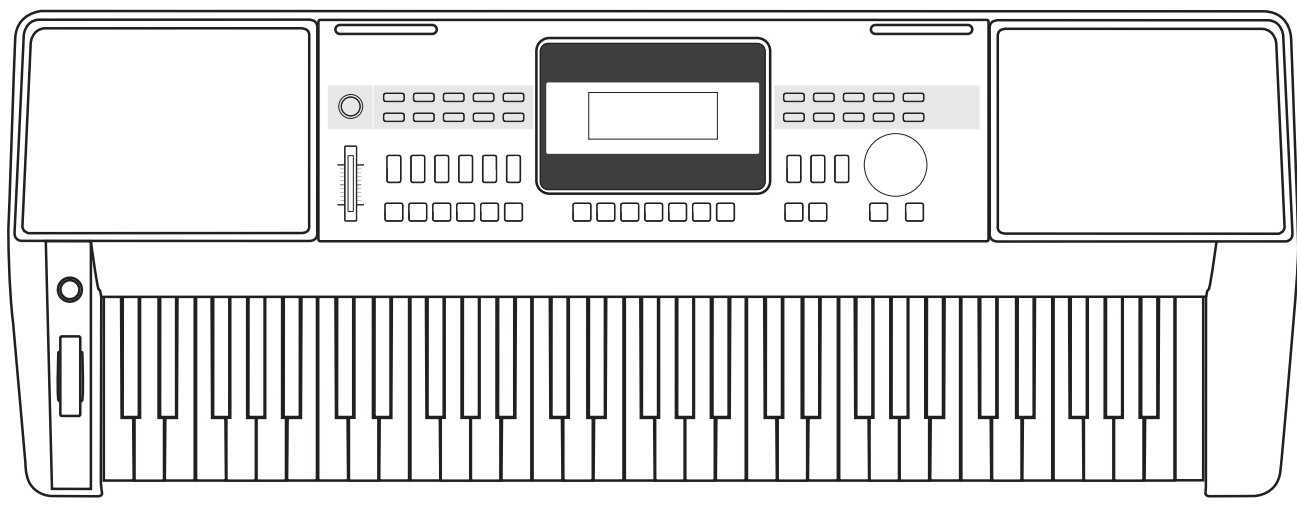# ELECTRONIC KEYBOARD

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 the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

CAUTION

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

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

Power Supply
Please connect the designated DC 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 DC 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, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

Table of Contents

Panel & Display Description

Front Panel

1. POWER SWITCH
Turn the Power on or off.

2. Style Select buttons
Directly select a preset style.

When the [SHIFT] button released

5~6. [TEMPO+/-] button
Adjust the current Tempo.

7. [METRONOME] button
Turn the metronome on or off.

8. [MIXER] button
Enter the Mixer menu.

9. [HARMONY] button
Turn the Harmony effect on or off.

15. [CHORD MODE] button
Enter the chord mode.

16. [BANK] button
Select a memory bank.

17. [STORE] button
Save current panel settings
to one of the memories.

3. [VOLUME] Slider
Adjust the master Volume.

4. [SHIFT] button
Press and hold it to access secondary
functions of other buttons.

When the [SHIFT] button pressed

5~6. [ACCOMP+/-] button
Adjust the ACCOMP volume.

7. [OCTAVE] button
Turn the Octave setting on or off.

8. [TRANSPOSE] button
Turn the Transpose setting on or off.

9. [SUSTAIN] button
Turn the Sustain function on or off.

15. [FADE] button
Turn the Fade In/Out function on or off.

16. [RECORD] button
Enter the Recording Mode.

17. [PLAY] button
Play back recordings.

In Style Mode

10. [START/ STOP] button
Start or Stop playing the style.

11. [SYNC START] button
Turn the Sync Start on or off.

12. [INTRO/ ENDING] button
Play the Intro or Ending.

13. [FILL A] button
Play the Fill-in pattern A.

14. [FILL B] button
Play the Fill-in pattern B.

In Song Mode

10. [▶/■] button
Start or Stop playing the song.

11. [▮▮] button
Pause or continue playing the song.

12. [↺] button
Set the beginning and the end for
a loop section of the current song.

13. [◀◀] button
Rewind the song.

14. [▶▶] button
Fast forward the song.

Rear Panel

35. PHONES jack
Connect a pair of headphones.
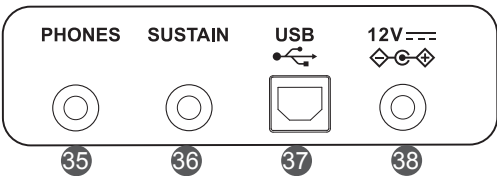
36. SUSTAIN jack
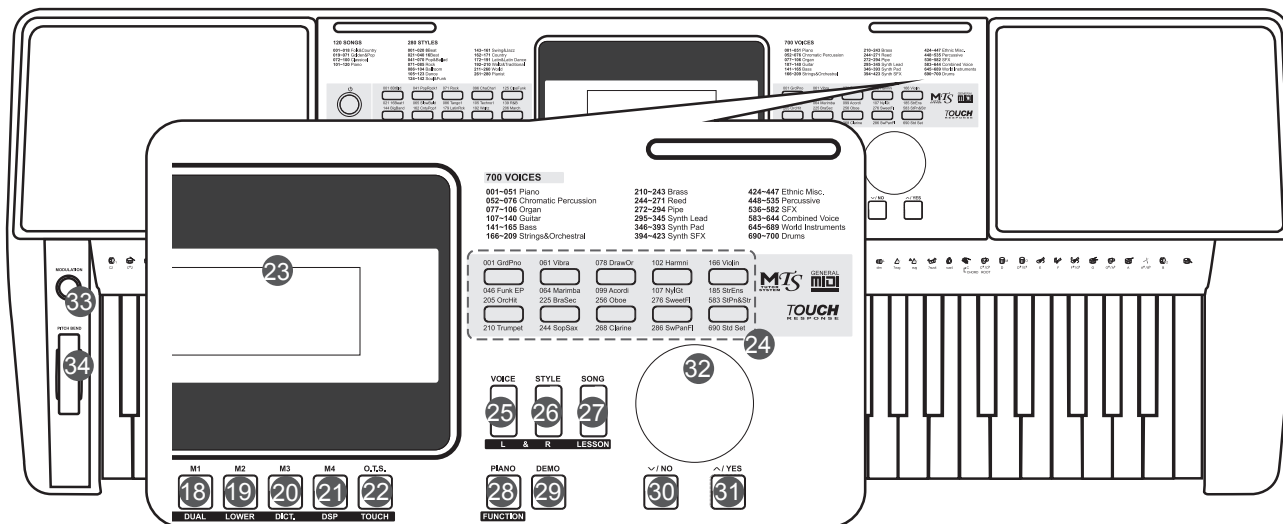Connect a sustain pedal.

37. USB terminal
Connect to a computer.

38. DC 12V jack
Connect DC 12V power adaptor.

700 VOICES
001~051 Piano
052~076 Chromatic Percussion
077~106 Organ
107~140 Guitar
141~165 Bass
166~209 Strings&Orchestral
210~243 Brass
244~271 Reed
272~294 Pipe
295~345 Synth Lead
346~393 Synth Pad
394~423 Synth SFX
424~447 Ethnic Misc.
448~535 Percussive
536~582 SFX
583~644 Combined Voice
645~689 World Instruments
690~700 Drums

23. LCD display
Display important setting information.

24. Voice Select buttons
Directly select a preset voice.

29. [DEMO] button
Switch to Demo Mode.

30 ~ 31. [+/YES]/[-/NO] button
Adjust parameter value.

32. DATA DIAL
Adjust the parameter value.

33. [MODULATION] button
Apply a vibrato effect.

34. [PITCH BEND] wheel
Bend notes up or down.

When the [SHIFT] button Released

18~21. [M1] ~ [M4] buttons
Instantly call up a panel setting.

22. [O.T.S.] button
Turn the One Touch Setting function on or off.

25. [VOICE] button
Switch to Voice Mode.

26. [STYLE] button
Switch to Style Mode.

27. [SONG] button
Enter the Song Mode.

28. [PIANO] button
Enter the Piano Mode.

When the [SHIFT] button Pressed

18. [DUAL] button
Turn the Dual function on or off.

19. [LOWER] button
Turn the Lower function on or off.

20. [DICT.] button
Enter the Chord Dictionary.

21. [DSP] button
Turn the DSP function on or off.

22. [TOUCH] button
Turn the Touch Response on or off.

25. [L] button
Choose to practice the left hand part.
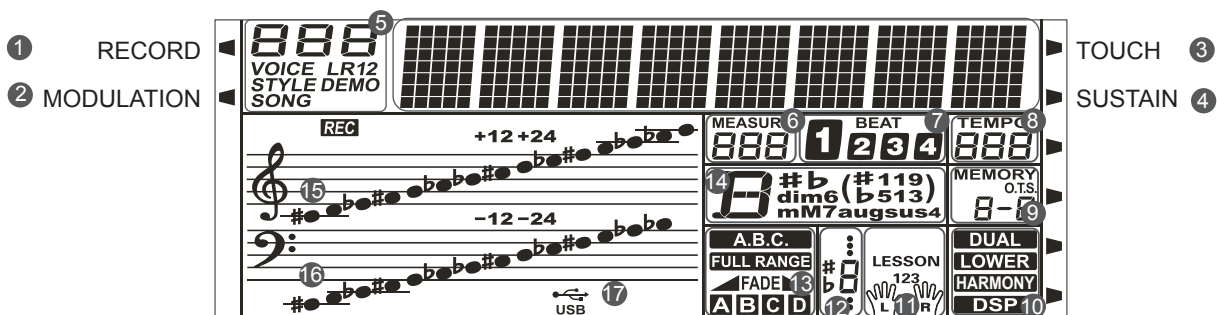
26. [R] button
Choose to practice the right hand part.

27. [LESSON] button
Enter the Lesson Mode.

28. [FUNCTION] button
Enter the Function Menu.

LCD

1. RECORD
2. MODULATION
3. TOUCH
4. SUSTAIN
5. VOICE/STYLE/DEMO/SONG
6. MEASURE
7. BEAT
8. TEMPO
9. M1-M4/ONE TOUCH SETTING
10. DUAL/ LOWER/ HARMONY/ DSP
11. LEFT/RIGHT HAND LESSON MODE
12. NUMBER MUSCIAL NOTATION
13. A.B.C. / FULL RANGE/ FADE/A/B
14. CHORD
15. TREBLE CLEF
16. BASS CLEF
17. USB

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.
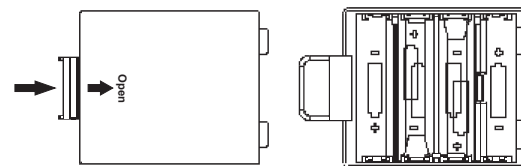
Power Supply

You can power the instrument either by batteries or by power adaptor. Before you switch your instrument on, turn down the volume of instrument and the connected audio equipment first.

Using Batteries

The instrument requires six AA size or equivalent alkaline batteries for power supply.

1. Open the battery cabinet cover located on the bottom of the instrument.

2. Insert the batteries, carefully following the polarity markings on the cabinet.

3. Replace the cabinet cover. Make sure it locks firmly in place.
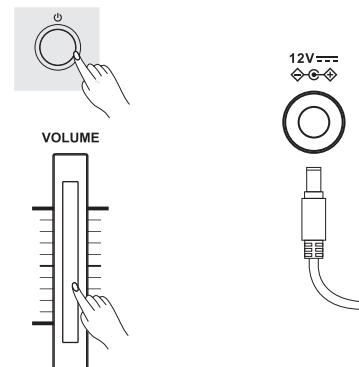
Notes:

1. Do not mix used and new batteries.
2. Always use the same types of batteries.
3. Remove the batteries when the instrument is not in use for a long period of time.

Using Power Adaptor

1. Before connecting to power supply, please set the [POWER] switch to OFF and set the master volume to minimum level.

2. Connect the power adaptor to the DC IN jack on the rear panel.

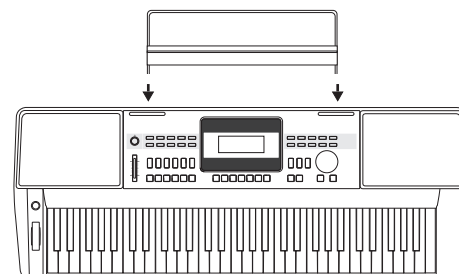*3.* Plug the power adaptor into an appropriate AC outlet.

Notes:

1. In order to save energy, the instrument will automatically shut down after 30 minutes if it is not used. (Please refer to Auto Power Off).
2. For your safety, please unplug the instrument when it is not in use or during a thunderstorm.

Setting the Music Stand

A music stand is supplied with the keyboard. You can easily attach it to the instrument by inserting it into the slots at the rear of the panel.
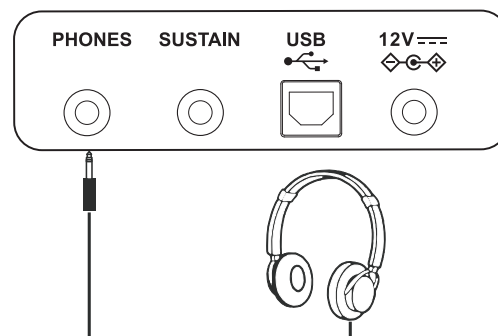
Connections

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.
When a pair of headphones is plugged in, the internal speakers will
be automatically shut off, sound can only be heard from the
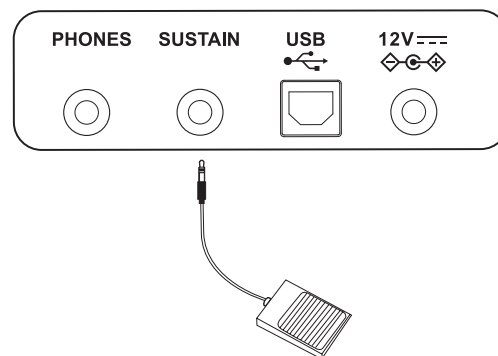headphones.

