (sweep)	_	Kalimba	476	Open Cuica
	Pad 8 (sweep) 2	_	Kalimba 2	477	Mute Triangle
	Pad 8 (sweep) 3	_	Bag Pipe	478	Open Triangle
	Pan Pad	422	Bag Pipe 2	479	Shaker Nutra Surala
367		423	Fiddle	480	Mute Surdo
	Dipolar Pad		Fiddle 2	481	Open Surdo
	PWM Pad	_	Fiddle 3	482	Melodic Tom
370 371	Warmly Pad		Shanai 2	483	Melodic Tom 2
	Horn Pad			484	Synth Drum
372	Click Pad	Perc	cussive		Rhythm Box Tom
	Analog Dad	120	Tipldo Dall		
	Analog Pad		Tinkle Bell	486	Electric Drum
374	80's Poly Pad	429	Agogo	487	Reverse Cymbal
374 375	80's Poly Pad PWM 4th Soft	429 430	Agogo Steel Drums	487 <b>SFX</b>	Reverse Cymbal
374 375 376	80's Poly Pad PWM 4th Soft Synth Calliope Soft	429 430 431	Agogo Steel Drums Woodblock	487 <b>SFX</b> 488	Reverse Cymbal  Guitar Fret Noise
374 375 376 377	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox	429 430 431 432	Agogo Steel Drums Woodblock Castanets	487 <b>SFX</b> 488 489	Reverse Cymbal  Guitar Fret Noise Guitar Cutting Noise
374 375 376 377 378	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave	429 430 431 432 433	Agogo Steel Drums Woodblock Castanets Taiko Drum	487 SFX 488 489 490	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap
374 375 376 377 378 379	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft	429 430 431 432 433 434	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum	487 SFX 488 489 490 491	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise
374 375 376 377 378 379 380	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square	429 430 431 432 433 434 435	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum	487 SFX 488 489 490 491 492	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click
374 375 376 377 378 379 380 381	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad	429 430 431 432 433 434 435 436	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick	487 SFX 488 489 490 491 492 493	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore
374 375 376 377 378 379 380 381 382	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice	429 430 431 432 433 434 435 436	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick	487 SFX 488 489 490 491 492 493 494	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain
374 375 376 377 378 379 380 381 382 383	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising	429 430 431 432 433 434 435 436 437	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot	487 SFX 488 489 490 491 492 493 494 495	Reverse Cymbal  Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder
374 375 376 377 378 379 380 381 382 383	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate	429 430 431 432 433 434 435 436 437 438 439	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare	487 SFX 488 489 490 491 492 493 494 495 496	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b>	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX	429 430 431 432 433 434 435 436 437 438 439 440	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare	487 SFX 488 489 490 491 492 493 494 495 496 497	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain)	429 430 431 432 433 434 435 436 437 438 439 440	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap	487 SFX 488 489 490 491 492 493 494 495 496 497 498	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2	429 430 431 432 433 434 435 436 437 438 439 440 441	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386 387	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack)	429 430 431 432 433 434 435 436 437 438 439 440 441 442 443	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386 387 388	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2	429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog
374 375 376 377 378 380 381 382 383 384 <b>Syn</b> 385 386 387 388	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2 Prelude	429 430 431 432 433 434 435 436 437 438 449 440 441 442 443 444 445	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom Brush Tom	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog Horse Gallop
374 375 376 377 378 380 381 382 383 384 <b>Syn</b> 385 386 387 388 389 390	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2 Prelude FX 3 (crystal)	429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom Brush Tom Closed Hi-hat	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog Horse Gallop Telephone Ring
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386 387 388 389 390 391	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2 Prelude FX 3 (crystal) FX 3 (crystal)	429 430 431 432 433 434 435 436 437 438 449 440 441 442 443 444 445 446 447	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom Brush Tom Closed Hi-hat Analog Closed Hi-hat	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504	Reverse Cymbal  Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog Horse Gallop Telephone Ring Telephone Ring 2
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386 387 388 389 390 391 392	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2 Prelude FX 3 (crystal) FX 3 (crystal) 2 FX 3 (synth mallet)	429 430 431 432 433 434 435 436 437 438 440 441 442 443 444 445 446 447 448	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom Brush Tom Closed Hi-hat Analog Closed Hi-hat Pedal Hi-hat	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505	Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog Horse Gallop Telephone Ring Telephone Ring 2 Door Creaking
374 375 376 377 378 379 380 381 382 383 384 <b>Syn</b> 385 386 387 388 390 391 392 393	80's Poly Pad PWM 4th Soft Synth Calliope Soft Soft Vox 5th SawWave 5th Lead Soft Slow Square New Year Pad Space Voice Rising Congregate th SFX FX 1 (rain) FX 1 (rain) 2 FX 2 (soundtrack) FX 2 (soundtrack) 2 Prelude FX 3 (crystal) FX 3 (crystal)	429 430 431 432 433 434 435 436 437 438 440 441 442 443 444 445 446 447 448	Agogo Steel Drums Woodblock Castanets Taiko Drum Concert Bass Drum Acoustic Bass Drum Jazz Kick Side Stick Analog Rim Shot Acoustic Snare Jazz Snare Brush Tap Concert SD Hand Clap Tom Brush Tom Closed Hi-hat Analog Closed Hi-hat	487 SFX 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504	Reverse Cymbal  Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Seashore Rain Thunder Wind Stream Bubble Bird Tweet Bird Tweet 2 Dog Horse Gallop Telephone Ring Telephone Ring 2

