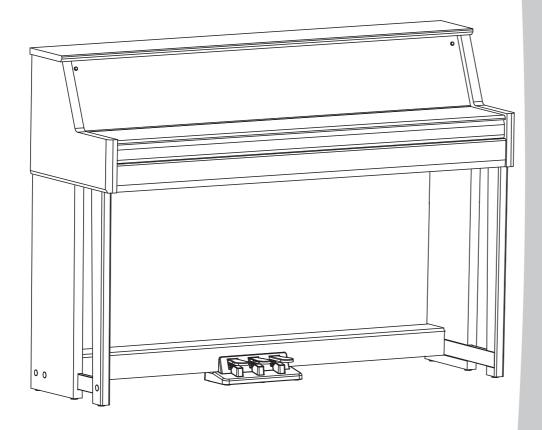
# DIGITAL PIANO



# **Owner's 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

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
- 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.

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.





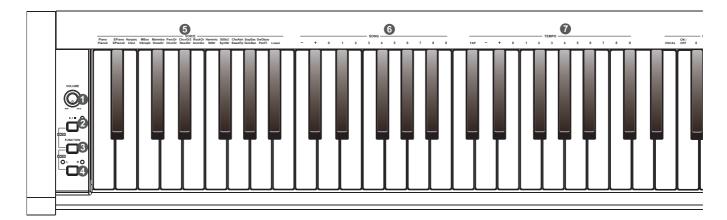


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#### **Front Panel**



#### 1. MASTER VOLUME

Adjust the master volume.

#### 2. START/STOP Button

Start/stop the song playing.

#### 3. FUNCTION Button

Hold down this button and press the special keys to realize different functions.

#### 4. L/R Button

In song mode, you can press [L/R] button to select which hand to practice.

#### 5. VOICE SELECT Key

Hold down the [FUNCTION] button and press the key to select a voice.

#### 6. SONG SELECT Key

Hold down the [FUNCTION] button and press the key to select a song.

#### 7. TEMPO ADJUST Key

Hold down the [FUNCTION] button and press the key to adjust the current tempo.

#### Rear Panel

#### 8.AUX IN Jack

Connect an external sound source, such as an MP3 or CD player.

#### 9. AUX OUT Jack

Connect the audio equipment.

#### 10. MIDI IN Interface

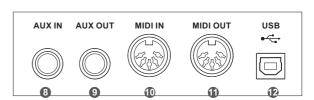
Connect the MIDI OUT of other device to the MIDI IN jack on the rear panel.

#### 11. MIDI OUT Interface

Connect the MIDI IN of other device to the MIDI OUT jack on the rear panel.

#### 12. USB-MIDI Interface

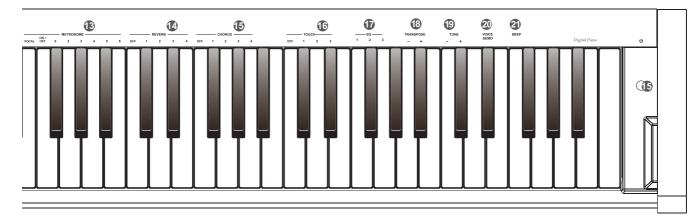
Connect to a computer.



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## **Panel Description**



#### 13. METRONOME Key

Hold down the [FUNCTION] button and press the [ON/OFF] key to turn the metronome ON or OFF. Hold down the [FUNCTION] button and press the other key to select the time signature.

#### 14. REVERB Key

Hold down the [FUNCTION] button and press the [ON/OFF] key to turn reverb effect ON or OFF. Hold down the [FUNCTION] button and press the other key to select the reverb type.

#### 15. CHORUS Key

Hold down the [FUNCTION] button and press the [ON/OFF] key to turn chorus effect ON or OFF. Hold down the [FUNCTION] button and press the other key to select the chorus type.

#### 16. TOUCH Key

Hold down the [FUNCTION] button and press the key to select different touch response level.

#### 23. SOFT Pedal

Step on the soft pedal, all notes played on the keyboard would have a softer effect.

#### 24. SOSTENUTO Pedal

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

#### 25. SUSTAIN Pedal

Step on the sustain pedal, all notes played on the keyboard would have a longer sustain.

#### 17. EQ Key

Hold down the [FUNCTION] button and press the key to select the EQ type.

#### 18. TRANSPOSE Key

Hold down the [FUNCTION] button and press the key to adjust the transpose value from -12 to 12 semitones.

#### 19. TUNE Key

Hold down the [FUNCTION] button and press the key to adjust the tune value from -50 to 50 (stand for -100 to 100 cents).

#### 20. VOICE DEMO Key

Hold down the [FUNCTION] button and press the key to start/stop the voice demo playing.

#### 21. BEEP Key

Hold down the [FUNCTION] button and press the key to turn the prompt tone ON or OFF.

#### 22. POWER ON / OFF

Turn the power ON or OFF.





