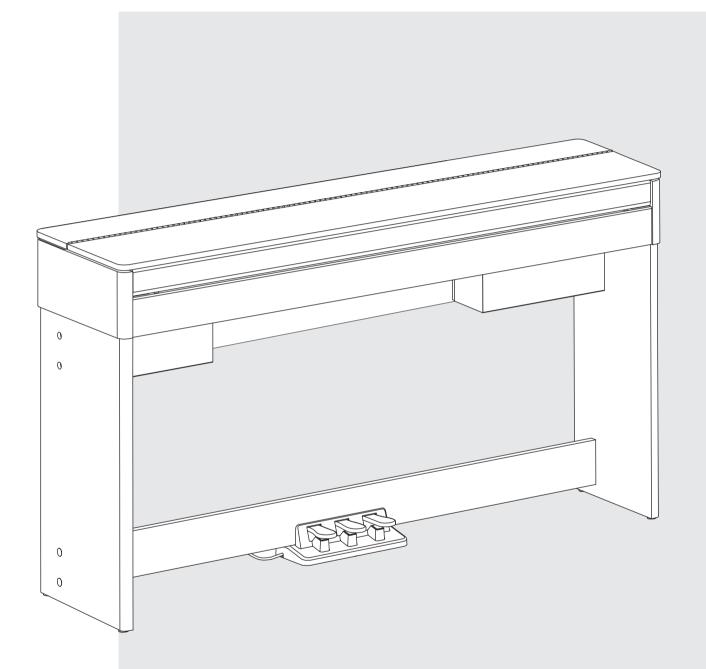
DIGITAL PIANO



Owner's Manual

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

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

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

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

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

CAUTION

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

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

Power Supply

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

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

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

Connections

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

Location

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

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

Interference with other electrical devices

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

Cleaning

Clean only with a soft, dry cloth.

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

Handling

Do not apply excessive force to the switches or controls.

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

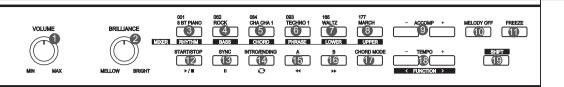
Disconnect all cables before moving the instrument.

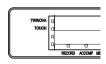
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Panel & Display Description

Front Panel





- 1. [VOLUME] knob Adjust master volume
- 2. [BRILLIANCE] knob Adjust voice brilliance
- 9. [ACCOMP] button Adjust the ACCOMP volume
- 10. [MELODY OFF] button Enter MELODY OFF state
- **11. [FREEZE] button**Freeze the style parameter.
- 17. [CHORD MODE] button Choose chord mode
- (SHIFT) button
 Select the second function of some buttons

When [SHIFT] button pressed

- 3. [RHYTHM] button
 Adjust the RHYTHM volume
- 4. [BASS] button Adjust BASS volume
- 5. [CHORD] button Adjust CHORD volume
- 6. [PHRASE] button
 Adjust the PHRASE volume
- 7. [LOWER] button Adjust LOWER volume
- 8. [UPPER] button Adjust UPPER volume
- 18. [FUNCTION+/-] button
 Choose the function menu

When [SHIFT] button released 3~8. Style direct button
Shortcut to select a style

18. [TEMPO+/-] button Adjust the tempo

SONG MODE:

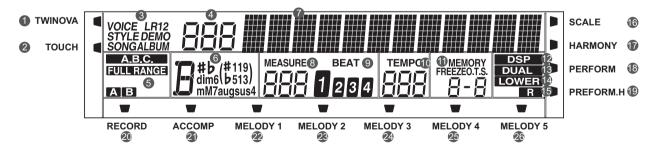
- **12. [START/STOP] button**Start or stop playing the song
- **13. [PAUSE] button**Pause or continue playing the song
- 14. [REPEAT A/B] button

 Set the beginning and ending location of loop to the current song
- **15. [REW] button**Rewind the song
- **16. [FF] button**Fast forward the song

STYLE MODE:

- **12. [START/STOP] button**Start or stop playing the style
- 13. [SYNC START] button
 Turn the Sync Start on or off
- **14. [INTRO/ENDING] button** Play the Intro or Ending
- **15. [FILL A] button** A Fill-in A plays
- **16. [FILL B] button** A Fill-in B plays

LCD

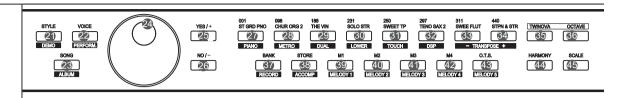


- 1. Twinova
- 2. Touch
- 3. Voice/Style/Demo/Song/Album
- 4. Number
- 5. A.B.C/Full range/Accompaniment section
- 6. Chord
- 7. Character
- 8. Measure

- 9. Beat
- 10. Tempo
- 11. Memory/Freeze/O.T.S./Bank
- 12. DSP effect
- 13. Dual voice
- 14. Lower voice
- 15. Right hand
- 16. Scale
- 17. Harmony

- 18. Performance assistant
- 19. Performance assistant high
- 20. Record
- 21. ACCOMP track
- 22. MELODY 1 track
- 23. MELODY 2 track
- 24. MELODY 3 track
- 25. MELODY 4 track
- 26. MELODY 5 track





When [SHIFT] button released

21. [STYLE] button Enter style mode

22. [VOICE] button Enter voice mode

23. [SONG] button
Enter song mode and play songs

27~34. Voice direct button Shortcut to select a voice

37. [BANK] buttonAdjust the memory bank

38. [STORE] button Register the current panel settings

39~42. M1~M4 button
Recall the registered panel settings

43. [O.T.S] buttonTurn one touch setting on or off

When [SHIFT] button pressed 38. [ACCOMP] button

Select the accomp track to record

39~43. MELODY 1-5 button
Select the melody1-5 track to record

When [SHIFT] button pressed

21. [DEMO] button Enter demo mode

22. [PERFORM] button
Enter the Performance Assistant mode

23. [ALBUM] button Enter album mode

27. [PIANO] button Select the piano mode

28. [METRONOME] button

Turn the metronome on or off

29. [DUAL] button
Turn the Voice R2 on or off

30. [LOWER] buttonTurn the Voice L on or off

31. [TOUCH] buttonChoose a keyboard touch setting

32. [DSP] buttonTurn the DSP effect on or off

33~34. [TRANSPOSE+/-] button Adjust the transpose

37. [RECORD] button Enter record mode

20. LCD

Display the information of the piano

24. Data dial
Adjust the value

25~26. [YES/+]/[NO/-] button Adjust the value

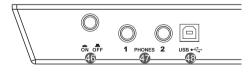
35. [TWINOVA] buttonTurn the TWINOVA on or off

36. [OCTAVE] buttonSet octave in TWINOVA mode

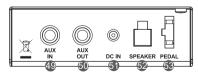
44. [HARMONY] buttonTurn harmony effect on or off

45. [SCALE] buttonTurn the scale effect on or off

Rear Panel

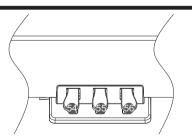


- **46. POWER ON / OFF**Turn the power on or off
- **47. PHONES 1 AND 2**Connect the headphone
- **48. USB Jack**Connect to a computer.
- 49. AUX. IN Jack Connect an external sound source, Such as an Mp3 or CD player.



- **50. AUX. OUT Jack**Connect the audio equipment.
- **51. DC IN Jack**Connect the DC 15V power adaptor.
- **52. SPEAKER Jack**Connect the speaker.
- 53. PEDAL Jack
 Connect to the pedals.

Pedal



54. Soft Pedal

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

55. Sostenuto Pedal

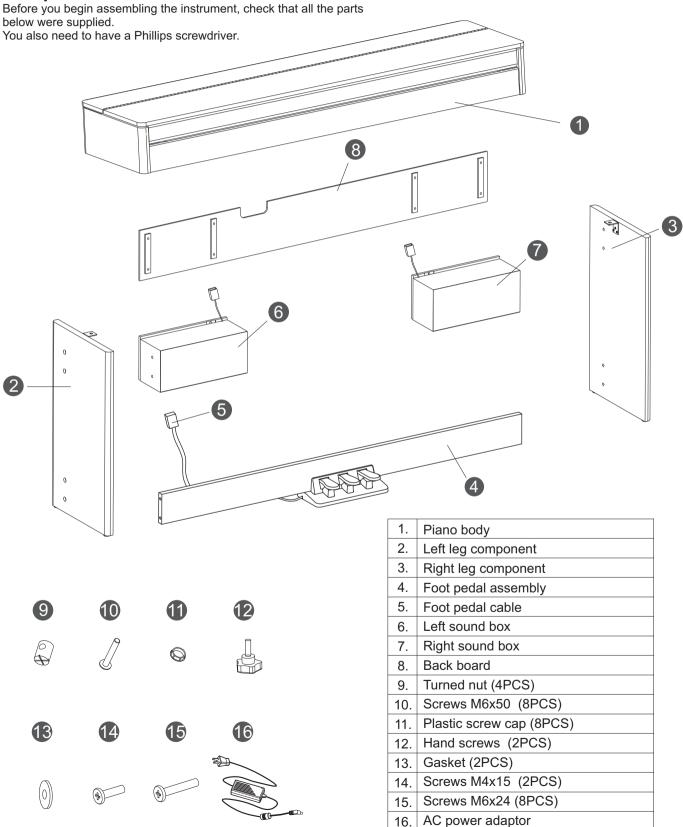
When you step on the sostenuto pedal, the notes played before you step on the pedal would have a sustain effect.

56. Sustain Pedal(multi function pedal) When you step on the sustain pedal, all notes played on the keyboard will have a longer sustain

Setup

This section contains information about setting up your instrument and preparing to play. Carefully read this section before turning the power on.

Setup Guide



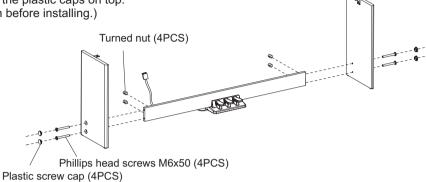
A. Install the piano legs as shown below.

First, insert the four Turned Nuts into the holes at the back of the Pedal Panel.

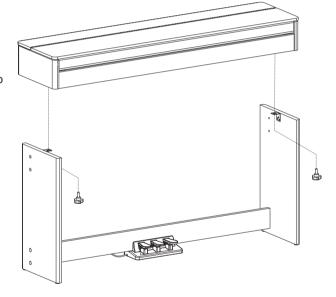
Second, align both the left and the right legs to each side of the Pedal Panel.

Third, insert the a screws M6x50 through the screw holes and fit them into the Turned Nuts.

Finally, tighten with a screwdriver and place the plastic caps on top. (Check the components in the right direction before installing.)



B. As shown below, Place the piano body on the stand, fix it with two hand screws.



C. Install the Sound Boxes as shown below.

First, place the sound boxes as shown.

Second, insert the screws M6x50 through holes on the legs and fit them into the sound box. Tighten with a screwdriver and place the plastic caps on top.

Third, insert the screws M4x15 through the sound boxes and fit them into the holes at the bottom of The Piano. Tighten with a screwdriver.

screwdriver.
Finally, insert the sound box cables into the socket at the bottom of the Piano body.

Plastic screw cap(4PCS)

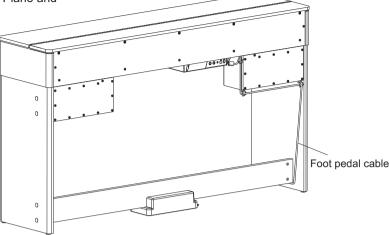
Plastic screw cap(4PCS)

Screw M4x15 (2PCS)

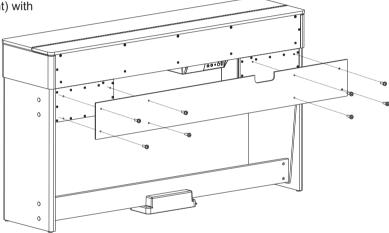
Gasket (2PCS)

Setup

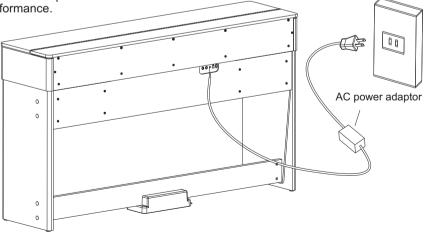
D. Insert the pedal cord to the Pedal jack at the rear of The Piano and fix the cord to the sound boxes with a cable tie.



E. Fix the back board to the sound box cover (left and right) with gasket and screw M4X24.



F. Connect the power cord to the DC IN jack at the rear of the piano, and then plug it to an AC outlet. The installation is completed now. Turn on the power and enjoy the perfect performance.

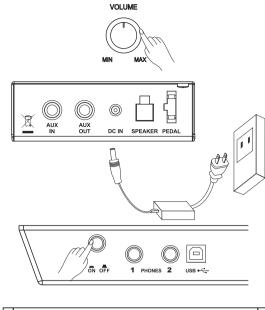


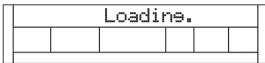
Power Supply

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

Note:

- **1.** In the idle mode, the piano will automatically shutdown in 30 minutes if you do not take any action on the piano.
- 2. When the keyboard is not in use or during thunderstorm, please disconnect the power for safety purpose.