## **Voice List**

508	Wind Chime
509	Helicopter
510	Car Engine
511	Car Stop
512	Car Pass
513	Car Crash
514	Siren
515	Train
516	Jetplane
517	Starship
518	Burst Noise
519	Applause
520	• • •
521	Laughing
	Screaming
522	Punch
523	Heart Beat
524	Footsteps
525	Gunshot
526	Machine Gun
527	Lasergun
528	Explosion
Comb	ined Voice
529	Stereo Piano & Strings Pad
530	Stereo Piano & Choir
531	Stereo Piano & Synth Strings
532	Stereo Piano & Warm Pad
533	Stereo Piano & Soft EP
534	FM Electric Piano
535	Digital Piano
536	E.Piano & Strings
537	E.Piano & Acoustic Guitar
538	E.Piano & Vibraphone
539	E.Piano 2 & Pad
540	E.Piano 2 & Strings
541	Harpsichord & Stereo Strings
542	Music Box & Stereo Strings
543	Vibraphone & Stereo Strings
544	Vibraphone Octave
545	•
545	Vibraphone & Marimba & Kalimba  Marimba & Kalimba
547	Marimba Delay
548	Xylophone Octave
549	Organ & Stereo Strings
550	Stereo Organ & Piano
551	Rock Organ & Strings
552	Church Organ & Choir
553	Church Organ & Strings
554	Acoustic Guitar & Flute
555	Acoustic Guitar & Clavi
556	24 String Guitar
557	Steel Guitar & Warm Pad
337	1
558	Stereo Strings & Horn
	Stereo Strings & Horn Orchestra
558	
558 559	Orchestra
558 559 560	Orchestra Full Strings Full Strings 2
558 559 560 561	Orchestra Full Strings Full Strings 2 Symphonic
558 559 560 561 562	Orchestra Full Strings Full Strings 2

565	3 Trumpet Loose
566	Trombone & Stereo Strings
567	3 Trombones Loose
568	3 Muted Trumpets Loose
569	Club Brass
570	Brass & Woodwinds
571	Woodwinds & Strings
572	Section Woods Small
573	Pan Flute & Strings Pad
574	Koto & Shamisen
575	Flute & Clarinet
576	Flute & Oboe
577	Flute & Bassoon
578	Flute & Oboe & Clarinet
579	Flute & Clarinet & Bassoon
580	Flute & Oboe & Bassoon
581	Flute Octave
582	Flute & Oboe Octave
583	Flute & Clarinet Octave
584	Oboe & Bassoon
585	Oboe & Clarinet
586	Oboe & Clarinet & Bassoon
587	Oboe Octave
588	Oboe & Clarinet Octave
589	Oboe & Bassoon Octave
590	Clarinet & Bassoon
591	Clarinet & Oboe Octave
Drums	3
592	Standard Set
593	Room Set
594	Power Set
595	Electronic Set
596	Analog Set
597	Jazz Set
598	Brush Set
599	Orchestra Set
600	SFX Set

