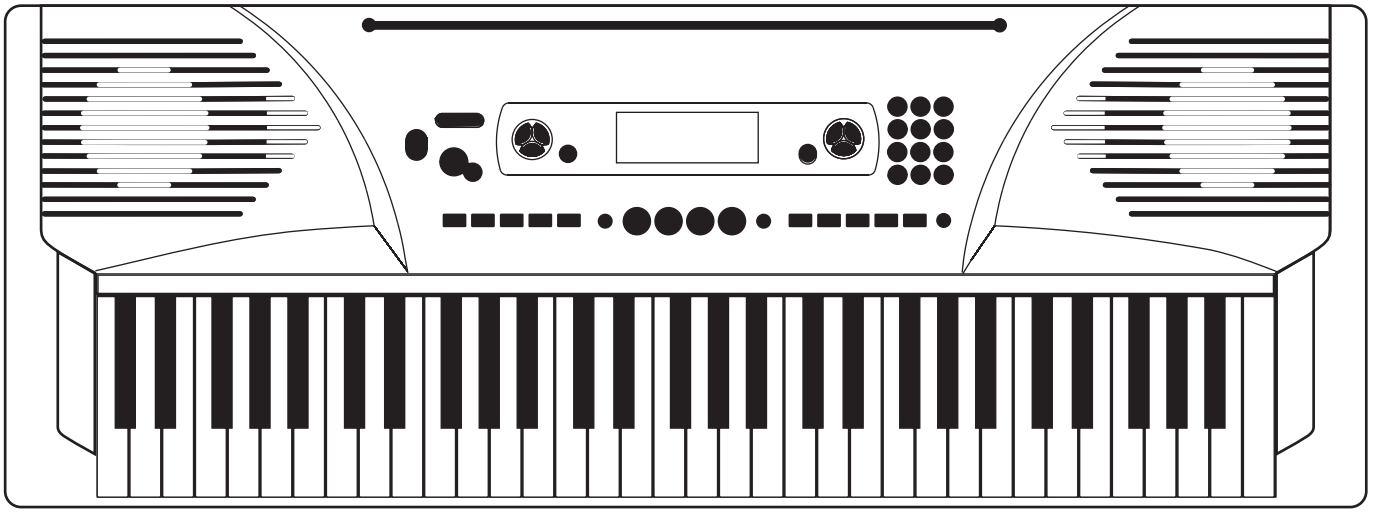
Electronic Keyboard

INSTRUCTION MANUAL



Congratulations

Congratulations on your purchase of this electronic keyboard!

This keyboard is easy-to-use, with advanced functions especially suitable for self-learning beginners. No matter you are adult or children, you will enjoy playing the keyboard as it provides amazing styles for accompaniment, expressive tones, and real time record. Other features such as numbered musical notation display chord dictionary, variety of songs will help you better master the playing skill.

You are recommended to study this manual carefully before using the unit.

Inside This Package

Please make sure the package completely contains the following:

- **The Instrument**
- **Music Stand**
- ⎓ **12V Adaptor**
- **Instruction Manual**

Important Notes

Your keyboard will give you years of playing pleasure if you follow the simple rules given below:

Location

- Do not expose the unit to the following conditions to avoid deformation, discoloration, or more serious damage.
  - Direct sunlight.
  - High temperature (near a heat source, or inside a car under long exposure of Sunlight.
  - Excessive humidity
  - Excessive dust
  - Strong vibration

Power Supply

- Make sure the suitable AC adaptor is used, and the AC outlet voltage at your country matches the input voltage specified on the AC adaptor's label.
- Turn the power switch OFF when the instrument is not in use.
- An AC adaptor should be unplugged from the AC outlet if the instrument is not going to be used for an extended period of time.
- Unplug the AC adaptor during electric storms.
- Avoid plugging the AC adaptor into the same AC outlets as appliances with high power consumption, such as electric heaters or ovens. Also avoid using multi-plug adaptors since this could reduce sound's quality, causes operation errors and damages.

Turn Power OFF When Making Connections

- To avoid damaging the instrument and other devices to which it is connected, turn the power switches of all related devices OFF prior to connecting or disconnecting cables.

Cleaning

- Clean the unit with a soft dry cloth.
- A slightly dampened cloth may remove stubborn grime and dirt.
- Never use cleaners such as alcohol or thinner.
- Avoid placing vinyl object on top of the unit (vinyl might discolor and stick to the surface).

Handling and Transporting

- Never apply excessive force to the controls, connectors or other parts of the instrument.
- Always unplug cables by gripping the plug firmly, but not pulling the cables.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument could result in scratches or even severe damages.

Electrical Interference

- This instrument contains digital circuitry and may cause interference if it is placed too close to radio or television receivers. If this occurs, move the instrument further away from the receivers.

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 instruction manual. In case the function could not resume, please use the product in other location.

Main Features

- **KEYBOARD**
  61-key touch keyboard

- **OPERATION**
  Use numeric keypad and [+/YES] [-/NO] to select voice, style and song，Function including Transpose, Octave, Beat, Split point, MIDI，Accomp volume, Bank select。

- **VOICE**
  157 voices in total, including 128 GM Voices, 6 Percussion Voices, and Synth Voices.

- **STYLE**
  100 styles in total, including 10 PIANO styles.

- **SONG**
  100 songs in total. Each song has its learning mode.

- **SONG LESSON**
  There are 3 different ways to practise the songs. Lesson1、Lesson2、Lesson3. This keyboard also offers the GRADE function in all 3 learning modes to help you know well about your progress.

- **CHORD MODE**
  Both Single finger chords and Fingers chords.

- **CHORD DICTIONARY**
  Provide chord information for users.

- **RECORD FEATURE**
  One recorded song as the 101st song in the song list.

- **STYLE CONTROL**
  Sync，Start/Stop，Main/Fill，Intro/Ending

- **OTHER FEATURES**
  Piano, Dual, Sustain, O.T.S., Record, Demo,Touch, Metromonme, USB and etc.

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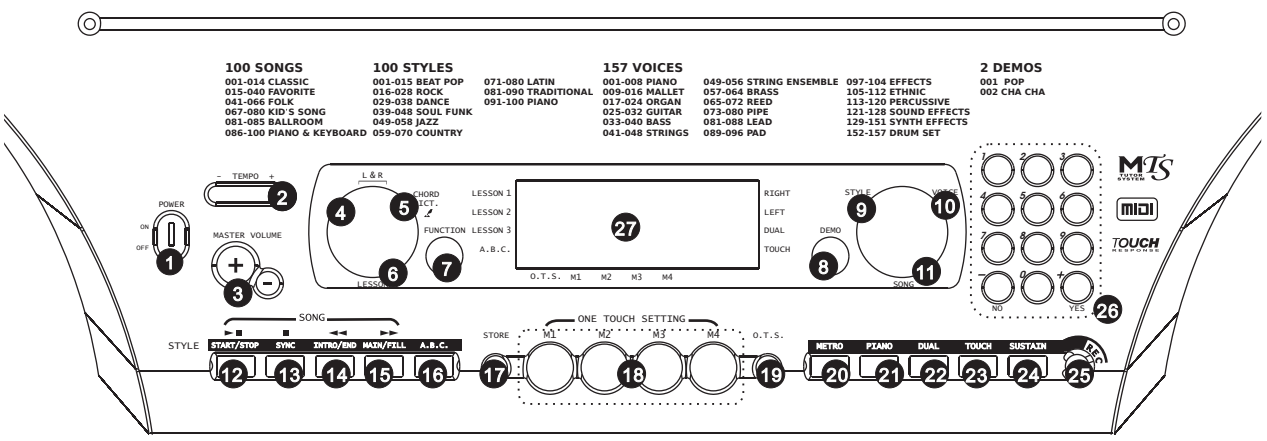
General Guide

Front Panel



1. POWER ON/OFF
2. TEMPO +/-
3. MASTER VOLUME
4. LEFT HAND LESSON MODE
5. RIGHT HAND LESSON MODE / CHORD DICTIONARY
6. LESSON
7. FUNCTION
8. DEMO
9. STYLE
10. VOICE
11. SONG

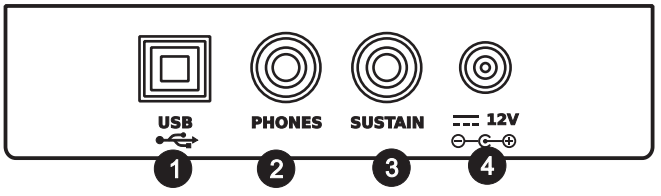
In the Style mode

12. START/STOP
13. SYNC
14. INTRO / ENDING
15. MAIN / FILL
16. AUTO BASS CHORD

In the Song mode

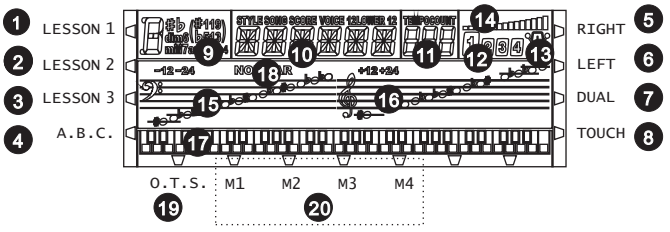
12. START/STOP ►■
13. PAUSE ■
14. REW ◄◄
15. FF ►►
17. STORE
18. PANEL MEMORY M1-M4
19. ONE TOUCH SETTING
20. METRO
21. PIANO
22. DUAL
23. TOUCH
24. SUSTAIN
25. RECORD
26. NUMERIC KEYPAD
27. LCD DISPLAY

