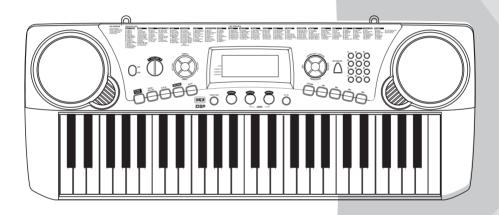
# ELECTRONIC KEYBOARD



**Owner's Manual** 

# 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 EASE DEAD CAPEFULLY REFOR

# PLEASE READ CAREFULLY BEFORE PROCEEDING

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

#### **Power Supply**

Please connect the designated AC adaptor to an AC outlet of the correct voltage.

Do not connect it to an AC outlet of voltage other than that for which your instrument is intended

Unplug the AC power adaptor when not using the instrument, 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.

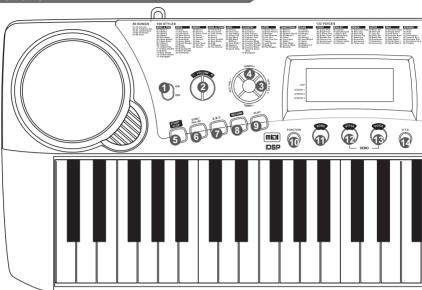
Do not let paper, metallic, or other objects into the instrument. If this happens, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

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# **Panel & Display Description**

### Front Panel



#### 1. POWER ON/OFF

Turn the power on and off.

#### 2. MASTER VOLUME

Adjust the master volume.

#### 3. ACC.VOL

Adjust the accompaniment volume.

#### 4. TEMPO

Adjust the current tempo.

#### 5. START/STOP

Start or stop playing the song in Song Mode.
Start or stop playing the style in

Style Mode.

#### 6. SYNC/FILL-IN

Turn the SYNC START on and off.

Play the FILL-IN

#### 7. A.B.C.

Turn the Chord Mode on and off.

#### 8. RECORD

Enter the Record Mode.

#### 9. PLAY

Play back the recorded performance.

#### 10. FUNCTION

Change the adjusted function.

#### **11. SONG**

Enter the Song Mode.

#### 12. STYLE

Enter the Style Mode.

#### 13. VOICE

Enter the Voice Mode.

#### 14. O.T.S.

Enter the One Touch Setting Mode.

### Rear Panel

#### 23. DC 9V

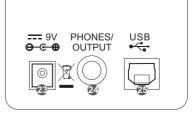
Connect DC 9V power adaptor (optional).

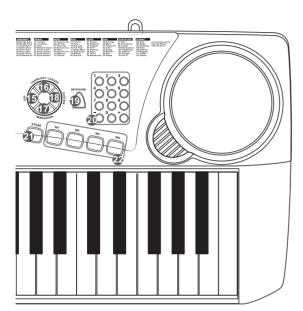
### 24. PHONES/OUTPUT

Connect a pair of headphones. Connect the audio equipment.

#### 25. USB

Connect to a computer.





# **15. DSP**Turn the DSP effect on and off.

### 16. CHORD DICT./LESSON Enter or change the Lesson mode.

Enter the Chord Dictionary.

#### 17. MODULATION

Turn the Modulation effect on and off.

#### 18. SUSTAIN

Turn the Sustain effect on and off.

#### 19. METRONOME

Turn the metronome on and off

# 20. +, -, NUMBER KEYS Select the number or adjust

the parameters.

#### 21. STORE

Register the memory.

#### 22. M1-M4

Recall the memory settings.

### Display

1.DSP

2.LESSON 1

3.LESSON 2

4.LESSON 3

**5.CHORD DIRECT** 

6. AUTO BASS CHORD

7.TREBLE CLEF

8.BASS CLEF

9.BEAT

AB.C. 5
# b sus4
dim69
mM7aug

DSP
2 Lesson 1
3 Lesson 2
4 Lesson 3

10.TEMPO/COUNT

11.ACCOMP VOLUME/ MASTER VOLUME

12.METRONOME

13.MEMORY/PERCUSSION

14.RECORD/PLAY

15.ONE TOUCH SETTING

16.SUSTAIN

17.KEYBOARD

# 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.

# Power Supply

You can power the unit either by batteries or by power adaptor. Follow the instructions described below.

#### **Using Batteries**

6 pieces of C size (SUM-2 or R-14) or equivalent alkaline batteries must first be installed into the battery compartment.

- Open the battery compartment cover located on the bottom cabinet of the unit.
- Insert the batteries, carefully follow the polarity markings on the cabinet.
- Close the compartment cover, making sure that it locks firmly in place.