Note:

To avoid the risk of hearing loss, do not use headphones at high
volume levels for a long period of time

Connecting a Sustain Pedal

A pedal can be plugged into the sustain jack and be used to switch
sustain on or off. You can assign different functions to the connect-
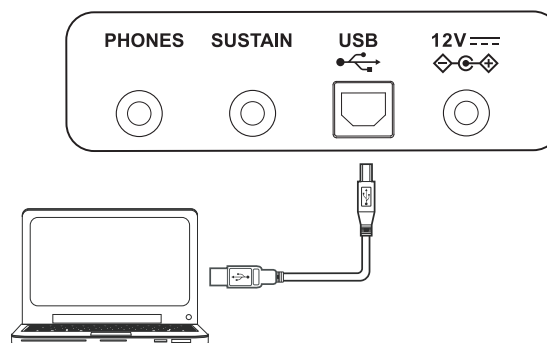ed pedal in the Function Menu. Please refer to the Function Menu
for details.

Connecting a Computer

Use a standard USB cable to connect the USB jack of the instru-
ment to the USB port of a computer. With USB, you can save a
keyboard performance to the computer or use the instrument to
play back music played on the computer.

Note:

In case the instrument does not correctly transmit messages with
the computer via a USB3.0 interface, please use a USB2.0
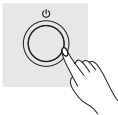interface.

Power Switch and Master Volume

Power Switch

Before connecting the power supply, please set the [POWER] switch to "OFF" and set the master volume level to minimum.

1. Make sure the instrument is properly connected to power supply.

2. Press the POWER switch, the LCD screen will be lit and display parameters, indicating the instrument is powered on.

Note:
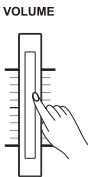If the LCD display does not light up after you turned on the instrument, please check the power connection.

Adjust the Master Volume

Move the [VOLUME] slider upwards to increase the volume level, or move the slider downwards to decrease the volume level.
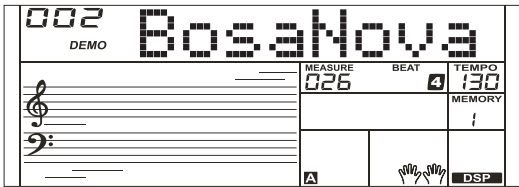
Note:
If the speakers do not produce sound, please check if the master volume is set too low or if headphones are plugged into the PHONES jack.

VOLUME

Playing Demo Songs

The instrument features several beautiful demos.
Please refer to Demo List.

1. Press the [DEMO] button to enter the demo mode and start playing all demo songs in a loop.

2. Use the data dial or the [+/Yes]/ [-/No] button to select a demo song.

3. Press the [DEMO] or [START/STOP] button to stop playing, and exit demo mode.

DEMO

002 BosaNova
DEMO
MEASURE   BEAT   TEMPO
026   4   130
                   MEMORY
                   1

A   DSP

Playing Voices

1. Press the [VOICE] button.
Enter the Voice Mode. The LCD displays the current default voice name and number.

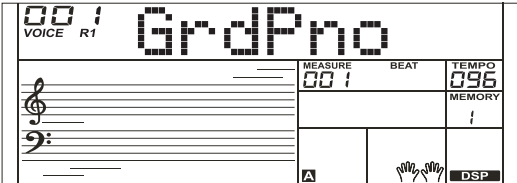**2.** Select a Voice.
Use the data dial or [+/Yes]/[-/No] button to select a desired voice. You can also use the Voice select buttons to select a voice. Each button has two preset voices. Press it repeatedly to switch between the first and the second preset voice.

3. Play the Voice.
Play the keyboard to use the selected voice for performance.

Note:
Each voice select button has two preset voices. Press the button repeatedly to switch between the upper and lower preset voice. If you select the upper voice of a button, pressing another button will also select the upper voice of that button. In the same way, if you select the lower voice of a button, pressing another button will select the lower voice of that button.

VOICE

001 GrdPno	061 Vibra	078 DrawOr	102 Harmni	166 Violin
046 Funk EP	064 Marimba	099 Acordi	107 NylGt	185 StrEns
205 OrcHit	225 BraSec	256 Oboe	276 SweetFl	583 StPn&Str
210 Trumpet	244 SopSax	268 Clarine	286 SwPanFl	690 Std Set

`001` **VOICE R1** `GrdPno`
MEASURE `001` BEAT TEMPO `096` MEMORY `1`

Playing Styles

1. Press the [STYLE] button.
Enter the Style Mode. The LCD displays the current default style name and number.

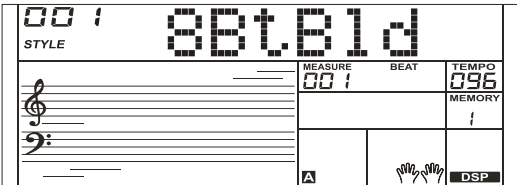**2.** Select a Style.
Use the data dial or [+/Yes]/[-/No] button to select a desired style. You can also use the Style select buttons to select a style. Each button has two preset styles. Press it repeatedly to switch between the first and the second preset style.

3. Play the Style.
Press the [START/STOP] button to start playing a rhythm.
Or you can press the [SYNC START] button, and press any keys to start the rhythm playing.

Note:
Each style select button has two preset styles. Press the button repeatedly to switch between the upper and lower preset style. If you select the upper style of a button, pressing another button will also select the upper style of that button. In the same way, if you select the lower style of a button, pressing another button will select the lower style of that button.
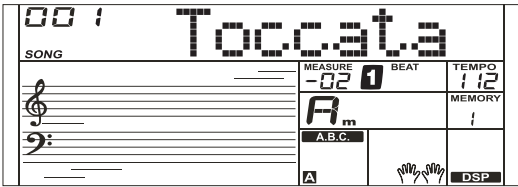
STYLE

001 8BtBld	041 PopRock1	071 Rock	096 ChaCha1	125 ClasFunk
021 16Beat1	065 SlowBald	086 Tango1	105 Techno1	139 R&B
144 BigBand	162 CntyPop1	179 LatinRck	192 Waltz	206 March
148 Swing	173 BosaNov	186 Rumba3	201 Polka	259 Oriental

`001` **STYLE** `8Bt.Bld`
MEASURE `001` BEAT TEMPO `096` MEMORY `1`

Playing Songs

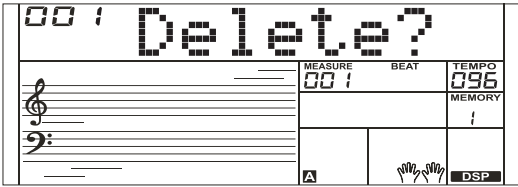This instrument features a variety of preset songs, and each song can be practiced in Lesson Mode.

1. Press the [SONG] button.
Enter the song mode. It will play all songs circularly.

2. Select a song.
Use the data dial or the [+/YES]/ [-/NO] button to select the song you want to play.

3. Press the [START/STOP] button.
It will stop song playback. Press it again, it will play the current song repeatedly.

4. When song playback is stopped, press the [STYLE] or [VOICE] button to exit the song mode.

Recording

You can record your performance and save it to a user song.

1. Press and hold [SHIFT], then press the [RECORD] button to enter the user song menu. Then use the data dial or the [+/YES]/[-/NO] button to select a user song to which your recording will be saved.

2. Press and hold [SHIFT], then press the [RECORD] button to enter recording standby mode. You can select the desired voice, style etc. for recording.

3. Press the [START/STOP] button or play the keyboard to start recording.

4. During recording, press and hold [SHIFT], then press the [RECORD] button to exit recording.

5. When exit recording, press and hold [SHIFT], then press the [PLAY] button to enter the play menu. Use the data dial or the [+/YES]/[-/NO] button to select a user song. Again press and hold [SHIFT], then press the [PLAY] button to play back the selected user song.

6. During playback, press and hold [SHIFT], then press the [PLAY] button to exit the playback.

7. In the play menu, press and hold [SHIFT], then press the [RECORD] button, it will prompt "Delete?". You can press [+/YES] to delete the current user song, or press [-/NO] to cancel and go back to the play menu.
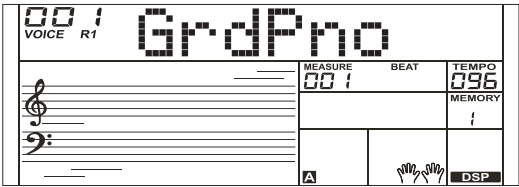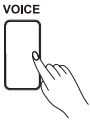
10

Playing the Voices

The instrument features a variety of exceptionally realistic voices. Please refer to the Voice List.

Selecting a Voice

When power on, the "VOICE R1" icon will be lit and the LCD will display the current voice name and number.

Use the data dial or [+/YES]/ [-/NO] button to select a desired voice. You can also use the Voice select buttons to select a preset voice.

Note:
when the dual and lower function are in use, you can press the [VOICE] button repeatedly to switch between Voice R1, R2 and L.

Playing Two Voice Simultaneously

The dual function allows two different voices to be layered together, creating a much richer sound. Turn the function on, you can select a voice for the dual voice "R2".

1. Press and hold [SHIFT], then press the [DUAL] button to turn on the dual function. The "DUAL" and "VOICE R2" icons light up and the LCD shows the current dual voice number and name.

Use the data dial or [+/Yes]/[-/No] button to select a dual voice. Or press one of the Voice select buttons to select a preset voice.

2. In dual mode, press and hold [SHIFT], then press the [DUAL] button to turn off the dual function. The "DUAL" and "VOICE R2" icons become unlit.

Note:
When the lower and dual functions are in use, only the right hand area will play the dual voice.

Playing Different Voices with Both Hands

The lower function splits the keyboard into the left and the right hand areas, each playing a different voice. The left hand voice is the lower voice "L".

The default split point is F#3 (19) , however you can assign it to any other key. Please refer to the Function Menu.

1. Press and hold [SHIFT], then press the [LOWER] button to turn on the Lower function. The "LOWER" and "L" icons light up and the LCD shows the current lower voice number and name.

2. Use the data dial or [+/Yes]/[-/No] button to select a lower voice. Or press one of the Voice select buttons to select a preset voice.

3. In lower mode, press and hold [SHIFT], then press the [LOWER] button to turn off the lower function. The "LOWER" and "VOICE L" icons become unlit.
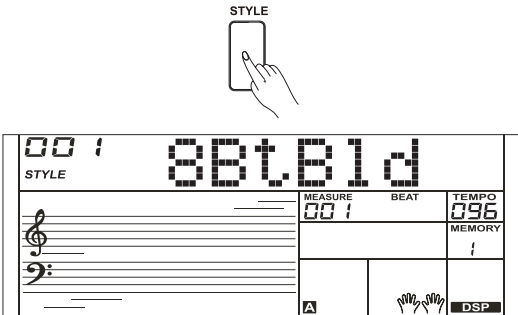
Auto Accompaniment

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is to play the chords with your left hand using your selected accompaniment style, and then the accompaniment will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra. The instrument features a variety of styles, please refer to the Style List. Try selecting the different styles and enjoy the auto accompaniment.

Play Auto Accompaniment (rhythm track only)

1. Press [STYLE] button.
Enter the style mode. The "STYLE" icon will light up. The LCD displays the name and number of the current style.

2. Select a style.
Use the data dial or [+/Yes]/[-/No] button to select a desired style. Or press one of the Style select buttons to select a preset style.

3. Start playing a style.
Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment. Also you can press [SYNC START] and then play any key to start the rhythm tracks of the auto accompaniment.

Play Auto Accompaniment (all tracks)

1. Turn on the auto accompaniment function.
Press the [CHORD MODE] button to turn on the A.B.C. function. The "A.B.C" indicator will be lit. The keyboard is split and the left hand area is the chord section. You can play different chords in the chord section.

Press the [CHORD MODE] button again to enter full range mode. The "FULL RANGE" indicator will be lit. You can play chords over the entire keyboard in multi-fingering.

2. Play auto accompaniment of all tracks.
Press the [SYNC START] button, then play a chord in the chord area to start the auto accompaniment. When you play a different chord, the accompaniment will change along.

Alternatively, press the [START/STOP] button to start the rhythm part. Then play a chord in the chord section, the chord part will start as well.

Accompaniment Sections

Specially created sections can be added into the accompaniment, making your performance more professional and personalized.

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

MAIN Section
The Main is the principal section of a song. It will play and repeat the Main pattern until another section's button is pressed.
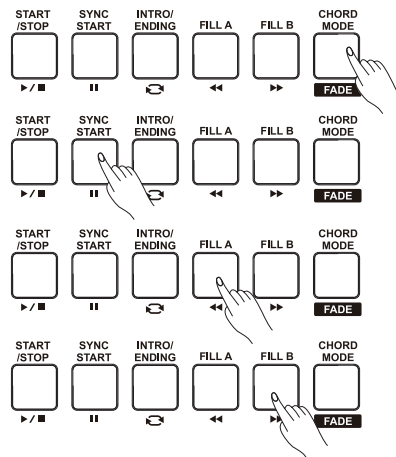
12

FILL IN Section

Auto fill in function automatically adds a fill to your performance. When the fill-in is finished,accompaniment shifts to the Main section.

ENDING Section

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

Playing Different Accompaniment Sections

1. Press the [STYLE] button.

2. Press a Style select button, data dial or [+/YES]/ [-/NO] button to select a style.

3. Press [CHORD MODE] button to enter A.B.C. mode.

4. Press [SYNC START] button.

5. Press the [FILL A] button, select the Main A section.

6. Press the [INTRO/ENDING] button. Now the "A" indicator flashes on LCD, and the style is ready to play.

7. It will start the accompaniment as soon as you start playing in Chord section. When the playback of the intro is finished, it automatically leads into Main A section.