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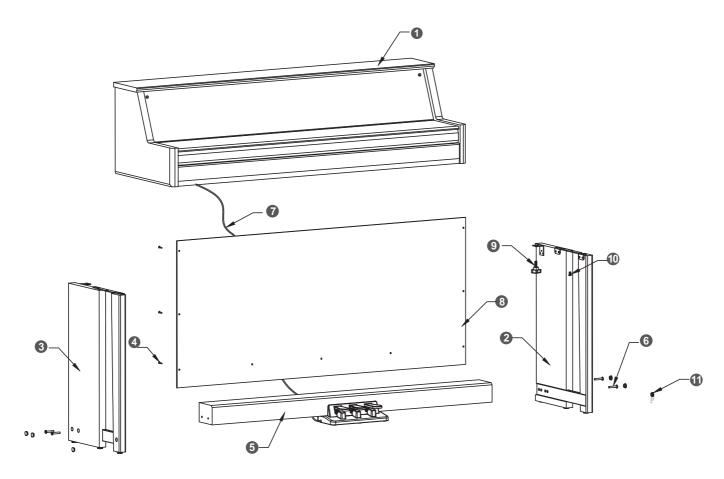


This section contains information about setting up your instrument and preparing to play. Please go through this section carefully before turning the power on.

## Part List

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

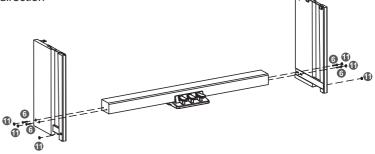
Make sure you have the following parts, which are supplied into package.



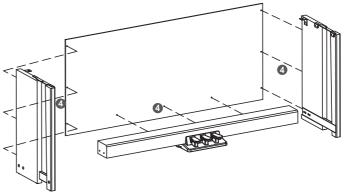
1.	Piano Body
2.	Right Leg Component
3.	Left Leg Component
4.	Tapping Screw 4x20 (9pcs)
5.	Foot Pedal Unit
6.	Screw 6x40 (4pcs)
7.	Foot Pedal Cable
8.	Rear Board
9.	Hand Screws (2pcs)
10.	Screws M6x12 (2pcs)
11.	Screw Rubber Cap (6pcs)

## Setup Guide

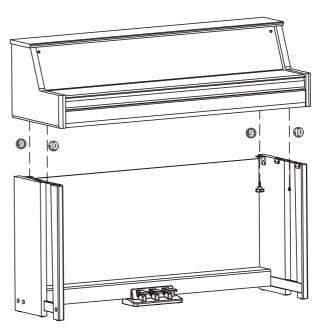
A. Put the foot pedal unit(6) in between the left and right legs components, use 4 pieces of screws(2 on each side) to stable the legs onto the foot pedal unit. (Make sure the direction of the placement is correct before screwing)



B. Use 9 pieces screw, make the Rear board fixed on the Foot pedal unit and right leg component, the left leg component finished in part A on the previous page.

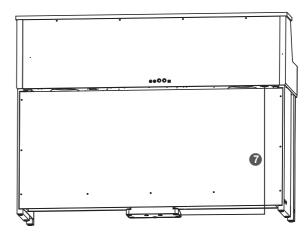


C. Put the piano body on the top of the assembly finished in part B, use 2 pieces of hand screws and 2 pieces of screws M6x12 to stable afterward.





**D.** After the initial set-up, connect pedal cable in the foot pedal unit to the bottom-panel PEDAL jack.

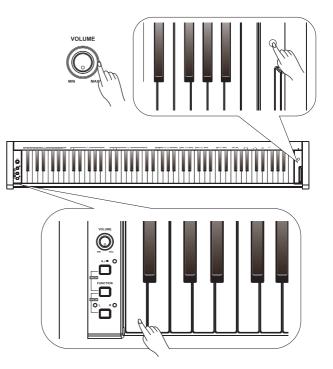


### **Power Supply**

- Make sure that the piano is turned off. Before you switch your 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 LED display will lights up, that indicates the piano has power on.
- **4.** If you are ready to turn off the piano, press the [POWER] switch again.

#### Notes:

- 1. In order to save energy, we have designed the "Automatic Power Off" function to the piano. With this function, the keyboard will be powered off automatically when being idle for more than 30 minutes. If you want to temporary disable this function, just press and hold the first white key on the left from keyboard and turn the power on simultaneously.
- **2.** When the piano is not in use or during thunderstorm, please disconnect the power for safety purpose.





## **Connections**

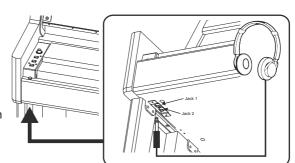
#### **Connecting a pair of Headphones**

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 headphones and speakers of the instrument.
- Jack2: When a pair of headphones is plugged into Jack 2, the internal stereo speaker system is automatically shut off. The sound can be heard from headphones.

#### Note:

Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.

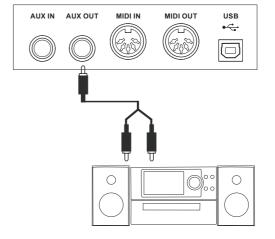


#### **Connecting an Audio Equipment**

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

#### Note:

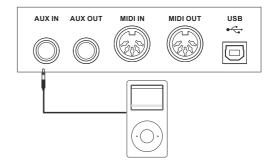
To avoid damaging the speakers, please ensure that the volume has been set to the minimum level before connecting the power and other devices.