Connections

Connecting a pair of Headphones

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

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

Jack2: when a pair of headphones is plugged into the jack 2, the sound can be heard from both headphones and speakers of the instrument.

Note:

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

Connecting an Audio Equipment

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

Note:

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

Connecting an MP3/CD Player

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

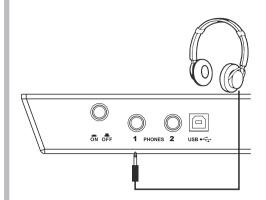
Connecting a Computer

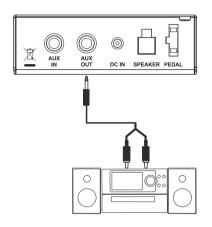
The instrument receives and transmits MIDI messages via the USB connector.

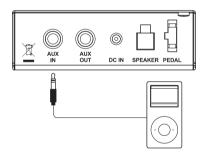
Connecting the MIDI IN /OUT to Computer via The MIDI/USB converter.

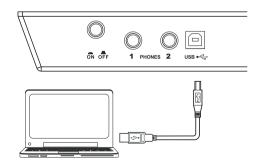
Note:

If this product does not work correctly when connected to a USB 3.0 port, you will need to connect to a USB 2.0 port.









Adjusting the Master Volume

Turn the [VOLUME] knob clockwise, the volume increases and vice versa.



Adjusting the Voice Brilliance

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



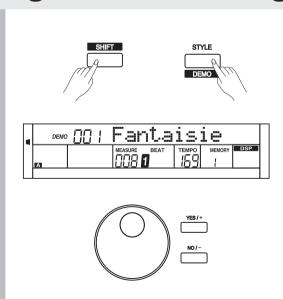
Playing the Demo Song

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

- Holding down [SHIFT] button, then press the [DEMO] button to start demo song playing, and the LCD will display the number and name of demo.
- 2. You can use the data dial, the [+/YES]/ [-/NO] button to select a demo song.
- **3.** Press the [START/STOP] button to stop playing. Holding down [SHIFT] button, then press the [demo] button to exit demo mode.

Note:

In the demo status, all the demo songs will loop playing. And all buttons and keys are unavailable except [DEMO], [START/STOP], [TEMPO+/-], [+/YES], [-/NO] button, data dial, [VOLUME] knob,[BRILLIANCE] knob and POWER SWITCH.



Playing Voices

The instrument features 500 exceptionally realistic voices. Please refer to **Voices List**.

Playing Voices

- In idle mode, press [VOICE] button or one of the voice direct buttons to enter the voice mode. LCD will display the "VOICE R1" indicate, and display the current voice name and number.
- **2.** Use the data dial, [+/YES]/ [-/NO] button to select a voice you want to play. You can also use the voice direct button to select one.
- **3.** You can play the keyboard and listen to the wonderful voice.

Note:

When the DUAL and LOWER function is on, you can press [VOICE] button repeatedly to choose the voice source. The corresponding LCD indicate will highlight between R1, R2, L.

Playing two voices simultaneously-DUAL

The piano has a dual voice function. You can play two voices to make the sound more richly.

- 1. In idle mode, holding down [SHIFT] button, and then press [DUAL] button to turn dual function on. The LCD displays the current voice name and number, and the indicate "VOICE R 2" and "DUAL"
- 2. You can use the data dial, the [+/YES], [-/NO] button or voice direct button to select the dual voice you want to play.
- 3. Play the keyboard, and then you will hear two different voices are sounded simultaneously in a layer. It seems like two different instruments playing at the same time.
- **4.** When dual function is on, holding down [SHIFT] button, and then pressing [DUAL] button will turn dual function off.

Note:

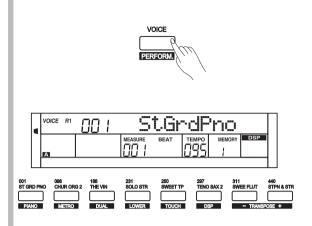
When the keyboard has been split, only the right hand area will respond the dual voice, the left hand will not respond to it.

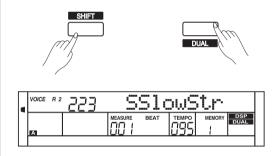
Playing Different Voices with Both hands-LOWER

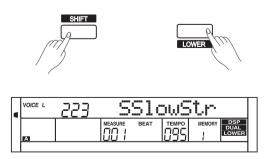
The lower function splits the keyboard into two section. Each section can be set to a voice. The left section voice is lower voice.

- 1. In idle mode, holding down [SHIFT] button, and then press [LOWER] button to turn the lower function on.

 The keyboard is split into two independent sections, and each section has its voice. The LCD displays the left hand voice name and number, and the indicate "VOICE L" and "LOWER"
- 2. You can use the data dial, the [+/YES], [-/NO] button or voice direct button to select the lower voice you want to play.







- Play the keyboard in different sections, and you will hear two different voices.
- 4. When lower function is on, holding down [SHIFT] button, and then pressing [LOWER] button will turn lower function off.
 Note:

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

Split Point

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

Touch

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

The piano has three touch types to choose.

- Holding down [SHIFT] button, and then press [TOUCH] button to enter touch settings. LCD displays the touch setting number. The default number is 2.
- 2. Choose a touch type.

When LCD displays touch setting, using [+/YES]/ [-/NO] or data dial or holding down [SHIFT] button, and then pressing [TOUCH] button can change touch type: OFF, 001(soft), 002(normal), 003(hard). Pressing [+/YES] and [-/NO] simultaneously will set touch value to default setting: 2(normal).

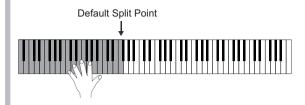
Transpose

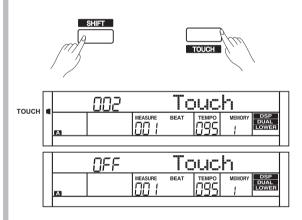
Transpose function allows the overall pitch of the instrument to be transposed up or down by a maximum of one octave in semitone steps.

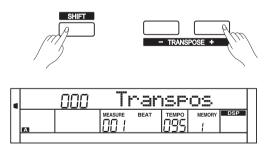
- Holding down [SHIFT] button, and then press [TRANSPOSE+] or [TRANSPOSE-] button to enter transpose settings. LCD displays the current transpose: xxx Transpos. The default number is 0.
- When LCD displays the current transpose, use [+/YES]/ [-/NO] or data dial to change transpose value. The max transpose is±12 semitones.
- Press [+/YES] and [-/NO] simultaneously will set the transpose value to its default setting: 000 Transpos.

Note:

If you want to play song in G key, you can set the transpose to -05 or 007, then you can play the G scale using C scale keys. Transpose setting is applied to all part of the music and keyboard.







Playing Voices

Piano Mode

This function is to set the voice of the whole keyboard to piano instantly.

- Holding down [SHIFT] button, and then press [PIANO] button can enter or exit piano mode.
- 2. In piano mode, the accompaniment control is the same to other mode.

The accompaniment only plays the rhythm part.

Note:

- In piano mode, you can set the mixer function and enter function menu.
- 2. In piano mode, the A.B.C. is automatically turned off.

Metronome

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

- Holding down [SHIFT] button, and then press the [METRO] button to turn the metronome on or off.
- 2. Metronome beat type setting Please refer to **Beat Type Setting**.

Note:

- 1. The metronome will respond in the next beat if it is opened when the accompaniment is playing.
- 2. When the metronome is on, then start the accompaniment, the metronome will adjust the beat to the accompaniment.
- 3. When recording, metronome beats cannot be recorded.

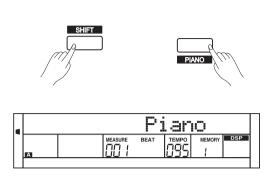
Twinova

The twinova mode can split the keyboard into two sections which have the same pitch and voice. It helps teaching and learning piano.

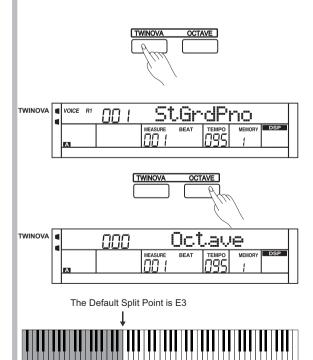
- Press [TWINOVA] button to turn twinova function on. The LCD indicate of twinova is lighted. In twinova mode, dual voice and lower voice are unavailable. The default split point is E3 (32). When you are ready to exit, press [TWINOVA] button again.
- 2. In twinova mode, the default voice of right hand and left hand is the upper voice you select before entering twinova mode. Use the data dial, the [+/YES], [-/NO] button or the voice direct button to choose voice.
- 3. In twinova mode, press [OCTAVE] button, LCD temporarily displays the octave value of twinova. Now you can use the data dial, the [+/YES], [-/NO] button to set octave value of twinova. The range of octave is -1 to 1. Press [+/YES] and [-/NO] simultaneously will set the octave value to its default setting: 000.

Note:

- 1. In the Demo and song mode, the [TWINOVA] button is invalid.
- Please refer to KeySplit setting to set the split point setting.
- The [OCTAVE] button is invalid outside twinova mode.
 When the octave is changed, some voices may be muted in the highest or lowest range.







Scale

This function allows you to experience different stretched tunings when you play certain genres of music that is not composed based on twelve equal interval.

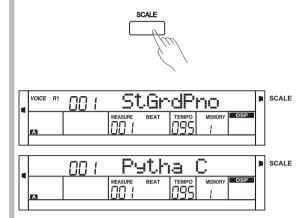
- **1.** Press [SCALE] button can open or close scale function. The corresponding indicate on the LCD will light or light off.
- 2. Scale type and root key selection When the scale function is on, long press [SCALE] button to open scale setting menu. The default setting is: 001 Pytha C. When the scale indicate is flashing, press [+/YES], [-/NO] button can select scale type. Use the C7-B7 key to set the root key. The LCD displays the scale type and root key.

The piano has six types of scale, as shown below:

Number	LCD Name
1	Pytha
2	Major
3	Minor
4	Mean Tone
5	Werck
6	Kirnberg

Note:

- 1. In scale setting status, if no operation is done within 5 seconds, this status will exit automatically.
- 2. The scale status will exit automatically in the song mode and demo





The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is to play the chords with your left hand using your selected accompaniment style, and then the accompaniment will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra. This keyboard features 200 styles in a variety of musical genres. Try to select some of the different styles (refer to Style List) and enjoy the auto accompaniment feature.

Play Auto Accompaniment(rhythm track only)

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

Play Auto Accompaniment(all tracks)

- 1. In style mode, press [CHORD MODE] button to enter "auto bass chord" (A.B.C.)mode. The keyboard is split into two sections. Left hand section is chord detect section. The LCD will show the indicate of "A.B.C." Now pressing any key in chord detect section(Sync Start status) you will hear the fantastic accompaniment. Press [CHORD MODE] button again to enter "FULL RANGE" mode. The LCD will show the indicate of "FULL RANGE". The whole keyboard is chord detect section.
- 2. You can press [SYNC] button and then play a chord in chord detect section to start auto accompaniment of all tracks. When you change a chord, the accompaniment automatically changes. You can also press [START/STOP] button to start auto accompaniment of rhythm track, then play a chord in chord detect section. It will start auto accompaniment of all tracks.

Note:

The piano can save 10 user styles. To use your styles, you should use the software of MEDELI to convert the style, then use the USB to save the styles to piano.

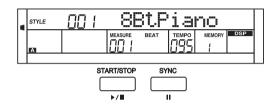
Accompaniment Sections

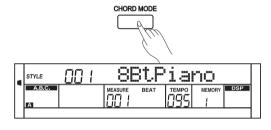
There are various types of Auto Accompaniment sections that allow you to vary the arrangement of the accompaniment to match the song you are playing.

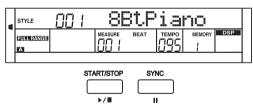
They are: Intro, Main (A, B), Fill (A, B), and Ending. By switching among them during your performance you can easily produce the dynamic elements of a professional sounding arrangement in your performance.





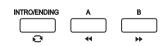






Default auto accompaniment section







INTRO Section

The intro is an opening section of the song. Each preset style features two different patterns. When the intro pattern finished, the system will automatically shift to the main section.

MAIN Section

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

FILL IN Section

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

ENDING Section

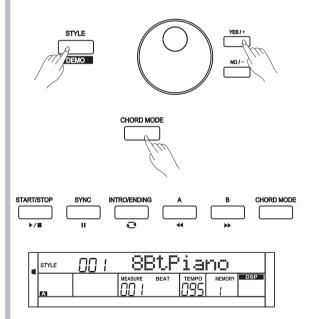
Ending is used for the ending of the song. When the ending is finished, accompaniment automatically stops. The length of the ending differs depending on the selected style.

Note:

Hold down the FILL A/B button when the style is playing, the selected fill-in pattern repeats continuously until button is released. Press FILL A/B button when style stops, it will change to the normal section.

Playing Different Accompaniment Sections

- 1. Press the [STYLE] button
- 2. Press style direct button or use the data dial, [+/YES]/ [-/NO] button to select a style.
- Press [CHORD MODE] button to enter A.B.C. (auto bass chord) mode.
- 4. Press [SYNC] button.
- 5. Press [FILL A] button.
- **6.** Press the [INTRO/ENDING] button. Now the "A" indicate 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.
- Press the [INTRO/ENDING] button again, and it will enter the Ending Section.
 When the ending is finished, the auto accompaniment automatically stops.