#### Caution:

Do not mix old and new batteries. Always use same types of batteries.

Always remove the batteries from the unit when it is not being used for an extended period of time.

#### **Using Power Adapter**

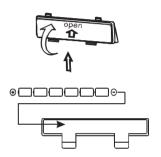
- First, please make sure that POWER ON/OFF switch of the instrument is set to OFF.
- 2. Connect the AC adaptor to the power supply jack.
- Plug the AC adaptor into an AC outlet. And when turning the power OFF, simply reverse the procedure please. This will automatically cut off the battery power supply.
- 4. Turn the power ON.

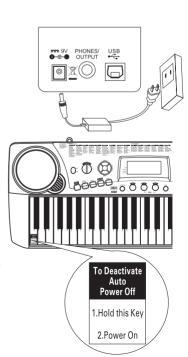
### Note:

When the keyboard is not in use or in the time of thunderstorm, please disconnect the power for safety purpose.

A prompt voice sounds every two minutes if there is no operation.

In order to save energy, we have designed the "Automatic Shutdown" function to the keyboard. With this function, the keyboard will shutdown automatically when you have left it idle for more than 30 minutes. If you don't need this feature, just press and hold the [C2] key (the 1st key) and turn it on.





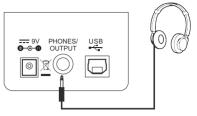
# Connections

# Connecting a pair of Headphones

A standard pair of stereo headphones can be connected to the PHONES jack for private practice or late-night playing. The internal stereo speaker system is automatically shut off when a pair of head phones is plugged into this jack.

#### Note:

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

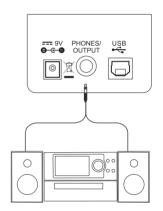


# Connecting an Amplifier

Plug an audio cord into the OUTPUT jack.
Then plug the other end of the cord into LINE IN or AUX.
IN of the amplifier.

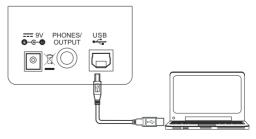
#### Note:

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 a Computer

The instrument receives and transmits MIDI messages via the USB connector.



# **Playing the Demos**

The instrument features 80 demo songs.

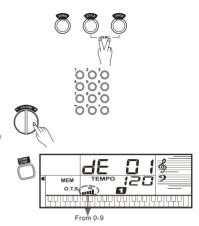
- 1. Press the [STYLE] and [VOICE] buttons simultaneously to start playing the demo.
- Select a demo song.
   Use the number keys, [+] or [-] button to select the desired demo song.

Adjust the volume with the [MASTER VOLUME] buttons. Repeatedly press [VOLUME +] or [VOLUME -] to increase or decrease the volume. The volume ranges from 0 (no sound) to 9 (Maximum) and the current volume level appears on the display.

Press the [STYLE] and [VOICE] buttons simultaneously again or press the [START/STOP] button to stop playing and exit the demo mode.



In the DEMO mode, all buttons except START/STOP, TEMPO+, TEMPO-, [+], [-], VOLUME+, VOLUME-, POWER ON/OFF will not be available.

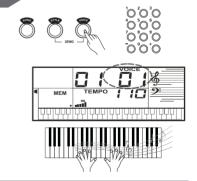


# **Playing Voices**

The instrument features 132 voices, including 4 drum kits. Please refer to Voice List.

# Selecting a Voice

- Press the [VOICE] button.
   Enter the VOICE mode. LCD shows "VOICE" and the voice number.
- Select a voice. Use the number keys, [+] or [-] button to select the voice you want to play.
- Play the voice. You can play the keyboard and listen to the selected voice.



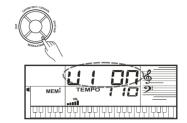
### Sustain

When the Sustain features in ON, all notes played on the keyboard would have a longer sustain. Press the [SUSTAIN] button to turn the SUSTAIN effect ON or OFF.



### Modulation

The Modulation function applies a vibrato effect to notes played on the keyboard. Press the [MODULATION] button while playing the keyboard then you will hear the vibrato effect.



# **DSP Effect**

This function allows you to perform the overall sound in a more realistic effect.

The DSP effect is set to ON when keyboard is power on. Press the [DSP] button to turn on/off the DSP effect.



### **Transpose**

Transpose function allows the overall pitch of the instrument to be transposed up or down by a maximum of 6 semitone increments.

- 1. Press the [FUNCTION] button until "コP5 ロ" displays.
- 2. Press the [+] or [-] button to adjust the pitch of the instrument within 6 semitone.
- 3. Press the [+] and [-] buttons simultaneously to reset the transpose to 0.