#### 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.

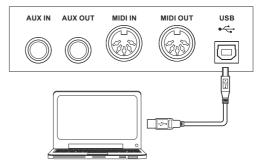


#### **Connecting a Computer**

Connect PC or other USB host devices that support USB audio. For devices with USB cable, you can simply connect the MIDI/USB converter to your USB connector on the device and plug the USB cable into the piano, after the driver is installed and initialization is finished, you can choose USB Audio Device in the device menu of the software to transfer midi data.

#### Note:

Do not select USB audio device in both of input and output setting together, otherwise the sound overlaps.





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Rotate the [VOLUME] knob rightwards, the volume increases and vice verse.



## Listening to the Song

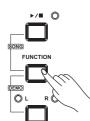
#### **Playing Demo song**

While holding down the [FUNCTION] button, press [L/R] button to start the demo song playing. And all the LEDs on the panel will flash simultaneously.

Do it again or press [Start/Stop] button to stop playing, and the LED will stop flash.



The keyboard would be disabled when the demo song is playing.



#### **Playing Song**

There are total 60 songs in this digital piano (see Appendix). Each song can be practiced in the MELODY OFF mode.

#### **Start Song**

While holding down the [FUNCTION] button, press [Start/Stop] button to start the song playing. All songs will be played in a loop.

#### Loop

While only press [Start/Stop] button, it will play the current song repeatedly.

#### Stop Song

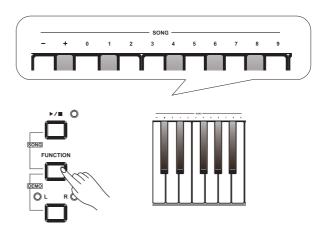
Press [Start/Stop] button to stop the song playing.

#### Select Song

While holding down the [FUNCTION] button, press corresponding keys in SONG selection area to select your desired song.

#### Note:

- Press [song +] and [song –] keys simultaneously to select the first song.
- **2.** If you want to select song by the number keys, you should input 2 numbers. For example, if you want to select the eighth song, you should input "08".



## **Practice Song**

In the song mode, you can press [L/R] button to select which hand to practice and the status switch as following.









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#### **Selecting Voice**

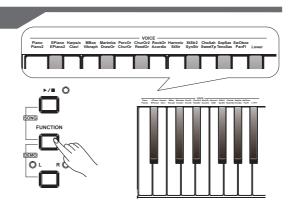
The instrument features 26 exceptionally realistic voices for you to choose. Please refer to Voice List.

While holding down the [FUNCTION] button, press corresponding key in voice selecting area to select the voice you want.

Now, You can play the keyboard and listen to the wonderful voice.

#### Note:

- 1. While changing a voice, pay attention to the rules: While holding down the [function]button, and press the same key again, the voice will be changed between the upper and lower key. When the upper/lower voice is on, and then you press another voice key, the corresponding upper/lower voice will be selected.
- 2. While voice is selected, the dual voice and lower voice will be turned off automatically.



#### Playing two Voice Simultaneously

You can play two voices synchronously on the keyboard by selecting a dual voice.

While holding down the [FUNCTION] button, press 2 keys simultaneously in voice selecting area. Press the first key to select the upper voice, press the second key to select the dual voice.

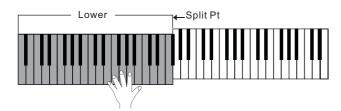
#### Notes:

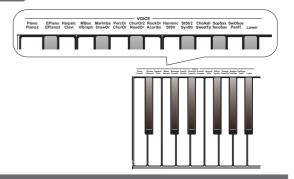
While dual voice is turned on, lower voice would be turned off automatically.



#### Playing a Lower Voice

While holding down the [FUNCTION] button, select the Lower on the keyboard. This will select Strings as lower voice and split the keyboard at F#3 automatically.





#### Playing Voice Demo

While holding down the [FUNCTION] button, press VOICE DEMO key to start the demo for the selected voice.

Do it again to stop the voice demo playing.

This instrument contains 26 voice demos.

#### Noto

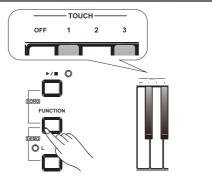
In voice demo mode, the keyboard will be not available.

# TUNE VOICE BEI

#### Touch Response

While holding down the [FUNCTION] button, press a key in the TOUCH selecting area to select different touch response level. OFF

- 1: Soft
- 2: Medium
- 3: Hard



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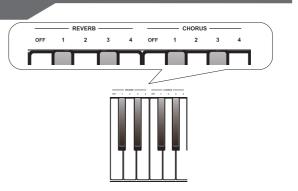


#### **Reverb and Chorus Effect**

While holding down the [FUNCTION] button, press the corresponding keys in REVERB and CHORUS effect setting area to select the voice effect type.