8. Press the [FILL B] button. A fill-in plays, automatically followed by the Main B section.

9. Press the [INTRO/ENDING] button to play an ending. When the ending is finished, the auto accompaniment automatically stops.

Fade

1. Fade In

When style is stopped, press and hold [SHIFT], then press the [FADE] button to turn on the fade-in function. When style starts playing, the volume will increase from low to high and the "◢FADE" icon will flash along.

2. Fade Out

During style playback, press and hold [SHIFT], then press the [FADE] button to turn on the fade-out function. The volume will decrease from high to low and the "FADE◥" icon will flash along until the style is stopped.

3. Fade In/ Out Time

The default time value is 10 seconds.

Accompaniment Volume Control

The function will adjust the accompaniment volume, so as to keep an appropriate balance between the accompaniment volume and the voice volume.

1. Press and hold [SHIFT], then press the [ACCOMP +]/[ACCOMP -] button to set accompaniment volume over the range of 0~32. The LCD displays the current volume level.

2. Press and hold [SHIFT], then hold down the [ACCOMP +]/ [ACCOMP -] to make a quick change in the value.

3. When LCD displays the volume level, press and hold [SHIFT], then press the [ACCOMP +] and [ACCOMP -] buttons simultaneously to mute the accompaniment part. The LCD displays "OFF Accomp". Do the operation again to turn on the accompaniment volume.

Note:

It will automatically exit the setting if there is no operation in 5 seconds.

Auto Accompaniment

Chord Basics

A chord, in music, is a harmonic set of three or more notes that are heard simultaneously. The most common type of chord is a triad. A triad is a set of three notes that can be stacked in thirds. When arranged this way, the triad's notes, from lowest pitched to highest, are called: the Root, the Third, and the Fifth.

Triad Type

The basic triad types are as follows:

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

Chord Inversion

When a chord's root is not the lowest note in the triad, it is called an inversion chord. When the root note is the lowest note, it is called a root-position chord. If we put the Third and Fifth in the root position, it forms an "Inversion", so it is called an "Inverted Chord". A major triad and its inversion are illustrated on the right.

Chord Name

The chord name consists of two parts: Chord root and Chord type.

Single Finger

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

Multi-finger

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

Full Range

In Full Range mode, it detects chords played in normal fingering (Multi-finger) over the entire keyboard range.

Fifth **Root** **Third**

Major Triad   **Minor Triad**

Diminished Triad   **Augmented Triad**

Root Position **First Inversion** **Second Inversion**

Cm

Chord Root   **Chord Type**

C ★**Major Triad**
Only press the root note on the keyboard.

Cm ★**Minor Triad**
Press the root note and the nearest left black key simultaneously.

C7 ★**Seventh chord**
Press the root note and the nearest left white key simultaneously.

Cm7 ★**Minor seventh chord**
Press the root note and the nearest left white and black keys simultaneously.

0 C	1 C6	2 CM7	3 CM7(#11)	4 CM(9)	5 CM7(9)
6 C6(9)	7 Caug	8 Cm	9 Cm6	10 Cm7	11 Cm7(b5)
12 Cm(9)	13 Cm7(9)	14 Cm7(11)	15 CmM7	16 CmM7(9)	17 Cdim
18 Cdim7	19 C7	20 C7sus4	21 C7(b5)	22 C7(9)	23 C7(#11)
24 C7(13)	25 C7(b9)	26 C7(b13)	27 C7(#9)	28 CM7aug	29 C7aug
30 Csus4	31 C1+2+5				

Notes enclosed in parentheses are optional; the chords could be recognized without them.
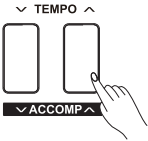
Auto Accompaniment

Tempo

Each style is preset with a default or standard tempo, however, you can change it as needed.

1. Press the [TEMPO+]/ [TEMPO-] button to change the current tempo. Alternatively, when the tempo is flashing on LCD, use the data dial to make a quick change in the value.

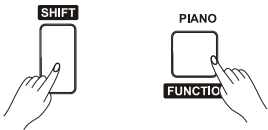**2.** Press the [TEMPO+] and [TEMPO-] buttons simultaneously to reset the tempo to the default value.

Note:
When style stops, changing the style will automatically reset the tempo. However, changing the style during style playback will not result in tempo change

15

Function Menu

Press and hold the [SHIFT] button and then press the [FUNCTION] button to enter function menu. The LCD displays the current function menu option. Use [+/YES]/ [-/NO] button to set parameter of the current option.

Detailed parameters and their ranges:

No.	Parameter	LCD display	Range	Default
1	Tune	XXX Tune	-50 ~ +50	0
2	Split Point	XXX Split Pt	1 - 61	19
3	Beat Type	XXX Beat	0, 2 - 9	4
4	Pedal Type	XXX Ped XXX	Ped Sust, Ped Soft, Ped Mem, Ped St/S	Ped Sust
5	EQ Type	XXX EQ XXX	EQ Pop, EQ Rock, EQ Class, EQ Jazz, EQ Dance, EQ Reset	EQ Reset
6	Reverb Type	XXX RevHall1	RevRoom1, RevRoom2, RevRoom3, RevHall1, RevHall2, RevHall3, RevChrh1, RevChrh2, RevDelay, RevPnDly	RevHall1
7	Reverb Level	XXX Rev Lev	0 - 32	23
8	Chorus Type	XXX ChrGMCr2	ChrChrs1, ChrChrs2, ChrGMCr1, ChrGMCr2, ChrFlgr1, ChrFlgr2, ChrRtry1, ChrRtry2	ChrGMCr2
9	Chorus Level	XXX Chr Lev	0 - 32	0
10	Harmony Type	XXX HrmDuet	HrmDuet, HrmStdTri, HrmFulCd, HrmRkDut, HrmCtDut, HrmCtTri, HrmBlock, Hrm4Cls1, Hrm4Cls2, Hrm4Open, Hrm1+5, HrmOctv1, HrmOctv2, HrmStrum	HrmDuet
11	MIDI In	XXX Midi In	01 - 16, ALL	ALL
12	MIDI Out	XXX Midi Out	01 - 16	01
13	Auto Power Off	XXX PowerOff	30, 60, OFF	30

Note:
It will exit the function menu if there is no operation in 5 seconds.

Tune
This function sets the pitch of entire keyboard by steps of cents.

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select the tune menu. The LCD displays "xxx Tune".
Use [+/YES]/ [-/NO] button or data dial to change tune value. Its range is from -50 to 50 cents.

2. Press [+/YES] and [-/NO] buttons simultaneously to set the tune value to its default setting: 0.

3. The setting is applied to both accompaniment and the voice.

Split Point
This function assigns a key to split the entire keyboard into two areas.

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select split point menu. The LCD displays "xxx Split Pt". Use [+/YES]/ [-/NO] button or data dial to change Split Point.

2. Press [+] and [-] buttons simultaneously to set the split point value to its default setting.

Note:
The Split point belongs to the left hand area.

Beat Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select beat type menu. The LCD displays "xxx Beat".
Use [+/YES]/ [-/NO] button or data dial to change beat type. The range of beat type: 0, 2~9.

2. Press [+/YES] and [-/NO] buttons simultaneously will set the beat type value to its default setting: 4.
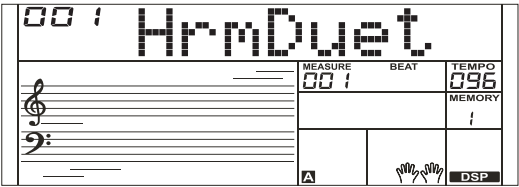
Pedal Type

1. Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select pedal type menu. The LCD displays "001 Ped Sust".
Use [+/YES]/ [-/NO] button or data dial to change pedal type.

2. There are 4 types of pedal functions available. Default is Ped Sust.

No.	LCD Display	Pedal Function
1	Ped Sust	Sustain Pedal
2	Ped Soft	Soft Pedal
3	Ped Mem	Memory Switch Pedal
4	Ped St/S	Start/Stop Pedal

Notes:
1. This instrument will automatically detect the type of the pedal when power on.
2. Do not press the pedal when turning the instrument on, other wise, the pedal function will be inverted.

EQ Type

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select the EQ type menu. The LCD displays "006 EQ Reset".
Use [+/YES]/ [-/NO] button or data dial to change EQ type.

There are 6 EQ types available.

No.	LCD Display	EQ Type
1	EQ Pop	Pop
2	EQ Rock	Rock
3	EQ Class	Classical
4	EQ Jazz	Jazz
5	EQ Dance	Dance
6	EQ Reset	Reset

Function Menu

Reverb Type

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select reverb type menu. The LCD displays "004 RevHall1".

Use [+/YES]/ [-/NO] button or data dial to change reverb type. The default setting is Hall 1.

No.	LCD Display	Reverb Type
1	RevRoom1	Room 1
2	RevRoom2	Room 2
3	RevRoom3	Room 3
4	RevHall1	Hall 1
5	RevHall2	Hall 2
6	RevHall3	Hall 3
7	RevChrh1	Church 1
8	RevChrh2	Church 2
9	RevDelay	Delay
10	RevPnDly	Pan Delay

Reverb Level

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select reverb level. The LCD displays "xxx Rev Lev", adjustable range is: 0-32.

Use the [+/YES]/ [-/NO] button or data dial to change reverb level, press the [+/YES] and [-/NO] buttons simultaneously to restore its default setting: 23.

Chorus Type

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select chorus type menu. The LCD displays "004 ChrGMCr2", Use the [+/YES]/ [-/NO] button or data dial to change chorus type, the default setting is GM Chorus 2.

NO.	LCD Display	Chorus Type
1	ChrChrs1	Chorus 1
2	ChrChrs2	Chorus 2
3	ChrGMCr1	GM Chorus 1
4	ChrGMCr2	GM Chorus 2
5	ChrFlgr1	Flanger 1
6	ChrFlgr2	Flanger 2
7	ChrRtry1	Rotary 1
8	ChrRtry2	Rotary 2

Chorus Level

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select chorus level menu. The LCD displays "xxx Chr Lev", adjustable range: 0-32.

Use the [+/YES]/ [-/NO] button or data dial to change chorus level. Press the [+/YES] and [-/NO] buttons simultaneously to restore its default setting: 0.

18

Harmony Type

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select harmony type menu. The LCD displays "001 HrmDuet".
Use [+/YES]/ [-/NO] button or data dial to change harmony type.
The harmony types are as follows:

No.	LCD Display	Harmony Type
1	HrmDuet	Duet
2	HrmStdTri	StandardTrio
3	HrmFulCd	Full Chord
4	HrmRkDut	Rock Duet
5	HrmCtDut	Country Duet
6	HrmCtTri	Country Trio
7	HrmBlock	Block
8	Hrm4Cls1	4 Close 1
9	Hrm4Cls2	4 Close 2
10	Hrm4Open	4 Open
11	Hrm1+5	1+5
12	HrmOctv1	Octave 1
13	HrmOctv2	Octave 2
14	HrmStrum	Strum

Press [+/YES] and [-/NO] buttons simultaneously to restore its default setting: Hrm Duet.

MIDI IN/ OUT

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select MIDI in/ out menu. The LCD displays "xxx Midi In"/ "xxx Midi Out".

1. Use [+/YES]/ [-/NO] button or data dial to change MIDI in channel: 1~16, ALL. Press [+/YES] and [-/NO] buttons simultaneously to restore MIDI in channel to its default setting: ALL.

2. Use [+/YES]/ [-/NO] button or data dial to change MIDI out channel: 1~16. Press [+/YES] and [-/NO] buttons simultaneously to restore MIDI out channel to its default setting: 1.

Auto Power Off

Press and hold the [SHIFT] button and then repeatedly press the [FUNCTION] button to select auto power off menu. The LCD displays "xxx PowerOff".

Use [+/YES]/ [-/NO] button or data dial to change the time setting: 30 minutes, 60 minutes or OFF. The default setting is: 30 minutes.

Mixer

Mixer function adjusts separately the volume of different tracks.

1. Press the [MIXER] button to enter the mixer menu. The LCD displays "030 Rhythm_s" for the initial time when power on. Next time when you enter the mixer menu, it will show the same option of your last operation.

2. Repeatedly press the [MIXER] button to select an option. Use [+/YES]/ [-/NO] button or data dial to change the value.

Detailed parameters and their volume ranges:

Content	LCD Display	Range	Default Value
Adjust the Rhythm track volume.	XXX Rhythm_s	0-32	30
Adjust the Percussion track volume.	XXX Rhythm_m	0-32	30
Adjust the Bass track volume.	XXX Bass	0-32	27
Adjust the Chord 1 track volume.	XXX Chord1	0-32	30
Adjust the Chord 2 track volume.	XXX Chord2	0-32	30
Adjust the Chord 3 track volume.	XXX Chord3	0-32	30
Adjust the Phrase 1 track volume.	XXX Phrase1	0-32	30
Adjust the Phrase 2 track volume.	XXX Phrase2	0-32	30
Adjust the Upper 1 track volume.	XXX Upper 1	0-32	30
Adjust the Upper 2 track volume.	XXX Upper 2	0-32	22
Adjust the Lower track volume.	XXX Lower	0-32	20

Note:
It will exit the mixer menu if there is no operation in 5 seconds.

20

Octave

Press and hold the [SHIFT] button and then press the [OCTAVE] button to select octave menu. The LCD displays "xxx Octave". Use [+/YES]/ [-/NO] button or data dial to change octave value, adjustable range is: -2 ~ +2. Press the [+/YES] and [-/NO] buttons simultaneously to restore default setting: 0.

Touch

The touch function lets you dynamically and expressively controls the level of the voice with your playing strength – just as on an acoustic instrument.

1. Press and hold the [SHIFT] button and then press the [TOUCH] button to enter touch menu. The LCD displays "xxx Touch".