# **Playing the Styles**

The instrument features 100 styles in a variety of different musical genres. Try selecting some of the different styles (Refer to *Style List*) and play with the auto accompaniment.

#### Note:

The styles (91-99 and 00) are the piano styles. If you don't turn on A.B.C. and play a chord, the auto accompaniment does not work.

### Selecting a Style

- Press the [STYLE] button.
   Enter the STYLE mode. LCD shows "STYLE" and the style number.
- 2. Use the number keys, [+] or [-] to select the style you want to play.
- **3.** Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment.



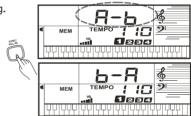


## Playing a Fill-In

Simply press the [FILL-IN] button, while the style is playing. The keyboard inserts a variation, then the original style automatically resumes at the end of the current measure.

#### Note:

For inserting a longer variation, hold down the [FILL-IN] button, The keyboard play the variation until you release the [FILL-IN] button.



#### Sync

While the style is not playing, press the [SYNC] button. The beat flash, indicating the standby mode of the keyboard.

- If the A.B.C. is OFF, pressing any key will automatically begins to play the style (rhythm track).
- If the A.B.C. is ON, pressing any key in the left-hand range of the keyboard will automatically begins to play the style (all tracks).



# **Accompaniment Volume**

Adjust the volume of the accompaniment with the [ACC.VOL] buttons.

Repeatedly press [ACC.VOL +] or [ACC.VOL -] to increase or decrease the volume. The volume ranges from 0 (no sound) to 9 (Maximum) and the current accompaniment volume level appears on the display.



### Tempo

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

- Use the [TEMPO+] or [TEMPO-] button to change the tempo. The value ranges from 40 to 240.
- Hold down the [TEMPO] buttons can change the tempo quickly.
- 3. Press the [TEMPO+] and [TEMPO-] buttons simultaneously to restore the default tempo setting.

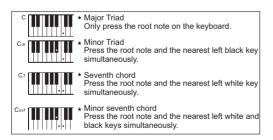


# **Chord Fingering**

- 1. Press the [A.B.C.] button, "A.B.C." appears on the left side of the display. Now, the keyboard is divided into two parts. The 19 keys on the left of the keyboard are called accompaniment keys. The accompaniment keys you pressed determine the type of chords that you played.
- 2. Press the accompaniment keys, the corresponding chord will display on LCD.

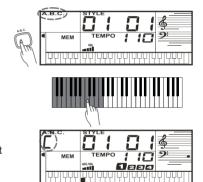
#### Single Finger

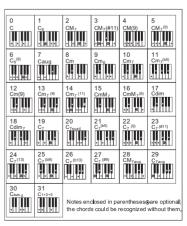
Single finger type not only can detect single finger but also can detect multi finger. And the single finger makes it easily to play chords through only one, two or three keys. Including major, minor, seventh, and minor seventh chord. Refer to relevant picture on the right for details.



#### Multi Finger

Multi finger type only can recognize those chords have listed in the chord list, and also can be found in the dictionary function.





# **Playing the Styles**

## One Touch Setting

One Touch Setting is a convenient function that allows you to automatically play a preset voice to match a selected style you have changed.

Follow these steps to activate One Touch Setting.

- Press the [O.T.S.] button to turn on the One Touch Setting for current style. "O.T.S." appears.
- Press one of the One Touch Setting buttons [M1]-[M4]. Voice match the selected style can be instantly recalled with just a single button press.
- **3.** Press the [O.T.S.] button again to quit One Touch Setting mode, "O.T.S." disappears.



A.B.C. is automatically turned on in O.T.S. mode.

When the style is changed, the matched voice will be changed automatically in O.T.S. mode.





# **Memory**

## Memory

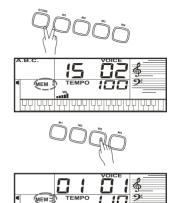
There are 4 memories (M1-M4).

- 1. While holding the [STORE] button, press one of the MEMORY buttons: [M1] - [M4] to register the panel settings. The new settings will replace the previous memory data. The settings include the number of voice, the number of style, tempo, beat value, sustain effect, etc.
- 2. Press one of the MEMORY buttons: [M1] [M4] to recall the panel settings.

#### Note:

The stored settings can not be recalled when the One Touch Setting function is on.

The stored settings will be returned to the default settings after you turned off the power.



# **Chord Dictionary**

If you know the name of a chord but don't know how to play it, you can use the Chord Dictionary function.