Reverb Value: Chorus Value: OFF **OFF** 

1: Room 1: Light Chorus 2: Small Hall 2: Medium Chorus 3: Large Hall 3: Deep Chorus 4: Stadium 4: Flanger



#### **EQ Effect**

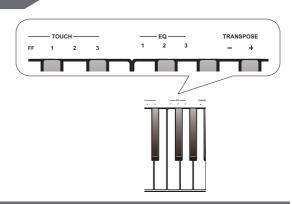
The equalizer is the function of adjusting the sound value of the gain spectrum, gain setting can bring a different sound field effect. This instrument contains 3 sets of equalizer for you to choose. While holding down the [FUNCTION] button, press the corresponding keys in EQ setting area to select the EQ type.

EQ Type:

1:Standard

2:Classical

3:Modern



## **Metronome**

#### Turn on the metronome:

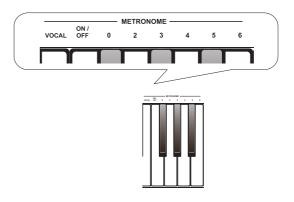
While holding down the [FUNCTION] button, press METRONOME ON/OFF key to turn the metronome ON or OFF.

#### Select different time signature:

While holding down the [FUNCTION] button, select a demanded time signature by pressing the corresponding keys in metronome setting area. There are 6 types of time signature: 0, 2, 3, 4, 5, 6.

#### Select metronome voice:

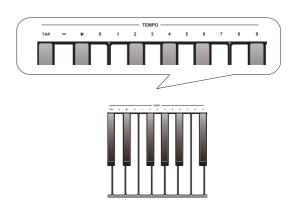
While holding down the [FUNCTION] button, press VOCAL key to select meteronome voice: human voice and normal voice.



## Tempo

While holding down the [FUNCTION] button, press corresponding keys in TEMPO selection area. You can change the tempo by input number or using tap tempo, or press tempo +/- keys to change current tempo.

- 1. Press [tempo +] and [tempo -] keys simultaneously to set the tempo value back to the default (120).
- 2. The tempo range is :30  $\sim$  280
- 3. If you want to change tempo value by the number keys, you should input 3 numbers. For example, if you want to set the tempo value as 85, you should input "085".





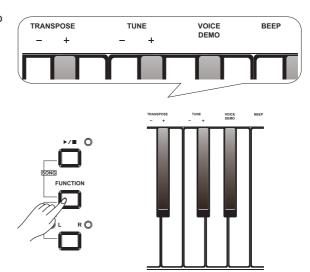




While holding down the [FUNCTION]button, press transpose +/- key to adjust the transpose value from -12 to 12 semitones.

#### Note:

Press [transpose +] and [transpose –] keys simultaneously to set the transpose value back to the default (0 semitone).

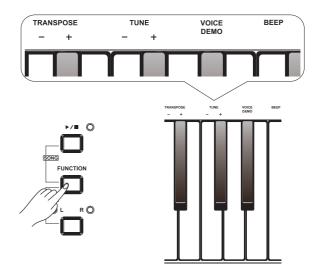


## Tune

While holding down the [FUNCTION] button, press tune +/- key to adjust the tune value from -50 to 50 (stand for -100 to 100 cents).

#### Note:

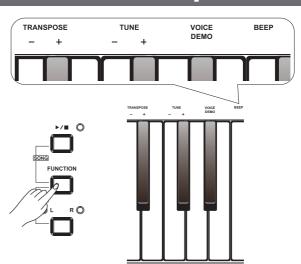
Press [tune +] and [tune –] keys simultaneously to set the tune value back to the default (0 cent).



## **Beep Tone**

While holding down the [FUNCTION] button, press beep key to turn the Beep Tone ON or OFF. The default setting is ON.

If you turn on the beep tone, you can hear a beep sound when you press a valid functional key while the [FUNCTION] button is held down.





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## **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 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.

## **Specifications**

#### Keyboard

88 Hammer-Action keys

#### **Polyphony**

128

#### Voice

26

#### Demo

#### Song 60

Tempo 30-280

#### **Control Button**

Power On/Off switch, Volume, Function, Start/Stop, L/R

#### **Control Key**

Voice Select Keys, Song Select Keys, Song +/-, Tempo Tap, Tempo +/-, Tempo Number Keys, Metronome On/Off, Metronome select keys, Reverb On/Off, Reverb Type Select Keys, Chorus On/Off, Chorus Type Select Keys, Touch On/Off, Touch Select Keys, Transpose, Tune, Vocal, EQ Type Select Keys, Voice Demo, Beep.