Rear Panel



1. USB JACK
2. PHONES JACK
3. SUSTAIN JACK
4. POWER JACK

LCD Display

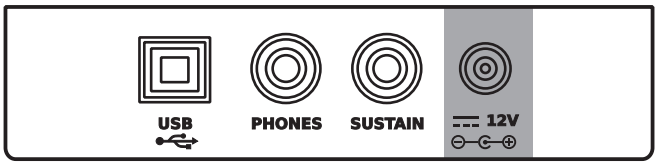


1. LESSON 1
2. LESSON 2
3. LESSON 3
4. A.B.C.
5. RIGHT
6. LEFT
7. DUAL
8. TOUCH
9. CHORD
10. VOICE/STYLE/DEMO/SONG
11. TEMPO/COUNT
12. BEAT
13. METRO
14. VOLUME
15. TREBLE CLEF
16. BASS CLEF
17. 61 KEY KEYBAORD
18. NOR / VAR
19. ONE TOUCH SETTING
20. M1-M4

Preparation

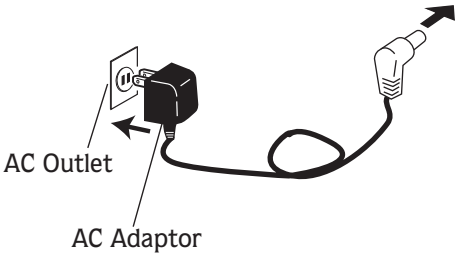
Power Supply

This electronic keyboard can be powered by the current of a standard household wall outlet (using the specified AC adaptor) or by batteries.



1. Using the AC Adaptor

Make sure that only the AC adaptor specified for this electronic keyboard is used. The adaptor shall be 12V DC output, center positive type. Be sure to turn off the electronic keyboard before you connect the adaptor into the AC wall outlet and the cord into the unit.



2. Using Batteries

Always make sure to turn the keyboard off before inserting new batteries or replacing old ones.

CAUTIONS!

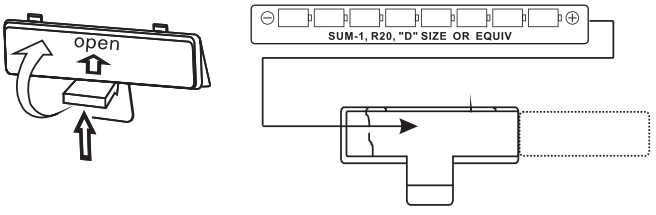
- Use only the specified AC adaptor. Using other types of adaptor creates the risk of fire and electrical shock.
- For safety sake, be sure to unplug the AC adaptor from the wall outlet whenever leaving the electronic keyboard unattended for a long time.

- To insert batteries

Open the battery compartment on the bottom of the keyboard.

Insert 8 D-size (SUM-1, R-20) batteries into the battery compartment and follow the correct polarity.

Replace the compartment cover and make sure that it locks firmly in place.



- Low battery indications

Any of the following symptoms indicate low battery power. Replace the batteries as soon as possible if any of the following occurs.

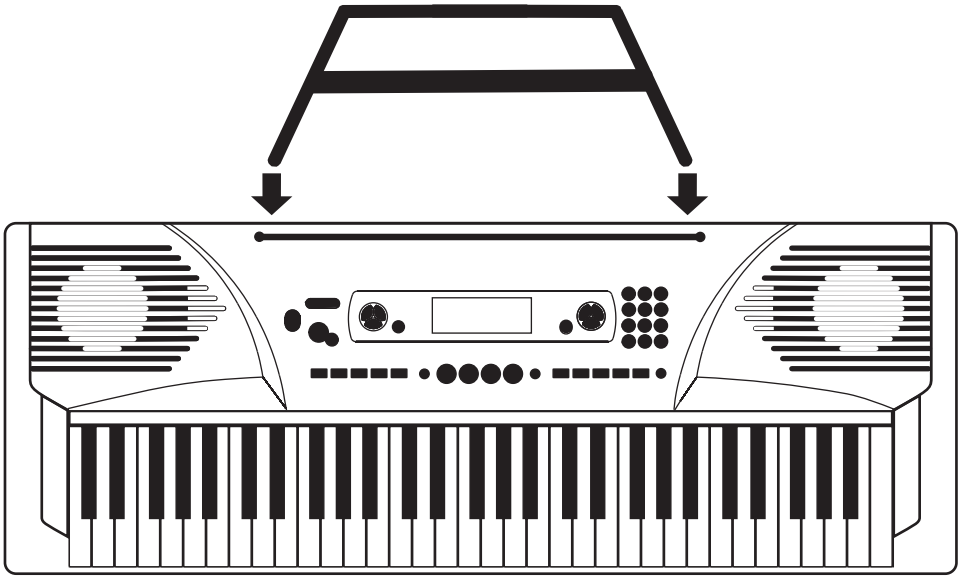
A dim and difficult-to-read LCD display.
Abnormally low speaker/headphone volume.
Distortion of the sound output.
Sudden power failure when playing at high volume.
Abnormal rhythms or demo songs are played.
Dimming of the display when playing at high volume.

CAUTIONS!

- When inserting batteries, make sure to follow the polarity marking.
- Never use batteries of different types.
- Never mix old batteries with new ones.
- Replace the batteries as soon as possible after any sign of discharge.
- Always remove the batteries from the battery compartment when the keyboard is not expected to be used for a long period of time.

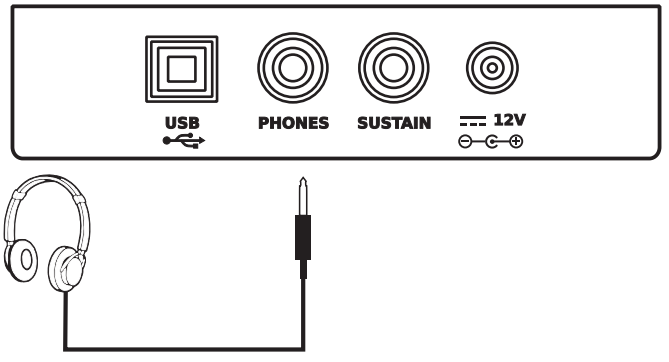
Setting Music Stand

Please set up the music stand as the instruction below:



Connections

Headphones Jack



1. If you prefer to play with headphones for high quality personal monitoring, plug a set of stereo headphones into the rear panel PHONES jack.

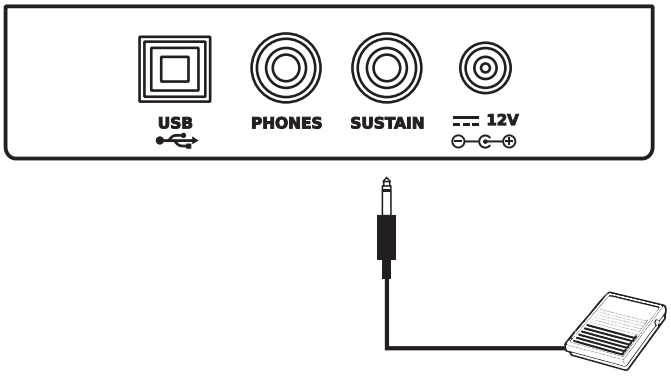
2. Plug a set of headphones into the PHONES jack and the speakers will be disabled automatically.

NOTE:
Never use headphones in high volume, as it may hurt your ears.

Sustain Jack

1. An optional footswitch can be plugged into the SUSTAIN jack for sustain control.

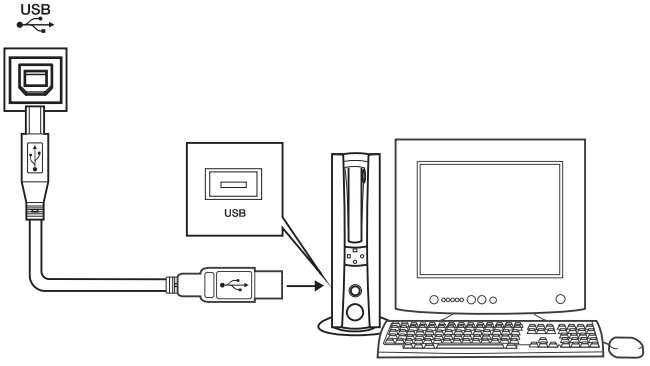
2. The footswitch functions like the damper pedal of a piano. Press for sustain, release for normal sound.



USB Jack

1. Connect PC or other USB host devices that support USB Audio.

2. For devices with USB cable, after the driver is installed and initialization is finished, you can choose USB Audio Device in the device menu of the software to transfer midi data.



⚠WARNING

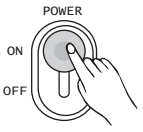
To avoid damages, turn the power switches of this keyboard and all related devices OFF if you want to plug in or unplug between this instrument with all related devices.