# **Style List**

NO	Name
8 BE	1
1	8Beat Ballad
2	8Beat Piano
3	8Beat 1
4	Guitar Pop 1
5	8Beat Hip Hop
6	8Beat Blues Rock
7	8Beat Pop
8	Pop Funk 1
9	Rhythm&Beat 1
10	8Beat Disco 1
11	8Beat Rock
12	Guitar Pop 2
13	8Beat 2
14	Sweet Beat
15	8Beat Dance
16	8Beat Disco 2
17	Pop Funk 2
18	8Beat 3
19	60's 8Beat
20	Rhythm&Beat 2
16 BE	-
21	16Beat 1
22	16Beat Funk 1
23	16Beat Ballad 1
24	16Beat R&B
25	Pop 16Beat 1
26	16Beat Funk 2
27	16Beat Dance
28	Pop 16Beat 2
29	16Beat 2
30	Pop 16Beat 3
31	Pop 16Beat 4
32	Modern 16Beat
33	16Beat Hot
34	16Beat Modern
35	16Beat Funk 3
36	16Beat 3
37	Cool Beat
38	16Beat Ballad 2
39	16Beat 4
40	Pop Shuffle
	& BALLAD
41	Pop Rock 1
42	Pop Dance 1
43	Pop Fusion
44	Analog Night 1
45	6/8 Pop
46	Brit. Pop 1
47	Brit. Pop 2
48	Pop Hit
49	Fusion Shuffle
50	Analog Night 2
51	Guitar Pop 3
52	Pop Beat
53	Soft Beat
54	60's Pop
_ <del></del>	ου στορ

55	Sting Latin
56	R&B Ballad 1
57	Guitar Ballad
58	Ballad Rock
59	Piano Pop
60	Soft Ballad
61	Natural Ballad
62	Love Ballad
63	Easy Ballad
64	Miami Folk
65	Slow Ballad
66	Folk Ballad
67	Pop Ballad 1
68	Pop Ballad 2
69	EP Ballad
70	New R&B Ballad
ROCI	
71	Rock
72	New Wave
73	Ska
74	Pop Rock 2
75	Slow Rock
76	70's Rock&Roll
77	Folk Rock
78	Soft Rock
79	Old Rock
80	Easy Rock
81	New Shuffle
82	Rock Hip Hop
83	Rock&Roll 1
84	Rock Shuffle
85	Rock&Roll 2
BALL	ROOM
86	Tango 1
87	Spain Matador
88	Twist 1
89	Twist 2
90	Big Band Fox
91	Tango 2
92	Slow Fox
93	Slow Waltz 1
94	Swing Fox
95	Salsa 1
96	Cha Cha 1
97	Cha Cha 2
98	Beguine 1
99	Beguine 2
100	Rumba 1
101	Samba 1
102	Samba 2
103	Jive
104	Fox Trot
DANG	
105	Techno 1
106	Hip Hop 1
107	House 1
108	Down Beat
109	Progressive

110	Rap 1
111	Disco
112	Soft Disco
113	70's Disco
114	Club Dance
115	Euro Dance
116	Garage
	L & FUNK
117	Funk 1
118	Classic Funk
119	Jay R&B
120	Gospel Swing
121	Gospel
121	Funk 2
	Electric Funk
123	
124	Groove Funk
125	Rubber Funk
126	Cool Funky
127	Jazz Funk
128	Groove
129	Soul
130	Hip Hop Soul
131	Hip Hop Beat
132	R&B
133	Soul Beat
134	British Soul Pop
135	Latin Jazz 1
136	Big Band 1
137	Dixieland 1
138	Guitar Swing 1
139	Broadway Big Band
140	Swing
141	Latin Jazz 2
142	Fusion
143	Acid Jazz
144	Cool Jazz Ballad
145	Swing Shuffle
146	Big Band Medium
147	Dixieland 2
148	Acoustic Jazz
149	Guitar Swing 2
150	Ragtime
151	Modern Jazz Ballad
152	Swing Ballad
153	Orchestra Swing
COU	NTRY
154	Country Pop 1
155	Bluegrass 1
156	8Beat Country
157	Modern Country
158	Country Pop 2
159	Bluegrass 2
160	2/4 Country
161	Country Quick Steps
162	Country Folk
163	Country Shuffle
	N&LATIN DANCE
164	Samba 3