- 1. Press the [CHORD DICT.] button to enter this mode, the LCD displays " d IE ? ", the Chord Type and Chord Notes.
- 2. In this mode, the key above G#3 are used to assign the Chord Type, the keys above C5 are used to assign the Chord Root. When the Chord Type and Chord Root are confirmed, the LCD will display the Chord and its keyboard position.
- Play the chords on the keyboard according to the display. If you press the correct notes, you will hear a prompt applause sound.
- Press the [CHORD DICT.] button again to exit this mode.



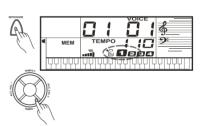




# **Metronome**

# Turning on the Metronome

- Press the [METRONOME] button to turn on the metronome.
- Press the [METRONOME] button again to turn off the metronome.
- 3. Press the [TEMPO+] / [TEMPO-] button to change the tempo of the metronome



# Selecting the Beat

- Press the [FUNCTION] button until " ธะว ฯ" displays.
- **2.** Press the [+] or [-] button to change the beat value: 0, 2, 3, 4, 5, 6, 7, 8, 9. The default value is 4.



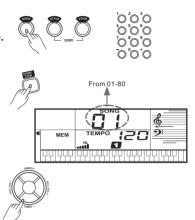




The instrument features 80 songs (Refer to *Song List*). Each song can be practiced in LESSON mode.

# Listening to the Songs

- Press the [SONG] button to enter the song mode. It will
  play all songs circularly. The display indicates "SONG"
  and the number of the current song. Press the [SONG]
  button again, it will stop the song and exit the song mode.
- 2. In song mode, use the number keys, [+] or [-] button to select a song.
- Once you start playing a song by pressing [START/STOP] button, it will play current song repeatedly. Press the [START/STOP] button again, it will stop the current song but not exit the song mode.
- Use the [TEMPO+] or [TEMPO-] button to change the tempo of the current song.
- 5. When the song is stopped, press [STYLE], [VOICE], [DEMO] to exit the song mode.



#### Lesson Mode

In the instrument, there are 3 different ways to practice the songs: time value training, note correction training, melody off. And the keyboard has a grading system to help you to know well about your progress.

- 1. In Song mode, press the [LESSON] button to enter the lesson mode or switch the lesson mode.
- **2.** Press the [START/STOP] button to start learning. The LCD will display the note need to be played.
- 3. Press the [START/STOP] button again to stop learning.
- 4. There are 3 lesson modes and a grading system.
- **Lesson 1:** the keyboard only grades the time value of the playing, don't care the correction of the note.
- Lesson 2: the keyboard only grades your practice by the note; don't care about the correctness of the timing. Only when you play the correct note, the song will continue to the next note.
- **Lesson 3:** the keyboard will score your practice by the correction of the time value and note.
- **Grade:** In lesson mode, when you finished learning the current the song, the keyboard will play the prompt sound to tell you the level you get.
- Level 1: Ok Level 2: Good Level 3: Very Good Level 4: Excellent

After grading, the song will be playing again, you can learn it again.





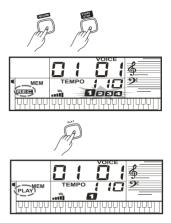
# **Recording and Playback**

You can record your performance (up to 200 notes), and the accompaniment.

- Press the [RECORD] button, the "REC" appears, the beat flashes.
- Play the notes you want to record or press the [START/STOP] button to start recording. If you want to record your performance accompanied with the style, please turn on the A.B.C., and play the chords on the left of the keyboard.
- **3.** Press the [RECORD] button again to stop recording. The "REC" disappears.
- Press the [PLAY] button to play the notes you recorded. The "PLAY" appears.
- Press the [PLAY] button again to stop it. The "PLAY" disappears.

#### Note:

If you turned off the keyboard, the data you have recorded will be lost.



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 and control external MIDI devices. The instrument can also accept incoming MIDI messages and generate sound accordingly.

### MIDI Terminals

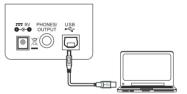
#### **MIDI Connection**

The electronic keyboard is equipped with a standard USB interface instead of conventional MIDI IN and MIDI out connectors. The USB interface allows the keyboard to be connected to a computer without the need to separately purchase a MIDI interface for the computer. Most computers will automatically recognize the keyboard as a MIDI interface, allowing MIDI messages to be received from, or sent to, music programs running on the computer.

To connect the keyboard to a computer you will need a standard USB A-B cable (not supplied) and suitable software such a music sequencing program (not supplied).