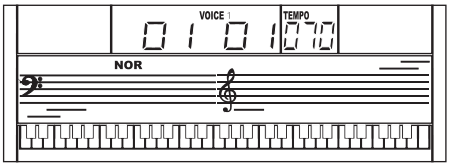
Basic Operation

Power Switch

1. First, please ensure the correct connection has been made based on the previous instruction.

2. Turn the [POWER] switch on. The LCD display lights up.

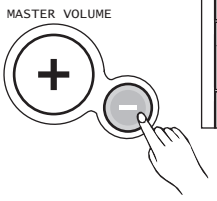


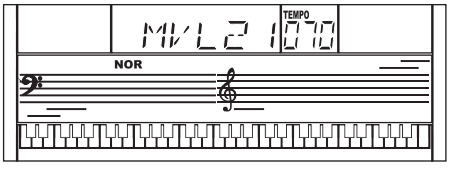


> **NOTE:**
> - If the LCD display does not light up after you turned on the keyboard, please check the power supply.

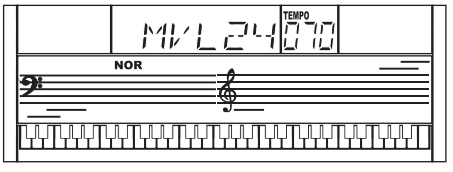
Master Volume

1. The keyboard volume could be adjusted from 0 to 31 by pressing [MASTER VOLUME + /-] button, LCD will display MVL XX.





2. Press [MASTER VOLUME +] and [MASTER VOLUME -] buttons simultaneously to set to the default value MVL 24.



> **NOTE:**
> - If the keyboard is silent, that means the volume has adjusted to its minimum level.

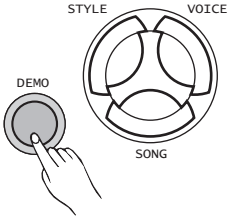
Demo

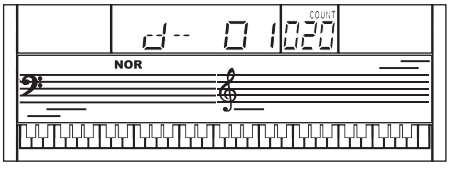
This keyboard includes 2 classic demo songs.

1. Press [DEMO] key to enter the DEMO mode.

2. Select a demo song with [+/YES], [-/NO] or number buttons [1] [2] .

3. Press [START/STOP] or [DEMO] key again to exit the demo mode.





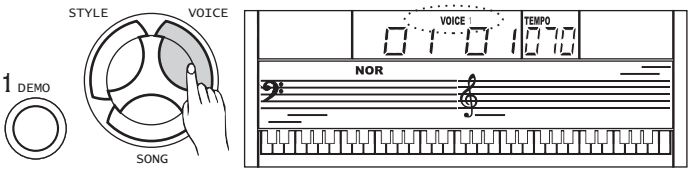
> **NOTE:**
> - In the demo mode, all function keys except DEMO, START/STOP, TEMPO, +/YES, -/NO, NUMBER 1, NUMBER 2, MASTER VOLUME will be disabled.

Voices and Effects

There are 157 voices in total (See appendix), including 128 GM voices, 6 percussion voices, and synth voices.

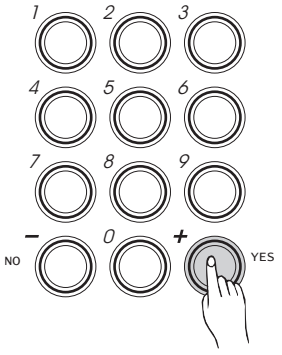
Select a Voice

1. Press the [VOICE] button to enter the voice mode.
The default VOICE 1 is NO:01; LCD will display VOICE 1 and its number.

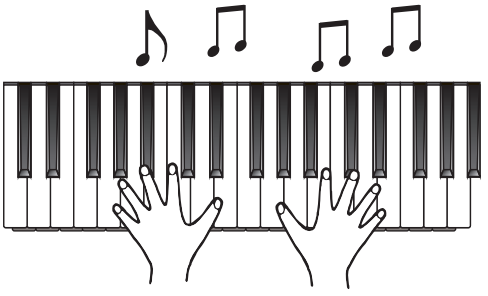


2. The [+/YES] and [-/NO] buttons:
Press [+/YES] or [-/NO] button to choose your desired voice.
The selected voice number will be shown on the display.

The number buttons:
The number buttons can be pressed directly to select your desired voice.



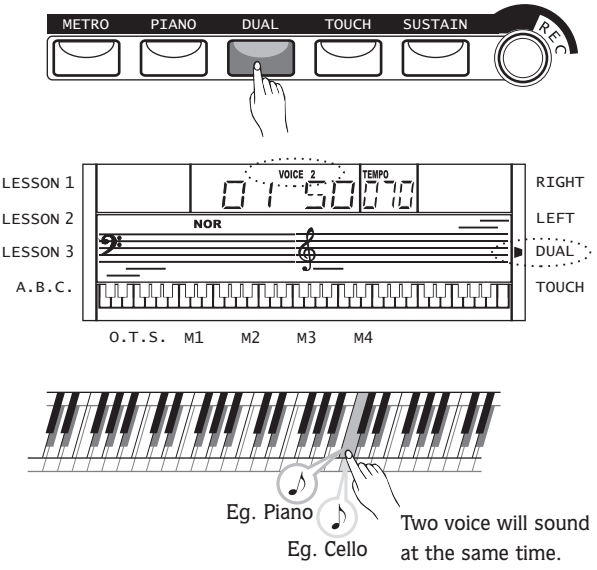
3. After selecting a voice, you can now play the keyboard.



Dual Voice

This keyboard has the "dual voice" function. This function is capable to enhance the delicacy of your music by playing two voices of musical instruments simultaneously; new combinations of voices and music could be created then. When the dual function is off, the voice indicated is VOICE 1, when the dual function is on, the voice indicated would be VOICE 2.

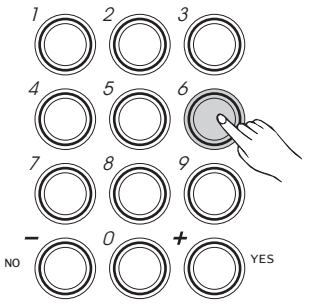
1. During the VOICE 1 status, press [DUAL] button to enter the dual voice function. "VOICE 2" and "DUAL" signal would be lightened simultaneously. The number of the dual voice will be displayed on the LCD. Now, two different sounds will be appeared at the same time just by pressing one key.



Voices and Effects

2. Press [+/YES] / [-/NO] button or numeric keypad to select your desired voice. The default DUAL VOICE number is NO.50 Strings2.

3. Press [DUAL] button again to turn off the DUAL VOICE. VOICE 2 will be disabled, the notes you play will return to the single voice of VOICE 1.



NOTE:
In DUAL VOICE status, only section above split point on keyboard has dual voice.

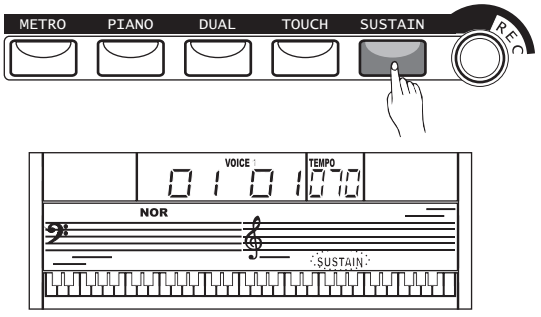
Sustain

This function helps you to get a voice with a sustained effect, while playing the keyboard.

1. Press [SUSTAIN] button to activate the sustain effect. LCD lights the SUSTAIN flag. The keyboard will be played with a sustain effect.

2. Press [SUSTAIN] button again to eliminate the sustain effect. The SUSTAIN flag will disappear.

3. Default sustain is disabled accordingly.



NOTE:
When you step on the sustain pedal, the sustain effect will be stronger than the effect produced by the [SUSTAIN] button.

Touch

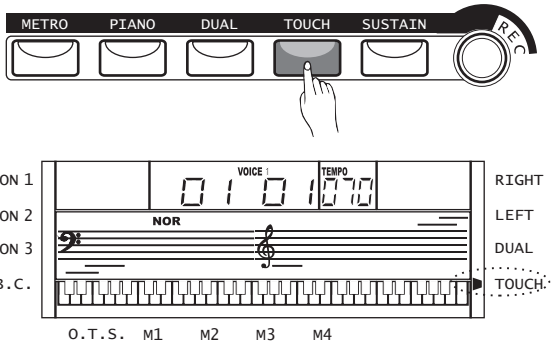
This function allows you to turn on the dynamic level while playing the keyboard.

1. Press [TOUCH] button to turn off the touch response function. LCD will eliminate the TOUCH flag, it means touch response is disabled.