## Style List

165	Bossa Nova
166	Latin
167	New Reggae
168	Reggae Dance
169	Paso Doble
170	Lite Bossa
171	Latin Rock
172	Beguine 3
173	Slow Bolero
174	Disco Samba
175	Mambo
176	Meneito
177	Rumba 2
178	Rumba 3
	Tikitikita
	Lambada
181	
	TZ&TRADITIONAL
182	Waltz
183	Old Waltz
184	English Waltz
185	German Waltz
186	Italian Mazurka
187	Mexico Waltz
188	Vienna Waltz
189	Slow Waltz 2
190	Jazz Waltz
	Polka
192	6/8 March
193	German Polka
194	Party Polka Army March
196	March
197	US March
198	Musette
199	French Musette
200	Mazurka
WOR	
201	Enka Ballad
202	Laendler
203	Hawaiian
204	Sirtake
205	Dangdut
206	6/8 Flipper
207	New Age
208	Tarantella
209	Scottish
210	Norteno
PIAN	
211	Pianist 1
212	Pianist 2
213	Pianist 3
213	March 1
215	March 2
216	Pop Waltz
217	Slow Waltz
218	Pop Bossa
219	Jazz Pub
213	0022 I UD

220	Jazz 1
221	Jazz 2
222	Piano Rock
223	Blues 1
224	Piano Beat
225	Piano Bar
226	Pop 1
227	Pop 2
228	Ballad 1
229	Ballad 2
230	6/8 Ballad

# **Song List**

No.	Name	55	Red River Valley
FOL	K & COUNTRY	56	Rhythm Of The Rair
1	Toccata	57	Rock Around The Cl
2	Carry Me Back To Old Virginny	58	Sail Along Silv'ry Mo
3	El Condor Pasa	59	Sealed With A Kiss
4	Five Hundred Miles	60	Siboney
5	Green Grass Of Home	61	Silent Night
6	Greensleeves	62	_
7	Home Sweet Home	63	
8	La Mer	64	Superstar
	Long Long Ago	65	Sweet And Gentle
	Massachusetts	66	Tennessee Waltz
11	Moon River	67	The End Of The Wo
		68	The Sound Of Silen
	Never On Sunday	69	
14	Oh! Carol	70	Top Of The World
			<u> </u>
15	Oh! Susanna	71	Una Lacrima Sul Vis
	The Girl From Ipanema	72	Unchained Melody
	Tombe La Neige		Love Story
	You Are My Sunshine		Words
	LDEN & POP		Yesterday
_	A Whiter Shade Of Pale		Yesterday Once Mo
	Again	CL	ASSICAL
	Mambo No. 5	77	13 Jours En France
	Are You Lonesome Tonight?	78	A Lover's Concerto
23	Around The World	79	Air For The G-String
24	Auld Lang Syne	80	An Der Shonen Blau
25	Ave Maria	81	The Sleeping Beaut
26	Beyond The Reef	82	La Traviata
27	Blue Tango	83	Wiegenlied
28	Brazil	84	Mov. 2 Adagio Non
29	Bridal March	85	Piano Sonata No. 1
30	Can't Help Fallin' In Love	86	Prelude In C
31	Chanson Du Toreador	87	Chinese Dance
32	Danny Boy	88	Emperor Waltz
33	Do Re Mi	89	March Militaire
34	Ebb Tide	90	Symphony No. 40
35	Fly Me To The Moon		NO
	Happy Birthday To You	91	Hanon Piano Finger
	Hey Jude	92	Hanon Piano Finger
	How Deep Is Your Love	93	Hanon Piano Finger
39	If	93	Hanon Piano Finger
	In The Mood	95	Hanon Piano Finger
_			
41	Jingle Bells	96	Basic Tutorial Beyer
42	Joy To The World	97	Basic Tutorial Beyer
_	La Paloma	98	Basic Tutorial Beyer
	La Playa	99	Basic Tutorial Beyer
	La Reine De Saba		Basic Tutorial Beyer
	Lara's Theme From "Doctor Zhivago"		Cuckoo
	Always In My Heart		Basic Tutorial Beyer
	Mambo No. 8	103	Basic Tutorial Beyer
49	Misty	104	Butterfly
49	My Way	105	Basic Tutorial Beyer
		100	Christmas Eus
50	Annie Laurie	106	Christmas Eve
50 51			<del> </del>
50 51 52	Annie Laurie One Way Ticket To The Blues Only You	107	Basic Tutorial Beyer Basic Tutorial Beyer