2. Use [+/YES]/ [-/NO] button or data dial to change touch response level. Default level of touch response is 3.

3. If the value is set to OFF, that means no touch response to keyboard.

Metronome

The metronome provides a steady beat to help you practice at a preset tempo. Press [METRONOME] button to start the metronome.

To stop the metronome, press the [METRONOME] button again. (The metronome type can be set in the function menu.)

Note:
If you turn on the metronome during style playback, the metronome sound will start from the next beat. Its time signature and tempo will be reset to match the current style.

Sustain

1. Press and hold the [SHIFT] button and then press the [SUSTAIN] button to start sustain function.
The sustain icon lights up on LCD. The notes you play on the keyboard will have a longer sustain.

2. To stop the sustain function, press and hold the [SHIFT] button and then press the [SUSTAIN] button again. The sustain icon goes out.

Note:
To have a better sustain effect, you can use a sustain pedal. (Refer to pedal function for more details.)

21

Effect Related Settings

Pitch Bend
Use the pitch bend wheel to bend notes up (roll the wheel away from you) or down (roll the wheel toward you) while playing the keyboard. The pitch bend wheel is self-centering and will automatically return to normal pitch when released.

With the pitch bend wheel, you can easily imitate the pitch bend effect of the guitar, violin, saxophone or other instruments, and make your performance more vivid.

Modulation
Press the [MODULATION] button to add a vibrato effect to the notes played on the keyboard. Release the button to stop the effect. The modulation effect plays an important part in the string performance such as urheen, guitar, and violin, greatly enriching your performance.

DSP
The DSP simulates sounds in real environment. With the DSP effects, you can add ambiance and depth to your performance in a variety of ways.

1. If the DSP effect is disabled, you can press and hold [SHIFT] , then press the [DSP] button to turn it on. The DSP icon will be lit. The DSP is turned on by default when power on.

2. To disable the DSP effect, press and hold [SHIFT], then press the [DSP] button. The DSP icon becomes unlit.

Transpose
Press and hold the [SHIFT] button and then press the [TRANSPOSE] button to enter the transpose menu. LCD displays "xxx Transpos". Use [+/YES]/ [-/NO] button or data dial to change transpose value, adjustable range:-12~ +12, the default value is: 0.

Harmony
The harmony function will automatically add harmony notes to the notes played in the right-hand section, which gives you a rich and harmonic expression.

1. Press the [HARMONY] button to turn the harmony effect on.

2. Press the [CHORD MODE] button to turn on the A.B.C. function.

3. Play a chord with your left hand.

4. Play in the right hand area, it will add harmony effect to the notes you play.

Notes:
1. Harmony function is not available when Full Range mode is in use.
2. Harmony types "Hrm1+5", "HrmOctv1" and "HrmOctv2" are always available, but the rest are not selectable until the A.B.C is turned on.

22

Register Memory

This function is designed to make your performance easy and efficient. It allows you to save virtually all panel settings to a single registration memory for instant recall.

Registration Banks
There are 12 memory banks, and each bank has 4 memories (M1-M4). Press the [BANK] button to select a bank over the range of 1 ~ 12. The LCD displays "xxx Mem Bank".

Registering the Panel Setting and Recalling the Registered Panel Settings
1. Press and hold the [STORE] button, then press one of the [M1]-[M4] buttons, it will save the current panel settings to the selected memory. **Note:** The operation will overwrite the previous data.

2. Press one of [M1] - [M4] buttons, it will instantly recall the settings saved in the memory and set the control panel accordingly.

Registrable Parameters
You can store the following parameters to M1-M4: voice R1, voice R2, voice L, style, tempo, function menu, mixer settings.

Notes:
1. After recalling a memory, if you change the related panel settings, the current memory number will be cleared.
2. The stored parameters will not be lost after power off.

One Touch Setting

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

1. Press the [O.T.S.] button to turns on the One Touch Setting function. The LCD displays "O.T.S. ". Press one of the One Touch Setting buttons [M1]-[M4].Various panel settings (such as voice, effect, etc.) that match the selected style can be instantly recalled. In O.T.S. mode, it automatically turns on the A.B.C. function and disables the dual and lower function.

2. In O.T.S. mode, if you press the [O.T.S.] button, it will switch to register memory. The "O.T.S." indicator goes out and the "MEMORY" indicator will be lit.

3. One Touch Setting parameters include:
Voice (Volume, Pan, Octave)
Dual (Volume, Pan, Octave)
Left Hand (Volume, Pan, Octave)

Note:
The O.T.S. is automatically turned off when you enter the song mode.

23

Recording

You can record in real time and save your keyboard performance as a user song on the instrument.

Prepare Recording

1. Before you start recording, you need to select a user song to which the recording will be saved.

2. Press and hold [SHIFT], then press the [RECORD] button to enter the user song menu. The "REC" indicator will be lit. Use the data dial or the [+/YES]/[-/NO] button to select a user song. If the selected user song is blank, the LCD will display "NoFileX". If the user song you select has data, the LCD will display "xxx RecSngX", such as "001 RecSng1".

3. Press and hold [SHIFT], then press the [RECORD] button to enter recording standby mode. The "REC" indicator and the beats start flashing. You can select the desired voice, style etc. for recording.

4. In recording standby mode, you can press and hold [SHIFT], then press the [RECORD] button to exit the record mode.

Note:
If the selected user song has data, after recording, the previous data will be replaced.

Start Recording

1. In recording standby mode, press the [START/STOP] button to start recording. The beats on LCD will flash in circle, and the measure starts to count. You can press the [STAR/ STOP] button to start or stop playing the style.

2. Alternatively, you can play the keyboard to start recording. If the A.B.C. function is turned on, playing the keys in the left hand section will start chord accompaniment.
In recording standby mode, if the A.B.C. function is not in use, you can press the [START/ STOP] button twice to start playing the style.

3. In record mode, the [SYNC START] button is not selectable.

Stop Recording

Manually Stop Recording
Press and hold the [SHIFT] button and then press the [RECORD] button to stop recording. The "REC" icon and the beats become unlit.

Automatically Stop Recoding
1. When recording is in process, if the memory is full, the recording will stop and save automatically.

2. During recording, if the style is playing, you can press the [INTRO/ ENDING] button to play an ending. Recording will automatically stop when the ending section is finished.

24

Playback Recording

1. Press and hold [SHIFT], then press [PLAY] to enter the play menu. Use the data dial or [+/YES]/ [-/NO] button to select a user song to play. If the user song has data, LCD will display "XXX PlySngX", such as "001 PlySng1". If the user song is blank, LCD will display "XXX NofileX".

2. Press and hold the [SHIFT] button and then press the [PLAY] button to play back the user song.

3. To stop the playback, press and hold the [SHIFT] button and then press the [PLAY] button.

Delete User Song

1. Press and hold [RECORD] and [PLAY] buttons, then turn on the instrument, all user songs will be cleared.

2. In the play menu, press and hold [SHIFT], then press the [RECORD] button, LCD will prompt "Delete?". Press [+/YES] to delete the user song, or press [-/NO] to cancel.

Note:
The user songs saved on the instrument will not be lost after power off.

Playing the Demo Songs

This instrument features several wonderful demos. Please refer to Demo List.

1. Press the [DEMO] button, the DEMO icon is lit, all demo songs will start playing in a continuous loop.

2. Use [+/YES]/ [-/NO] button or data dial to select a demo song. Press the [DEMO] or [START/STOP] button to stop playing and exit the demo mode.

Note:
During demo playback, only the following buttons will work: [DEMO], [START/STOP], [+/YES], [-/NO] button, [TEMPO +], [TEMPO -], data dial, [VOLUME] slider and POWER SWITCH.

Piano Mode

By pressing the [PIANO] button, the instrument replicates a concert grand voice. All parameters become optimized for piano performance.

1. Press the [PIANO] button to enter or exit piano mode.

2. In piano mode, the accompaniment control is the same as other mode. The accompaniment only plays the rhythm part

Note:
In piano mode, you can enter the mixer menu and the function menu.

Song

The instrument features a variety of preset songs. These songs can be practiced in lesson mode. Please refer to the Song List.

Listening to the Songs

1. Press the [SONG] button to enter the song mode. All songs will be played circularly.

2. Use the [+/YES]/ [-/NO] button to select a song

3. During song playback, press the [SONG] or [START/STOP] button to stop the playback, then press the [START/STOP] button again to play the current song in a loop.

4. When the song is stopped, pressing the [STYLE] or [VOICE] button will exit the song mode.

Song Control

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

2. REW, FF and PAUSE
When the song is playing:
Press the [▶▶] button to fast forward the song.
Press the [◀◀] button to rewind the song (base on the measure).
Press the [‖] button to pause the playing song, press it again to continue playing.

3. Song Repeat
When playing the song, press the [↺] once to set the beginning of a loop section. Then press it again to set the loop end. During loop playback, press this button again to quit the loop and go back to song playback.

26

Lesson Mode
The buttons related to lesson mode are [SHIFT] + [LESSON], [SHIFT] + [L], [SHIFT] + [R] and [SHIFT] + [L] + [R].

1. Enter the lesson mode
While the song is stop playing, holding down the [SHIFT] button and press the [LESSON] button.

2. Select a hand part to practice.
Press and hold [SHIFT], then press the [L] button to select to practice the left hand part.
Press and hold [SHIFT], then press the [R] button to practice the right hand part.
Press and hold [SHIFT], then press the [L] and [R] buttons to practice both hands.

3. Press the [START/STOP] to start the lesson.

Notes:
1. The left hand part may differ depending on the song type. Some songs may not have lessons for the left hand part.
2. When the lesson is finished, your performance will be evaluated. However, no evaluation will be given if you stop half way.
3. LCD will display notes on the staff during song playback.

Lesson 1 - Practice timing
When song stops, press and hold [SHIFT], then press the [LESSON] button to enter the lesson 1 mode. The "LESSON 1" icon will be lit on LCD.

In Lesson 1, you will learn to play at the correct time value. As long as you play a key at the right time, the correct note will sound.

Lesson 2 - Practice note accuracy
When song stops, press and hold [SHIFT], then press the [LESSON] button a second time to enter lesson 2 mode. The "LESSON 2" icon will be lit.

In Lesson 2, you will learn to play the correct notes. The lesson will continue only when you have played the note displayed on LCD, otherwise the song will stop and wait.

Note:
In lesson 2, notes will not sound unless you have played the right keys.

Lesson 3 - Performance
When song stops, press and hold [SHIFT], then press the [LESSON] button a third time to enter lesson 3 mode.

In lesson 3, you will learn to play the correct notes at the correct time value. An evaluation will be given, based on the correctness of both the notes and the timing.

Performance Evaluation
Each time when you finish a lesson, your performance will be evaluated. The instrument will show the evaluation result "Try Again", "Good", "Very Good" and "Excellent".

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.

DICT 1 (Chord Learning Mode)
Press and hold [SHIFT], then press the [DICT.] button to enter DICT. 1 mode. The LCD shows "Dict.1". The A.B.C. function is automatically turned on.
Use the keys C4~B5 to assign the chord type, and the keys C6~B6 to assign the chord root. When the chord type and chord root are assigned, the LCD will show the chord name and chord notes. Try playing this chord in the left hand area.

DICT 2 (Chord Testing Mode)
In DICT 1 mode, press and hold the [SHIFT] button and then press the [DICT.] button to enter the DICT 2 mode. In DICT 2, you can have a chord test. LCD will display a chord name in random order. If the chord fails to be played within 3 seconds, its notes will appear on LCD. Once the chord is played correctly, a new chord name will appear after a few seconds.

You can press the [+/YES]/ [-/NO] to display a different chord name. The right hand section of the keyboard is not available.

Exit Chord Dictionary
In DICT 2 mode, press and hold the [SHIFT] button and then press the [DICT.] button again to turn off chord dictionary.

Note:
The instrument will no produce sound when using the right hand area to assign the chord type and chord root. When you play the chord correctly in the left hand area, the instrument will produce a correct sound. But if the chord is not correctly played, the instrument will play back the chord sound instead.

24 Chords will be displayed in the dictionary mode as follows:

Note	Chord Root	Note	Chord Root	Note	Chord Root
C6	C	C4	M	C5	7(b9)
C#6	C#/Db	C#4	M(9)	C#5	7(9)
D6	D	D4	6	D5	7(#9)
Eb6	Eb/D#	Eb4	mM7	Eb5	7(b13)
E6	E	E4	M7	E5	7(13)
F6	F	F4	M	F5	7(#11)
F#6	F#/Gb	F#4	M(9)	F#5	dim7
G6	G	G4	M6	G5	dim
Ab6	Ab/G#	Ab4	M7(9)	Ab5	7aug
A6	A	A4	M7	A5	aug
Bb6	Bb/A#	Bb4	M7b5	Bb5	7sus4
B6	B	B4	7	B5	sus4

Pedal Function

You can assign different functions to the connected sustain pedal in the Function Menu. Please see the Function Menu.

PHONES   SUSTAIN   USB   12V

1. Sustain Pedal
This pedal function performs the same function as the damper pedal on an acoustic piano, letting you sustain the sound of voices even after releasing the keys.
Step and press on the pedal to turn the sustain effect on. Release the pedal to turn the sustain effect on.

2. Soft Pedal
When the soft pedal is selected, pressing this pedal will make the notes you play sound softer.

3. Memory Pedal
When the memory pedal is selected, pressing this pedal will call up the registration memory one by one.

Note:
If the current memory recalled contains pedal settings, the pedal settings will be overlapped or ignored.

4. Style Start/Stop Pedal
When the style start/stop pedal is selected, pressing this pedal will start/stop accompaniment.

29

MIDI

With the MIDI functions you can expand your musical possibilities. This section will let you know what MIDI is, and what it can do, as well as how you can use MIDI on your instrument.

What's MIDI?

1. 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.

2. 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.

Note:
The instrument has a USB (DEVICE) terminal, which can be connected to a computer for MIDI input or MIDI output. This terminal cannot be connected to another instrument, unless the instrument has a USB host terminal.