#### Note:

Activate the computer from a sleep/suspended/standby mode before connecting the USB cable. Connect the USB cable to the instrument and a computer before turning the power of the instrument on.



# **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 results when the keyboard is played.	Make sure the master volume is 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.

# **Specifications**

Keyboard

49

Display

Multi-functional LCD

Polyphony

32

Voice

132, including 4 drum kits

Style

100

Song

80

Demo

80

**Tempo** 40-240

**Registration Memory** 

4

**Control button** 

Power on/off switch, Master Volume+/-, ACC Volume+/-, Tempo+/-, A.B.C., Function, Style, Voice, Song, Lesson/Chord Dict., Store, M1-M4, O.T.S., Modulation, Number Keys, +, -, Metronome. Sustain, DSP

**Accompaniment Control** 

Start/Stop, Sync/Fill

**Record Function** 

Record, Play

Connectors

DC IN, PHONES/OUTPUT, USB

**Power Supply** 

DC 9V

Speaker

3W+3W

**Dimensions** 

795(W)x315 (D)x120(H) mm

Weight

3.6Kg (without batteries)

<sup>\*</sup> All specifications and appearances are subject to change without notice.

No.	Name	abbr.	44	Contrabass	Contrabass	88	Lead 8 (Bass&Lead)	Bass&Lead
	NO		45	Tremolo Strings	Tremolo Strs	89	Pad 1 (New Age)	New Age
1	Acoustic Grand Piano	Grand Pno	46	Pizzicato Strings	Pizzicato Strs	90	Pad 2 (Warm)	Warm
2	Bright Acoustic Piano	Bright Pno	47	Orchestra Harp	Orchestra Harp	91	Pad 3 (Polysynth)	Polysynth
3	Electric Grand Piano	E.Grand Pno	-	Timpani	Timpani	92	Pad 4 (Choir)	Choir
4	Honky-Tonk Piano	Honky-Tonk	_	ISEMBLE	ППрап	93	Pad 5 (Bowed)	Bowed
5	Rhodes Piano	Rhodes Pno	49	Strings Ensemble 1	Strings Ens 1	94	Pad 6 (Metallic)	Metallic
6	Chorus Piano	Chorus Pno	50	Strings Ensemble 2	Strings Ens 2	95	Pad 7 (Halo)	Halo
7	Harpsichord	Harpsichord	51	Synth Strings 1	Synth Strs 1	96		Sweep
8	Clavichord	Clavi	52	Synth Strings 2	Synth Strs 1		Pad 8 (Sweep)	Sweep
_	LLET	Clavi	53	Choir Aahs	Choir Aahs	97	FX 1 (Rain)	Rain
9		Celesta	54	Voice Oohs	Voice Oohs	98	FX 1 (Raill) FX 2 (Soundtrack)	Soundtrack
	Celesta		F	Synth Voice		99	, ,	
10	Glockenspiel	Glockenspiel	55	Orchestra Hit	Synth Voice		FX 3 (Crystal)	Crystal
11	Music Box	Music Box	56		Orchestra Hit	100	FX 4 (Atmosphere)	Atmosphere
12	Vibraphone	Vibraphone	_	RASS Trumpet	I	101	FX 5 (Brightness)	Brightness
13	Marimba	Marimba	57		Trumpet	102	FX 6 (Goblins)	Goblins
14	Xylophone	Xylophone	58	Trombone	Trombone	103	(==,	Echoes
15	Tubular Bells	Tubular Bells	59	Tuba	Tuba	104	. ( /	Sci-Fi
16	Dulcimer	Dulcimer	60	Muted Trumpet	Muted Trumpet	_	HNIC	
OR	RGAN		61	French Horn	French Horn	105	Sitar	Sitar