55	Red River Valley
56	Rhythm Of The Rain
57	Rock Around The Clock
58	Sail Along Silv'ry Moon
59	Sealed With A Kiss
60	Siboney
61	Silent Night
62	Speak Softly Love
63	Summertime
64	Superstar
65	Sweet And Gentle
66	Tennessee Waltz
67	The End Of The World
68	The Sound Of Silence
69	The Way We Were
70	Top Of The World
71	Una Lacrima Sul Viso
72	Unchained Melody
$\overline{}$	Love Story
74	Words
75	Yesterday
76	Yesterday Once More
CLA	ASSICAL
77	13 Jours En France
78	A Lover's Concerto
79	Air For The G-String
80	An Der Shonen Blauen Donau
81	The Sleeping Beauty
82	La Traviata
83	Wiegenlied
84	Mov. 2 Adagio Non Troppo Piano Sonata No. 9 In D
85	Piano Sonata No. 11 In A
86	Prelude In C
87	Chinese Dance
88	Emperor Waltz
89	March Militaire
90	Symphony No. 40
PIA	NO
91	Hanon Piano Fingering 1
92	Hanon Piano Fingering 2
93	Hanon Piano Fingering 3
94	Hanon Piano Fingering 4
95	Hanon Piano Fingering 5
96	Basic Tutorial Beyer Piano 12
97	Basic Tutorial Beyer Piano 13
98	Basic Tutorial Beyer Piano 14
99	Basic Tutorial Beyer Piano 15
100	Basic Tutorial Beyer Piano 18
101	Cuckoo
	Basic Tutorial Beyer Piano 21
	Basic Tutorial Beyer Piano 29
104	Butterfly
105	Basic Tutorial Beyer Piano 45
106	Christmas Eve
107	Basic Tutorial Beyer Piano 50

## Song List

109	Basic Tutorial Beyer Piano 55				
110	Basic Tutorial Beyer Piano 59				
111	Beyer Eight Degrees Jump Etude				
112	Basic Tutorial Beyer Piano The Scale Of C Major				
113	Basic Tutorial Beyer Piano 65				
114	Basic Tutorial Beyer Piano 66				
115	Old Folks At Home (Piano)				
116	Basic Tutorial Beyer Piano The Scale Of G Major				
117	Basic Tutorial Beyer Piano 70				
118	Basic Tutorial Beyer Piano 72				
119	Basic Tutorial Beyer Piano 73				
120	Basic Tutorial Beyer Piano 74				
DEMO					
1	Demo1				
2	Demo2				
3	Bossa Nova				
4	Fusion				
5	Jazz				