The Main Application of MIDI

1. Used as a tone generator
This instrument can receive MIDI data from computer, and execute MIDI controls such as changing channels, changing voices, adding effects and making sounds. Please refer to MIDI Implementation Chart for more MIDI controls.

2. Used as a MIDI Keyboard
When you play the keyboard, change the voices or turn the DSP on/off, the instrument will send MIDI data to the computer, which will be saved as recordings. (It only records your keyboard performance when playing along with accompaniment.)
You can edit the recordings on computer, such as changing the channels or voices, or adding DSP effects. Then play back the recordings on the instrument or another sound source (such as a sound card). You can play the keyboard along with the playback. Please refer to MIDI Implementation Chart for more MIDI controls.

3. Select a MIDI Device
To use the USB port of the instrument, you may need to configure the software on the computer.
For example, set the Cakewalk Pro Audio MIDI software under the WINDOWS XP operating system.

Open the Cakewalk Pro Audio MIDI software. Set the USB AUDIO DEVICE either as the MIDI Input port on the left window, or as the MIDI Output port on the right window, then press "OK".
Alternatively, you can select the MIDI device on the TOOLS MIDI DEVICES menu of Cakewalk. Configure the same settings when using other similar MIDI software.

30

Troubleshooting

Problem	Possible Cause and Solution
The speakers produce a pop sound whenever the power is turned ON or OFF.	This is normal and no cause for alarm.
No sound when the keyboard is played.	1. Check if the master volume is set too low. 2. Check if headphones are plugged into the PHONES jack. 3. Check if the R1/R2/L1 voice volume is set too low (in the Mixer).
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
The auto accompaniment does not play back even Sync is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Sync Start, make sure to play a key in the left-hand range of the keyboard.
Certain notes sound at wrong pitch.	Make sure that the tuning value is set to 0. Press and hold the [+/YES] and [-/NO] buttons at the same time, then turning the power on will set INSTRUMENT to default.
The Harmony function does not operate.	Harmony function is not available when Voice R1 is a drum kit.

Specifications

Keyboard & Display	
Keyboard	61 Keys with Touch Response
Touch Response	5 types, Off
Display	Multi-functional LCD

Voices	
Polyphony (max.)	128
Voices	700
Layer	Left, Right1, Right2
Split	Yes

Styles	
Styles	280 preset
Style Control	Start / Stop Sync Start Intro / Ending Main A / Fill in A Main B / Fill in B Chord Mode Fade In / Out
O.T.S.	Yes
Chord Types	32

Effects	
Effects	DSP on / off
Master EQ	6 types
Reverb	10 types, 32 levels
Chorus	8 types, 32 levels

Performance Enhance	
Harmony	14 types

Song & Recording	
Music Library	120 preset songs, Music tutorial system
Sequencer	10 user songs
Demo Song	5

Pitch Adjustment	
Transpose	-12 ~ +12
Octave	-2 ~ +2
Tuning	-50 ~ +50

Other Functions	
Mixer	Yes (11 tracks)
Performance Memory	12 preset banks x 4
Assignable Controllers	1 pedal
Pitch Bend	Yes
Modulation	Yes
Metronome	0, 2 ~ 9
Tempo	30 ~ 280
Other control	Sustain, Piano Mode, Chord dictionary

Connections	
Interaction & Expansion	USB MIDI
Phones	standard stereo
Pedals	Sustain
USB	USB MID I

Power Supply	
Power	DC12V / 1A
Power Off Protection	Yes

Amplifiers & Speakers	
Amplifiers	5W x 2
Speakers	10W x 2

Dimensions & Weight	
Dimensions LWH (mm)	970 x 370 x 142
Weight (kg)	6.0

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

31

Voice List

No.	English Name	LCD Name
PIANO		
1	Acoustic Grand Piano	GrdPno
2	Acoustic Grand Piano 2	GrdPno 2
3	Acoustic Grand Piano (wide)	GrdPnoW
4	Acoustic Grand Piano (dark)	GrdPnoD
5	Bright Acoustic Piano	BritePn
6	Bright Acoustic Piano 2	BritePn2
7	Bright Acoustic Piano (wide)	BritePnW
8	Electric Grand Piano	E.Piano
9	Electric Grand Piano 2	E.Piano2
10	Electric Grand Piano (wide)	E.GdPnoW
11	Electric Grand Piano (dark)	E.GdPnoD
12	Honky Tonk Piano	HnyTonk
13	Honky Tonk Piano 2	HnyTonk2
14	Honky Tonk Piano (wide)	HnyTonkW
15	Honky Tonk Piano (dark)	HnyTonkD
16	Harpsichord	Harpsi
17	Harpsichord 2	Harpsi 2
18	Harpsichord (octave mix)	HarpsiO
19	Harpsichord (wide)	HarpsiW
20	Harpsichord (with key off)	HarpsiK
21	Octave Grand Piano	OctPno
22	Octave Grand Piano 2	OctPno 2
23	Piano & Strings	Pno&Str
24	Piano & Pad	Pno&Pad
25	Piano & Choir	Pno&Cho
26	Piano & EP	Piano&EP
27	Piano & Vibraphone	Pno&Vib
28	Detuned Electric Piano	DetEP
29	Detuned Electric Piano 2	DetEP 2
30	Electric Piano	E.Pno
31	Electric Piano 2	E.Pno 2
32	Electric Piano 3	E.Pno 3
33	Electric Piano 4	E.Pno 4
34	Electric Piano 1 (velocity mix)	VelEP 1
35	Electric Piano 2 (velocity mix)	VelEP 2
36	60's Electric Piano	60's EP
37	EP Legend	E.Legend
38	Phase EP	Phase EP
39	Clavi	Clavi
40	Clavi 2	Clavi 2
41	Phase Clavi	PhaClavi
42	Wah Clavi	WahClavi
43	Pulse Clavi	PulClavi
44	Dream EP	DreamEP
45	Tremolo EP	TremEP
46	Funk EP	Funk EP
47	Warm EP	Warm EP
48	Choir EP	Choir EP
49	Wah EP	Wah EP
50	Modern EP	ModernEP
51	EP Pad	EPPad
CHROMATIC PERCUSSION		
52	Celesta	Celesta
53	Celesta 2	Celesta2
54	Celesta 3	Celesta3
55	Glockenspiel l	Glcckspl
56	Glockenspiel 2	Glccksp2
57	Glockenspiel 3	Glccksp3
58	Music Box	MBox
59	Music Box 2	MBox 2
60	Music Box 3	MBox 3
61	Vibraphone	Vibra
62	Vibraphone 2	Vibra 2
63	Vibraphone (wide)	VibraW
64	Marimba	Marimba
65	Marimba 2	Marimba2
66	Marimba (wide)	MarimbaW
67	Xylophone	Xyloph
68	Xylophone 2	Xyloph 2
69	Xylophone 3	Xyloph 3
70	Tubular Bells	TubulBe
71	Tubular Bells 2	TubulBe2
72	Church Bell	ChurBell
73	Carillon	Carillon
74	Dulcimer	Dulcime
75	Dulcimer 2	Dulcime2
76	Santur	Santur
ORGAN		
77	Italian 60's Organ	60'sOr
78	Drawbar Organ	DrawOr
79	Drawbar Organ 2	DrawOr 2
80	Detuned Drawbar Organ	DetDrOr
81	Drawbar Organ 3	DrawOr 3
82	Detuned Percussive Organ	DetPerOr
83	Percussive Organ	PercOr
84	Percussive Organ 2	PercOr 2
85	70's Percussive Organ	70'sPeOr
86	Percussive Organ 3	PercOr 3
87	Rock Organ	RockOr
88	Rock Organ 2	RockOr 2
89	Rock Organ 3	RockOr 3
90	Church Organ	ChurOr
91	Church Organ 2	ChurOr 2
92	Church Organ 3	ChurOr 3
93	Church Organ (octave mix)	ChurOrO
94	Detuned Church Organ	DetChuOr
95	Reed Organ	ReedOr
96	Reed Organ 2	ReedOr 2
97	Rotary Organ	RotaryOr
98	Puff Organ	PuffOr
99	Accordion	Acordi
100	Accordion 2	Acordi 2
101	Accordion 3	Acordi 3
102	Harmonica	Harmni
103	Harmonica 2	Harmni 2
104	Harmonica 3	Harmni 3
105	Tango Accordion	TangoAc
106	Tango Accordion 2	TangoAc2
GUITAR		
107	Acoustic Guitar (nylon)	NylGt

108	Acoustic Guitar (nylon) 2	NylGt 2
109	Acoustic Guitar (nylon) 3	NylGt 3
110	Acoustic Guitar (nylon + key off)	NylGtK
111	Ukulele	Ukulele
112	Acoustic Guitar (steel)	Ac.Gt
113	Acoustic Guitar (steel) 2	Ac.Gt 2
114	12-Strings Guitar	12StrGt
115	Mandolin	Mandol
116	Mandolin 2	Mandol 2
117	Steel Guitar with Body Sound	SteGtBod
118	Electric Guitar (jazz)	JazzGt
119	Electric Guitar (jazz) 2	JazzGt 2
120	Electric Guitar (pedal steel)	PedalGt
121	Electric Guitar (clean)	CleaGt
122	Electric Guitar (clean) 2	CleaGt 2
123	Electric Guitar (detuned clean)	DetClGt
124	Mid Tone Guitar	MidGt
125	Electric Guitar (muted)	MuteGt
126	Electric Guitar (muted) 2	MuteGt 2
127	Electric Guitar (funky cutting)	FunkGt
128	Electric Guitar (muted velo-sw)	VelMutGt
129	Jazz Man	JazzMan
130	Overdriven Guitar	OverGt
131	Overdriven Guitar 2	OverGt 2
132	Guitar Pinch	GtPinch
133	Distortion Guitar	DistGt
134	Distortion Guitar 2	DistGt 2
135	Distortion Guitar (with feedback)	DistFeGt
136	Guitar Feedback	FeedbGt
137	Distorted Rhythm Guitar	DistRhGt
138	Guitar Harmonics	GtHarmo
139	Guitar Harmonics 2	GtHarmo2
140	Velocity Nylon Guitar	VelNylGt
BASS		
141	Acoustic Bass	A.Bass
142	Acoustic Bass 2	A.Bass 2
143	Wah Bass	WahBass
144	Electric Bass (finger)	FingerBa
145	Finger Slap Bass	FinrSlBa
146	Electric Bass (pick)	PickBa
147	Electric Bass (pick) 2	PickBa 2
148	Fretless Bass	FretBa
149	Fretless Bass 2	FretBa 2
150	Slap Bass	SlapBa
151	Slap Bass 2	SlapBa 2
152	Slap Bass 3	SlapBa 3
153	Slap Bass 4	SlapBa 4
154	Synth Bass	SynBa
155	Synth Bass 2	SynBa 2
156	Synth Bass 3	SynBa 3
157	Synth Bass 4	SynBa 4
158	Warm Synth Bass	WarSynBa
159	Rsonance SynBass	ResSynBa
160	Clavi Bass	ClaviBa
161	Hammer	Hammer
162	Attack Bass	AttackBa

163	Synth Bass (rubber)	RubBa
164	Synth Bass (rubber) 2	RubBa 2
165	Attack Pulse	AttPulse
STRINGS & ORCHESTRAL		
166	Violin	Violin
167	Violin 2	Violin 2
168	Violin (slow attack)	SlowVin
169	Viola	Viola
170	Viola 2	Viola 2
171	Cello	Cello
172	Cello 2	Cello 2
173	Contrabass	ConBa
174	Contrabass 2	ConBa 2
175	Tremolo Strings	TreStr
176	Tremolo Strings 2	TreStr 2
177	Tremolo Strings 3	TreStr 3
178	Pizzicato Strings	PizStr
179	Pizzicato Strings 2	PizStr 2
180	Orchestral Harp	Harp
181	Orchestral Harp 2	Harp 2
182	Yang Chin	YangChin
183	Timpani	Timpani
184	Timpani 2	Timpani2
185	String Ensembles	StrEns
186	String Ensembles 2	StrEns 2
187	String Ensembles 3	StrEns 3
188	String Ensembles 4	StrEns 4
189	Strings & Brass	Str&Brs
190	60's Strings	60's Str
191	Synth Strings	SynStr
192	Synth Strings 2	SynStr 2
193	Synth Strings 3	SynStr 3
194	Synth Strings 4	SynStr 4
195	Synth Strings 5	SynStr 5
196	Choir Aahs	ChoAah
197	Choir Aahs 2	ChoAah 2
198	Choir Aahs 3	ChoAah 3
199	Voice Oohs	VoiOhs
200	Voice Oohs 2	VoiOhs 2
201	Humming	Humming
202	Anlong Voice	AnlVoice
203	Synth Voice	SynVo
204	Synth Voice 2	SynVo 2
205	Orchestra Hit	OrcHit
206	Orchestra Hit 2	OrcHit 2
207	Bass Hit Plus	BaHit
208	6th Hit	6th Hit
209	Euro Hit	Euro Hit
BRASS		
210	Trumpet	Trumpet
211	Trumpet 2	Trumpet2
212	Dark Trumpet	DarkTp
213	Trombone	Tromb
214	Trombone 2	Tromb 2
215	Trombone 3	Tromb 3
216	Bright Trombone	BritBone