Accompaniment Volume

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

- Press [ACCOMP] button, the LCD will display ACCOMP volume (0 to 127). At this time, you can use the data dial, or [+/YES]/ [-/NO] button to adjust ACCOMP volume.
- 2. When the LCD will displays ACCOMP volume, press [+/YES] and [-/NO] button simultaneously can mute the ACCOMP volume. The LCD displays "OFF Accomp". press [+/YES] and [-/NO] button simultaneously again can open the ACCOMP volume.



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

Chord Basics

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

Triad Type

There are following basic triad types:

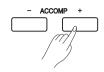
Major Triad	A root with a major third added above and a perfect fifth	
	will consist as a "Major Triad".	
Minor Triad	A root with a minor third added above and a perfect fifth	
IVIIIIOI TTIGG	will consist as a "Minor Triad".	
Augmented	A root with a major third added above and an	
Triad	augmented fifth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

Chord Inversion

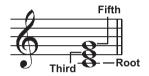
We define this chord its root is not in the bass (i.e., is not the lowest note) as an inversion chord. When the root is in the bass, we call the chord: root-position chord. If we put the Third and Fifth in the root position, then it forms "Inversion", we call this chord "Inversion Chord". See the following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

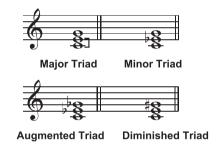
Chord Name

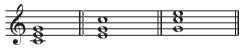
The chord name contains two parts content: Chord root and Chord type.



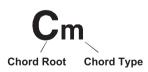


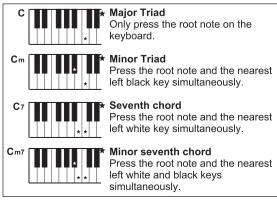






Root Position First Inversion Second Inversion





SINGLE FINGER

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

MULTI-FINGER

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

Note:

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

Tempo

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

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

The tempo will change when changing the style not playing the accompaniment. The tempo will not change when changing the style playing the accompaniment.

One Touch Setting

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

- 1. Press the [O.T.S.] button to turns on the One Touch Setting for current style.
- 2. Press one of the one touch setting buttons [M1]-[M4]. Various panel settings (such as voice, effect, etc.) that match the selected style can be instantly recalled with just a single button press.

Auto accompaniment is automatically turned on during O.T.S mode.

One Touch Setting parameter list: Part ON/OFF (VOICE R1, R2, L)

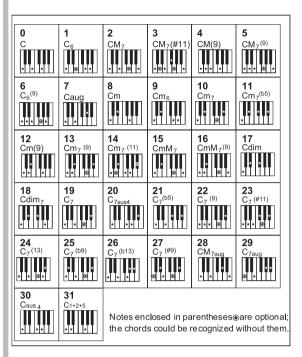
Voice Change (VOICE R1, R2, L)

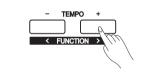
Voice Volume (VOICE R1, R2, L)

Voice Reverb Level (VOICE R1, R2, L) Voice Chorus Level (VOICE R1, R2, L)

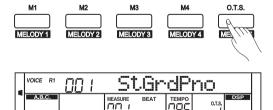
Note:

- 1. In O.T.S. mode, the A.B.C. function would turn on automatically.
- 2. In O.T.S. mode, the memory cannot be registered.









Harmony

The harmony function can add harmony effect to the main voice.

Harmony Switch

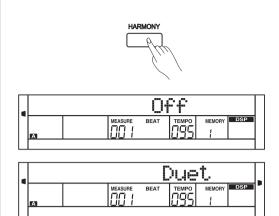
- **1.** Press [HARMONY] button. The LCD displays "OFF", which indicates the harmony effect is turned off now.
- 2. When the LCD displays "OFF", repeat the previous operation. The LCD now displays "Duet", which indicates the harmony effect is open, and the type is Duet.
- **3.** To choose a different harmony type, please refer to the harmony setting in function menu.



Open the A.B.C., first play a chord, then play notes in right hand section, the notes played in main voice will be added with the harmony effect.

Note:

The harmony types of 1+5, Octave, Echo, Tremolo, Trill will respond whether the A.B.C. is open or not. Other types of harmony will respond only when the A.B.C. is open.



Performance Assistant

There are 2 voices you can select to perform in performance assistant mode: Guitar. Piano.

What's the performance assistant?

Performance assistant is an easy-to-use function. With this function you will find playing to be more interesting. Even if you are not a keyboard player, the performance assistant will help you to play your familiar instrument voice on the keyboard. If you're a pianist, you can easier to achieve many hard perform skills on the keyboard with the help of this function.

Performance assistant will provided many wonderful phrases. Just use several keys and you will perform your own wonderful music.

Enter the Performance Assistant

- Holding down [SHIFT] button, and then press [PERFROM] button
 you can enter the performance assistant mode. The default setting
 is Guitar Mode and the LCD will display Guitar's voice name.
- **2.** You can use the Data Dial, [+/YES] or [-/NO] button to change the voice you want to perform.
- 3. In the measure field in LCD, the "4-4" will be displayed. It means the default beat value is the 4/4 and you can change the beat value you want in function menu. Please refer to Performance Beat setting in function menu. You can choose the beat between 2/4, 3/4, 4/4, and 6/8 beat.
- 4. In Performance Assistant mode, use [TEMPO+] or [TEMPO-] to change the tempo.

Guitar Mode

Guitar key map

The Guitar Mode makes you perform a guitar voice with keyboard just like you're playing a real guitar. In this mode you can use some perform skills like strum (5), broken chord (5), echoism (5) and also 2 endings.

Chord part

A0 to B3 is the chord part area. Play a chord in this area.

Sub Area 1

C4 to B4 (only white keys) is the sub area 1. 5 types of broken chord are provided in this area.

Sub Area 2

The 6 keys: C5 to A5 (only white keys) is just like real guitar's 6 strings. Play a free solo in this area.

Rhythm Area

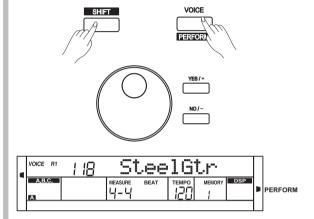
C6 to G6 (only white keys) is the rhythm area. Wonderful styles and strums are provided in this area. Use A6 to B6 to play an ending.

Position Change

Press C7, the guitar voice will be changed to a high position.

Note:

The keys above C7 doesn't respond in this mode.







Performance Assistant

Playing in Guitar Mode

Play a chord in the chord part.

A chord type will be displayed on the LCD and the guitar root note will be sounded.

Play a broken chord in the sub area 1.

When the chord type displayed, press a white key in the sub area 1, a wonderful broken chord phrase will start. Try to change the white key and you will hear some different type of phrase. Change the chord with your left hand; you will hear the broken chord phrase has a little bit change.

Play a free solo in the sub area 2.

When the chord type displayed, press a white key in the sub area 2 you can play guitar free solo, sounds like you're playing a real one. Try to change the chord with your left hand, and play your free solo. The last white key B5 is invalid.

Play a strum rhythm in the rhythm area.

When the chord type displayed, press a white key in the rhythm area you can play the magic strum rhythm. Try to change the chord with your left hand, and play your strums.

End the guitar performing.

Press the A6 or B6 to end your guitar performs. When the ending is finished, the phrase stops automatically.

Play the echoism.

All of black keys on Sub area 1, Sub area 2 and Rhythm area are echoism keys. There are 5 kinds of echoism to arrange on the C#, D#, F#, G#, A# circularly.

Change the position

Press the C7, the PERFORM.H icon will be lightened on the LCD. It means that the guitar position has been changed to the High position. Try to play the white keys in sub area 1, Sub area 2 and Rhythm area, listen to the phrase you are performing now.

Piano Mode

Piano Key Map

In Piano Mode, you can easily to achieve many hard piano perform skills just like playing the acoustic one. In this mode you can use some perform skills like piano rhythm (5), broken chord (5) and also 3 endings.

The piano key map is similar with the guitar key map. Press A6 to C7(white keys) will start an ending. All the black keys above C4 are invalid.

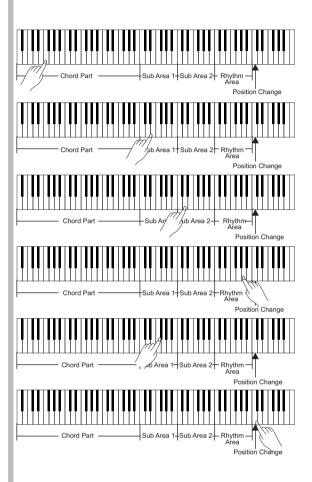
Playing in Piano Mode

- 1. Select Piano Mode.
 - In performance assistant mode, use data dial,[+/YES] or [-/NO] button to select Piano Mode.
- Play a chord in chord part. Play some phrases in Sub area and Rhythm area.
- **3.** Press the A6,B6 or C7 to ending your piano perform. When the ending is finished, the phrase stops automatically.

Exit the Performance Assistant

When the phrase stops, press the [VOICE], [STYLE], [SONG], [DEMO], [SHIFT]+[PERFORM] to exit the Performance Assistant mode.





Piano Kev map





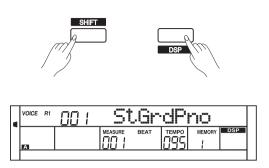
DSP Effect

With the built in digital effects, you can add ambiance and depth to your music in a variety of ways such as adding reverb that makes you sound like you are playing in a concert hall or adding harmony notes for a full, rich sound.

- The DSP effect is set to ON and the icon on the LCD is lightened when keyboard is power on. The chorus and reverb value can be adjusted in the function menu.
- Holding down [SHIFT] button, and then press the [DSP] button to turn DSP effect on or off.

Note:

It may cause a break or a noise while switching on/off the DSP when style and song playing. This is normal and need not panic.



Mixer

Mixer function can control the volume of different tracks.

- Holding down [SHIFT] button, and then press the [RHYTHM] button to set the Rhythm track volume. LCD displays "Rhythm" and the track volume.
- 2. When the LCD displays "Rhythm", use the data dial or the [+/YES]/[-/NO] button to adjust the value. Pressing [+/YES] and [-/NO] button simultaneously can turn off/on a track volume.
- **3.** The volume of other tracks such as Bass, Chord, Lower, and Upper can be set the same to Rhythm track.

Note:

In voice R1 setting status, the [UPPER] button adjusts the main voice volume. In voice R2 setting status, the [UPPER] button adjusts the R2 voice volume.





The option and parameters are as follows:

LCD Display	Range
Rhythm: xxx	0 - 127
Bass: xxx	0 - 127
Chord: xxx	0 - 127
Lower: xxx	0 - 127
Upper: xxx	0 - 127

Pedal Function

The sustain pedal is a single pedal which can be configured to different pedal function. Please refer the pedal setting menu for detail.

- Sustain Pedal(Pedel Sust)
 If assign pedal is set as "Pedel Sust", step on the assign pedal, all notes played on the keyboard will have a longer sustain
- 2. Pedal Start/Stop(Pedal St/T)

 If pedal assign is set as "Pedal St/T", the assign pedal will have the same function as [START/STOP] button.
- 3. Pedal Memory Select(Pedal Mem) If pedal assign is set as "Pedal Mem", it will load the next memory parameter from M1 when you step on the pedal. The total number of memory you can load is 32.







Function Menu

Holding down [SHIFT] button, and then press [FUNCTION</>] button to enter function menu. The LCD displays the current function menu option. Use [+/YES]/ [-/NO] or data dial to set parameter of the current menu.

The option and parameters are as follows:

No.	LCD display	Range	Default
1	xxx Tune	-50 ~ +50	000
2	xxx KeySplit	1 ~ 88	034
3	xxx BeatType	0, 2 ~ 9	004
4	xxx MetroVol	0~127	080
5	00x Pedal xxxx	Sust,St/T, Mem	Sust
6	xxx ReverbVol	0 ~ 127	Depend on voice
7	xxx ChorusVol	0 ~ 127	Depend on voice
8	XXX XXXX	Duet, StandardTrio, Full	Duet
		Chord, Rock Duet, Country	
		Duet, Country Trio, Block,	
		4 Close 1, 4 Close 2,	
		4 Open, 1+5, Octave,	
		Strum, Echo, Tremolo, Trill	
9	xxx HarmonySpeed	1 ~ 4	1
10	xxx Midi In	1 ~ 16, ALL	ALL
11	xxx Midi Out	1 ~ 16	001
12	xxx PowerOff	OFF, 30,60	030
13	xxx Perform Beat	4-4, 3-4, 2-4, 6-8	4-4

Note:

The function menu status will exit if no operation is done within 5 seconds.

Tune

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

- Holding down [SHIFT] button, and then press [FUNCTION</>] button to select tune menu. LCD displays "xxx Tune". Use [+/YES]/[-/NO] or data dial to change tune value. Its range is from -50 to 50 cents.
- Press [+/YES] and [-/NO] simultaneously will set the tune value to its default setting:000. The setting is applied to both accompaniment and the voice.