2. Press [TOUCH] button again to turn on the touch response effect. LCD lights up the TOUCH flag.

3. Default touch is activated.

4. To experience the effect, play any note on the keyboard after you turn this function on.

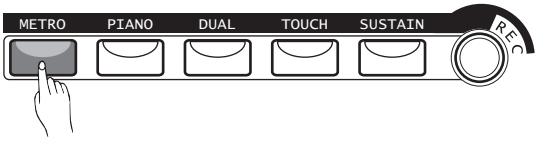


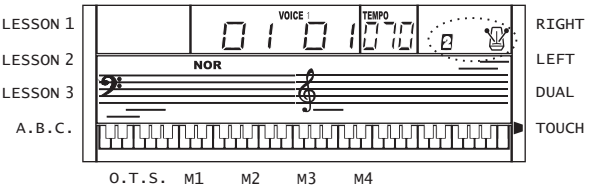
Metronome

1. Press [METRO] button to enable to the metronome.

2. Press [METRO] button again to disable it.

3. Metronome could not be played in SONG/CHORD DICT mode.



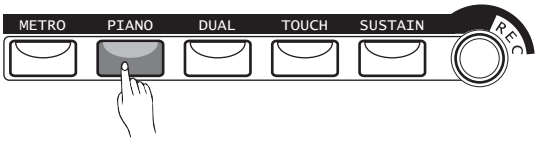


NOTE:

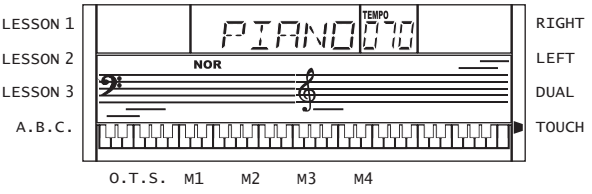
- Metronome can be played along with the tempo as accompaniment whenever you turn on a style.
  Metronome could be played in the recording mode, but it would not be recorded.

Piano

1. Press [PIANO] button to enter to the piano mode. The LCD displays PIANO, and the voice changes to piano immediately. In this mode, A.B.C. will be disabled.



2. Press [PIANO] button again to exit the PIANO mode.

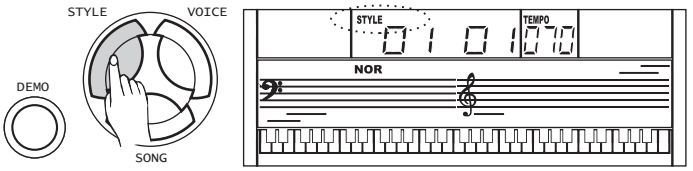


3. If any of the [FUNCTION] / [DEMO] / [VOICE] / [SONG] / [STYLE] buttons has been pressed to recall the memory the piano mode will be quit.

Style Control

The keyboard has a total of 100 styles, from 01 to 100, including 10 piano styles.

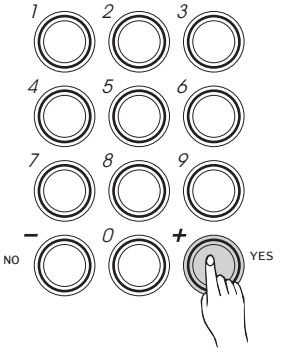
Select a Style



1. Press the [STYLE] button to set the keyboard to the style mode. The default STYLE 1 is NO:01; LCD will display the STYLE flag and its number.

2. [+/YES] and [-/NO] buttons:
Press [+/YES] or [-/NO] to choose your desired style. The selected style number will be shown on the display.

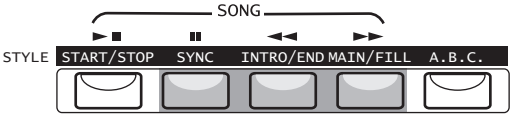
The number buttons:
The number buttons can be pressed directly for selecting the number of your desired style.



3. After selecting a style, you can start playing the keyboard.

4. When a style is playing, you can select a new style at any time. The number of the new style will be displayed on the LCD immediately. If the style changes at beat one, the new style will be played at once; if the style changes at other beats, the new style will start in the next measure. The new style will be playing with the old tempo.

The Accompaniment Section



Accompaniment consists of Intro, Main, Variation, Fill and Ending. Using different sections based on the different structures of styles enable you to enhance the overall musical performance.

INTRO
Press the [INTRO/END] button to insert an intro section before you start to play . The rhythm will begin with a 2-4 measure introduction which will be followed by a menu section.

MAIN and VARIATION
There are two sections: main and variation. Each section consists of 2 to 4 measures.

FILL
While the accompaniment is playing, you can fill in the rhythm/accompaniment by pressing the [MAIN/FILL A] button. This will automatically insert a fill section.

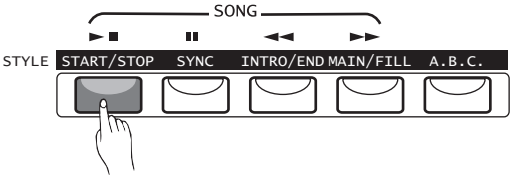
ENDING
When you press the [INTRO/END] button, it brings rhythm accompaniment and your performance to end with a 2-4 measure conclusion.

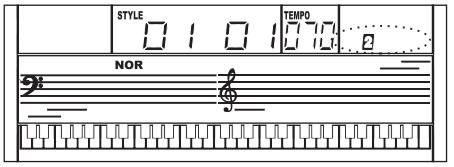
Start a Style

1. Start immediately:

Press [START/STOP] button to start the style, the drum beats of the style will be played at once.

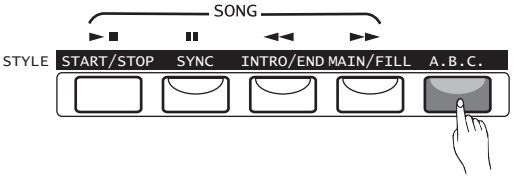
The beats will be shown on the LCD alternately.

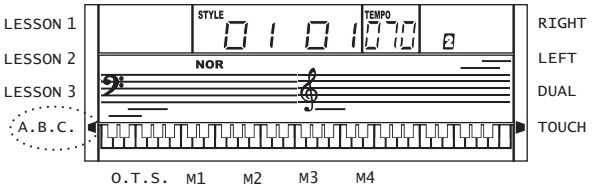


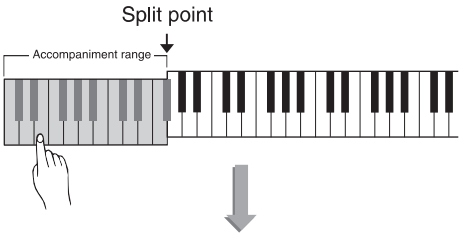


2. A.B.C. mode

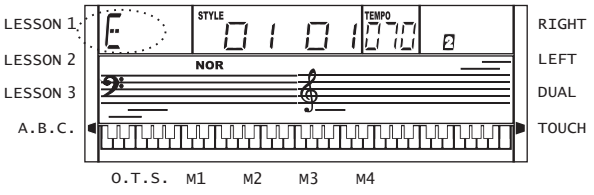
The default setting of A.B.C. is disable. Press [A.B.C.] button to turn on this auto bass chord mode; the A.B.C. flag on the LCD is lightened accordingly.







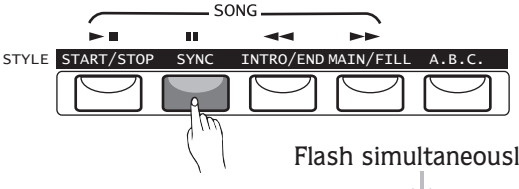
The left side of the split point is known as the chord area. When playing the chord, both the bass and the chord voices will be performed.

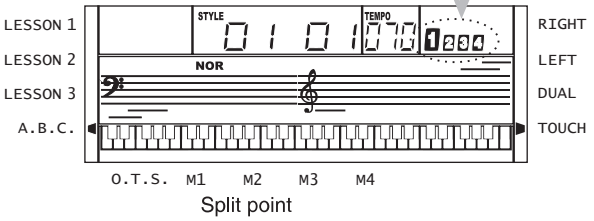


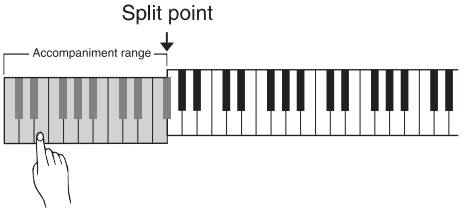
3. Sync Start

Press [SYNC] button to enter the sync start waiting mode. The beats on the LCD flash together.

If the A.B.C. mode is on, play any key on the left section of the keyboard and the style starts playing with the bass and chord.
If the A.B.C. mode is off, play any key on the keyboard, and the style plays only the drum voice.



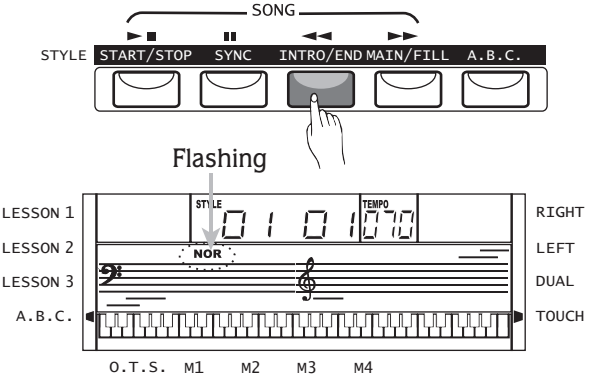




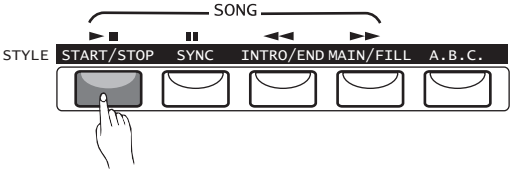
Style Control

4. Intro Start:

Press [INTRO/END] button when the style is not playing, NOR or VAR flag will flash on the LCD, indicating the intro section is ready to play. Length of the intro varies in different styles.