Voice List

217	Tuba	Tuba
218	Tuba 2	Tuba 2
219	Muted Trumpet	MutTp
220	Muted Trumpet 2	MutTp 2
221	Muted Trumpet 3	MutTp 3
222	French Horn	FrHorn
223	French Horn 2	FrHorn 2
224	French Horn 3	FrHorn 3
225	Brass Section	BraSec
226	Brass Section 2	BraSec 2
227	Brass Section 3	BraSec 3
228	Synth Brass	SynBra
229	Synth Brass 2	SynBra 2
230	Synth Brass 3	SynBra 3
231	Synth Brass 4	SynBra 4
232	Synth Brass 5	SynBra 5
233	Synth Brass 6	SynBra 6
234	Synth Brass 7	SynBra 7
235	Synth Brass 8	SynBra 8
236	Analog Synth Brass	AnSyBra
237	Analog Synth Brass 2	AnSyBra2
238	Analog Synth Brass 3	AnSyBra3
239	Jump Brass	JumBra
240	Jump Brass 2	JumBra 2
241	Funny	Funny
242	Funny 2	Funny 2
243	French Horn	FrHorn
REED		
244	Soprano Sax	SopSax
245	Soprano Sax 2	SopSax 2
246	Soprano Sax 3	SopSax 3
247	Alto Sax	AltSax
248	Alto Sax 2	AltSax 2
249	Alto Sax 3	AltSax 3
250	Tenor Sax	TenoSax
251	Tenor Sax 2	TenoSax2
252	Tenor Sax 3	TenoSax3
253	Baritone Sax	BariSax
254	Baritone Sax 2	BariSax2
255	Baritone Sax 3	BariSax3
256	Oboe	Oboe
257	Oboe 2	Oboe 2
258	Oboe 3	Oboe 3
259	2 Oboe	2 Oboe
260	English Horn	EngHorn
261	English Horn 2	EngHorn2
262	English Horn 3	EngHorn3
263	2 English Horn	2EngHorn
264	Bassoon	Bassoon
265	Bassoon 2	Bassoon2
266	Bassoon 3	Bassoon3
267	2 Bassoon	2Bassoon
268	Clarinet	Clarine
269	Clarinet 2	Clarine2
270	Clarinet 3	Clarine3
271	2 Clarinet	2Clarine

PIPE		
272	Piccolo	Piccolo
273	Piccolo 2	Piccolo2
274	Piccolo 3	Piccolo3
275	2 Piccolo	2Piccolo
276	Sweet Flute	SweetFl
277	Flute	Flute
278	Flute 2	Flute 2
279	Flute 3	Flute 3
280	2 Flute	2 Flute
281	Recorder	Recorde
282	Recorder 2	Recorde2
283	2 Recorder	2Recorde
284	Pan Flute	PanFl
285	Pan Flute 2	PanFl 2
286	Sweet Pan Flute	SwPanFl
287	Blown Bottle	BloBott
288	Blown Bottle 2	BloBott2
289	Shakuhachi	Shakuh
290	Shakuhachi 2	Shakuh 2
291	Whistle	Whistle
292	Whistle 2	Whistle2
293	Ocarina	Ocarina
294	Ocarina 2	Ocarina2
SYNTH LEAD		
295	Lead 1 (square)	Squ Ld
296	Lead 1a (square)2	Squ Ld 2
297	Lead 1 (square) 3	Squ Ld 3
298	Lead 1b (sine)	Sine Ld
299	Lead 2 (sawtooth)	Saw
300	Lead 2a (sawtooth) 2	Saw 2
301	Lead 2 (sawtooth) 3	Saw 3
302	Lead 2b (saw + pulse)	Saw&Puls
303	Lead 2c (double sawtooth)	DoubSaw
304	Lead 2d (sequenced analog)	SeqAna
305	Lead 2d (sequenced analog) 2	SeqAna2
306	Wavy Sawtooth	WavySaw
307	Bauble Lead	BaubleLd
308	Super Analog	SuperAna
309	Lead 3 (calliope)	Callio
310	Lead 3 (calliope) 2	Callio 2
311	Lead 4 (chiff)	ChiffLd
312	Lead 4 (chiff) 2	ChiffLd2
313	Lead 4 (chiff) 3	ChiffLd3
314	Lead 4 (chiff) 4	ChiffLd4
315	Lead 5 (charang)	CharaLd
316	Lead 5 (charang) 2	CharaLd2
317	Lead 5 (charang) 3	CharaLd3
318	Lead 5 (charang) 4	CharaLd4
319	Lead 5a (wire lead)	Wire Ld
320	Lead 5a (wire lead) 2	Wire Ld2
321	Lead 6 (voice)	VoiceLd
322	Lead 6 (voice) 2	VoiceLd2
323	Lead 7 (fifths)	Fifths
324	Lead 7 (fifths) 2	Fifths 2
325	Lead 8 (bass + lead)	Bass&Ld

326	Lead 8 (bass + lead) 2	Bass&Ld2
327	Lead 8 (bass + lead) 3	Bass&Ld3
328	Lead 8a (soft wrl)	Soft wrl
329	Massiness	Massin
330	Square	Square
331	Slow Square Lead	SlSquLd
332	Sine Solo	SineSolo
333	Square Lead	Squ Ld 3
334	Thick Square	ThickSqu
335	2Oscillators Lead	2OscLd
336	Wavy Sawtooth	WavySaw
337	Super Analog	SuperAna
338	Big Lead	Big Ld
339	Fat Lead	Fat Ld
340	PWM 4th	PWM 4th
341	Delayed Lead	DelLd
342	Delayed Lead 2	DelLd 2
343	Fifth Lead	Fifth Ld
344	Corrie	Corrie
345	Quint	Quint
SYNTH PAD		
346	Pad 1 (new age)	NewAge
347	Pad 1 (new age) 2	NewAge 2
348	Pad 1 (new age) 3	NewAge 3
349	Pad 1 (new age) 4	NewAge 4
350	Pad 2 (warm)	WarmPd
351	Pad 2 (warm) 2	WarmPd 2
352	Pad 2 (warm)3	WarmPd 3
353	Pad 2a (sine pad)	Sine Pad
354	Pad 3 (polysynth)	PolySyn
355	Pad 3 (polysynth) 2	PolySyn2
356	Pad 3 (polysynth) 3	PolySyn3
357	Pad 3 (polysynth) 4	PolySyn4
358	Pad 4 (choir)	ChoirPd
359	Pad 4 (choir) 2	ChoirPd2
360	Pad 4a (itopia)	ItopiaPd
361	Pad 5 (bowed)	BowedPd
362	Pad 5 (bowed) 2	BowedPd2
363	Pad 5 (bowed) 3	BowedPd2
364	Pad 5 (bowed) 4	BowedPd4
365	Pad 6 (metallic)	MetaPd
366	Pad 6 (metallic) 2	MetaPd 2
367	Pad 6 (metallic) 3	MetaPd 3
368	Pad 7 (halo)	HaloPad
369	Pad 7 (halo) 2	HaloPad2
370	Pad 7 (halo) 3	HaloPad3
371	Pad 7 (halo) 4	HaloPad4
372	Pad 8 (sweep)	SweepPd
373	Pad 8 (sweep) 2	SweepPd2
374	Pad 8 (sweep) 3	SweepPd3
375	Pan Pad	PanPad
376	Pan Pad 2	PanPad 2
377	Dipolar Pad	DipolPad
378	PWM Pad	PWM Pad
379	Warmly Pad	WarmPad
380	Horn Pad	Horn Pad

381	Click Pad	ClickPad
382	Analog Pad	Ana Pad
383	80's Poly Pad	80'sPoly
384	PWM 4th Soft	PWM4thSf
385	Synth Calliope Soft	SynCalSf
386	Soft Vox	Soft Vox
387	5th SawWave	5th Saw
388	5th Lead Soft	5thLdSf
389	Slow Square	Slow Squ
390	New Year Pad	NewYearP
391	Space Voice	SpaVoice
392	Rising	Rising
393	Congregate	Congrega
SYNTH SFX		
394	FX 1 (rain)	Rain
395	FX 1 (rain) 2	Rain 2
396	FX 2 (soundtrack)	SoundTk
397	FX 2 (soundtrack) 2	SoundTk2
398	Prelude	Prelude
399	FX 3 (crystal)	Crystal
400	FX 3 (crystal) 2	Crystal2
401	FX 3 (crystal) 3	Crystal3
402	FX 3a (synth mallet)	SynMalle
403	FX 4 (atmosphere)	Atmosp
404	FX 4 (atmosphere) 2	Atmosp 2
405	Warm Air	Warm Air
406	FX 5 (brightness)	Bright
407	FX 5 (brightness) 2	Bright 2
408	Smog	Smog
409	FX 6 (goblins)	Goblins
410	FX 6 (goblins) 2	Goblins2
411	FX 6 (goblins) 3	Goblins3
412	Choir Bell	ChoirBe
413	Choir Bell 2	ChoirBe2
414	FX 7 (echoes)	Echoes
415	FX 7 (echoes) 2	Echoes 2
416	FX 7 (echoes) 3	Echoes 3
417	FX 7b (echo pan)	Echo Pan
418	FX 7a (echo bell)	EchoBell
419	FX 7a (echo bell) 2	EchoBel2
420	FX 7a (echo bell) 3	EchoBel3
421	FX 8 (sci-fi)	Sci-Fi
422	FX 8 (sci-fi) 2	Sci-Fi 2
423	FX 8 (sci-fi) 3	Sci-Fi 3
ETHNIC MISC.		
424	Sitar	Sitar
425	Sitar 2	Sitar 2
426	Sitar 3	Sitar 3
427	Banjo	Banjo
428	Banjo 2	Banjo 2
429	Banjo 3	Banjo 3
430	Shamisen	Shamis
431	Shamisen 2	Shamis 2
432	Shamisen 3	Shamis 3
433	Koto	Koto
434	Koto 2	Koto 2

Voice List

435	Taisho Koto	TaisKoto
436	Kalimba	Kalimba
437	Kalimba 2	Kalimba2
438	Kalimba 3	Kalimba3
439	Bag Pipe	BagPipe
440	Bag pipe 2	Bagpipe2
441	Bag Pipe 3	BagPipe3
442	Fiddle	Fiddle
443	Fiddle 2	Fiddle 2
444	Fiddle 3	Fiddle 3
445	Shanai	Shanai
446	Shanai 2	Shanai 2
447	Shanai 3	Shanai 3
PERCUSSIVE		
448	Tinkle Bell	TinkBe
449	Tinkle Bell 2	TinkBe 2
450	Tinkle Bell 3	TinkBe 3
451	Agogo	Agogo
452	Agogo 2	Agogo 2
453	Agogo 3	Agogo 3
454	Steel Drums	SteeDru
455	Steel Drums 2	SteeDru2
456	Steel Drums 3	SteeDru3
457	Woodblock	WoodBlo
458	Woodblock 2	WoodBlo2
459	Woodblock 3	WoodBlo3
460	Castanets	Castan
461	Castanets 2	Castan 2
462	Taiko Drum	TaiDrum
463	Taiko Drum 2	TaiDru 2
464	Taiko Drum 3	TaiDru 3
465	ConcertBass Drum	ConBsDr
466	ConcertBass Drum 2	ConBDr 2
467	Acoustic Bass Drum	ABaDrum
468	Room Kick	RoomKick
469	Power Kick	PoweKick
470	Electric Bass Drum	ElBaDrum
471	Analog Bass Drum	AnBaDrum
472	Jazz Kick	JazzKick
473	Side Stick	SidStick
474	Analog Rim Shot	AnRiShot
475	Acoustic Snare	A.Snare
476	Room Snare	RoomSn
477	Power Snare	PowerSn
478	Electric Snare	E.Snare
479	Analog Snare	Ana Sn
480	Jazz Snare	JazzSn
481	Brush Tap	BrushTap
482	Concert SD	ConSD
483	Hand Clap	HandClap
484	Tom	Tom
485	Room Tom	Room Tom
486	Power Tom	PowerTom
487	Electric Tom	E.Tom
488	Analog Tom	Ana Tom
489	Brush Tom	BrushTom