17	Hammond Organ	Hammond Org	62	Brass Section	Brass Section	106	Banjo	Banjo
18	Percussive Organ	Perc Org	63	Synth Brass 1	Synth Brass 1	107	Shamisen	Shamisen
19	Rock Organ	Rock Org	64	Synth Brass 2	Synth Brass 2	108	Koto	Koto
20	Church Organ	Church Org	RE	ED		109	Kalimba	Kalimba
21	Reed Organ	Reed Org	65	Soprano Sax	Soprano Sax	110	Bagpipe	Bagpipe
22	Accordion	Accordion	66	Alto Sax	Alto Sax	111	Fiddle	Fiddle
23	Harmonica	Harmonica	67	Tenor Sax	Tenor Sax	112	Shanai	Shanai
24	Tango Accordion	Tango Acd	68	Baritone Sax	Baritone Sax	PEI	RCUSSIVE	
GU	IITAR&BASS		69	Oboe	Oboe	113	Tinkle Bell	Tinkle Bell
25	Acoustic Guitar (Nylon)	Nylon Gtr	70	English Horn	English Horn	114	Agogo	Agogo
26	Acoustic Guitar (Steel)	Steel Gtr	71	Bassoon	Bassoon	115	Steel Drums	Steel Drums
27	Electric Guitar (Jazz)	Jazz Gtr	72	Clarinet	Clarinet	116	Woodblock	Woodblock
28	Electric Guitar (Clean)	Clean Gtr	PII	PE		117	Taiko Drum	Taiko Drum
29	Electric Guitar (Muted)	Muted Gtr	73	Piccolo	Piccolo	118	Melodic Tom	Melodic Tom
30	Overdriven Guitar	Overdriven	74	Flute	Flute	119	Synth Drum	Synth Drum
31	Distortion Guitar	Distortion	75	Recorder	Recorder	EFF	ECTS	
32	Guitar Harmonics	Harmonics	76	Pan Flute	Pan Flute	120	Effects 1	Effects 1
33	Acoustic Bass	Acoustic Bass	77	Bottle Blow	Bottle Blow	121	Effects 2	Effects 2
34	Electric Bass (Finger)	Finger Bass	78	Shakuhachi	Shakuhachi	122	Effects 3	Effects 3
35	Electric Bass (Pick)	Pick Bass	79	Whistle	Whistle	123	Effects 4	Effects 4
36	Fretless Bass	Fretless Bass	80	Ocarina	Ocarina	124	Effects 5	Effects 5
		Slap Bass 1	LE	AD & PAD		125	Effects 6	Effects 6
37	Slap Bass 1			Lead 1 (Square)	Square	126	Effects 7	Effects 7
37 38	-	Slap Bass 2	81	Leau i (Square)				+
_	Slap Bass 2	Slap Bass 2 Synth Bass 1	81	Lead 2 (Sawtooth)	Sawtooth	127	Effects 8	Effects 8
38	Slap Bass 2 Synth Bass 1	Synth Bass 1	-	Lead 2 (Sawtooth)	Sawtooth Calliope	127 128	Effects 8 Effects 9	Effects 8 Effects 9
38 39 40	Slap Bass 2 Synth Bass 1 Synth Bass 2		82	Lead 2 (Sawtooth) Lead 3 (Calliope lead)		-	Effects 9	
38 39 40	Slap Bass 2 Synth Bass 1	Synth Bass 1	82 83 84	Lead 2 (Sawtooth) Lead 3 (Calliope lead) Lead 4 (Chiff lead)	Calliope Chiff	128	Effects 9	
38 39 40 <b>ST</b>	Slap Bass 2 Synth Bass 1 Synth Bass 2 RINGS	Synth Bass 1 Synth Bass 2	82 83	Lead 2 (Sawtooth) Lead 3 (Calliope lead) Lead 4 (Chiff lead) Lead 5 (Charang)	Calliope	128 <b>DR</b> I	Effects 9 UM Standard Kit	Effects 9
38 39 40 <b>ST</b> 41	Slap Bass 2 Synth Bass 1 Synth Bass 2 RINGS Violin	Synth Bass 1 Synth Bass 2 Violin	82 83 84 85	Lead 2 (Sawtooth) Lead 3 (Calliope lead) Lead 4 (Chiff lead)	Calliope Chiff Charang	128 <b>DR</b> 129	Effects 9 UM Standard Kit	Effects 9 Standard