#### **Connectors**

Headphones (2 standard. 1/4" phone), AUX IN, AUX OUT, USB, Pedals (Sustain, Soft, Sostenuto), MIDI IN, MIDI OUT

#### **Power Supply**

AC 220~240V, 50Hz, 60W

#### **Speaker**

8Ω 20W X 2 8Ω 25W X 2

#### Weight

55Kg

#### **Dimensions**

1376(L) x 452(W) x 1008(H) mm

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



Panel Voice List					
No.	Pro.	Bank	English Name		
1	0	100	Grand Piano		
2	1	100	Grand Piano 2		
3	4	1	Ele. Piano		
4	5	100	Ele. Piano 2		
5	6	100	Harpsichord		
6	7	1	Clavichord		
7	10	1	Music Box		
8	11	100	Vibraphone		
9	12	1	Marimba		
10	16	1	Drawbar Organ		
11	17	1	Percussive Organ		
12	19	100	Church Organ		
13	19	1	Church Organ 2		
14	18	1	Reed Organ		
15	18	100	Rock Organ		
16	21	1	Accordion		
17	22	1	Harmonica		
18	48	100	Stereo Strings		
19	49	100	Stereo Strings 2		
20	50	1	Synth Strings		
21	52	1	Choir Aahs		
22	56	100	Sweet Trumpet		
23	64	100	Soprano Sax		
24	66	1	Tenor Sax		
25	68	100	Sweet Oboe		
26	75	1	Pan Flute		

No.   Pro.   Bank   Name   Piano	GM \	GM Voice List			
1         0         0         Acoustic Grand Piano           2         1         0         Bright Acoustic Piano           3         2         0         Electric Grand Piano           4         3         0         Honky-tonk Piano           5         4         0         Electric Piano 1           6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Orga	No.	Pro.	Bank	Name	
2         1         0         Bright Acoustic Piano           3         2         0         Electric Grand Piano           4         3         0         Honky-tonk Piano           5         4         0         Electric Piano 1           6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Wibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ	Piano	)			
3         2         0         Electric Grand Piano           4         3         0         Honky-tonk Piano           5         4         0         Electric Piano 1           6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ <td>1</td> <td>0</td> <td>0</td> <td>Acoustic Grand Piano</td>	1	0	0	Acoustic Grand Piano	
4         3         0         Honky-tonk Piano           5         4         0         Electric Piano 1           6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion <tr< td=""><td>2</td><td>1</td><td>0</td><td>Bright Acoustic Piano</td></tr<>	2	1	0	Bright Acoustic Piano	
5         4         0         Electric Piano 1           6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica	3	2	0	Electric Grand Piano	
6         5         0         Electric Piano 2           7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accoordion           33         22         0         Harmonica	4	3	0	Honky-tonk Piano	
7         6         0         Harpsichord           8         7         0         Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0	5	4	0	Electric Piano 1	
Clavi           Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (see	6	5	0	Electric Piano 2	
Chromatic Percussion           9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25 </td <td>7</td> <td>6</td> <td>0</td> <td>Harpsichord</td>	7	6	0	Harpsichord	
9         8         0         Celesta           10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)     <	8	7	0	Clavi	
10         9         0         Glockenspiel           11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (muted)           30         29         0         Overdr	Chro	matic F	Percussion	n	
11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (steel)           29         28         0         Electric Guitar (muted)           30         29         0	9	8	0	Celesta	
11         10         0         Music Box           12         11         0         Vibraphone           13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (steel)           29         28         0         Elec	10	9	0	Glockenspiel	
13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31	11	10	0		
13         12         0         Marimba           14         13         0         Xylophone           15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31	12	11	0	Vibraphone	
15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (glean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass	13	12	0	·	
15         14         0         Tubular Bells           16         15         0         Dulcimer           Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           24         23         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (glean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass	14	13	0	Xylophone	
Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass (finger)           35         34         0         Electric	15	14	0		
Organ           17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass (finge	16	15	0		
17         16         0         Drawbar Organ           18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           24         23         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass (finger)           35<					
18         17         0         Percussive Organ           19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37 <td></td> <td></td> <td>0</td> <td>Drawbar Organ</td>			0	Drawbar Organ	
19         18         0         Rock Organ           20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           24         23         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass <td< td=""><td>18</td><td></td><td></td><td></td></td<>	18				
20         19         0         Church Organ           21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           24         23         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass			-	-	
21         20         0         Reed Organ           22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           24         23         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           <					
22         21         0         Accordion           23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2			-	-	
23         22         0         Harmonica           24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (clean)           28         27         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 2           Strings & Orchestral Instruments			-	9	
24         23         0         Tango Accordion           Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 2           Strings & Orchestral Instruments			-		
Guitar           25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 2           Strings & Orchestral Instruments			-		
25         24         0         Acoustic Guitar (nylon)           26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments		_		Tunge / teeeralen	
26         25         0         Acoustic Guitar (steel)           27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			n	Acoustic Guitar (nylon)	
27         26         0         Electric Guitar (jazz)           28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-		
28         27         0         Electric Guitar (clean)           29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-		
29         28         0         Electric Guitar (muted)           30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-		
30         29         0         Overdriven Guitar           31         30         0         Distortion Guitar           32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-	1 1	
31       30       0       Distortion Guitar         32       31       0       Guitar Harmonics         Bass         33       32       0       Acoustic Bass         34       33       0       Electric Bass (finger)         35       34       0       Electric Bass (pick)         36       35       0       Fretless Bass         37       36       0       Slap Bass 1         38       37       0       Slap Bass 2         39       38       0       Synth Bass 1         40       39       0       Synth Bass 2         Strings & Orchestral Instruments				1	
32         31         0         Guitar Harmonics           Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			_		
Bass           33         32         0         Acoustic Bass           34         33         0         Electric Bass (finger)           35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-		
33     32     0     Acoustic Bass       34     33     0     Electric Bass (finger)       35     34     0     Electric Bass (pick)       36     35     0     Fretless Bass       37     36     0     Slap Bass 1       38     37     0     Slap Bass 2       39     38     0     Synth Bass 1       40     39     0     Synth Bass 2       Strings & Orchestral Instruments		_		Guitar Harmonics	
34     33     0     Electric Bass (finger)       35     34     0     Electric Bass (pick)       36     35     0     Fretless Bass       37     36     0     Slap Bass 1       38     37     0     Slap Bass 2       39     38     0     Synth Bass 1       40     39     0     Synth Bass 2       Strings & Orchestral Instruments			0	Acquatia Paga	
35         34         0         Electric Bass (pick)           36         35         0         Fretless Bass           37         36         0         Slap Bass 1           38         37         0         Slap Bass 2           39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-		
36     35     0     Fretless Bass       37     36     0     Slap Bass 1       38     37     0     Slap Bass 2       39     38     0     Synth Bass 1       40     39     0     Synth Bass 2       Strings & Orchestral Instruments			-	· ·	
37     36     0     Slap Bass 1       38     37     0     Slap Bass 2       39     38     0     Synth Bass 1       40     39     0     Synth Bass 2       Strings & Orchestral Instruments			-		
38       37       0       Slap Bass 2         39       38       0       Synth Bass 1         40       39       0       Synth Bass 2         Strings & Orchestral Instruments			-		
39         38         0         Synth Bass 1           40         39         0         Synth Bass 2           Strings & Orchestral Instruments			-	-	
40 39 0 Synth Bass 2 Strings & Orchestral Instruments				-	
Strings & Orchestral Instruments			-		
			_	-	
4     4U   U     VIOIIN			Г		
			-		
42 41 0 Viola					
43 42 0 Cello			-		
44 43 0 Contrabass					
45 44 0 Tremolo Strings			-		
46 45 0 Pizzicato Strings			-		
47   46   0   Orchestral Harp	47	46	U	Orchestral Harp	