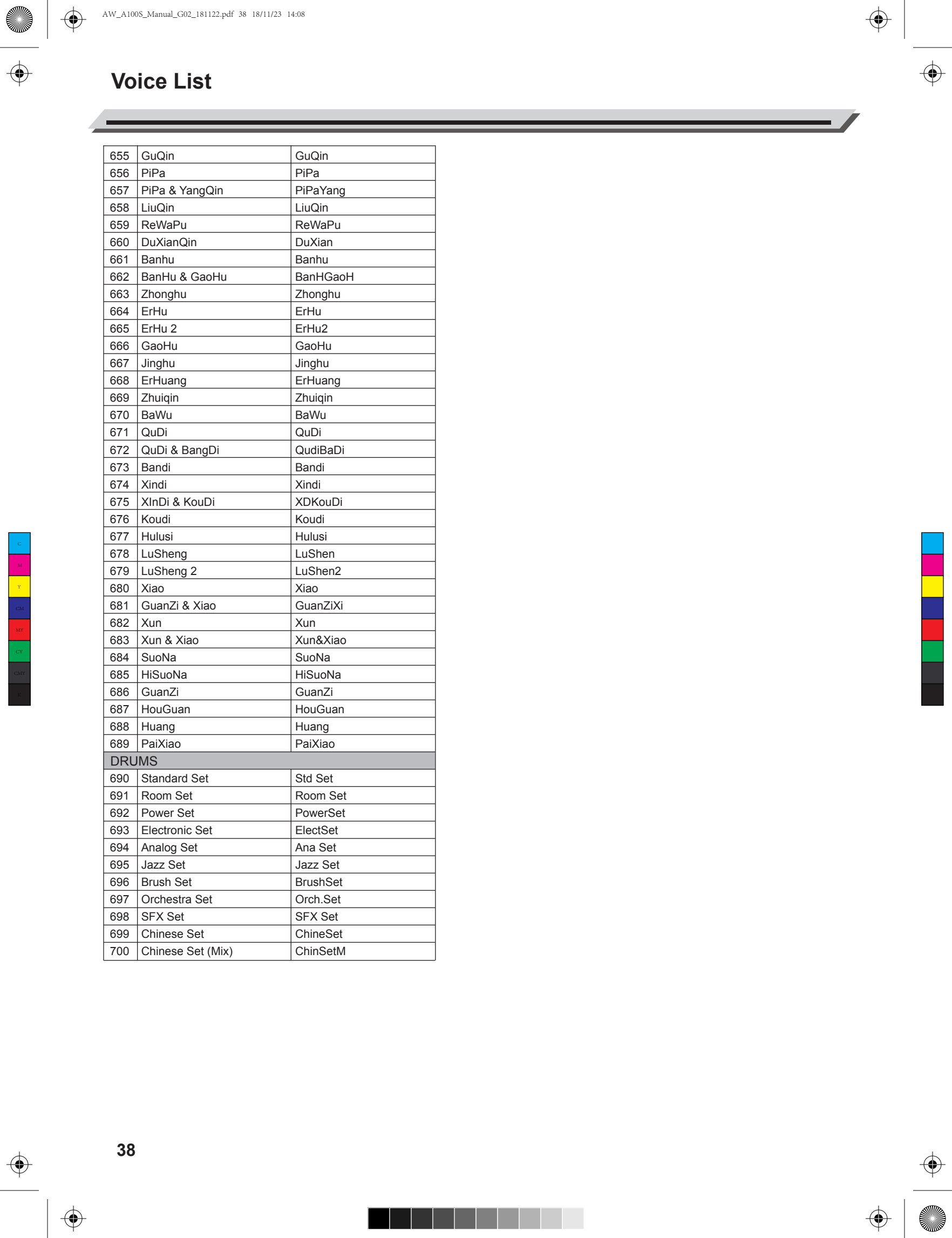|		
490	Closed Hi-hat	ClosedHH
491	Analog Closed Hi-hat	AnClosHH
492	Pedal Hi-hat	Pedal HH
493	Open Hi-hat	Open HH
494	Crash Cymbal	CrashCym
495	Analog Cymbal	Ana Cym
496	Ride Cymbal	Ride Cym
497	China Cymbal	ChinaCym
498	Ride Bell	RideBell
499	Tambourine	Tambouri
500	Splash Cymbal	SplashCy
501	Cowbell	Cowbell
502	Analog Cowbell	AnaCowbl
503	High Bongo	HiBongo
504	Low Bongo	LoBongo
505	Mute Hi Conga	MuHiCong
506	Open Hi Conga	OpHiCong
507	Low Conga	LoConga
508	Analog Hi Conga	AnHiCong
509	Analog Mid Conga	AnMiCong
510	Analog Low Conga	AnLoCong
511	High Timbale	HiTimbal
512	Low Timbale	LoTimba
513	Cabasa	Cabasa
514	Maracas	Maracas
515	Analog Maracas	AnMarac
516	Short Guiro	ShGuiro
517	Long Guiro	LoGuiro
518	Claves	Claves
519	Mute Cuica	MuCuica
520	Open Cuica	OpCuica
521	Mute Triangle	MuTrge
522	Open Triangle	OpTrge
523	Shaker	Shaker
524	Mute Surdo	MuSurdo
525	Open Surdo	OpSurdo
526	Melodic Tom	MeloTom
527	Melodic Tom 2	MeloTom2
528	Melodic Tom 3	MeloTom3
529	Synth Drum	SynDrum
530	Synth Drum 2	SynDrum2
531	Rhythm Box Tom	RhTom
532	Electric Drum	E.Drum
533	Electric Drum 2	E.Drum 2
534	Reverse Cymbal	ReveCym
535	Reverse Cymbal 2	ReveCym2
SFX		
536	Guitar Fret Noise	GtFreNo
537	Guitar Fret Noise 2	GtFreNo2
538	Guitar Cutting Noise	GtCutNo
539	Guitar Cutting Noise 2	GtaCut 2
540	Acoustic Bass String Slap	BsStrSl
541	Acoustic Bass String Slap 2	BsStrSl2
542	Breath Noise	BreNois
543	Breath Noise 2	BreNois2
544	Flute Key Click	FlClick

545	Flute Key Click 2	FlClick2		600	Marimba & Kalimba	Mar&Kal
546	Seashore	Seashor		601	Marimba Delay	MarDel
547	Seashore 2	Seashor2		602	Xylophone Octave	XylopOct
548	Rain	Rain		603	Organ & Stereo Strings	Org&Str
549	Thunder	Thunder		604	Stereo Organ & Piano	StOr&Pno
550	Wind	Wind		605	Rock Organ & Strings	RoOr&Str
551	Stream	Stream		606	Church Organ & Choir	ChuOr&Ch
552	Bubble	Bubble		607	Church Organ & Strings	ChuOr&St
553	Bird Tweet	BirdTw		608	Acoustic Guitar & Flute	Gt&Fl
554	Bird Tweet 2	BirdTw 2		609	Acoustic Guitar & Clav	Gt&Cl
555	Dog	Dog		610	24 String Guitar	24Gt
556	Horse Gallop	HorseGal		611	Steel Guitar & Warm Pad	StGt&Pad
557	Telephone Ring	TelRing		612	Stereo Strings & Horn	StStr&Hn
558	Telephone Ring 2	TelRing2		613	Orchestra	Orchest
559	Door Creaking	DoorCrea		614	Full Strings	FullStr
560	Door	Door		615	Full Strings 2	FullStr2
561	Scratch	Scratch		616	Symphonic	Symphon
562	Wind Chime	WindChim		617	Stereo Choir & Strings	StCh&Str
563	Helicopter	Helicopt		618	Stereo Choir & Steel Guitar	Ch&Gt
564	Car Engine	CarEngin		619	3 Trumpet Loose	3Trump
565	Car Stop	Car Stop		620	Trombone & Stereo Strings	Tb&StStr
566	Car Pass	Car Pass		621	3 Trombones Loose	3Tromb
567	Car Crash	CarCrash		622	3 Muted Trumpets Loose	3MuTrumb
568	Siren	Siren		623	Club Brass	ClubBras
569	Train	Train		624	Brass & Woodwinds	Br&Wood
570	Jetplane	Jetplane		625	Woodwinds & Strings	Wind&Str
571	Starship	Starship		626	Section Woods Small	WoodSma
572	Burst Noise	BurstNoi		627	Pan Flute & Strings Pad	PanFu&St
573	Applause	Applause		628	Koto & Shamisen	Koto&Sh
574	Laughing	Laughing		629	Flute & Clarinet	Fl& Cl
575	Screaming	Scream		630	Flute & Oboe	Fl&Ob
576	Punch	Punch		631	Flute & Bassoon	Fl& Bn
577	Heart Beat	HeartBea		632	Flute & Oboe & Clarinet	Fl&Ob&Cl
578	Footsteps	Footstep		633	Flute & Clarinet & Bassoon	Fl&Cl&Bn
579	Gunshot	Gunshot		634	Flute & Oboe & Bassoon	Fl&Ob&Bn
580	Machine Gun	MachiGun		635	Flute Octave	FlOct
581	Lasergun	Lasergun		636	Flute & Oboe Octave	Fl&ObOct
582	Explosion	Explosio		637	Flute & Clarinet Octave	Fl&ClOct
COMBINED VOICE				638	Oboe & Bassoon	Ob&Bn
583	Stereo Piano & Strings Pad	StPn&Str		639	Oboe & Clarinet	Ob&Cl
584	Stereo Piano & Choir	StPn&Cho		640	Oboe & Clarinet & Bassoon	Ob&Cl&Bn
585	Stereo Piano & Synth Strings	StPn&Syn		641	Oboe Octave	ObOct
586	Stereo Piano & Warm Pad	StPn&Pad		642	Oboe & Clarinet Octave	Ob&ClOct
587	Stereo Piano & Soft Ep	StPn&Ep		643	Oboe & Bassoon Octave	Ob&BnOct
588	FM Electric Piano	FMEp		644	Clarinet & Bassoon	Cl&Bn
589	Digital Piano	DigiPn		**WORLD INSTRUMENTS**		
590	E.Piano & Strings	EP&Str		645	GuZheng	GuZheng
591	E.Piano & Ac Guitar	EP&Gt		646	GuZheng & YangQin	GuZhenYQ
592	E.Piano & Vibraphone	Ep&Vib		647	YueQin	YueQin
593	E.Piano 2 & Pad	Ep2&Pad		648	YueQin & PiPa	YueQinPi
594	E.Piano 2 & Strings	Ep2&Str		649	YangQin	YangQin
595	Harpsichord & Stereo Strings	Harps&St		650	SanXian	SanXian
596	Music Box & Stereo Strings	Mxb&Str		651	SanXian & PiPa	SanXianP
597	Vibraphone & Stereo Strings	Vib&Str		652	DaRuan	DaRuan
598	Vibraphone Octave	VibOct		653	DaRuan & ZhongRuan	DaRuanZR
599	Vibraphone & Marimba & Kalimba	VibMK		654	Midiruan	Midiruan

Voice List

655	GuQin	GuQin
656	PiPa	PiPa
657	PiPa & YangQin	PiPaYang
658	LiuQin	LiuQin
659	ReWaPu	ReWaPu
660	DuXianQin	DuXian
661	Banhu	Banhu
662	BanHu & GaoHu	BanHGaoH
663	Zhonghu	Zhonghu
664	ErHu	ErHu
665	ErHu 2	ErHu2
666	GaoHu	GaoHu
667	Jinghu	Jinghu
668	ErHuang	ErHuang
669	Zhuiqin	Zhuiqin
670	BaWu	BaWu
671	QuDi	QuDi
672	QuDi & BangDi	QudiBaDi
673	Bandi	Bandi
674	Xindi	Xindi
675	XInDi & KouDi	XDKouDi
676	Koudi	Koudi
677	Hulusi	Hulusi
678	LuSheng	LuShen
679	LuSheng 2	LuShen2
680	Xiao	Xiao
681	GuanZi & Xiao	GuanZiXi
682	Xun	Xun
683	Xun & Xiao	Xun&Xiao
684	SuoNa	SuoNa
685	HiSuoNa	HiSuoNa
686	GuanZi	GuanZi
687	HouGuan	HouGuan
688	Huang	Huang
689	PaiXiao	PaiXiao
DRUMS		
690	Standard Set	Std Set
691	Room Set	Room Set
692	Power Set	PowerSet
693	Electronic Set	ElectSet
694	Analog Set	Ana Set
695	Jazz Set	Jazz Set
696	Brush Set	BrushSet
697	Orchestra Set	Orch.Set
698	SFX Set	SFX Set
699	Chinese Set	ChineSet
700	Chinese Set (Mix)	ChinSetM

Style List

No.	English Name	LCD Name
8 BEAT		
1	8Beat Ballad	8BtBld
2	8Beat Piano	8BtPiano
3	8Beat 1	8Beat1
4	Guitar Pop 1	GtPop1
5	8Beat Hip Hop	8BtHiHop
6	8Beat Blues Rock	8BeatBlR
7	8Beat Pop	8BtPop
8	Pop Funk	PopFunk
9	Rhythm&Beat 1	Rhy&Bt1
10	8Beat Disco	8BtDisc
11	8Beat Rock	8BtRock
12	Guitar Pop 2	GtPop2
13	8Beat 2	8Beat2
14	Sweet Beat	SweetBt
15	8Beat Dance	8BtDance
16	8Beat Disco 2	8BtDisc2
17	Pop Funk 2	PopFunk2
18	8Beat 3	8Beat3
19	60's 8Beat	60's8Bt
20	Rhythm&Beat 2	Rhy&Bt2
16 BEAT		
21	16Beat 1	16Beat1
22	16Beat Funk 1	16BtFuk1
23	16Beat Ballad 1	16BtBld1
24	16Beat R&B	16BtR&B
25	Pop 16Beat 1	Pop16Bt1
26	16Beat Funk 2	16BtFuk2
27	16Beat Dance	16BtDanc
28	Pop 16Beat 2	Pop16Bt2
29	16Beat 2	16Beat2
30	Pop 16Beat 3	Pop16Bt3
31	Pop 16Beat 4	Pop16Bt4
32	Modern 16Beat	Modrn16B
33	16Beat Hot	16BtHot
34	16Beat Modern	16BtModr
35	16Beat Funk 3	16BtFuk3
36	16Beat 3	16Beat3
37	Cool Beat	CoolBeat
38	16Beat Ballad 2	16BtBld2
39	16Beat 4	16Beat4
40	Pop Shuffle	PopShfl
POP & BALLAD		
41	Pop Rock 1	PopRock1
42	Pop Dance	PopDanc
43	Pop Fusion	PopFusn
44	Analog Night 1	AnalgNt1
45	6/8 Pop	6/8Pop
46	Brit. Pop 1	BritPop1
47	Brit. Pop 2	BritPop2
48	Pop Hit	PopHit
49	Fusion Shuffle	FusShufl
50	Analog Night 2	AnalgNt2
51	Guitar Pop 3	GtPop3
52	Pop Beat	PopBeat

No.	English Name	LCD Name
53	Soft Beat	SoftBeat
54	60's Pop	60'sPop
55	Sting Latin	StigLatn
56	R&B Ballad 1	R&BBld1
57	Guitar Ballad	GtBallad
58	Ballad Rock	BalladRk
59	Piano Pop 1	PianoPop
60	Soft Ballad	SoftBald
61	Natural Ballad	NatuBld
62	Love Ballad	LoveBld
63	Easy Ballad	EasyBld
64	Miami Folk	MiamiBld
65	Slow Ballad	SlowBald
66	Folk Ballad	FolkBld
67	Pop Ballad 1	PopBld1
68	Pop Ballad 2	PopBld2
69	EP Ballad	EPBallad
70	New R&B Ballad	NewRBBld
ROCK		
71	Rock	Rock
72	New Wave	NewWave
73	Ska	Ska
74	Pop Rock 2	PopRock2
75	Slow Rock	SlowRock
76	70's Rock&Roll	70'sRock
77	Folk Rock	FolkRock
78	Soft Rock	SoftRock
79	Old Rock	OldRock
80	Easy Rock	EasyRock
81	New Shuffle	NewShufl
82	Rock Hip Hop	RkHipHop
83	Rock&Roll 1	R'N'R1
84	Rock Shuffle	RockShfl
85	Rock&Roll 2	R'N'R2
BALLROOM		
86	Tango 1	Tango1
87	Spain Matador	Matador
88	Twist 1	Twist1
89	Twist 2	Twist2
90	Big Band Fox	BandFox
91	Tango 2	Tango2
92	Slow Fox	SlowFox
93	Slow Waltz 1	SlowWlz1
94	Swing Fox	SwingFox
95	Salsa 1	Salsa1
96	Cha Cha 1	ChaCha1
97	Cha Cha 2	ChaCha2
98	Beguine 1	Beguine1
99	Beguine 2	Beguine2
100	Rumba 1	Rumba1
101	Samba 1	Samba1
102	Samba 2	Samba2
103	Jive	Jive
104	Fox Trot	FoxTrot
DANCE		
105	Techno 1	Techno1