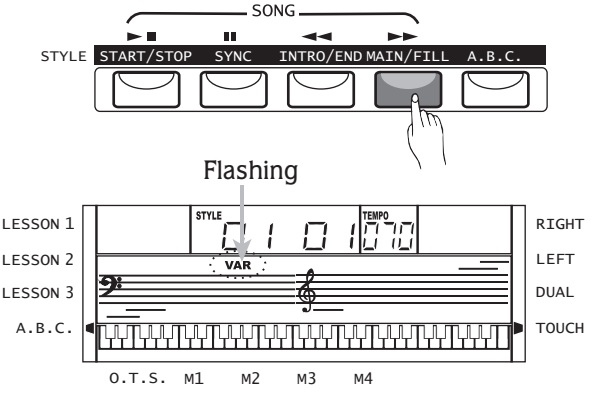


Press [START/STOP] button, then the style starts with an intro section, followed by the main section.



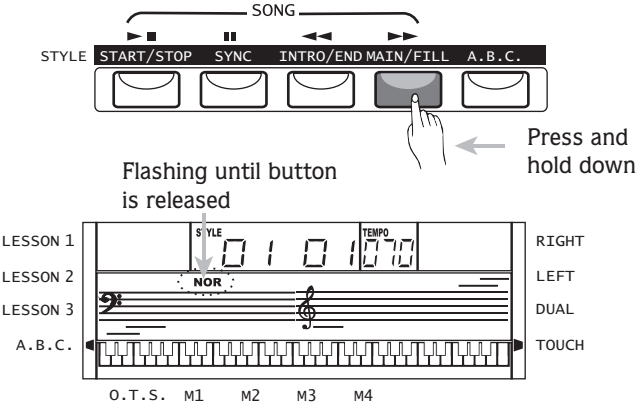
Main/Fill

1. In MAIN mode, press [MAIN/FILL] button to insert 1 measure fill and LCD flashes VAR; after one measure is over, VARIATION style will be returned.



2. In VARIATION mode, press [MAIN/FILL] button to insert 1measure fill and LCD flashes NOR; after one measure is over, MAIN style will be returned.

3. Press and hold down the [MAIN/FILL] button when the style is playing, the selected FILL pattern repeats continuously until the button is released.

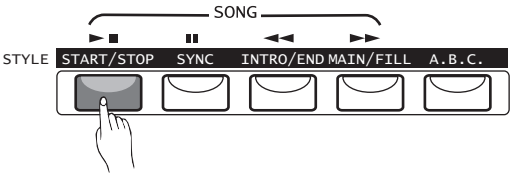


NOTE:
Press [MAIN/FILL] when the style stops, it will be changed to the VAR or NOR; the VAR or NOR flag on the LCD will be lightened.

Stop a Style

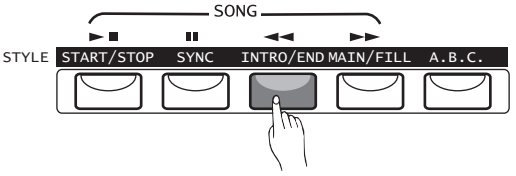
1. Stop immediately

The accompaniment can be stopped at any time by pressing the [START/STOP] button.



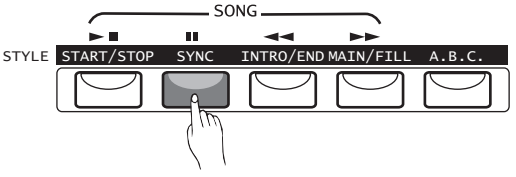
2. Ending stop

Press the [INTRO/END] button to complete the style with an ending section. The ending section will begin from the start of the next measure.



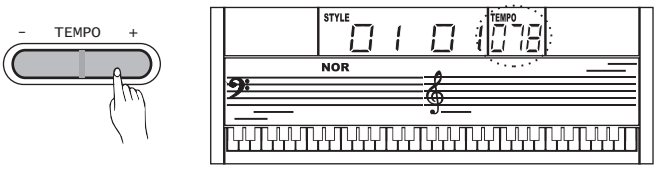
3. Sync stop

Press the [SYNC] button to stop playing the style; the synchronized start mode will be activated.

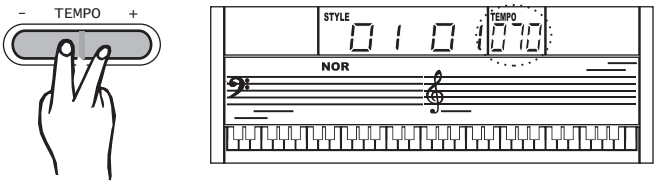


Tempo

1. Press the [TEMPO +] or [TEMPO -] button to change the tempo.



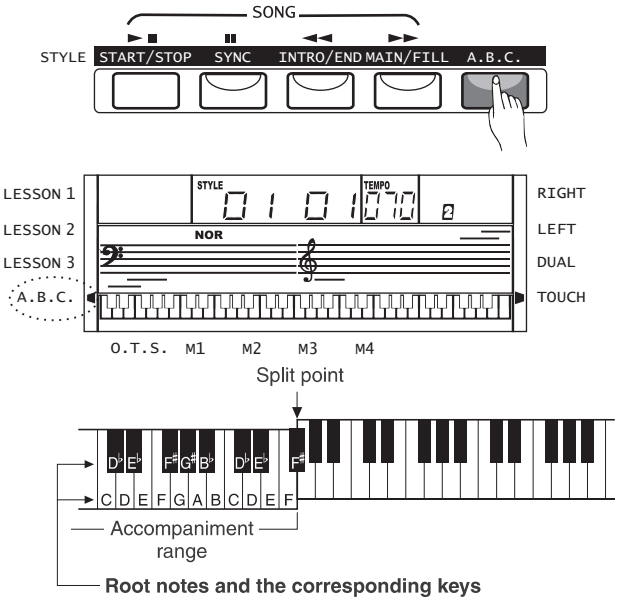
2. Press the [TEMPO +] and [TEMPO -] button simultaneously to set the tempo value back to its default.



3. The keyboard will change the default tempo of the style even if you change the style when it is playing.

Chord Recognize

"A.B.C." is disabled during the default setting.
Press [A.B.C.] button to turn on this "auto bass chord" function; the A.B.C. flag on the LCD is lightened. The left section of the keyboard is known as the "chord area", while playing the chord, both the bass and the chord voices phonate.



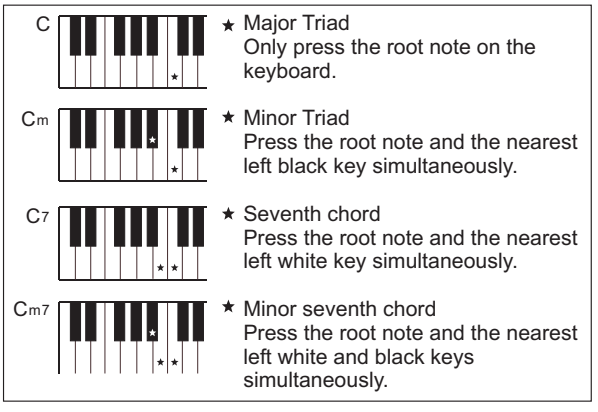
NOTE:
Since the chord detection of A.B.C. is based on the Chord Root priority, some chords that could be played under the Chord Dictionary may not be recognised by A.B.C. though, eg. B6、bB6、Baug、bBm6、Bm6、bBdim7、Bdim7.

There are 2 ways to detect a chord: "single finger detect" and "multi fingers detect".

If the chord played is based on "multi fingers detect", it is recognized as the "multi fingers chord".
If not, "single finger chord" will be recognized.

• Single Finger

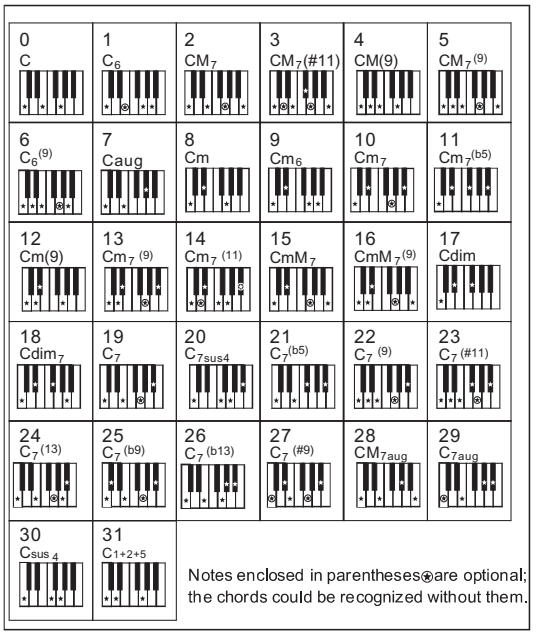
Single finger type not only can detect single finger but also can detect multi finger. And the single finger makes it easily to play chords through only one, two or three keys. Including major, minor, seventh, and minor seventh chord. Refer to relevant picture on the right for details.



NOTE:
When A.B.C. is on, press the keys on the left of the split point. The chord will be recognized as single finger chords.