# Style List

No.	Name	abbr.	
BE	AT & POP		
1	8 Beat 1	8 Beat 1	
2	8 Beat 2	8 Beat 2	
3	8 Beat 3	8 Beat 3	
4	8 Beat 4	8 Beat 4	
5	60's 8 Beat	60's 8 Beat	
6	8 Beat Ballad	8 Beat Ballad	
7	8 Beat Rock	8 Beat Rock	
8	16 Beat 1	16 Beat 1	
9	16 Beat 2	16 Beat 2	
10	16 Beat Pop	16 Beat Pop	
11	16 Beat Shuffle	16 Beat Shuffle	
12	Ballad 1	Ballad 1	
13	Slow Ballad	Slow Ballad	
14	16 Beat Ballad	16 Beat Ballad	
15	Unplugged	Unplugged	
RO	CK		
16	Rock	Rock	
17	Pop Rock	Pop Rock	
18	Fast Rock	Fast Rock	
19	Slow Rock 1	Slow Rock 1	
20	Slow Rock 2	Slow Rock 2	
21	Rock & Roll	Rock & Roll	
22	Heavy Metal	Heavy Metal	
23	Blues Boogie	Blues Boogie	
24	Blues	Blues	
25	Shuffle	Shuffle	
26	Blues Shuffle	Blues Shuffle	
27	Rock Shuffle	Rock Shuffle	
28	Charleston	Charleston	
DA	NCE		
29	Disco 1	Disco 1	
30	Disco 2	Disco 2	
31	Disco Funk	Disco Funk	
32	Dance	Dance	
33	House 1	House 1	
34	House 2	House 2	
35	Rap	Rap	
36	Euro Beat	Euro Beat	
37	Нір Нор	Hip Hop	
38	Techno	Techno	
	UL & FUNK		
39	Funky Pop	Funky Pop	
40	Jazz Funk	Jazz Funk	
41	Cool Funky	Cool Funky	
42	Soul 1	Soul 1	
43	Soul 2	Soul 2	
44	Soul Shuffle	Soul Shuffle	
45	Soul Blues	Soul Blues	
46	R & B	R & B	
47	6/8 Gospel	6/8 Gospel	
48 <b>JA</b> 2	Pop Groove Pop Groove		
	T T	Curing 1	
49	Swing 1	Swing 1	

50	Cool Jazz	Cool Jazz		
51				
	Pop Swing	Pop Swing Swing Fox		
52	Swing Fox	•		
53	Big Band	Big Band		
54	Big Band Medium	Big Band Medium		
55	Jazz Waltz 1	Jazz Waltz 1		
56	Ragtime	Ragtime		
57	Dixieland	Dixieland		
58	Quick Step	Quick Step		
	UNTRY			
59	Country 1	Country 1		
60	Country 2	Country 2		
61	Pop Country	Pop Country		
62	Country Rock	Country Rock		
63	Country Folk	Country Folk		
64	3/4 Country	3/4 Country		
65	Country Waltz	Country Waltz		
66	Country Shuffle	Country Shuffle		
67	Country Boogie	Country Boogie		
68	Country Blues	Country Blues		
69	Country Quick Step	Country Quick Step		
70	Bluegrass	Bluegrass		
LA	ΓIN			
71	Bossa Nova 1	Bossa Nova 1		
72	Bossa Nova 2	Bossa Nova 2		
73	Rhumba	Rhumba		
74	Pop Rhumba	Pop Rhumba		
75	Cha Cha	Cha Cha		
76	Pop Cha Cha	Pop Cha Cha		
77	Tango	Tango		
78	Jazz Samba	Jazz Samba		
79	Reggae	Reggae		
80	Pop Reggae	Pop Reggae		
	ADITIONAL	т		
81	March 1	March 1		
82	March 2	March 2		
83	German March	German March		
84	6/8 March 1	6/8 March 1		
85	Polka	Polka		
86	Pop Polka	Pop Polka		
87	Waltz 1	Waltz 1		
88	Slow Waltz	Slow Waltz		
89	Vienna Waltz	Vienna Waltz		
90	Musette	Musette		
	.NO	widette		
91	8 Beat	8 Beat		
92	Ballad 2	Ballad 2		
93	Boogie	Boogie		
94	Jazz	Jazz		
95	Swing 2	Swing 2		
96	Jazz Waltz 2	Jazz Waltz 2		
97	Twist	Twist		
98	March	March		
99	6/8 March 2	6/8 March 2		
00				
00	Waltz 2	Waltz 2		

Na	Nome					
No.						
FAVORITE  1 The Old Gray Mare						
	· · · · · · · · · · · · · · · · · · ·					
2	In The Rain					
3	Jeanie With The Light Brown Hair					
4	American Patrol					
5	Heidenroslein					
6	Music Box Dancer					
7	Rondo					
8	The Melody Of Yesterday					
9	It's Been A Long, Long Time					
10	Chant Sans Paroles					
11	Water Music					
12	The Entertainer					
13	Огонек					
14	Five Hundred Miles					
15	Old Folks At Home					
16	O Sole Mio					
17	Sonata					
18	Allegro In bB					
19	The Red Sarafan					
20	Dance De Mirlitons					
21	Nocturne					
22	Air On The G String					
23	Canon					
24	Minuet In G					
25	Beautiful Dreamer					
FOL	K & COUNTRY					
26	Danny Boy					
27	My Bonnie					
28	Skip To My Lou					
29	Katyusha					
30	Red River Valley					
31	The Sideway					
32	Dance Of Russia					
33	House Of Rising Sun					
34	Starlight Waltz					
35	Home On The Range					
36	The Blue Bells Of Scotland					
37	Annie Laurie					
38	Trumpet					
39	Country					
40	Jambalaya					