## **Voice List**

48	47	0	Timpani			
Ense	emble					
49	48	0	String Ensembles 1			
50	49	0	String Ensembles 2			
51	50	0	Synth Strings 1			
52	51	0	Synth Strings 2			
53	52	0	Choir Aahs			
54	53	0	Voice Oohs			
55	54	0	Synth Voice			
56	55	0	Orchestra Hit			
Bras	s					
57	56	0	Trumpet			
58	57	0	Trombone			
59	58	0	Tuba			
60	59	0	Muted Trumpet			
61	60	0	French Horn			
62	61	0	Brass Section			
63	62	0	Synth Brass 1			
64	63	0	Synth Brass 2			
Reed			- <b>J</b>			
65	64	0	Soprano Sax			
66	65	0	Alto Sax			
67	66	0	Tenor Sax			
68	67	0	Baritone Sax			
69	68	0	Oboe			
70	69	0	English Horn			
71	70	0	Bassoon			
72	71	0	Clarinet			
Pipe	, ,		Giannot			
73	72	0	Piccolo			
74	73	0	Flute			
75	74	0	Recorder			
76	75	0	Pan Flute			
77	76	0	Blown Bottle			
78	77	0	Shakuhachi			
79	78	0	Whistle			
80	79	0	Ocarina			
	h Lea		Coarma			
81	80	0	Lead 1 (square)			
82	81	0	Lead 2 (sawtooth)			
83	82	0	Lead 3 (calliope)			
84	83	0	Lead 4 (chiff)			
85	84	0	Lead 5 (charang)			
86	85	0	Lead 6 (voice)			
87	86	0	Lead 7 (fifths)			
88	87	0	Lead 8 (bass + lead)			
	h Pad		2000 (0000 : 1000)			
89	88	0	Pad 1 (new age)			
90	89	0	Pad 2 (warm)			
91	90	0	Pad 3 (polysynth)			
92	91	0	Pad 4 (choir)			
93	92	0	Pad 5 (bowed)			
94	93	0	Pad 6 (metallic)			
95	94	0	Pad 7 (halo)			
96	95	0	Pad 8 (sweep)			
55	- 55		. aa o (onoop)			