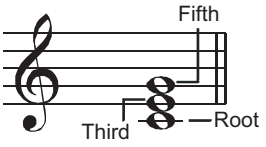
• Multi Finger

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



• Chord Basics

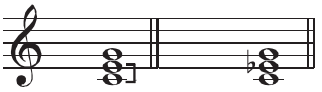
A chord, in music, is any harmonic set of three or more notes that is heard as if sounding simultaneously. The most frequently encountered chords are triads. A triad is a set of three notes that can be stacked in thirds. When stacked in thirds, the triad's members, from lowest pitched tone to highest,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

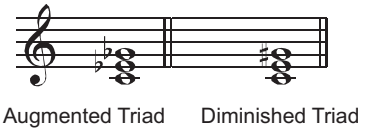


• Triad Type

There are following basic triad types:

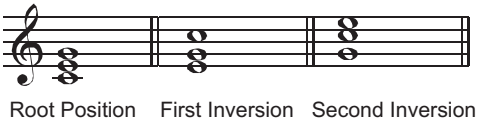
Major Triad	A root with a major third added above and a perfect fifth will consist as a Major Triad.
Minor Triad	A root with a minor third added above and a perfect fifth will consist as a Minor Triad.
Augmented Triad	A root with a major third added above and an augmented fifth will consist as an Augmented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





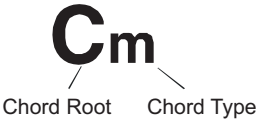
• Chord Inversion

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.



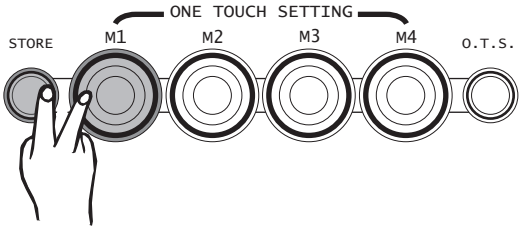
• Chord Name

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

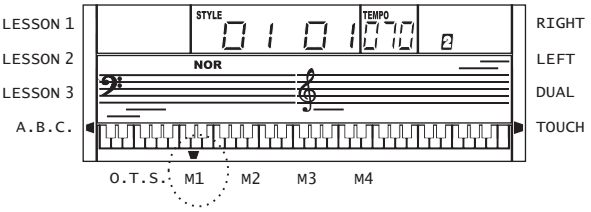


Memory

There are 4 memories for storage.



1. Press and hold [STORE], press [M1](or [M2]-[M4]) meanwhile. The data will be stored into M1 (M2-M4).



2. The data which can be stored into the memory are as follows:
VOICE DATA
VOICE:VOICE 1, VOICE 2;
VOICE EFFECT:TOUCH ON/OFF, SUSTAIN ON/OFF, TRANSPOSE, OCTAVE, SPLIT POINT;

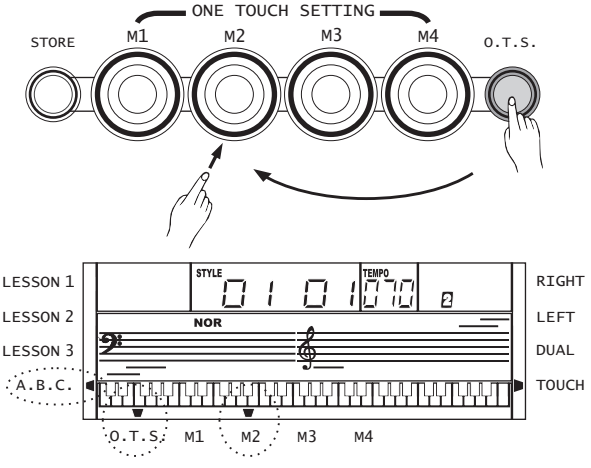
ACCOMP DATA
STYLE NUMBER, TEMPO, A.B.C ON/OFF, NORMAL/ VARIATION STATUS.

NOTE:
If the current data is different from the current memory data, the corresponding memory flag on the LCD will flash.

The memory data will change to its default after power off.

One Touch Setting

When One Touch Setting is switched on, you can instantly recall all auto accompaniment related settings including voices selection and digital effects simply with a single touch of a button. In this function, 4 types of parameters (M1~M4) will be loaded for operating the current style.



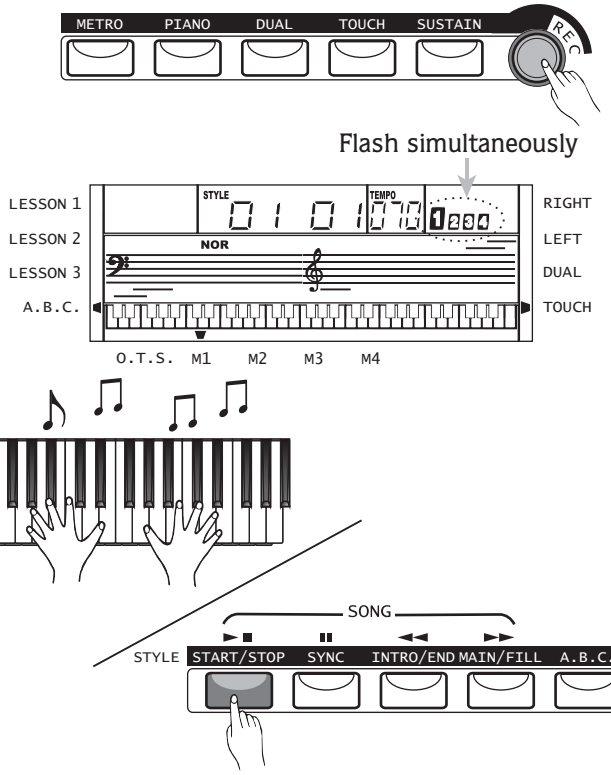
1. Press [O.T.S.] button to turn this mode on and the O.T.S. flag on the LCD will be lightened.
Press any of the[M1] ~ [M4] buttons, the relative type of the parameter will be loaded according to the current style.
The keyboard will turn the A.B.C. mode on automatically while the O.T.S. is on.

2. Press any of the M1-M4 buttons, which is corresponded to your desired setting.

3. Press [O.T.S.] button again to turn off the O.T.S. Mode.

Record

Start Recording



1. Press the [RECORD] button, the four-beat on the LCD will flash simultaneity, indicating the "record waiting status".
A voice, style and memory can be selected in this status. The ACCOMP track and MELODY track can be recorded together.

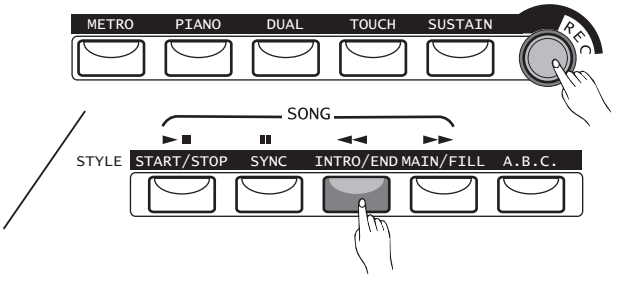
2. After all the settings in the "record waiting status" have been selected, play the keyboard (the chord area when recording ACCOMP) or press the [START/STOP] button; it will start recording and the beat will be displayed according to the current tempo.

NOTE:
Once the recording of one track is started, the original data in the track will be overwritten.

Stop Recording

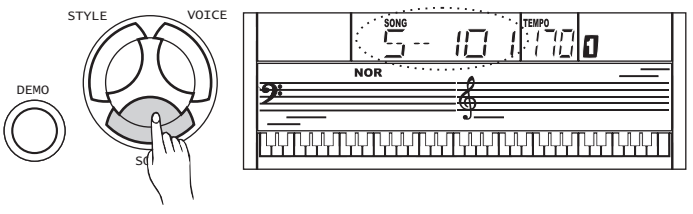
1. STOP AUTOMATICALLY
While recording, once the capability is full, the recording will be stopped automatically. "FULL" will be displayed on the LCD.

2. STOP MANUALLY
Press [RECORD] button again to stop the recording immediately.
When a style is playing, press the [INTRO/END] button, it will stop recording automatically after "ending".



Playback the Recording

Press [SONG] button, use numeric keypads or the [+/YES] / [-/NO] button to select the 101songs.
The recorded data will be played.



NOTE:
If you power off the keyboard, the recorded data would be erased.
If you would like to quit the recorded song play mode, you could use numeric keypads or the [+/YES] / [-/NO] button to choose other songs.
Then it will enter to song mode automatically.

Function Menu

Press [FUNCTION] key to enter the menu of function.
The default option of the menu is "TRANSPOSE".
Everytime when you enter the menu, it will return to the option that you selected last time.
Press [FUNCTION] key to select the option you would like to set.
Use the [+/YES] / [-/NO] button to set the parameter.
The option and the parameters are indicated on the right:

NOTE:
If there is no action 5 seconds after pressing the [FUNCTION] key ,it will quit the function menu automatically.

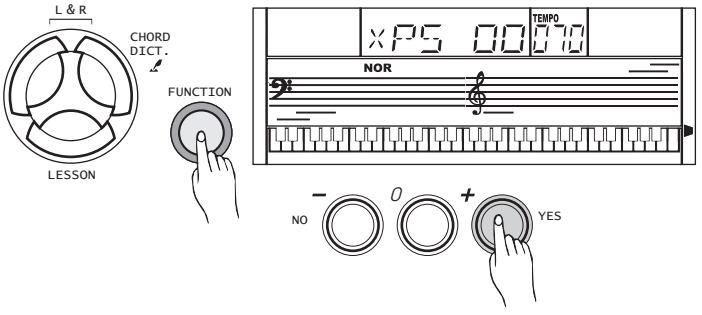
Option	LCD Display	Range	Default
TRANSPOSE	XPS 00	-6...6	0
OCTAVEOCT	OCT 00	-1...1	0
BEATBET	BET 04	0, 2...9	4
SPLIT PTSPT	SPT 19	1...61	19(#F3)
MIDI INCHI	CHI ALL	01...16, ALL	ALL
MIDI OUT	CHO 01	01...16	01
ACCOMP VOLUME	AVL 20	00...31	20
BANK SELECT	BAK 01	01...128	01

Transpose

Press [FUNCTION] button to enter the TRANSPOSE sub-menu. The LCD displays the current transpose value.