# **Chord List**

Chord name [abbreviation]	Normal Voicing (For root C)	Chord	Display
Major [M]	1+3+5	С	С
Sixth [6]	1+(3)+5+6	C6	C6
Major seventh [M7]	1+3+(5)+7	CM7	CM7
Major seventh add sharp eleventh [M7(#11)]	1+(2)+3+#4+(5)+7	CM7(#11)	CM7(#11)
Major seventh add sharp eleventh (9)]	1+2+3+5	C(9)	CM(9)
Major seventh ninth [M7(9)]	1+2+3+(5)+7	CM7(9)	CM7(9)
Sixth ninth [6(9)]	1+2+3+(5)+6	C6(9)	C6(9)
Augmented [aug]	1+3+#5	Caug	Caug
Minor [m]	1+b3+5	Cm	Cm
Minor sixth [m6]	1+b3+5+6	Cm6	Cm6
Minor seventh [m7]	1+b3+(5)+b7	Cm7	Cm7
Minor seventh flatted fifth [m7b5]	1+b3+b5+b7	Cm7b5	Cm7(b5)
Minor add ninth [m(9)]	1+2+b3+5	Cm(9)	Cm(9)
Minor seventh ninth [m7(9)]	1+2+b3+(5)+b7	Cm7(9)	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+b3+4+5+(b7)	Cm7(11)	Cm7(11)
Minor major seventh [mM7]	1+b3+(5)+7	CmM7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+b3+(5)+7	CmM7(9)	CmM7(9)
Diminished [dim]	1+b3+b5	Cdim	Cdim
Diminished seventh [dim7]	1+b3+b5+6	Cdim7	Cdim7
Seventh [7]	1+3+(5)+b7	C7	C7
Seventh suspended fourth [7sus4]	1+4+5+b7	C7sus4	C7sus4
Seventh flatted fifth [7b5]	1+3+b5+b7	C7b5	C7(b5)
Seventh ninth [7(9)]	1+2+3+(5)+b7	C7(9)	C7(9)
Seventh add sharp eleventh [7(#11)]	1+2+3+#4+(5)+b7 or 1+(2)+3+#4+5+b7	C7(#11)	C7(#11)
Seventh add thirteenth [7(13)]	1+ 3+(5)+6+b7 or 2+ 3+5+6+b7	C7(13)	C7(13)
Seventh flatted ninth [7(b9)]	1+b2+3+(5)+b7	C7(b9)	C7(b9)
Seventh add flatted thirteenth [7(b13)]	1+3+5+b6+b7	C7(b13)	C7(b13)
Seventh sharp ninth [7(#9)]	(1)+#2+3+(5)+b7	C7(#9)	C7(#9)
Major seventh augmented [M7aug]	1+3+#5+7	CM7aug	CM7aug
Seventh augmented [7aug]	(1)+3+#5+b7	C7aug	C7aug
Suspended fourth [sus4]	1+4+5	Csus4	Csus4
One plus two plus five [sus2]	1+2+5	C/Csus2	С

# **MIDI** Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic	Default	1ch	ALL	
Channel	Changed	1-16ch	1-16ch	
	Default	×	3	
Mode	Messages	×	3	
	Altered	******	×	
Note	Note	0—127	0—127	
Number	:True voice	******	0—127	
Velocity	Note on	○ 9nH,V=1-127	○ 9nH,V=1-127	
Ž	Note off	× (9nH,V=0)	○(9nH,V=0; 8nH,V=0-127)	
After	key's	×	×	
Touch	Ch's	×	×	
Pitch Bend		0	0	
Control	0	0	0	Bank Select
Change	1	×	0	Modulation
J	5	×	0	Portamento Time
	6	0	0	Data Entry
	7	0	0	Volume
	10	×	0	Pan
	11	×	0	Expression
	64	0	0	Sustain Pedal
	65	×	0	Portamento ON/OFF
	66	0	0	Sostenuto Pedal
	67	0	0	Soft Pedal
	80	×	0	Reverb Program
	81	×	0	Chorus Program
	91	0	0	Reverb Level
	93	0	0	Chorus Level
	120	×	0	All Sound Off
	121	×	0	Reset All Controllers
	123	×	0	All Notes Off
Program		0	0	
Change	:true	******	0-127	
System Exclusive		×	0	
System	:SongPosition	×	×	
Common	:Song Select	×	×	
	:Tune	×	×	
System	:Clock	×	×	
Real Time	:Commands	×*1	×	
	:LOCAL ON/OFF	×	×	
Aux		l	I	1
Aux Messages	:Active sense	×	0	

Notes: \*1

When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted.