Synt	h SFX			
97	96	0	FX 1 (rain)	
98	97	0	FX 2 (soundtrack)	
99	98	0	FX 3 (crystal)	
100	99	0	FX 4 (atmosphere)	
101	100	0	FX 5 (brightness)	
102	101	0	FX 6 (goblins)	
103	102	0	FX 7 (echoes)	
104	103	0	FX 8 (sci-fi)	
Ethn	ic Misc			
105	104	0	Sitar	
106	105	0	Banjo	
107	106	0	Shamisen	
108	107	0	Koto	
109	108	0	Kalimba	
110	109	0	Bag Pipe	
111	110	0	Fiddle	
112	111	0	Shanai	
Perc	ussive			
113	112	0	Tinkle Bell	
114	113	0	Agogo	
115	114	0	Steel Drums	
116	115	0	Woodblock	
117	116	0	Taiko Drum	
118	117	0	Melodic Tom	
119	118	0	Synth Drum	
120	119	0	Reverse Cymbal	
SFX				
121	120	0	Guitar Fret Noise	
122	121	0	Breath Noise	
123	122	0	Seashore	
124	123	0	Bird Tweet	
125	124	0	Telephone Ring	
126	125	0	Helicopter	
127	126	0	Applause	
128	127	0	Gunshot	
Drun	าร			
129	0	N∖A	Standard Set	
130	8	N∖A	Room Set	
131	16	N∖A	Power Set	
132	24	N∖A	Electronic Set	
133	25	N∖A	Analog Set	
134	32	N∖A	Jazz Set	
135	40	N∖A	Brush Set	
136	48	N∖A	Orchestra Set	
137	56	N∖A	SFX Set	





# Song List

No.	Name
1	Waltz For Piano In g-Sharp Minor
2	The Happy Farmer
3	Etude
4	Dance Of The Four Swans From "Swan Lake"
5	Carmen Suite No.2 Habanera
6	A Little Polish Dance
7	Jesus Saviour Pilot Me
8	Old Macdonald Had A Farm
9	O Sole Mio
10	Wedding March From "Mendelssohn"
11	2-Part Invention No.13 In A Minor BWV 784
12	Turkish March
13	Italian Polka
14	Musette
15	Bourree
16	To A Wild Rose
17	Away In A Manger
18	Fur Elise
19	The Marriage Of Figaro
20	Angels We Have Heard On High
21	Waltz
22	America The Beautiful
23	Did You Ever See A Lassie
24	Arabesque
25	Old France
26	Santa Claus Is Coming To Town
27	Music Box Dancer
28	Symphony No.9 In e Minor Large From "The New World"
29	Larghetto
30	French Suite No. 5 in G Major, BWV 816 - IV. Gavotte
31	Mazurka
32	Minuet 1
33	Minuet 2
34	Minuet 3
35	Minuet In G
36	Neapolitan Song
37	Prelude In E Major
38	Salut D' Amour
39	Pizzicato Polka
40	Piano Sonata No.11 in A major K331 I. Andante grazioso
41	Songs Without Words Op30 No .6 F sharp minor Venetian Gondola Song
42	Duke Aria From "The Rigoletto"
43	Burgmuller Op.100 No.15 - Ballade
44	Spinning Song
45	In The Theatre
46	Alfredo and Violetta Column Tower Duet
47	Come Back To Sorrento
48	Piano Sonatina In F Major
48	<u> </u>
50	Tchaikovsky Waltz Military March No.1 In D Major
51	Als Die Alte Mutter Mich Noch lehrte Singen
JI	AIS DIE VITE MATTE MATTE SIII EN ILLE SIII AELI







# **Song List**

No.	Name
52	Etude on Leger Lines 1
53	Etude on Leger Lines 2
54	At the Ball
55	Dancing Raindrops
56	From a Story Book
57	Comin' 'Round the Mountain
58	Song of the Brook
59	Puck
60	Cotton-pickin' Fingers