KeySplit

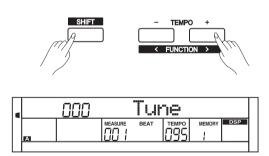
This function sets the point which separates the entire keyboard to two sections.

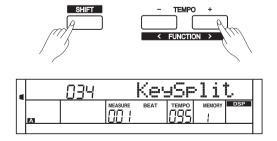
- Holding down [SHIFT] button, and then press [FUNCTION</>]
 button to select keysplit menu. LCD displays "xxx KeySplit". Use
 [+/YES]/ [-/NO] or data dial to change keysplit value. The range of
 keyspilit: 1~88.
- **2.** Press [+/YES] and [-/NO] simultaneously will set the keysplit value to its default setting: F#3(34).

Note:

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







Function Menu

Beat Type

- Holding down [SHIFT] button, and then press [FUNCTION</>]
 button to select beat type menu. LCD displays "xxx BeatType".
 Use [+/YES]/ [-/NO] or data dial to change beat type. The range of beat type: 0, 2~9.
- 2. Press [+/YES] and [-/NO] simultaneously will set the beat type value to its default setting: 004.

Metro Volume

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

Pedal Type

- Holding down [SHIFT] button, and then press [FUNCTION</>] button
 to select pedal type menu. LCD displays "00x Pedal xxxx".
 Use [+/YES]/ [-/NO] or data dial to change pedal type. 3 types of
 pedal are available: sustain pedal(Sust), accompaniment start/stop
 Pedal(St/T), memory switch pedal(Mem).
- **2.** Press [+/YES] and [-/NO] simultaneously will set the pedal type to its default setting: Sust.

Reverb Volume

- Holding down [SHIFT] button, and then press [FUNCTION</>] button
 to select reverb volume menu. LCD displays "xxx ReverbVol".
 Use [+/YES]/ [-/NO] or data dial to change reverb volume.
 Range: 0~127
- 2. Press [+/YES] and [-/NO] simultaneously will set the reverb volume to its default setting.

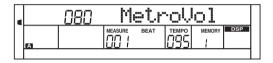
Note:

The reverb volume default value depends on the voice.

















Chorus Volume

- Holding down [SHIFT] button, and then press [FUNCTION</>]
 button to select chorus volume menu. LCD displays "xxx ChorusVol".
 Use [+/YES]/ [-/NO] or data dial to change chorus volume.
 Range: 0~127
- Press [+/YES] and [-/NO] simultaneously will set the chorus volume to its default setting.

Note:

The chorus volume default value depends on the voice.

Harmony Type

Holding down [SHIFT] button, and then press [FUNCTION</>]
button to select harmony type menu. LCD displays "xxx xxxx".
Use [+/YES]/ [-/NO] or data dial to change harmony type.

The harmony types are as follows:

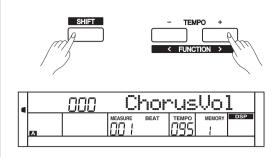
Number	LCD Display	
1	Duet	
2	StandardTrio	
3	Full Chord	
4	Rock Duet	
5	Country Duet	
6	Country Trio	
7	Block	
8	4 Close 1	
9	4 Close 2	
10	4 Open	
11	1+5	
12	Octave	
13	Strum	
14	Echo	
15	Tremolo	
16	Trill	

- Press [+/YES] and [-/NO] simultaneously will set harmony type to default setting: Duet.
- When the harmony type is echo, tremolo or trill, the speed of harmony effect note can be adjusted. Please refer to the harmony speed setting.
- **4.** When the harmony type is strum, echo, tremolo or trill, the tempo setting will also change the harmony note speed.

Harmony Speed

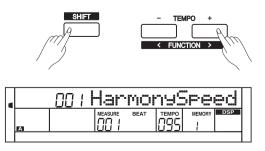
When the harmony type is echo, tremolo or trill, the harmony speed can set the harmony effect note speed to 4 default speed.

- Holding down [SHIFT] button, and then press [FUNCTION</>] button to select harmony speed menu. LCD displays "xxx HarmonySpeed". Use [+/YES]/ [-/NO] or data dial to change harmony speed. Range: 1~4.
- Press [+/YES] and [-/NO] simultaneously will set the chorus volume to its default setting:001.









Function Menu

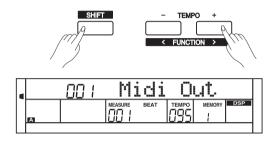
MIDI IN

- Holding down [SHIFT] button, and then press [FUNCTION</>] button to select MIDI in menu. LCD displays "xxx Midi In". Use [+/YES]/ [-/NO] or data dial to change MIDI in channel:1~16, ALL.
- 2. Press [+/YES] and [-/NO] simultaneously will set MIDI in channel to its default setting: ALL.

SHIFT - TEMPO + FUNCTION > FUNCTION > MEASURE BEAT TEMPO MEMORY DSP

MIDI OUT

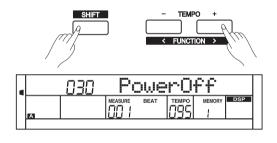
- Holding down [SHIFT] button, and then press [FUNCTION</>] button
 to select Midi Out menu. LCD displays "xxx Midi Out".
 Use [+/YES]/ [-/NO] or data dial to change Midi Out channel: 1~16.
- 2. Press [+/YES] and [-/NO] simultaneously will set Midi Out channel to its default setting: 001.



Power Off

This function is used to set automatic shutdown time.

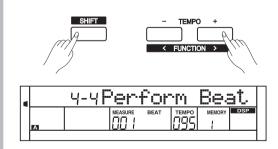
- Press [FUNCTION</>] button to select power off menu. LCD displays "xxx PowerOff". Use [+/YES]/ [-/NO] or data dial to change time value: OFF, 030, 060.
- 2. Press [+/YES] and [-/NO] simultaneously, the time will be restored to default: 030 (30 minutes).



Performance Beat Type

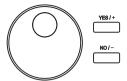
This function is used to set the performance assistant beat type.

- Holding down [SHIFT] button, and then press [FUNCTION</>] button to select Perform Beat menu. LCD displays "xxx Perform Beat".
 Use [+/YES]/ [-/NO] or data dial to change performance beat: 4-4, 3-4, 2-4, 6-8.
- **2.** Press [+/YES] and [-/NO] simultaneously will set performance beat channel to its default setting: 4-4.



Restore Factory Setting

Pressing and holding [+/YES] and [-/NO] button together and then turn the power on, the piano would be restored to factory setting. It will delete all the user data: user styles, user songs and registered memory. The LCD will display "Loading.". After the restore completed, the piano will start normally.



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

Registering the Panel Setting

- There are 8 memory banks, and each bank has 4 memories (M1-M4).
- 2. Holding down the [STORE] button, press one of the registration memory buttons: [M1] [M4]. Notice that the new settings will replace the previous memory data.

Note:

Press [STORE] and [M1] button then power on, the registration memory will be set to default.

Recalling the Registered Panel Settings

Press one of the registration memory buttons: [M1] - [M4]. In this example, the panel settings stored in the memory 2 of bank 1 are recalled.

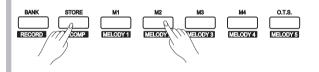
Note:

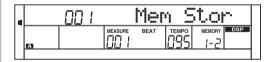
Registration data cannot be recalled when the One Touch Setting function is on.

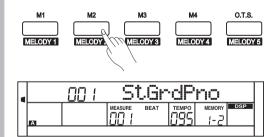
Selecting a Registration Bank

- Press the [BANK] button. There are 8 banks in all and each bank has 4 memories(M1-M4). Press the [BANK] button, the LCD displays "Mem Bank".
- 2. Select a bank. Use the data dial, [+/YES] or [-/NO] button to select a bank from 1 to 8.

Register Memory







Register Memory

Accompaniment Freeze

When the freeze function is turned on, the parameters about accompaniment (style number, accompaniment section, accompaniment volume, tempo, transpose, chord status, mixer, key split point) will not change when recalling a registered memory.

- Press the [FREEZE] button, the LCD will display FREEZE indicate. Now the accompaniment parameters would not be changed when recalling registered memory.
- 2. In freeze status, press the [FREEZE] button. The freeze function is turned off. The freeze indicate on LCD will light off.



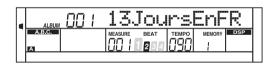


Song Album

The piano has Song Album function. It presets 120 album songs parameter, which includes style type, tempo, and voice. You can play the preset song using song album function using the parameter in accordance with that song. Please refer to appendix for album list.

- Holding down [SHIFT] button, and then press [ALBUM] button can turn the album function on or off.
- 2. When the album function is on, LCD displays the album song name and the indicate of album. Now use the data dial, [+/YES] or [-/NO] button can select the song to play. The piano will adjust the accompaniment parameters to fit that song.
- **3.** Press voice direct button or style direct button can exit the album function.





Song Recording

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

Among them, the accompaniment track is used for recording style and this recorded track is user song's accomp. Melody tracks are used for recording melodies.

Accomp track and melody track can be recorded together, but you cannot record two melody tracks at the same time. Of course you can only record accomp or melody; Accomp and several melody tracks can simultaneous playback. The recorded data will not lose when you turn off the power.

Start Recording

Before you start recording, you need to select a user song to keep the recording song, and set the recording tracks.

- Holding down [SHIFT] button, and then press the [RECORD] button to enter user song selection mode. The LCD displays "RecSong1" and sequence number.
 - Use the data dial, [+/YES] or [-/NO] button select the user song you want to record.
- 2. Holding down [SHIFT] button, and then press the [RECORD] button again to enter record preparation mode. LCD lightens the "REC" flag, and LCD will flash beat indicate. The piano will automatically select a empty track to record your performance. The LCD indicate in the below which flashes shows the record track.
- 3. In the recording preparation status, you can adjust parameters such as the voice, style and tempo. When recording a new song, it will automatically select "Melody 1" as the recorded track. Holding down [SHIFT] button, and then press "ACCOMP" (or "MELODY1" to "MELODY 5") to make your own selection. The ACCOMP track and one of MELODY track can be recorded at the same time, but it cannot record two MOLODY track simultaneously.
- 4. Press [START/STOP] button or play the keyboard to start recording. When choosing the accomp tack and A.B.C. is open, play an effective chords in left hand section or press [START/STOP] button would start recording.

Note:

Style can only be recorded in "Accomp" track. The recording track LCD indicate has three states: Blinking, Light, Go out.

Blinking: It means the track was chose for recording. If the track have recorded data, the original data will be replaced.

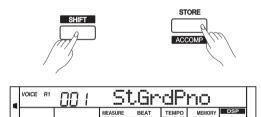
Light: It means this track have data, the recording process will record data with playback the recorded track at the same time.

Go out: It means this track has no data or has data which can not playback when recording.

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







RECORD ACCOMP MELODY 1 MELODY 2 MELODY 3 MELODY 4 MELODY 5



Song Recording

Stop Recording

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

Playback Recording

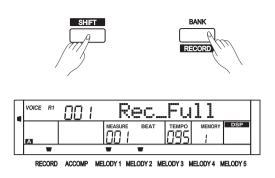
- When recording is in process, holding down [SHIFT] button and then press the [RECORD] button, it will stop recording and enter the song play mode, and the current recorded song will play automatically in circle.
- 2. Press the [SONG] button to enter the song mode and it will play all songs circularly. Use the data dial, [+/YES] or [-/NO] button to select a song, there are 70 songs in all, including 10 user songs (61~70). If there is no data in the selected user song, it will display "NoFile" and stop playing.
- **3.** You can select one user song in song stop playing mode, press [PLAY/STOP] button, this user song will play circularly.

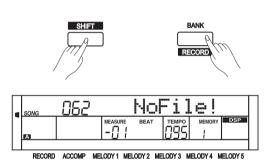
Delete User Song

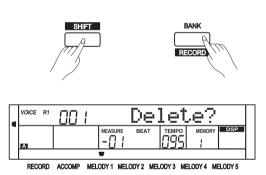
- **1.** Pressing and holding [RECORD] and [SONG] button together and turn power on simultaneously, all user songs will be erased.
- 2. In the recording preparation status, holding down [SHIFT] button and then press the [RECORD] button for two second, the LCD will display "Delete?". Holding down [SHIFT] button then press [ACCOMP] (or [MELODY 1] to [MELODY 5]) button to select the track you want to delete.

When some track indicate is lightened, it indicates that the track data you want to delete, otherwise, it indicate that the track data you want to keep. If all the track indicates are lightened, the whole user song will be erased after confirmation.

3. Choose the track you want to delete, press [+/YES] to confirm and the recorded data in this track will be erased. Press [-/NO] to quit this step, and go back to the recording preparation status







The piano has 70 songs in all, including 10 user songs.

Listen to the songs

- **1.** Press the [SONG] button to enter the song mode. The LCD shows "SONG" indicate and it will play all songs circularly.
- 2. Use the data dial, [+/YES] or [-/NO] button to select a song.
- **3.** Once you start playing a song by pressing [►/■] button, it will play current song repeatedly.
- 4. When the song is stopped, press the style or voice direct button, [DUAL] button and so on 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 song 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.