• Mode 1: OMNI ON, POLY

• Mode 2: OMNI ON, MONO

• Mode 3: OMNI OFF, POLY

• Mode 4: OMNI OFF, MONO

o: YES

×: NO

## Scale tuning system

A tuning system is the system used to define which tones, or pitches, to use when playing music. In other words, it is the choice of number and spacing of frequency values used. The equal temperament (has only one tuning method, and is suitable for keyboard) is the common musical scale used at present, used for the tuning of pianos and other instruments of relatively fixed scale. One of the advantages of the equal tempered scale is that it is the same in any musical "key", so that compositions may be freely transposed up or down without changing the musical intervals.

Especially for piano, equal temperament is widely used and taken for granted. But people used several other scales to compose and perform before adopting the equal temperament. This piano has been equipped with 6 scale tuning systems, you can select one to reappearing its matched chord of the melody at that time.

## **Characteristics of Different Scale Tuning Systems**

### **Pythagorean**

The Pythagorean tuning, named after the ancient mathematician and philosopher Pythagoras, is based on a stack of intervals called perfect fifths. It is particularly well suited to music which treats fifths as consonances, and thirds as dissonances.

### Pure Major & Pure Minor

In music, just intonation (sometimes abbreviated as JI) or pure intonation is any musical tuning in which the frequencies of notes are related by ratios of small whole numbers. Any interval tuned in this way is called a pure or just interval. And the major scale which consisted of just intonations especially for this triad chords: Root, Third, Fifth are sounded extremely harmony. The just intonation must be the most natural temperament.

#### Meantone

The Meantone System is a musical temperament which is close to just intonation. Used to tuning pipe organ in 16th century Europe. These musical scales which based on the Pythagorean System, minus quarter of common comma for once, are extremely approaching just intonation. So, use this system to create musical scales are sound beautiful and pure, just like a perfect triad chord.

#### Werckmeister

The Werkmeister was named after Andreas Werckmeister, and this scale was created as an improvement on the Pythagorean scale. This tuning collapse comma maxima, created by Pythagorean, into four perfect fifths, the rest fifths still remain their Pythagorean scale characteristics. Werkmeister Tuning can tune scale from harmonic to melodic by increasing tone number, making each tonality sound distinct, this is the important gist for classicists and romanticism tonality music to name the tone name.

#### Kirnberger

Kirnberger temperament is an irregular temperament developed in the second half of the 18th century by Johann Kirnberger and regarded as an improved version of Meantone temperament. It makes possible to switch different tunes freely when performing.

#### Twelve-tone equal temperament

In twelve-tone equal temperament, which divides the octave into 12 equal parts, the width of a semitone, i.e. the frequency ratio of the interval between two adjacent notes, is the twelfth root of two. There is minute difference of the same amount between each two intervals.

## **WEEE-Declaration / Disposal**



Your product is designed and manufactured with materials and components of high quality, which are recyclable and can be reused. The symbol means that your product should be disposed of separately from household waste when it reaches its end of life. Please dispose of this equipment at your local collection point or recycling center. Please help to protect the environment in which we all live.

All specifications and appearances are subject to change without notice. All information was correct at time of printing. Musikhaus Kirstein GmbH does not guarantee for the accuracy or completeness of any description, photograph or statement contained in this manual. Printed colors and specifications may vary slightly from product. Products from Musikhaus Kirstein GmbH are only sold through authorized dealer. Distributors and dealers are not agents of Musikhaus Kirstein GmbH and have no authority to bind Musikhaus Kirstein GmbH legally in any way. This manual is protected by copyright. Any copying or reprint, even in excerpts, is only allowed with written consent of Musikhaus Kirstein GmbH. The same applies to reproduction or copying of images, even in altered form.



## Musikhaus Kirstein GmbH

Bernbeurener Strasse 11

Telefon: 0049-909494-0 Telefax: 0049-909494-19

www.kirstein.de

86956 Schongau