# **Demo List**

No.	Name
1	Fantasia







Basic Channel         Default Note Note Note Note Note on Note off Note off No	Function		Transmitted	Recognized	Remarks
Default	Basic	Default	1ch	1-16ch	
Mode Messages Altered         x         3 mode           Altered         x         x           Note Note Number         Note On STRUE voice         0—127 O—127 O—127 O—127           Velocity         Note on Note on Note off x (9nH,V=0) O=0H,V=1.127 Note off x (9nH,V=0) O=0H,V=0.8nH,V=0-127)         0 mode           After key's x x x x Touch Ch's x x x X         x         x           Pitch Bend         x         x         x           Control Change 5         x x O Modulation         Description of Modulation           Change 5         x X O Modulation         Portamento Time Data Entry           6 O O Data Entry         Yolume           1 1	Channel	Changed	×	×	
Altered   Note   Note   Note   O127		Default	×	3	
Altered   Note   Note on   Note on   Note off   x (9nH,V=0)   (9nH,V=0.127   Note off   x (9nH,V=0)   (9nH,V=0.127   Note off   x (9nH,V=0)   Note on   Note on   Note on   Note off   x (9nH,V=0)   Note on   Note off   x (9nH,V=0)   Note on   Note off   x (9nH,V=0)   Note on   Note off   Note on   Note off   Note on   Note off   Note on   Note off   Note on   Note on   Note off   Note on   No	Mode	Messages	×	×	
Number   True voice   Note on   O = 127		Altered	******	×	
Number         :True voice	Note	Note	0—127	0—127	
Velocity		:True voice			
Note off		Note on	○ 9nH.V=1-127		
After Touch         key's Ch's         x         x           Pitch Bend         x         o         Bank Select           Control         0         o         Modulation           Change         1         x         o         Portamento Time           6         o         o         Data Entry           7         o         o         Volume           10         x         o         Pan           111         x         o         Portamento ON/OFF           66         o         o         Sostenuto Pedal           67         o         Sostenuto Pedal           80         x         o         Reverb Program           81         x         o         Chorus Program           Reverb Level         All Sound Off           121         x         o <td></td> <td>Note off</td> <td>· ·</td> <td></td> <td></td>		Note off	· ·		
Touch   Ch's   X	After	key's			
Pitch Bend		Ch's	×	×	
Control         0         Bank Select           Change         1         ×         0         Modulation           5         ×         0         Portamento Time         Data Entry         Volume         Data Entry         Volume         Pan         110         ×         0         Pan         Expression         Sustain Pedal         Expression         Sustain Pedal         Portamento ON/OFF         66         0         Sostenuto Pedal         Portamento ON/OFF         66         0         Sostenuto Pedal         Reverb Program         Reverb Program         Chorus Program         Chorus Program         Chorus Program         Chorus Program         Chorus Level         All Sound Off         Reverb Level         All Sound Off         Reset All Controllers         All Sound Off         Reset All Controllers         All Notes Off         All Notes Off         All Notes Off         System         Song Select         ×         ×         ×         ×         ×         ×         System         Scong Select         ×         ×         ×         ×         X         X         Image: Clock off         ×         ×         X         X         X         X         X         X         X         X         X         X         X         X         X         X			×	0	
Change         1         x         ○         Modulation           5         x         ○         Portamento Time           6         ○         ○         Data Entry           7         ○         ○         Volume           10         x         ○         Pan           11         x         ○         Expression           64         ○         ○         Sustain Pedal           65         x         ○         Portamento ON/OFF           66         ○         ○         Sostenuto Pedal           80         x         ○         Reverb Program           81         x         ○         Reverb Program           91         ○         Reverb Level           93         ○         ○         Chorus Level           120         x         ○         All Sound Off           121         x         ○         Reset All Controllers           123         ○         ○         All Notes Off           Program           Change         :true         ○         ○           System         :Song Select         x         x           System         :Cloc		0	0	0	Bank Select
S		1	×	0	
Data Entry		5	×		
7		6	0		
10		7	0	0	•
11		10			
64		11	×		
65		64	0		'
66		65			
67		66	0		
Reverb Program   Reverb Program   Reverb Level		67			
81       ×       0       Chorus Program         91       0       Reverb Level         93       0       Chorus Level         120       ×       0       All Sound Off         121       ×       0       Reset All Controllers         123       0       0       All Notes Off         Program       0       0       0         Change       :true       ************************************		80			
91		81	×		_
93		91			_
120		93			
121		120			
Program		121	×		
Program         O         O           Change         :true         ************************************		123	0		
Change         :true         ************************************	Program				
System Exclusive         ×         o           System :SongPosition         ×         ×           Common :Song Select :Tune :Tune		:true			
System         :SongPosition         x         x           Common         :Song Select         x         x           :Tune         x         x           System         :Clock         o         x           Real Time         :Commands         x         x           Aux         :LOCAL ON/OFF         x         x           Messages         :Active sense         x         o			×		
Common         :Song Select         x         x           :Tune         x         x           System         :Clock         x           Real Time         :Commands         x           Aux         :LOCAL ON/OFF         x           Messages         :Active sense         x					
:Tune         x         x           System         :Clock         0         x           Real Time         :Commands         x         x           Aux         :LOCAL ON/OFF         x         x           Messages         :Active sense         x         0	I -	=			
System :Clock		-			
Real Time :Commands × ×  Aux :LOCAL ON/OFF × ×  Messages :Active sense ×	System				
Aux :LOCAL ON/OFF × × Messages :Active sense ×	I -				
Messages :Active sense ×				<u> </u>	
	1				
	Wicosagos		×		

• Mode 1: OMNI ON, POLY

• Mode 2: OMNI ON, MONO

• Mode 3: OMNI OFF, POLY

• Mode 4: OMNI OFF, MONO

o: YES

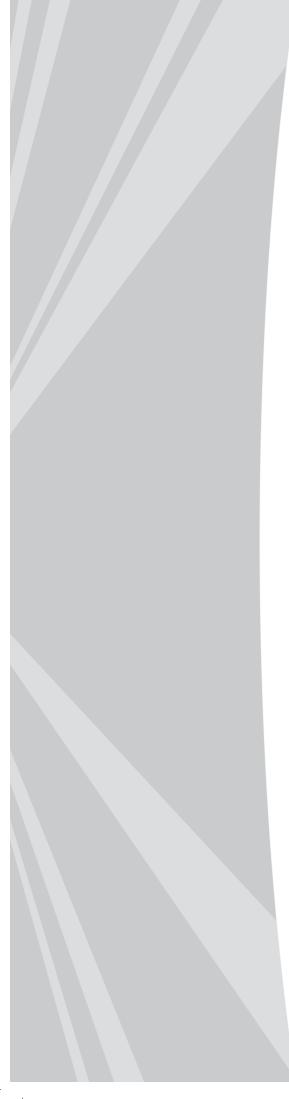
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