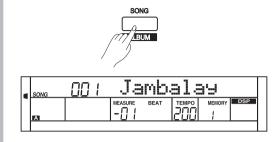
3. Song Repeat

When playing the song, press the [3] to set the loop begin and press it again to set the loop end. When in loop status, press [3] again to quit the loop playing status.

Practice Song

In the song stops playback state [MELODY OFF] button to enter the Melody off mode. The LCD display "R" signs lit.

Said closing songs right hand melody, press [start / stop]button Began to play songs will only the left hand accompaniment sound.









MIDI

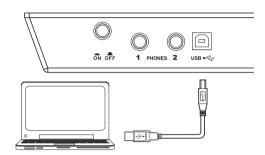
With the MIDI functions you can expand your musical possibilities. This section will let you know what MIDI is, and what it can do, as well as how you can use MIDI on your instrument.

What's MIDI?

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.

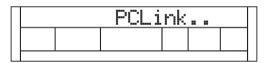
The instrument can output the real-time playback information via MIDI and control external MIDI devices. The instrument can also accept incoming MIDI messages and generate sound accordingly.

This piano has a USB port, which can be connected to a PC as an MIDI input or MIDI output.



Upload/Download Data from the Computer

- **1.** Connect a standard USB cable between the rear-panel USB jack on the instrument and the USB jack on your computer.
- Power on the piano first, and then open the PCSUITE software in your computer. If the LCD displays "PCLink.." it indicates the piano connects the PC successfully.
- You can download 10 MIDI files to the keyboard as user songs or upload the user songs to PC.
- 4. You can upload user styles to the computer as a backup or download them to the keyboard. You can upload memory files to the computer as a backup or download them to the keyboard.
- Please refer to software operation instructions for detail operating methods.



Troubleshooting

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

Specifications

LCD Display

Multifunctional LCD

Keys

88 Hammer-Action Keys

Polyphony

64

Voices

500

Sonas

70, including 10 user songs

Styles

210, including 10 user styles

Demos

5

Control button

Power Switch, Volume Knob, Brilliance Knob, Style direct buttons(Mixer buttons), Tempo+/-(Function+/-), Shift, Melody Off, Voice(Perform), Style(Demo), Song(Album), Yes/+, No/-, Voice direct buttons(Piano), Metronome, Dual, Lower, Touch, Dsp, Transpose+/-), Scale, Twinova, Octave, Bank, Store, M1-M4, O.T.S., Accomp+/-, Data dial, Freeze, Harmony.

Accompaniment/Song Control

Start/Stop, Sync Start(Pause), Intro/Ending(Repeat A/B), Fill A(REW), Fill B(FF), Chord Mode

Record

Record, Accomp track, Melody track 1~5

Panel Memory

32

Connectors

DC IN, Headphones, AUX IN, AUX OUT, USB

Power Supply

DC 15V IN

Speaker

4ohm 15W X 2

Dimensions

1388(L)x 308(W)x 788(H)mm

Weight

37kg

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

Voice List

	Name	LCD Name
iand	o Stereo Grand Piano	StCrdD
-		StGrdPno
_	Acoustic Grand Piano (wide) 1	GrandPnW
_	Acoustic Grand Piano (dark)	GrandPnD
_	Octave Piano 1	OctPno1
_	Octave Piano 2	OctPno2
_	Piano & Strings	Pno&Str
	Piano & Choir	Pno&Cho
-	Acoustic Grand Piano	GrandPno
_	Stereo Bright Piano	StBrtPno
_	Bright Acoustic Piano	BritePno
_	Bright Acoustic Piano (wide) 1	BritePnW
12 (Chorus Piano	ChoruPno
13 E	Electric Grand Piano	E.Grand
	Electric Grand Piano (wide)	E.GrandW
15 8	Stereo Honk-Tonk	StHonkTo
6 I	Honky-tonk Piano	HnkyTonk
17 H	Honky-tonk Piano (wide) 1	HnyTonkW
18 8	Stereo Hard Electric Piano	StHarEp
9 [Detuned Electric Piano 1	DetunEP1
20 [Detuned Electric Piano 2	DetunEP2
21 E	Electric Piano 1	E.Piano1
22 E	Electric Piano 2	E.Piano2
_	Electric Piano (wide) 1	EPnoW1
-	Electric Piano (wide) 2	EPnoW2
-	EP Legend	EPLegend
_	EP Phase	EPPhase
	60's Electric Piano	60'sEP
_	Electric Piano 1 (velocity mix)	E.PnoV1
	Electric Piano 2 (velocity mix)	E.PnoV2
_	Velocity Crossfade Electric Piano	VeCrosEP
-	Layered Electric Piano 1	LayerEp1
_	_ayered Electric Piano 2	LayerEp1
_	Nylon Electric Piano 2	NylonEP
	Warm Electric Piano	WarmEp
_		GraHarps
-	Grand Harpsichord	<u> </u>
_	Harpsichord 1	Harpsi
_	Harpsichord 2	Harpsi2
_	Harpsichord (wide)	HarpsiW
_	Harpsichord (octave mix) 1	HarpsiO
_	Harpsichord Release	HarpsiR
_	Harpsichord (with key off)	HarpsiOf
_	Clavi 1	Clavi
	Clavi 2	Clavi2
	Clavi (wide) 1	ClaviW1
15 (Clavi (wide) 2	ClaviW2
16 (Clavi Wah	ClaviWa
7	Pulse Clavi	PluseClv
hro	matic Percussion	
8 (Celesta 1	Celesta
9 (Celesta 2	Celesta2
0 E	Birght Celeasta	BirCelea
_	Celesta & Sine	Celes&Si
-	Reecho Bell	RechBell
	Celesta & Music Box	Celes&MB
_	Glockenspiel 1	Glocken

		01 1 0
55	Glockenspiel 2	Glocken2
56	Music Box 1	MusicBox
57	Music Box 2	MusicBo2
58	Music Box 3	MusicBo3
59	Toy Box	ToyBox
60	Music Box & Harp	Mbx&Harp
61	Stereo Vibrapho	StVibes
62	Rigid Vibraphone	RigiVibe
63	Vibraphone 1	Vibra
64	Vibraphone 2	Vibra2
65	Vibraphone (wide) 1	VibraW
66	Vibraphone (wide) 2	VibraW2
67	Vibraphone & Bell	Bell&Vib
68	Marimba 1	Marimba
69	Marimba 2	Marimba2
70	Marimba (wide)	MarimbaW
71	Stereo Marimba	StMarim
72	Marimba & Vibraphone	Mar&Vib
73	Xylophone 1	Xylophon
74	Xylophone 2	Xylopho2
75	Tubular Bells	TubulBel
76	Church Bell	ChurBell
77	Carillon	Carillon
78	Dulcimer	Dulcimer
79	Santur	Santur
Org	an	
80	Drawbar Organ 1	DrawOrgn
81	Drawbar Organ 2	DrawOrg2
82	Soft Stereo Drawbar Organ	SfDrawOr
83	Mellow Drawbar Organ	MellDrOr
84	Detuned Drawbar Organ 1	DeDraOrg
85	Detuned Drawbar Organ 2	DeDraOr2
86	Italian 60's Organ	60'sOrgn
87	1970 Percussive Organ	1970PcOr
88	Percussive Organ 1	PercOrgn
89	Percussive Organ 2	PercOrg2
90	Light Click Organ	LClickOr
91	Detuned Percussive Organ	DePerOrg
92	Stereo Rotary Organ	StRotaOr
93	Rock Organ	RockOrgn
94	Rotary Organ	RotaOrgn
95	Slow Rotary Organ	SloRotOr
96	Detuned Church Organ	DeChuOrg
97	Church Organ 1	ChurOrgn
98	Church Organ 2	ChurOrg2
99	Church Organ (octave mix)	ChurOrgO
100	Reed Organ	ReedOrgn
	Puff Organ	PuffOrgn
102		Acordion
103	Accordion 2	Acordin2
104	Accordion 3	Acordin3
105	Mustte	Mustte
	Accord It Solo	AccordSo
107		SwetHarm
	Harmonica 1	Harmnica
	Harmonica 2	Harmnic2
110	Tango Accordion	TangoAcd
	go / 10001 di011	. 41190/104

Gui		1
111	() ()	NylonGtr
112		NylonGt2
113	Acoustic Guitar (nylon + key off)	NylGtrOf
114	Ukulele	Ukulele
115	Velocity Nylon Guitar	NylnGtVe
116	Chorus Nylon Guitar	ChoNyGt
117	Bright Nylon Guitar	BrNyGt
118	Acoustic Guitar (steel) 1	SteelGtr
119	Acoustic Guitar (steel) 2	SteelGt2
120	Steel Guitar with Body Sound	SteelBdy
121	Tremolo Steel Guitar	TremGt
122	Mandolin	Mandolin
123	12-Strings Guitar	12StrGtr
124	Chorus Steel Guitar	ChoSteGt
125	Nylon & Steel Guitar	Ny&SteGt
126	Stereo Steel Guitar	StSteGt
127	Steel Guitar Bend	GtBend
128	Steel Guitar Harmonics	GtHarm
129	Velocity Steel Guita 1	VelSte1
130	Velocity Steel Guita 2	VelSte2
131	Velocity Steel Guita 3	VelSte3
132	Electric Guitar (jazz) 1	JazzGtr
133	Electric Guitar (jazz) 2	JazzGt2
134	Electric Guitar (pedal steel)	PedalGtr
135	Mellow Guitar	MelloGt
136	Velocity Jazz Guitar	JazzGtVe
137	Jazz Guitar Detuned	JazzGtDt
138	Mid Tone Guitar	MidTonGt
139	Electric Guitar (clean) 1	CleanGtr
140	Electric Guitar (clean) 2	CleanGt2
141	Stereo Clean Guitar	StCleGtr
142	Velocity Clean Guitar	CleGtVel
143	Electric Guitar (detuned clean)	DetClnGt
144	Electric Guitar (muted velo-sw)	MutVelGt
145	Electric Guitar (muted)	MutedGtr
146	Electric Guitar (funky cutting)	FunkGt
147	Jazz Man	JazzMan
148	Stereo Muted Guitar	StMuGt
149	Guitar Pinch	GtPinch
150	Overdriven Guitar	Ovrdrive
151	Distortion Guitar 1	DistGtr
152	Distortion Guitar 2	DistGt2
153	Distortion Guitar (with feedback) 1	FeedbkGt
154	Distorted Rhythm Guitar	DistRyth
155	5th Distortion	5thDist
156	Stereo Distorted Guitar	StDistor
157	Guitar Feedback	GtrFedbk
158	Guitar Harmonics	GtrHarmo
Bas	s	
159	Acoustic Bass 1	AcoBass
160	Acoustic Bass 2	AcoBass2
161	Jazz Style	JazzSty
162	A.Bass & Mute G.T.	Bs&GtMu
163	Resonant Bass	ResBass
164	Wah Bass 1	WahBass1
165	Electric Bass (finger) 1	FngrBass
	· · ·	

	Electric Bass (finger) 2	FngrBas2
	Electric Bass (finger) 3	FngrBas3
_	Finger Slap Bass	FngrSlap
169		WahFnBs
170	Electric Bass (pick) 1	PickBass
171	Electric Bass (pick) 2	PickBas2
172	Mute Pick Bass	MuPkBass
173	Fretless Bass 1	Fretless
174	Fretless Bass 2	FretIss2
175	Slap Bass 1	SlapBas1
176	Slap Bass 2	SlapBas2
177	Slap Bass 3	SlapBas3
178	Slap Bass 4	SlapBas4
179	Synth Bass 1	SynBass1
180	Synth Bass 2	SynBass2
181	Synth Bass 3 (resonance)	ResoBass
182	Synth Bass 4 (attack)	AtackBas
183	Synth Bass (warm)	WarmBass
184	Clavi Bass	ClavBass
185	Hammer	Hammer
186	Synth Bass (rubber)	RubbBass
187	Attack Pulse	AtackPls
_	ngs & Orchestral Instruments	
188		TheVin
	Violin 1	Violin
-	Violin 2	Violin2
	Violin (slow attack)	SIViolin
192		SoftVin
	Viola 1	Viola
-	Viola 2	Viola2
	Viola 3	Viola2 Viola3
_	Cello 1	Cello
_		
	Cello 2	Cello2
	Celloen 16'	Celloen
	Chamber Music	Chamber
	Contrabass 1	Contrabs
<u> </u>	Contrabass 2	Contrbs2
202	Tremolo Strings 1	TremStr
203	Tremolo Strings 2	TremStr2
204	0	SlwTrSt1
205	0	SlwTrSt2
206	<u> </u>	PizzStr
207		PizzStr2
208		OctoPizz
209	•	Harp
210	'	Harp2
211	Yang Chin	YangChin
212	Timpani 1	Timpani
213	Timpani 2	Timpani2
Ens	emble	
214	The Strings	TheStr
215	String Ensembles 1	Strings1
216	String Ensembles 2	Strings2
217	Synth Strings 1	SynStrs1
218	Synth Strings 2	SynStrs2
219	Synth Strings 3	SynStrs3
220	Synth Strings 4	SynStrs4
	. •	