No.	English Name	LCD Name
106	Hip Hop 1	HipHop1
107	House 1	House
108	House 2	House
109	Pop Dance 2	PopDanc2
110	Down Beat	DownBeat
111	Techno 2	Techno2
112	Progressive	Progress
113	Rap 1	Rap1
114	Rap 2	Rap2
115	Disco	Disco
116	Soft Disco	SoftDisc
117	Disco Party	DscParty
118	70's Disco	70'sDisc
119	70's Disco Funk	70'sFunk
120	Club Dance	ClubDanc
121	Euro Dance	EuroDanc
122	Hip Hop 2	HipHop2
123	Garage	Garage
SOUL & FUNK		
124	Funk 1	Funk1
125	Classic Funk	ClasFunk
126	Jay R&B	JayR&B
127	Gospel Swing	GopSwing
128	Gospel	Gospel
129	Funk 2	Funk2
130	Electric Funk	ElecFunk
131	Groove Funk	GrooveFk
132	Rubber Funk	RubberFk
133	Cool Funky	ColFunky
134	Jazz Funk	JazzFunk
135	Groove	Groove
136	Soul	Soul
137	Hip Hop Soul	HipHopSl
138	Hip Hop Beat	HipHopBt
139	R&B	R&B
140	Soul Beat	SoulBeat
141	R&B Ballad 2	R&BBld2
142	British Soul Pop	BritSoul
SWING & JAZZ		
143	Latin Jazz 1	LatinJz1
144	Big Band	BigBand
145	Dixieland 1	Dixland1
146	Guitar Swing 1	GtSwing1
147	Broadway Big Band	BwayBand
148	Swing	Swing
149	Latin Jazz 2	LatinJz2
150	Fusion	Fusion
151	Acid Jazz	AcidJazz
152	Cool Jazz Ballad	CoolJzBd
153	Swing Shuffle	SwingSfl
154	Big Band Medium	BandMid
155	Dixieland 2	Dixland2
156	Acoustic Jazz	AcoustJz
157	Guitar Swing 2	GtSwing2
158	Ragtime	Ragtime
159	Modern Jazz Ballad	MdJzBald

Style List

No	Name	Abbr
160	Swing Ballad	SwingBal
161	Orchestra Swing	OrhSwing
COUNTRY		
162	Country Pop 1	CntyPop1
163	Bluegrass 1	Bluegrs1
164	8Beat Country	Ct8Beat
165	Modern Country	ModernCt
166	Country Pop 2	CntyPop2
167	Bluegrass 2	Bluegrs2
168	2/4 Country	2/4Cntry
169	Country Quick Steps	QuickStp
170	Country Folk	CntyFolk
171	Country Shuffle	CnyShufl
LATIN & LATIN DANCE		
172	Samba 3	Samba3
173	Bossa Nova	BosaNov
174	Latin	Latin
175	New Reggae	NewRegga
176	Reggae Dance	DanRegga
177	Paso Doble	Pasodobl
178	Lite Bossa	LteBossa
179	Latin Rock	LatinRck
180	Beguine 3	Beguine3
181	Slow Bolero	SlBolero
182	Disco Samba	DscSamba
183	Mambo	Mambo
184	Meneito	Meneito
185	Rumba 2	Rumba2
186	Rumba 3	Rumba3
187	Tikitikita	Tikitkta
188	Lambada	Lambada
189	Pop Cha Cha 1	PChaCha1
190	Pop Cha Cha 2	PChaCha2
191	Salsa 2	Salsa2
WALTZ & TRADITIONAL		
192	Waltz	Waltz
193	Old Waltz	OldWaltz
194	English Waltz	EngWaltz
195	German Waltz	GemWaltz
196	Italian Mazurka	ItaMazuk
197	Mexico Waltz	MexWaltz
198	Vienna Waltz	VinaWtz
199	Slow Waltz 2	SlwWltz2
200	Jazz Waltz	JzWaltz
201	Polka	Polka
202	6/8 March	6/8March
203	German Polka	GerPolka
204	Party Polka	PtyPolka
205	Army March	ArmMarch
206	March	March
207	US March	USMarch
208	Musette	Musette
209	French Musette	FMusette
210	Mazurka	Mazurke
WORLD		
211	Enka Ballad	EnkaBald

No	Name	Abbr
212	Laendler	Laendler
213	Hawaiian	Hawaiian
214	Sirtake	Sirtake
215	Dangdut	Dangdut
216	6/8 Flipper	6/8Flipp
217	New Age	NewAge
218	Tarantella	Tarantel
219	Scottish	Scottish
220	Norteno	Norteno
221	Chinese R&B 1	ChnR&B1
222	Chinese Hip Hop 1	ChH-Hop1
223	Chinese Folk Rock	ChFolkRk
224	GuangXi Folk	GuangXi
225	XinJiang Rock	XJiangRK
226	Chinese Disco	ChnDisco
227	BeiJing Beat	BeiJing
228	Chinese Shuffle	ChnShufl
229	YunNan Pop	YunNan1
230	Chinese Funk	ChnFunk
231	Chinese Rock	ChnRock
232	Chinese R&B 2	ChnR&B2
233	Chinese Folk 1	ChnFolk1
234	Chinese Beat	ChnBeat
235	Chinese R&B 3	ChnR&B3
236	JiangNan Pop	JNan Pop
237	Chinese Folk 2	ChnFolk2
238	Chinese Hip Hop 2	ChH-Hop2
239	NeiMeng Folk	NeiMFolk
240	Chinese Techno	ChTechno
241	DaiZu Folk	DaiZu
242	XinJiang Dance	XinJiang
243	New Folk 1	NewFolk1
244	New Folk 2	NewFolk2
245	JiangNan Folk 1	JiangNan
246	Korea Folk	Korea
247	Kazak Folk	Hasake
248	ZangZu Folk	ZangZu
249	XinJiang Folk	XJangFok
250	Folk Band 1	FolkBnd1
251	Folk Band 2	FolkBnd2
252	Yang Ge	Yangge
253	HeNan	HeNan
254	YunNan	YunNan
255	NeiMengGu	NeiMeng
256	JiangNan Folk 2	JangNan
257	Jubilance	Jubilanc
258	Oriental Modern Dance	OrlDance
259	Oriental	Oriental
260	GuangDong	GungDong
PIANIST		
261	Pianist 1	Pianist1
262	Pianist 2	Pianist2
263	Pianist 3	Pianist3
264	Jazz 1	Jazz1

No	Name	Abbr
265	Jazz 2	Jazz2
266	Jazz Pub	JazzPub
267	Piano Rock	PianoRk
268	Pop Bossa	PopBossa
269	March 1	March1
270	March 2	March2
271	Piano Beat	PianoBt
272	Piano Bar	PianoBar
273	Blues	Blues
274	Pop Waltz	PopWaltz
275	Slow Waltz	SlwWltz
276	Ballad 1	Ballad1
277	Ballad 2	Ballad2
278	6/8 Ballad	6/8Ballad
279	Pop 1	Pop1
280	Pop 2	Pop2

NO.	English Name	LCD Name
FOLK & COUNTRY		
1	Toccata	Toccata
2	Carry Me Back To Old Virginny	CarMeBk
3	El Condor Pasa	ElCondor
4	Traumerei	Traumere
5	Aloha Oe	AlohaOe
6	Greensleeves	Sleeves
7	Home Sweet Home	SwHome
8	Heidenroslein	Heidenro
9	Long,Long Ago	LonglAgo
10	Die Lorelei	Lorelei
11	Over The Waves	OverWave
12	My Darling Clementine	Clemnt
13	Gwine To Run All Night	Gwine
14	Symphony No.6 "Pathetic"	Sympony6
15	Oh! Susanna	Susanna
16	Prelude Op.28 No.15	Prelude
17	The House Of The Rising Sun	RiseSun
18	Menuet	Menuet
GOLDEN & POP		
19	Valse Des Fleurs	Fleurs
20	Fruhlingsstimmen	Fruhling
21	Frohlicher Landmann	Landmann
22	Are You Lonesome Tonight?	RULone
23	Toy Symphony	ToySymph
24	Auld Lang Syne	AulSyne
25	Ave Maria	Avemaria
26	Tales Of Hoffman	Hoffman
27	La Donne Mobile	DoneMble
28	Serenata	Serenata
29	Bridal March	Bridal
30	Can'T Help Fallin' In Love	CantHlp
31	Chanson Du Toreador	Toreador
32	Danny Boy	DannyBoy
33	Ich Liebe Dich	LieDich
34	Wiegenlied 2	Wieglid2
35	Spanish Serenade	Serenade
36	Piano Concerto	Concerto
37	Piano Concerto 2	Concrto2
38	Madame Butterfly	Madame
39	Invitation To The Dance	ToDance
40	Wiegenlied 3	Wieglid3
41	Jingle Bells	Jinbells
42	Joy To The World	JoyWorld
43	La Paloma	LaPaloma
44	My Bonnie	MyBonnie
45	La Reine De Saba	Saba
46	La Cucaracha	Cucarach
47	Little Brown Jug	BrownJug
48	Battle Hymne Of The Republic	BatlHyme
49	Yellow Rose Of Texas	YellRose
50	The Wabash Cannon Ball	CannBall
51	Annie Laurie	AnnieLa
52	Turkish March	Turkish

NO.	English Name	LCD Name
53	An Die Musik	Musik
54	Lieder Ohne Worte Op.62 No.6	Lieder
55	Red River Valley	RedRiver
56	Die Forelle	Forelle
57	Symphony No. 94 "Suprise"	No. 94
58	Polonaise	Polonais
59	Rondeau	Rondeau
60	Moments Musicaux	Musicaux
61	Silent Night	Silnight
62	Moldau	Moldau
63	Summertime	Summer
64	Dreaming Of Home And Mother	Dreaming
65	Ring Ring De Banjo	DeBanjo
66	Der Lindenbaum	DerLinde
67	Zigeunerweisen	Zigeuner
68	The Maiden's Prayer	Prayer
69	Fur Elise	FurElise
70	Der Freischutz	DerFreis
71	Maria! Mari!	Maria!
CLASSICAL		
72	Waves Of The Danube	WaDanube
73	Santa Lucia	SantaLuc
74	Solveig's Song	Solveig
75	Pianosonatan 08 IN Cm IN Pathetique	Piano08
76	Brahms Waltz	BrmsWalz
77	Aida	Aida
78	Carmen-Prelude	Carmen2
79	L'Arlesienne	L'Arlesi
80	Uungarische Tanz	Uungaris
81	Mazurka	Mazurka
82	Pizzicato Polka	Polka
83	Menuett	Menuett
84	Rigoletto	Rigolett
85	Serenade	Serenade
86	Song Without Words	SongNoWd
87	Swan	Swan
88	Prelude To Act 2 (Swan Lake)	SwanLak1
89	Valse (Swan lake)	SwanLak2
90	The Happy Farmer	HpFarmer
91	The Sleeping Beauty	SleepBty
92	La Traviata	LaTravia
93	Wiegenlied	Wiegenli
94	Mov.2 Adagio Non Troppo Piano Sonata No.9 In D	Sonata9
95	Mov.1 Andante Grazioso Piano Sonata No.11 In A [Alla TurSonata11ca]	Sonata11
96	Prelude In C	Prelude
97	Chinese Dance	ChDance
98	Emperors Waltz	EmprWalz
99	March Militaire	MilMar1
100	Symphony No.40	Symphony
PIANO		
101	Hanon Piano Fingering 1	Hanon 1
102	Hanon Piano Fingering 2	Hanon 2
103	Hanon Piano Fingering 3	Hanon 3
104	Hanon Piano Fingering 4	Hanon 4

Song List

105	Hanon Piano Fingering 5	Hanon 5
106	Basic Tutorial Beyer Piano 12	Beyer 12
107	Basic Tutorial Beyer Piano 13	Beyer 13
108	Basic Tutorial Beyer Piano 14	Beyer 14
109	Basic Tutorial Beyer Piano 15	Beyer 15
110	Basic Tutorial Beyer Piano 18	Beyer 18
111	Cuckoo	Cuckoo
112	Basic Tutorial Beyer Piano 21	Beyer 21
113	Basic Tutorial Beyer Piano 29	Beyer 29
114	Butterfly	Butterfly
115	Basic Tutorial Beyer Piano 45	Beyer 45
116	Christmas Eve	Chriseve
117	Basic Tutorial Beyer Piano 50	Beyer 50
118	Basic Tutorial Beyer Piano 52	Beyer 52
119	Basic Tutorial Beyer Piano 55	Beyer 55
120	Basic Tutorial Beyer Piano 59	Beyer 59

Demo List

NO.	English Name	LCD Name
1	Demo	Demo
2	Bossa Nova	BosaNova
3	Fusion	Fusion
4	Jazz	Jazz
5	Funk	Funk

MIDI Implementation Chart

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

• Mode 1: OMNI ON, POLY   • Mode 3: OMNI OFF, POLY   ○: YES
• Mode 2: OMNI ON, MONO   • Mode 4: OMNI OFF, MONO   ×: NO