Use [+/YES] / [-/NO] to adjust the transpose value from -6 to 6 semitones, only for the right area of the keyboard.

Press the [+/YES] and [-/NO] button together to set the transpose value back to its default.

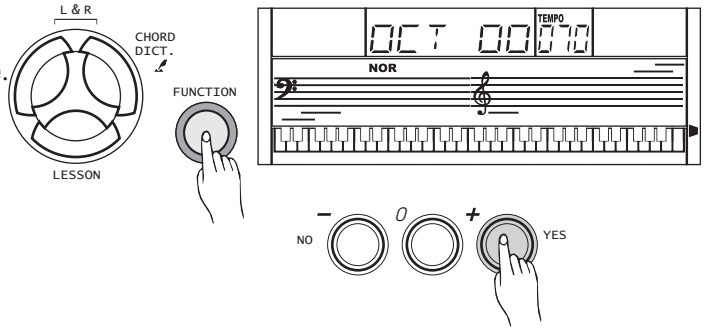


Octave

Press the [FUNCTION] button to enter the OCTAVE sub-menu. The LCD displays the current octave value.

Use [+/YES] / [-/NO] to adjust the octave value from -1 to 1 octaves, only for the right area of the keyboard.

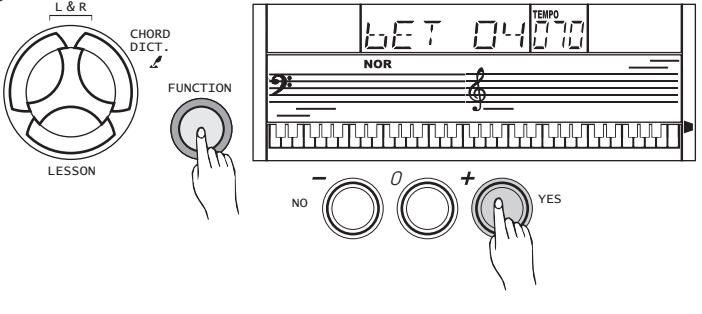
Press [+/YES] and [-/NO] keys together to set the octave value back to its default.



Beat

Press the [FUNCTION] button to enter the BEAT sub-menu.
The LCD displays the current beat value.

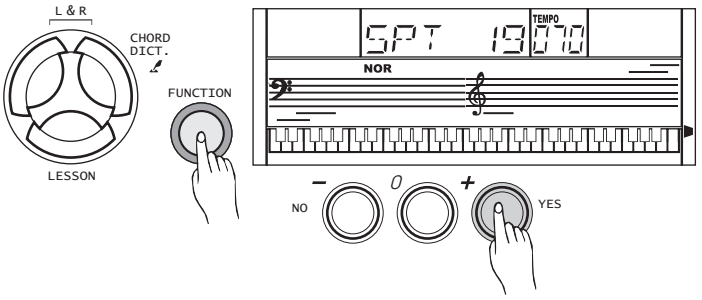
Use [+/YES] / [-/NO] to select the beat value.
The beat value includes: 0, 2-9, 9 types of value.



Split Point

Press the [FUNCTION] button to enter SPLIT POINT sub-menu. The LCD displays the current split point value.
Use [+/YES] / [-/NO] to select the beat value. The keyboard can be also used to change the split point.

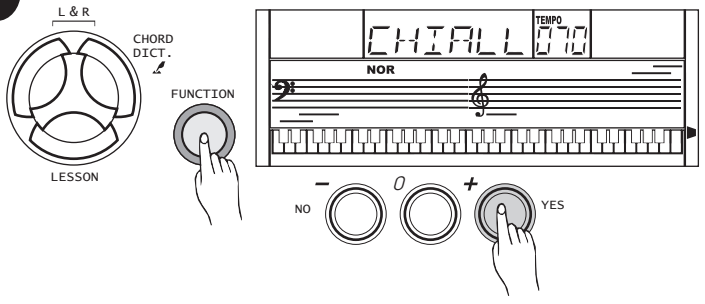
The key of the split point is the part of the left area.



MIDI IN

RECEIVE can be used to set the channel of MIDI IN.
Channel 1-16 can be selected by pressing [+/YES] / [-/NO] button.

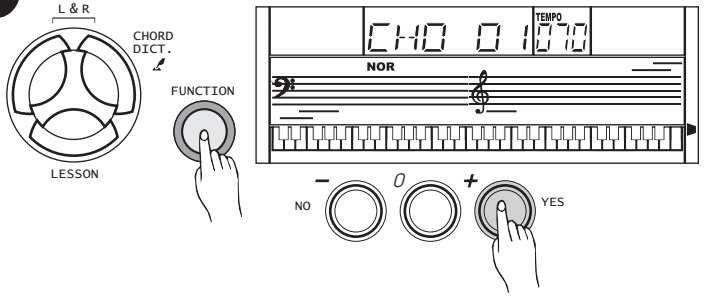
The default setting is ALL.



MIDI OUT

TRANSMIT can be used to set the channel of MIDI OUT.
Channel 1-16 can be selected by pressing [+/YES] / [-/NO] button.

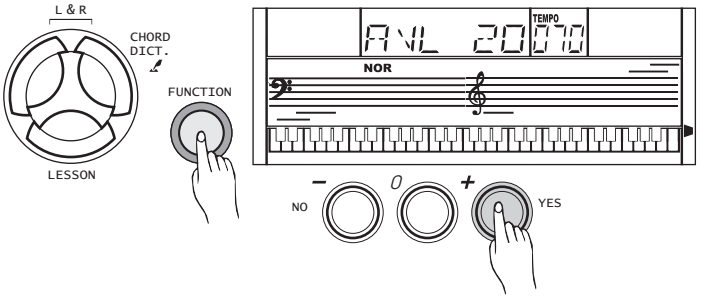
The default setting is 001.



Accomp Volume

Press [FUNCTION] button to enter ACCOM VOLUME sub-menu. The LCD displays the accomp volume value ranges between 0 and 31.
(Default accomp volume value is 20)
Use [+/YES] / [-/NO] to select the accomp volume value.

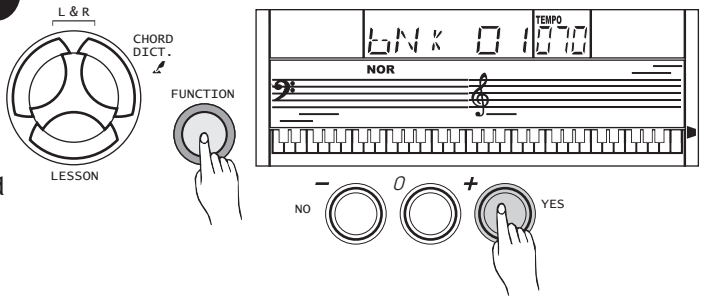
Press [+/YES] and [-/NO] together to turn off the accomp volume value and LCD displays "ACC OFF".



Bank Select

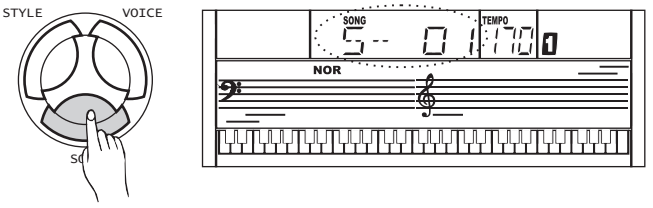
Press [FUNCTION] button to enter BANK SELECT sub-menu, the LCD display BNK 01.

The bank of the MIDI output sound could be adjusted from 1-128.



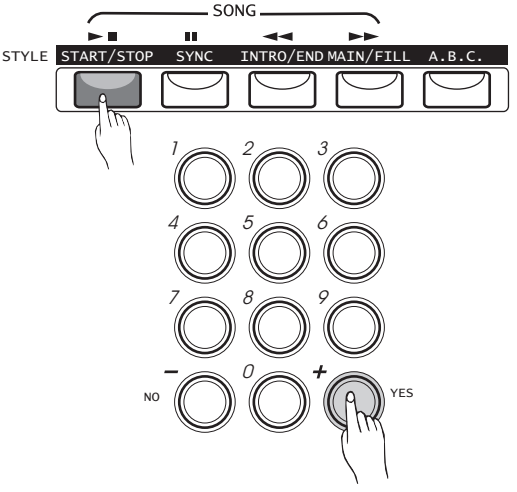
Song

There are total 100 songs in this keyboard (see Appendix). Each song can be practised in the MELODY OFF mode.



1. START/STOP the song
Press [SONG] button to enter the "song mode", the song flag on the LCD will show up. All songs will be played in a loop.

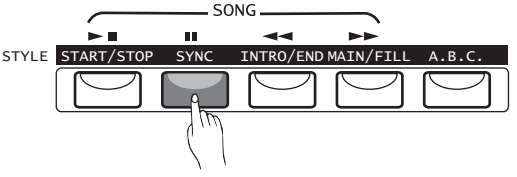
Press [START/STOP] button to stop playing the song, but it will not quit the song mode.