Voice List

221	Synth Strings 5	SynStrs5
222	Resonant Strings	ResonSt
223	Stereo Slow Strings	SSlowStr
224	Slow Strings	SlowStr
225	Strings and Brass	Str&Bras
226	Legato Strings	LegatStr
227	Orchestra	Orchstr
228	Arco Strings	ArcoStr
229	60's Strings	60'sStr
230	1970 Strings	70'Str
231	Solo Strings	SoloStr
232	Choir Aahs 1	ChoirAah
233	Choir Aahs 2	ChoirAh2
234	Choir Aahs 3	ChoirAh3
235	Stereo Choir Aahs	StChoir
236	Strings & Choir	StrChoir
237	Humming	Humming
238	Voice Oohs	VoiceOoh
239	Analog Voice	AnaVoice
240	Synth Voice	SynVoice
241	Bass Hit Plus	BassHit
242	Orchestra Hit 1	OrchHit
243		OrchHi2
244		EuroHit
245	6th Hit	6thHit
Bra		Othin
		Trumpot
246 247	Trumpet 1	Trumpet
248		Trumpet2
249	Trumpet 3	Trumpet3
	Dark Trumpet Soft	DarkTrp
250	•	SweetTp
251 252	Wah Trumpet Trombone 1	WahTp
		Trombone
253	Trombone 2	Trmbone2
254	3	BritBone
255	3 · · · · · · ·	Str&Trb
256	1 0.00	Tuba
257	Tuba 2	Tuba2
258		SoftTuba
259	<u>'</u>	MuteTrp1
260	<u>'</u>	MuteTrp2
261		FrHorn
262	, ,	FrHorn2
263	French Horn 3	FrHorn3
264	Stereo French Horn	StFrHorn
265	Horn Orchestra	5thHornO
266	Brass Section 1	Brass
267	Brass Section 2 (octave mix)	Brass2
268	Brass Section 3	Brass3
269	Brass Section 4	Brass4
270	Brass Section 5	Brass5
271	Brass Swell	BrasSwel
272	Brass Band	BrasBand
273	Bright Brass Section	BrBraSec
274	Mute Brass Ensemble	MuteEns
275	Sforzato Brass	SfrzBras
276	Brass & Strings	Bras&Str

077	Countle Dunca 4	C D
_	Synth Brass 1	SynBras1
	Synth Brass 2	SynBras2
	Synth Brass 3	SynBras3
	Synth Brass 4	SynBras4
281		AnaBras1
282		AnaBras2
283		JumpBras
284	Octave Synth Brass	SynBraOc
285	-,	SyBr&St1
286	Synth Brass & Strings 2	SyBr&St2
287	Echo Brass	EchoBr
Ree		
288	Soprano Sax 1	SprnoSax
289	Soprano Sax 2	SprnSax2
290	Soprano Sax Soft	SopSaxSf
291	Slow Soprano Sax	SISopSax
292	Sweet Soprano Sax	SweSpSax
293	Alto Sax	AltoSax
294	Soft Alto Sax	SoftAlto
295	Super Alto Sax	SuprAlto
296	Tenor Sax 1	TenorSax
297	Tenor Sax 2	TenoSax2
298	Baritone Sax	BariSax
299	Sweet Oboe	SwetOboe
300	Oboe 1	Oboe
301		Oboe2
	English Horn 1	EngHorn
	English Horn 2	EngHorn2
	Woodwinds	Woodwind
305		Bassoon
	Bassoon 2	Basson2
307	Clarinet 1	Clarinet
308	Clarinet 2	Clarine2
Pipe		Clarifiez
_	Piccolo	Piccolo
_	Flute	
	Sweet Flute	Flute SweeFlut
	Recorder	Recorder
313	Sweet Pan Flute	SwPanFu
	Pan Flute	PanFlute
_	Blown Bottle	Bottle
	Shakuhachi	Shakhchi
	Whistle 1	Whistle
318		Whistle2
319	Ocarina	Ocarina
	th Lead	
320	Lead 1 (square)	SquareLd
321	Square	Square
322	Lead 1b (sine)	SineLead
323	Square Lead 1	SquarLd1
324	Lead 1a (square 2)	SquarLd2
325	Lead 2a (sawtooth 2)	SawLead2
326	Lead 2d (sequenced analog)	SquAnaLd
327	Lead 2 (sawtooth)	SawLead1
328	Lead 2b (saw + pulse)	SawPlsLd
329	Lead 2c (double sawtooth)	DubSawLd
330	Lead 3 (calliope)	CaliopLd
	` ' '	

331	Lead 4 (chiff)	ChiffLd
332	Lead 5 (charang)	CharanLd
333	Lead 5a (wire lead)	WireLead
334	Lead 6 (voice)	VoiceLd
335	Lead 7 (fifths)	FifthsLd
336	Lead 8 (bass + lead)	BassLead
337	Lead 8a (soft wrl)	SftWrlLd
Svn	th Pad	
	Pad 1 (new age)	NewAgePd
_	Slow Square	SlowSqu
340	New Year Pad	NewYrPd
341	Pad 2 (warm)	WarmPad
342	PWM Pad	PWMPad
343	Pad 2a (sine pad)	SinePad
_	Horn Pad	HornPad
345	Pad 3 (polysynth) 1	PolySyPd
	Click Pad	ClickPd
347	Analog Pad	AnaloPad
_	Poly Pad	PolyPad
	Pad 4 (choir)	ChoirPad
-	Pad 4a (itopia)	ItopiaPd
-	Pad 5 (bowed) 1	BowedPad
-	Pad 6 (metallic) 1	MetalPad
	Pan Pad	PanPad
	Pad 7 (halo) 1	HaloPad
	Pad 7 (halo) 2	HaloPad2
	Pad 8 (sweep) 1	SweepPad
	, , ,	· ·
	Pad 8 (sweep) 2 Dipolar Pad	SweePad2
330	Dipolal Fau	DipolPad
250		Diging
359	Rising	Rising
360	Rising Congregate	Rising Congrega
360 Syn	Rising Congregate th SFX	Congrega
360 Syn 361	Rising Congregate th SFX FX 1 (rain)	Congrega
360 Syn 361 362	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack)	Congrega FXRain Soundtrk
360 Syn 361 362 363	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor	Congrega FXRain Soundtrk Progenit
360 Syn 361 362 363 364	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet)	FXRain Soundtrk Progenit SynMalet
360 Syn 361 362 363 364 365	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal)	FXRain Soundtrk Progenit SynMalet Crystal
360 Syn 361 362 363 364 365 366	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere)	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr
360 Syn 361 362 363 364 365 366 367	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir
360 Syn 361 362 363 364 365 366 367 368	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness)	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright
360 Syn 361 362 363 364 365 366 367 368 369	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins)	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins
360 Syn 361 362 363 364 365 366 367 368 369 370	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel
360 Syn 361 362 363 364 365 366 367 368 369 370 371	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes
360 Syn 361 362 363 364 365 366 367 368 369 370 371 372	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan)	EchoPan
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373 374	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi)	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373 374 Eth	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc.	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373 374 Ethl 375	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar
360 Synn 361 362 363 364 365 366 367 368 370 371 372 373 374 Ethn 375 376	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend)	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2
360 Synn 361 362 363 364 365 366 367 368 370 371 372 373 374 Ethh 375 376 377	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo	FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo
360 Synn 361 362 363 364 365 366 367 368 370 371 372 373 374 Ethl 375 376 377 378	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen
360 Synn 361 362 363 364 365 366 367 370 371 372 373 374 Eth 375 376 377 378 379	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen Koto	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen Koto
360 Synn 361 362 363 364 365 366 367 371 372 373 374 Eth 375 376 377 378 379 380	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen Koto Taisho Koto	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen Koto TaishoKt
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373 374 Ethn 375 376 377 378 379 380 381	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen Koto Taisho Koto Kalimba	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen Koto TaishoKt Kalimba
360 Synn 361 362 363 364 365 366 367 371 372 373 374 Eth 375 376 377 378 379 380 381 382	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen Koto Taisho Koto Kalimba Bag Pipe	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen Koto TaishoKt Kalimba Bagpipe
360 Synn 361 362 363 364 365 366 367 368 369 370 371 372 373 374 Ethn 375 376 377 378 379 380 381	Rising Congregate th SFX FX 1 (rain) FX 2 (soundtrack) Progenitor FX 3a (synth mallet) FX 3 (crystal) FX 4 (atmosphere) Warm Air FX 5 (brightness) FX 6 (goblins) Choir Bell FX 7 (echoes) 1 FX 7a (echo bell) 1 FX 7b (echo pan) FX 8 (sci-fi) nic Misc. Sitar 1 Sitar 2 (bend) Banjo Shamisen Koto Taisho Koto Kalimba	Congrega FXRain Soundtrk Progenit SynMalet Crystal Atmosphr WarmAir Bright Goblins ChoirBel Echoes EchoBell EchoPan Sci-Fi Sitar Sitar2 Banjo Shamisen Koto TaishoKt Kalimba

inkle Bell agogo steel Drums Voodblock Castanets faiko Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Synth Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click Geashore	TnklBell Agogo SteelDrm WoodBlok Castanet TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz FIKeyClk
Steel Drums Woodblock Castanets Gaiko Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Synth Drum Chythm Box Tom Clectric Drum Cleverse Cymbal Cuitar Fret Noise Coustic Bass String Slap Greath Noise Clute Key Click	SteelDrm WoodBlok Castanet TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Steel Drums Woodblock Castanets Gaiko Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Synth Drum Chythm Box Tom Clectric Drum Cleverse Cymbal Cuitar Fret Noise Coustic Bass String Slap Greath Noise Clute Key Click	WoodBlok Castanet TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Castanets Caiko Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Control Drum Chynth Drum Chynth Box Tom Clectric Drum Cleverse Cymbal Cuitar Fret Noise Coustic Bass String Slap Creath Noise Clute Key Click	Castanet TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Concert Bass Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Control Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Concert Bass Drum Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Control Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	TaikoDum ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Concert Bass Drum Melodic Tom 1 Melodic Tom 2 (power) Synth Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	ConBasDm MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Melodic Tom 1 Melodic Tom 2 (power) Synth Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Elute Key Click	MelodTom MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Melodic Tom 2 (power) Synth Drum Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Elute Key Click	MeldTom2 SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Synth Drum Chythm Box Tom Clectric Drum Cleverse Cymbal Cuitar Fret Noise Cuitar Cutting Noise Acoustic Bass String Slap Creath Noise Clute Key Click	SynDrum RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Rhythm Box Tom Electric Drum Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	RhythBox ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Reverse Cymbal Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	ElecDrum RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise Flute Key Click	RevCymbl FretNoiz GtCtNoiz BsStSlap BrthNoiz
Guitar Fret Noise Guitar Cutting Noise Acoustic Bass String Slap Breath Noise	FretNoiz GtCtNoiz BsStSlap BrthNoiz
Guitar Cutting Noise Acoustic Bass String Slap Breath Noise	GtCtNoiz BsStSlap BrthNoiz
Guitar Cutting Noise Acoustic Bass String Slap Breath Noise	GtCtNoiz BsStSlap BrthNoiz
coustic Bass String Slap creath Noise lute Key Click	BsStSlap BrthNoiz
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	FIREYCIK
easnore	
Nata .	Seashore
Rain	Rain
hunder	Thunder
Vind	Wind
stream	Stream
Subble	Bubble
Sird Tweet 1	Tweet
)og	Dog
lorse Gallop	HouseGlp
Sird Tweet 2	Tweet2
Sheep	Sheep
elephone Ring 1	Telphone
elephone Ring 2	Telphon2
oor Creaking	DoorCrek
)oor	Door
Scratch	Scratch
Vind Chime	WindChim
lelicopter	Helicptr
ar Engine	CarEngin
Car Stop	CarStop
Car Pass	CarPass
Car Crash	CarCrash
iren	Siren
rain	Train
etplane	Jetplane
Starship	Starship
Burst Noise	BurtNois
	Applause
aughing	Laughing
	Scream
Punch	Punch
	HeartBet
	Footstep
	Gunshot
	MachnGun
	Lasergun Explosio
8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ubble ird Tweet 1 og orse Gallop ird Tweet 2 heep elephone Ring 1 elephone Ring 2 oor Creaking oor cratch /ind Chime elicopter ar Engine ar Stop ar Pass ar Crash iren rain etplane tarship urst Noise pplause aughing creaming

Voice List

Con	Combined Voice		
440	Stereo Piano & Strings Pad	StPn&Str	
441	Stereo Piano & Choir	StPn&Cho	
442	Stereo Piano & Synth Strings	StPn&Syn	
443	Stereo Piano & Warm Pad	StPn&Pad	
444	Stereo Piano & Soft Ep	StPn&Ep	
445	FM Electric Piano	FMEp	
446	Digital Piano	DigiPn	
447	E.Piano & Strings	EP&Str	
448	E.Piano & Ac Guitar	EP≫	
449	E.Piano & Vibraphone	Ep&Vib	
450	E.Piano 2 & Pad	Ep&Pad	
451	E.Piano 2 & Strings	Ep2&Str	
452	Harpsichord & Stereo Strings	Harps&St	
453	Music Box & Stereo Strings	Mxb&Str	
454	Vibraphone & Stereo Strings	Vib&Str	
455	Vibraphone Octave	VibOct	
456	Vibraphone & Marimba & Kalimba	VibMK	
457	Marimba & Kalimba	Mar&Kal	
458	Marimba Delay	MarDel	
459	Xylophone Octave	XylopOct	
460	Organ & Stereo Strings	Org&Str	
461	Stereo Organ & Piano	StOr&Pno	
	Rock Organ & Strings	RoOr&Str	
463	Church Organ & Choir	ChuOr&Ch	
464	Church Organ & Strings	ChuOr&St	
465	Acoustic Guitar & Flute	Gt&FI	
466	Acoustic Guitar & Clav	Gt&Cl	
467	24 String Guitar	24Gt	
468	Steel Guitar & Warm Pad	StGt&Pad	
469	Stereo Strings & Horn	StStr&Hn	
470	Orchestra	Orchest	