41	Bridge				
42	Sippin' Cider Through A Straw				
JAZ	ZZ & FUSION				
43	June Samba				
44	Guitar & Saxphone				
45	The Hip Hop's Night				
46	Blue Lunch				
47	Cobweb				
48	Wine				
49	Jazz Old Man				
50	Carlos				
CHF	RISTMAS				
51	Ave Maria				
52	Joy To The World				
53	Santa Claus Is Coming To Town				
54	Silent Night				
55	Amazing Grace				
56	Oh! Susanna				
57	Battle Hymn Of The Republic				
58	Carry Me Back To Old Virginny				
59	Camptown Races				
60	Dark Eyes				
PIA	NO				
61	Fur Elise				
62	Bagatelle No. 3				
63	Musette in D				
64	Prelude in G				
65	Turkish Rondo				
66	Four Little Swans				
67	Did You Ever See A Lassie				
68	Spring				
69	Impromptu				
70	Gavotte				
71	Nocturne				
72	Pizzicato Polka				
73	Moment Musical				
74	The Rag-Time Dance				
75	All Kind Of My Everything				
76	Valse No. 6 "Petit Chien"				
77	Rondeau				
78	The Chrysanthemum				
79	Invention A 2 Voix				
80	Jesus, Saviour, Pilot Me				

# **Chord List**

No.	Chord Name/[Abbreviation]	Normal Voicing	Chord (C)	Display
0	Major [M]	1-3-5	С	С
1	Major sixth [6]	1-(3)-5-6	C6	C6
2	Major seventh [M7]	1-3-(5)-7	CM7	CM7
3	Major add ninth [Madd9]	1-2-3-5	Cmadd9	CM9
4	Augmented [aug]	1-3-#5	Caug	Caug
5	Minor [m]	1-b3-5	Cm	Cm
6	Minor sixth [m6]	1-b3-5-6	Cm6	Cm6
7	Minor seventh [m7]	1-b3-(5)-b7	Cm7	Cm7
8	Minor major ninth [mM7]	1-b3-(5)-7	CmM7	CmM7
9	Diminished [dim]	1-b3-b5	Cdim	Cdim
10	Diminished seventh [dim7]	1-b3-b5-6	Cdim7	Cdim7
11	Seventh [7]	1-3-(5)-b7	C7	C7
12	Seventh suspended fourth [7sus4]	1-4-5-b7	C7sus4	C7sus4
13	Suspended fourth [sus4]	1-4-5	Csus4	Csus4

# **MIDI Implementation Chart**

Function		Transmitted	Recognized	Remarks
Basic	Default	1ch	1-16ch	
Channel	Changed	×	×	
	Default	×	3	
Mode	Messages	×	3	
	Altered	*****	×	
Note	7.110104	0—127	0—127	
Number	True voice	******	0—127	
Velocity	Note on	○ 9nH.V=64	O 9nH.V=1-127	
	Note off	$\times$ (9nH,V=0)	×(9nH,V=0; 8nH,V=0-127)	
After Touch	Kevs	×	×	
	Chs	×	×	
Pitch Bend		×	0	
Control	0	×	0	Bank Select
Change	1	×	lo	Modulation
	5	×	0	Portamento Time
	6	×	0	Data Entry
	7	×	0	Volume
	10	×		Pan
	11	×	0	Expression
	64	×	0	Sustain Pedal
	65	×	0	Portamento ON/OFF
	66	×	0	Sostenuto Pedal
	67	×	0	Soft Pedal
	80		0	
	81	×	0	Reverb Program
		×	lo	Chorus Program
	91	×	0	Reverb Level
	93	×	Ö	Chorus Level
	120	×	0	All Sound Off
	121	×		Reset All Controllers
	123	×	0	All Notes Off
Program		O ******	0	
Change	:true		0—127	
System	Exclusive	×	×	
System	:Song Position	×	×	
Common	:Song Select	×	×	
	:Tune	×	×	
System	:Clock	×	×	
	:Commands	×	×	
Aux	:Local ON/OFF	×	×	
	:All Notes Off	×	0	
Messages	:Active Sense	×	0	
	:Reset	×	0	
Note:				

• Mode 1: OMNI ON, POLY

• Mode 2: OMNI ON, MONO

Mode 3: OMNI OFF, POLY

Mode 4: OMNI OFF, MONO

o: YES ×: NO