471	Full Strings 1	FullStr1
	Full Strings 2	FullStr2
	Symphonic Obside 8 Obside as	Symphon
	Stereo Choir & Strings	StCh&Str
	Stereo Choir & Steel Guitar	Ch≫
	3 Trumpet Loose	3Trump
	Trombone & Stereo Strings	Tb&StStr
478	3 Trombones Loose	3Tromb
479	3 Muted Trumpets Loose	3MuTrumb
480	Club Brass	ClubBras
481	Brass & Woodwinds	Br&Wood
482	Woodwinds & Strings	Wind&Str
483	Section Woods Small	WoodSma
484	Pan Flute & Strings Pad	PanFu&St
485	Koto & Shamisen	Koto&Sh
Ara	bic Instruments	
486	Kanoun	Kanoun
487	Aoud	Aoud
488	Bouzouk	Bouzouk
489	Nay	Nay
490	Mizmar	Mizmar
Dru	m Set	
491	Standard Set	StandSet
492	Room Set	RoomSet
493	Power Set	PowerSet
494	Electronic Set	ElectSet
495	Analog Set	AnalgSet
496	Jazz Set	JazzSet
497	Brush Set	BrushSet
498	Orchestra Set	OrcheSet
499	SFX Set	SFXSet
500	Arabic Set	ArabiSet

Style List

No	Full Name	LCD Name
		LCD Name
	EAT ORack Bioms	OD+Diana
1	8Beat Piano	8BtPiano
2	8Beat 1	8Beat1 8BtShufl
3	8Beat Shuffle	
4	Guitar Pop 1	GtPop1
5	8Beat Hip Hop	8BtHiHop
6	8Beat R&B	8BeatR&B
7	8Beat Pop	8BtPop
8	Pop Funk 1	PopFunk1
9	Rhythm & Beat 1	Rhy&Bt1
10	8Beat Disco 1	8BtDisc1
11	8Beat Rock	8BtRock
12	8Beat 2	8Beat2
13		SweetBt
14	8Beat Dance	8BtDance
15	8Beat Disco 2	8BtDisc2
	8Beat 3	8Beat3
17	1 ** * * - * ***	60's8Bt
	BEAT	100 11
18	16Beat 1	16Beat1
19	16Beat Funk 1	16BtFuk1
20	16Beat Ballad 1	16BtBld1
21	16Beat R&B	16BtR&B
22	Pop 16Beat 1	Pop16Bt1
23	16Beat Funk 2	16BtFuk2
24	16Beat Dance	16BDanc
25	16Beat 2	16Beat2
26	Pop 16Beat 3	Pop16Bt3
27	Modern 16Beat	Modrn16B
28	16Beat Hot	16BtHot
29	16Beat Modern	16BModr
30	16Beat 3	16Beat3
31	Cool Beat	CoolBeat
32	16Beat Ballad 2	16BtBld2
33	16Beat 4	16Beat4
	Pop Shuffle	PopShufl
PO		Dan Da alid
35	Pop Rock 1	PopRock1
36	Pop Dance 1	PopDanc1
37	Pop Fusion	PopFusn
38	Analog Night 1	AnalgNt1
39	6/8 Pop	6/8Pop
40	Brit. Pop 1	BritPop1
41	Brit. Pop 2	BritPop2
42	Pop Hit	PopHit
43	Fusion Shuffle	FusShufl
44	Analog Night 2	AnalgNt2
45	Pop Beat	PopBeat
46	Soft Beat	SoftBeat
47	60's Pop	60'sPop
48	Sting Latin	StigLatn
	LLAD De Bolland 1	D9 PPod1
49	R&B Ballad 1	R&BBad1
50	Guitar Ballad	GtBallad
51	Ballad Rcok	BalladRk
52	Piano Pop	PianoPop

53	Soft Ballad	SoftBald
54	Natural Ballad	NatuBld
55	Love Ballad	LoveBld
56	Easy Ballad	EasyBld
57	Slow Ballad	SlowBald
58	Folk Ballad	FolkBld
59	Pop Ballad 1	PopBld1
60	Pop Ballad 2	PopBld2
61	EP Ballad	EPBallad
RO	CK	
62	Rock	Rock
63	New Wave	NewWave
64	Ska	Ska
65	Pop Rock 2	PopRock2
66	Slow Rock	SlowRock
67	70's Rock & Roll	70'sRock
68	Folk Rock	FolkRock
69	Soft Rock	SoftRock
70	Easy Rock	EasyRock
71	New Shuffle	NewShufl
72	Rock Hip Hop	RkHipHop
73	Rock&Roll 1	R'N'R1
74	Rock & Roll 2	R'N'R2
	LROOM	1111112
75	Tango 1	Tango1
76	Spain Matador	Matador
77	Twist 1	Twist1
78	Big Band Fox	BandFox
79	Tango 2	Tango2
80	Slow Fox	SlowFox
81	Slow Waltz 1	SlowWiz1
82	Swing Fox	SwingFox
83	Salsa 1	Salsa1
	Cha Cha 1	ChaCha1
84	Cha Cha 1 Cha Cha 2	
85		ChaCha2
86	Beguine 1	Beguine1
87	Beguine 2	Beguine2
88	Rumba 1	Rumba1
89	Samba 1	Samba1
90	Samba 2	Samba2
91	Jive	Jive
92	Fox Trot	FoxTrot
	NCE	
93	Techno 1	Techno1
94	Hip Hop 1	HipHop1
95	Dream Dance	DrmDance
96	House	House
97	Pop Dance 2	PopDanc2
98	Down Beat	DownBeat
99	Progressive	Progress
100	Rap 1	Rap1
101	Disco	Disco
102	Soft Disco	SoftDisc
103	Disco Party	DscParty
104	70's Disco	70'sDisc
105	Club Dance	ClubDanc
106	Euro Dance	EuroDanc

Style List

107	Hip Hop 2	HipHop2
SO	UL & FUNK	·
108	Funk 1	Funk1
109	Classic Funk	ClasFunk
110	Gospel Swing	GopSwing
111	Gospel	Gospel
112	Funk 2	Funk2
113	Electric Funk	ElecFunk
114	Groove Funk	GrooveFk
115	Cool Funky	ColFunky
116	Jazz Funk	JazzFunk
117	Groove	Groove
118	Soul	Soul
119	Hip Hop Beat	HipHopBt
120	R&B	R&B
121	Soul Beat	SoulBeat
122	R&B Ballad 2	R&BBld2
SW	ING & JAZZ	
	Latin Jazz 1	LatinJz1
124	Big Band	BigBand
125	Dixieland 1	Dixland1
126	Broadway Big Band	BwayBand
	Swing	Swing
128	Latin Jazz 2	LatinJz2
129	Fusion	Fusion
	Acid Jazz	AcidJazz
-	Cool Jazz Ballad	CoolJzBd
	Swing Shuffle	SwingSfl
	Big Band Medium	BandMid
_	Dixieland 2	Dixland2
	Guitar Swing 2	GtSwing2
_	Ragtime	Ragtime
	Modern Jazz Ballad	MdJzBald
	Swing Ballad	SwingBal
	Orchestra Swing	OrhSwing
	UNTRY	0.15.1
	Country Pop 1	CntyPop1
_	Bluegrass 1	Bluegrs1
	Country 8Beat	Ct8Beat
	Modern Country	ModernCt
	Country Pop 2	CntyPop2
	Bluegrass 2 2/4 Country	Bluegrs2 2/4Cntry
	Country Quick Steps	QuickStp
	Country Folk	CntyFolk
	Country Shuffle	CnyShufl
	TIN & LATIN DANCE	Griyerian
	Bossa Nova	BosaNov
151	Latin	Latin
	New Reggae	NewRegga
	Dance Reggae	DanRegga
	Pasodoble	Pasodobl
	Lite Bossa	LteBossa
	Latin Rock	LatinRck
157	Disco Samba	DscSamba
158	Mambo	Mambo
159	Rumba 2	Rumba2

161	160	Tikitikita	Tikitkta
163 Pop Cha Cha 2 PChaCha2 164 Salsa 2 Salsa2 WALTZ & TRADITIONAL 165 Waltz Waltz 166 Old Waltz OldWaltz 167 English Waltz EngWaltz 168 German Waltz CemWaltz 169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWitz2 171 Jazz Waltz JzWaltz 172 Polka Polka 173 6/8 March 6/8March 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD World Mazurke 181 Enka Ballad EnkaBald 182 Laendler Laendler 183	161	Lambada	Lambada
WALTZ & TRADITIONAL 165 Waltz Waltz 166 Old Waltz OldWaltz 167 English Waltz EngWaltz 168 German Waltz GemWaltz 169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWitz2 171 Jazz Waltz JzWaltz 172 Polka Polka 173 6/8 March 6/8March 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut <td>162</td> <td>Pop Cha Cha 1</td> <td>PChaCha1</td>	162	Pop Cha Cha 1	PChaCha1
WALTZ & TRADITIONAL 165 Waltz	163	Pop Cha Cha 2	PChaCha2
165 Waltz Waltz 166 Old Waltz OldWaltz 167 English Waltz EngWaltz 168 German Waltz GemWaltz 169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWltz2 171 Jazz Waltz JzWaltz 172 Polka Polka 173 6/8 March 6/8March 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Musette 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8 Flipp	164	Salsa 2	Salsa2
166 Old Waltz OldWaltz 167 English Waltz EngWaltz 168 German Waltz GemWaltz 169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWltz2 171 Jazz Waltz JzWaltz 172 Polka Polka 172 Polka GerPolka 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age<	WA	LTZ & TRADITIONAL	
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168 German Waltz GemWaltz 169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWltz2 171 Jazz Waltz JzWaltz 172 Polka Polka 173 6/8 March 6/8 March 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March USMarch 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish	166	Old Waltz	OldWaltz
169 ViennaWaltz VinaWtz 170 Slow Waltz 2 SlwWltz2 171 Jazz Waltz JzWaltz 172 Polka Polka 173 6/8 March 6/8March 174 German Polka GerPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March USMarch 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8 Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 N			EngWaltz
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173 6/8 March 174 German Polka 175 Party Polka 176 Army March 177 March 178 US March 179 Musette 180 Mazurke WORLD 181 Enka Ballad 182 Laendler 183 Hawaiian 184 Sirtake 185 Dangdut 186 6/8 Flipper 187 New Age 188 Tarantella 189 Scottish 190 Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo 198 Baladi 198 Cerror 198 Baladi 198 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi Parmarch ArmMarch	171	Jazz Waltz	JzWaltz
174 German Polka PtyPolka 175 Party Polka PtyPolka 176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 Norteno Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo 193 Bandary Bandary 194 Zarb Daf 195 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi	172	Polka	Polka
175 Party Polka 176 Army March 177 March 178 US March 179 Musette 180 Mazurke WORLD 181 Enka Ballad 182 Laendler 183 Hawaiian 184 Sirtake 185 Dangdut 186 6/8 Flipper 187 New Age 188 Tarantella 189 Scottish 190 Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo 193 Bandary 194 Zarb Daf 195 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi March	173	6/8 March	6/8March
176 Army March ArmMarch 177 March March 178 US March USMarch 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 Norteno Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo ZarbTemp 193 Bandary 194 Zarb Daf Zarb Daf 195 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi	174	German Polka	GerPolka
177 March US March 178 US March 179 Musette Musette 180 Mazurke Mazurke WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 Norteno Norteno ARAB 191 Zarb 6/8 Zarb 6/8 192 Zarb Tempo ZarbTemp 193 Bandary Bandary 194 Zarb Daf Zarb Daf 195 Pop 4/4 196 Saidi IR Saidi IR 197 Cifte Cifte 198 Baladi	175	Party Polka	PtyPolka
178 US March 179 Musette 180 Mazurke WORLD 181 Enka Ballad 182 Laendler 183 Hawaiian 184 Sirtake 185 Dangdut 186 6/8 Flipper 187 New Age 188 Tarantella 189 Scottish 190 Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo 193 Bandary 194 Zarb Daf 195 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi Musette Musette Musette Musette Musette Musette Mazurke M	176	Army March	ArmMarch
179 Musette Musette WORLD 181 Enka Ballad EnkaBald 182 Laendler Laendler 183 Hawaiian Hawaiian 184 Sirtake Sirtake 185 Dangdut Dangdut 186 6/8 Flipper 6/8Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 Norteno Norteno ARAB 191 Zarb 6/8 192 Zarb Tempo 193 Bandary Bandary 194 Zarb Daf 195 Pop 4/4 196 Saidi IR 197 Cifte 198 Baladi Baladi EnkaBald EnkaBald EnkaBald InkaBald EnkaBald InkaBald	177	March	March
180 MazurkeWORLD181 Enka BalladEnkaBald182 LaendlerLaendler183 HawaiianHawaiian184 SirtakeSirtake185 DangdutDangdut186 6/8 Flipper6/8Flipp187 New AgeNewAge188 TarantellaTarantel189 ScottishScottish190 NortenoNortenoARAB191 Zarb 6/8Zarb 6/8192 Zarb TempoZarbTemp193 BandaryBandary194 Zarb DafZarb Daf195 Pop 4/4Pop 4/4196 Saidi IRSaidi IR197 CifteCifte198 BaladiBaladi	178	US March	USMarch
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186 6/8 Flipper 6/8 Flipp 187 New Age NewAge 188 Tarantella Tarantel 189 Scottish Scottish 190 Norteno Norteno ARAB 191 Zarb 6/8 Zarb 6/8 192 Zarb Tempo ZarbTemp 193 Bandary Bandary 194 Zarb Daf Zarb Daf 195 Pop 4/4 Pop 4/4 196 Saidi IR Saidi IR 197 Cifte Cifte 198 Baladi Baladi	184	Sirtake	Sirtake
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197 Cifte Cifte 198 Baladi Baladi			-
198 Baladi Baladi	-		
	_		
		Baladi	
		Masmoudi	Masmoudi
200 Wehda Wehda	200	Wehda	Wehda

Song List

No.	Full Name	LCD Name
FOL	K & COUNTRY	
1	Jambalaya	Jambalay
2	Ding! Dong! Merrily On High	DingDong
3	Battle Hymne Of The Republic	Battle
4	The Old Gray Mare	GrayMare
5	American Patrol	USPatrol
6	Christmas Is Coming	IsComing
7	Sippin`Cider Through A Straw	SCTStraw
8	Christmas Sound	Sound
GO	LDEN & POP	
9	On London Bridge	LdBridge
10	Are You Lonesome Tonight	Lonesome
11	Der Deitcher`s Dog	DerDDog
12	Joy to The World	JoyWorld
13	Silent Night	SltNight
14	Ave Maria	AveMaria
15	Five Hundred Miles	FHMiles
16	Happy New Year	HappyNY
17	It's Beginning To Look A Lot Like	LikeXmas
	Christmas	
18	Jeanie With The Light Brown Hair	LighHair
19	My Bonnie	MyBonnie
20	Song Of The Pearlfisher	SongOfTP
CLA	ASSICAL	
21	Swan	Swan
22	Prelude To Act 2 (Swan Lake)	SwanLak1
23	Valse (Swan lake)	SwanLak2
24	The Happy Farmer	HpFarmer
25	The Sleeping Beauty	SleepBty
26	La Traviata	LaTravia
27	Wiegenlied	Wiegenli
28	Mov.2 Adagio Non Troppo Piano	Sonata9
	Sonata No.9 In D	
29	Mov.1 Andante Grazioso Piano Sonata	Sonata11
	No.11 In A [Alla TurSonata11ca]	

30	Prelude In C	Prelude
	Chinese Dance	ChDance
	Emperors Waltz	EmprWalz
	March Militaire	MilMar1
	Symphony No.40	Symphony
	AZZ & FUSION	Зупірпопу
	ShanZhaShu	ShanZhaS
	You Are My Sunshine	MySun
37	,	JunSamba
38	Funk	Funk
39	I Can	I Can
40	Sea Shore	SeaShore
PIA	NO	
41	Fur Elise	FurElise
42	Military March	MMarch
43	Habanera	Habanera
44	Minuet	Minuet
45	Austria Variation	AVariati
46	Old Macdonald Had A Farm	OldAFarm
47	Wedding March From "Mendelssohn"	Wedding
48	2-Part Invention #13 In A Minor.B.W. Iii	Invntion
49	Minuet In G	MinuetG
50	Turkish March	TurkishM
51	Hey Diddle Diddle	HeDiddle
52	Italian Polka	ItaPolka
53	Moseta Dance	MosetaDn
54	Bulie Dance	BulieDn
55	Waltz For Piano In g-Sharp Minor	Waltz in g
56	Wild Rose	WildRose
57	Away In A Manger	AwayInAM
58	Jack & Jill	JackJill
59	Angles We Have Heard On High	Angles
60	Waltz	Waltz
De	mo	
1	Fantasia	Fantasia
2	Funk	Funk
3	Dancing Melody	DanceMld
4	Mystic River	MystRivr
5	Dream of freedom	Dream

Album List

No.	Full Name	LCD
1	13 Jours en france	Name13JoursEnFR
2	A lover's concerto	ALversConcer
3	A whiter shade of pale	AWHTShade
4	Again	Again
5	Air for the g-string	G-String
6	Always in my heart	AlwInMyheart
7	An der shonen blauen donau	BlauenDonau

8	annie laurie	AnnieLaurie
9	Are you lonesome tonight?	RULoneTonite
10	Arirang	Arirang
11	Around the world	AroundWorld
12	Auf flugeln des gesanges	Gesanges
13	Auld lang syne	AuldLangSyne
14	Ave maria	Ave maria
15	Beautiful dreamer	BeauDreamer

Album List

16	Beyond the reef	BeyondThReef
17	Blue tango	BlueTango
18	Brazil	Brazil
19	Bridal march	BridalMarch
20	Can't help fallin' in love	CantHlpFalLv
21	Carry me back to old virginny	CarryMeBack
22	Chanson du toreador	Toreador
23	Dance des mirlitons	Mirlitons
24	Danny boy	DannyBoy
25	Do re mi	DoReMi
26	Ebb tide	Ebb Tide
27	El condor pasa	ElCondorPasa
28		Etude3
	Etude op.10 no.3	
29	Five hundred miles	500 miles
30	Fly me to the moon	FlyMeMoon
31	Frohlicher landmann	landmann
32	Fruhlingsstimmen	FLingsTimmen
33	Gavotte	Gavotte
34	Green, green grass of home	Green Grass
35	Greensleeves	Greensleeves
36	Happy birthday to you	Birthday
37	Hey jude	HeyJude
38	Home sweet home	SweetHome
39	How deep is your love	HDeepIsUrLv
40	Hungarian dances no.5	HUdances5
41	Hymne a l'amour	Hymnel'amour
42	If	If
43	In the mood	InTheMood
44	Jingle bells	Jingle bells
45	Joy to the world	JoyTheWorld
46	Kaiser walzer	KaiserWalzer
47	La mer	LaMer
48	La paloma	LaPaloma
49	La playa	La playa
50	La reine de saba	Saba
51	L'amour est blue	L'amourBlue
52	Lara's theme from "Doctor zhivago"	DoctorZhivag
53	Last waltz	LastWaltz
54	Long,long ago	LonglongAgo
55	Love Story	LoveStory
56	Mambo No.5	Mambo No.5
57	Mambo No.8	Mambo8
58	Massachusetts	Massachusett
59	Menuet	Menuet
60	Miami beach rumba	MIABechRumba
61	Military march	MilMarch
62	Misty	Misty
63	Moon river	Moon River
64	My darling clementine	MDarinClemnt
65	My way	MyWay
66	Never on sunday	NeverOnSun.
67	New world	NewWorld
68	O sole mio	OSoleMio
69	Oh! Carol	OhCarol
70	Oh! Susanna	OhSusanna
	1	1

71	Old folks at home	Old folks
72	One way ticket to the blues	OnWyTicktBls
73	Only you	OnlyYou
74	Over the rainbow	OverRainbow
75	Petite fleur	PetiteFleur
76	Red river valley	RedRiver
77	Rhythm of the rain	RhythmOfRain
78	Rock around the clock	RockArndClk
79	Sail along silv'ry moon	SalAlongMoon
80	Sailing	Sailing
81	Santa lucia	Santa lucia
82	Sealed with a kiss	SealedW/Kiss
83	Serenade	Serenade
84	Serenata rimpiant	Serenata
85	Siboney	Siboney
86	Silent night	Silent night
87	Sleepy lagoon	SleepyLagoon
88	Songs of Spring	SongSpring
89	Speak softly love	SpeakSoftLv
90	Summertime	Summertime
91	Superstar	Superstar
92	Swan lake	SwanLake
93	Sweet and gentle	Sweet&Gentle
94	Tennessee waltz	TN Waltz
95	The end of the world	EndOfThWorld
96	The girl from ipanema	GirlFromlpan
97	The house of the rising sun	HousOfRisSun
98	The river of no return	RiverOfNoRet
99	The shadow of your smile	Your smile
100	The siaters waltzes	SiatersWaltz
	The sound of silence	SndOfSilence
102	The way we were	TheWayWeWere
	Tico-tico	Tico
104	Tie a yellow ribbon'round the ole oak tree	YellowRibbon
	Toccata	Toccata
	Tombe la neige	TombeLaNeige
107	Top of the world	TopOfThWorld
	Traumerei	Traumerei
	Triumphal march	Triumphal
	Una lacrima sul viso	ULSViso
	Unchained melody	UnchainMelod
	Valse des fleurs	ValseFleurs
	Waves of the danube	WavesDanube
	Wedding march	WeddingMarch
	Wiegenlied	Wiegenlied
	Wiegenlied	Wiegenlied
	Words	Words
	Yesterday	Yesterday
	Yesterday once more	OnceMore
120	You are my sunshine	UrMySunshine

Chord List

Chord Name (Abbreviation)	Normal Voicing	Chord	Display
Major [M]	1-3-5	С	С
Major sixth [6]	1-(3)-5-6	C6	C6
Major seventh [M7]	1-3-(5)-7	CM7	CM7
Major seventh sharp eleventh [M7#11]	1-(2)-3-#4-(5)-7	CM7#11	CM7#11
Major add ninth [Madd9]	1-2-3-5	Cmadd9	CM(9)
Major ninth [M9]	1-2-3-(5)-7	CM9	CM7(9)
Major sixth add ninth [6 9]	1-2-3-(5)-6	C6 9	C6(9)
Augmented [aug]	1-3-#5	Caug	Caug
Minor [m]	1-b3-5	Cm	Cm
Minor sixth [m6]	1-b3-5-6	Cm6	Cm6
Minor seventh [m7]	1-b3-(5)-b7	Cm7	Cm7
Minor seventh flatted fifth [m7b5]	1-b3-b5-b7	Cm7b5	Cm7b5
Minor add ninth [madd9]	1-2-b3-5	Cmadd9	Cm(9)
Minor ninth [m9]	1-2-b3-(5)-b7	Cm9	Cm7(9)
Minor eleventh [m11]	1-(2)-b3-4-5-(b7)	Cm11	Cm7(11)
Minor major ninth [mM7]	1-b3-(5)-7	CmM7	CmM7
Minor major ninth [mM9]	1-2-b3-(5)-7	CmM9	CmM7(9)
Diminished [dim]	1-b3-b5	Cdim	Cdim
Diminished seventh [dim7]	1-b3-b5-6	Cdim7	Cdim7
Seventh [7]	1-3-(5)-b7	C7	C7
Seventh suspended fourth [7sus4]	1-4-5-b7	C7sus4	C7sus4
Seventh flatted fifth [7b5]	1-3-b5-b7	C7b5	C7b5
Seventh ninth [7 9]	1-2-3-(5)-b7	C7 9	C7(9)
Seventh sharp eleventh [7#11]	1-2-3-#4-(5)-b7 or 1-(2)-3-#4-5-b7	C7#11	C7(#11)
Seventh thirteenth [7 13]	1- 3-(5)-6-b7 or 2- 3-5-6-b7	C7 13	C7(13)
Seventh flatted ninth [7b9]	1-b2-3-(5)-b7	C7b9	C7(b9)
Seventh flatted thirteenth [7b13]	1-3-5-b6-b7	C7b13	C7(b13)
Seventh sharp ninth [7#9]	(1)-#2-3-(5)-b7	C7#9	C7(#9)
Major seventh augmented [M7aug]	1-3-#5-7	CM7aug	CM7aug
Seventh augmented [7aug]	(1)-3-#5-b7	C7aug	C7aug
Suspended fourth [sus4]	1-4-5	Csus4	Csus4
One plus two plus five [1+2+5]	1-2-5	C1+2+5	С

MIDI Implementation Chart

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

Notes: *

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

accompaniment is stopped, an FCH message is transmitted.

Mode 1: OMNI ON, POLYMode 2: OMNI ON, MONO

• Mode 3: OMNI OFF, POLY

×: NO

• Mode 4: OMNI OFF, MONO

o: YES

Scale Tuning System

A tuning system is the system used to define which tones, or pitches, to use when playing music. In other words, it is the choice of number and spacing of frequency values used. The equal temperament (has only one tuning method, and is suitable for keyboard) is the common musical scale used at present, used for the tuning of pianos and other instruments of relatively fixed scale. One of the advantages of the equal tempered scale is that it is the same in any musical "key", so that compositions may be freely transposed up or down without changing the musical intervals. Especially for piano, equal temperament is widely used and taken for granted. But people used several other scales to compose and perform before adopting the equal temperament. This piano has been equipped with 6 scale tuning systems, you can select one to reappearing its matched chord of the melody at that time.

Characteristics of Different Scale Tuning Systems

Pythagorean

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

Pure Major & Pure Minor

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

Meantone

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

Werckmeister

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

Kirnberger

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

Twelve-tone equal temperament

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