2. LOOP:
The second time you start playing the song by pressing [START/STOP] button, it will play the current song repeatedly.

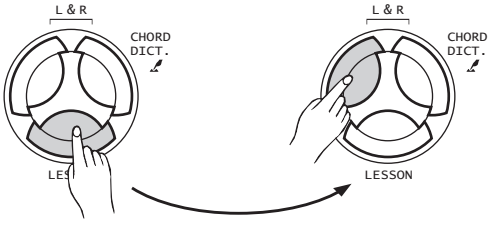
3. SELECT the song:
Use [+/YES] / [-/NO] button or numeric keypad to select your desired song.

4. REW, FF and PAUSE
When a song is playing, press [FF] button to fast forward the song;
Press [REW] to rewind the song (base on the measure);
Press [PAUSE] to pause the song.
When the song is stopped, press [STYLE], [VOICE], [DUAL] to exit the song mode.

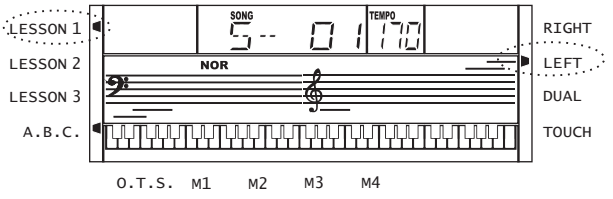


Lesson Mode

Learning a new song primarily involves with the timing of the piece and the accuracy of a note. Thus the song learning function focuses on these two elements to help you better play a song.



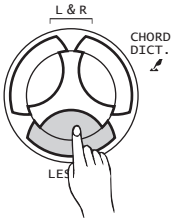
1. In song mode (when a song is not playing), press [LESSON] button to enter the Lesson mode.

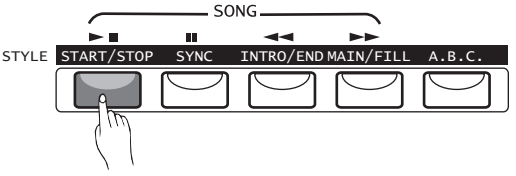


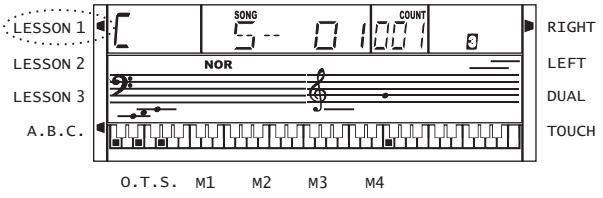
2. There are 3 levels to score the performance of your playing. You can use [R] or [L] button to select which hand to practice. If neither hand is selected, the keyboard will choose the right hand automatically. If [L] and [R] are both selected, you can use two hands to do the lesson togther.

NOTE:
The contents for practising with left hand varied according to different types of songs. If you choose a chord song, the left hand practices the chord, otherwise, the left hand will be used to practise the melody.
When a song is playing, the notes and keyboard displayed on the LCD indicate the melody and chord position, the numbered musical notation displayed on the LCD shows the last note played by the RIGHT track, and it will be convenient for you to practice .

Lesson 1-Practice an timing







1. Press [LESSON] button to enter the LESSON 1 mode, the lesson 1 flag is lightened on the LCD.
Evaluation is based on the accuracy of the time value, and the accuracy of note playing will not be graded.

2. Press [START/STOP] to begin.

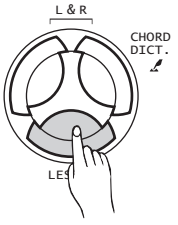
3. If [R] is selected; it will mute the melody of the right hand position and you will have to follow the timing of the right hand. As long as the timing is correct, the melody will be sounded.

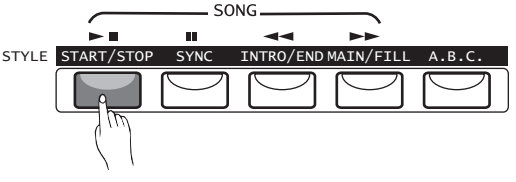
4. If [L] is selected ; it will mute the changing chord and melody by the left hand. You will have to follow the timing of the left hand. As long as the timing is correct, the chord / melody will be sounded.

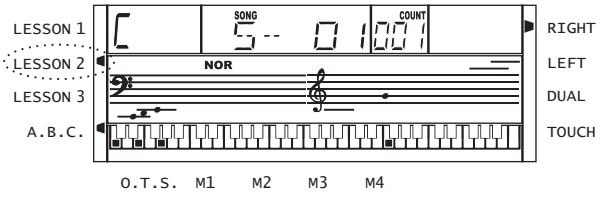
5. If [L] and [R] are both selected, the melody on both hands will be muted. You will have to follow the timing of both the left and right hands, and the song will then play accordingly.

6. Once the lesson is completed, the result of evaluation will be announced.

Lesson 2-Practice a note accuracy







1. Press [LESSON] button again to enter the LESSON 2 mode. Evaluation is based on the accuracy of notes playing. Accuracy of time value will not be considered as the song could keep going only if the correct note is played.

2. Press [START/STOP] button to begin.

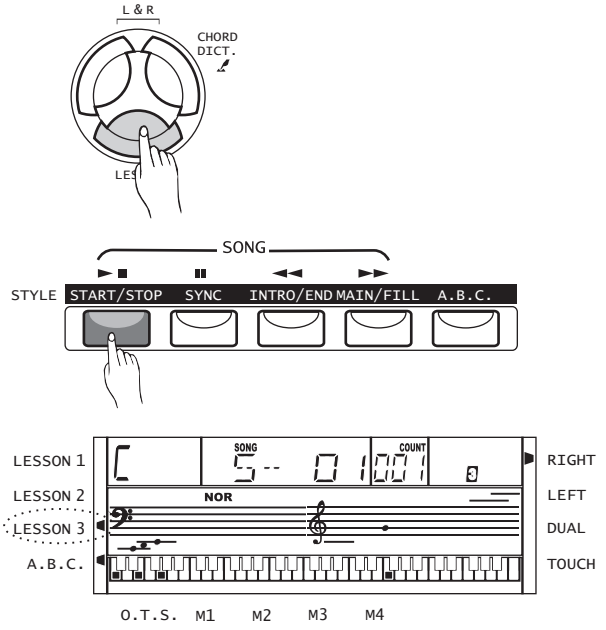
3. If [R] is selected, only the left hand will be played automatically until the first note on the right hand is played. The song will not proceed until the correct note is played.

4. If [L] is selected, only the right hand will be played. The song will not proceed until the notes of the left hand are played correctly.

5. If [L] and [R] are both selected, the song will proceed only when the notes of both hands are played correctly.

6. Once the lesson is completed, the result of evaluation will be announced.

Lesson 3-Melody off



1. Press [LESSON] button in LESSON 2 to enter the LESSON 3 mode.
   In this mode, evaluation is based on the correctiveness of both the time value and notes.

2. Press [START/STOP] button to begin.

3. If [R] is selected, the melody in the right hand will be muted. Unlike LESSON 1, the correct notes must be played to produce correct the melody.

4. If [L] is selected, the chord / melody in the left hand will be muted. Unlike LESSON 1, the correct chord or melody must be played to produce a correct chord or melodic line.

5. If [L] and [R] are both selected, both the left and right hands will be muted, only the accompaniment will be sounded. Both hands must be played correctly to produce the accurate song.

6. Once the lesson is completed, the result of evaluation will be announced.

Grade Function

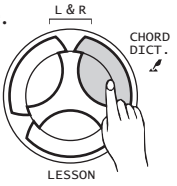
Lesson 1 / Lesson 2 / Lesson 3 all have the grading function. There are four levels, including: OK , GOOD, VERY GOOD, EXCELLENT.

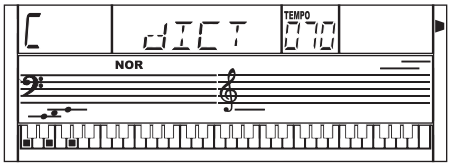
After a grade is given, the song will be played again and retain the lesson mode.

Chord Dictionary

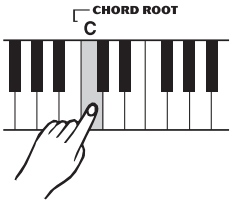
If you know the name of a chord but don't know how to play it, you can use the Chord Dictionary function.

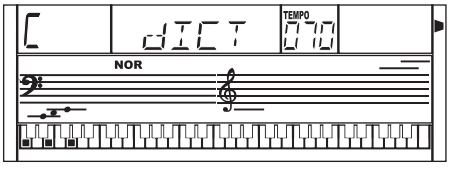
1. Press [CHORD DICT./R] button to enter the DICT mode. The LCD shows " dict ". In this mode, the keyboard notes in the right area can be played to assign the Chord Type and the Chord Root.





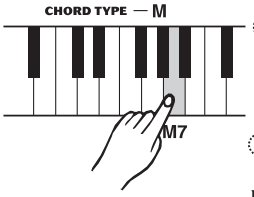
2. For example, if we want to play a Cm7 Chord. Press the C key in the section of the keyboard labeled Chord Root. (The note does not sound) the root note you set will be shown on the display.

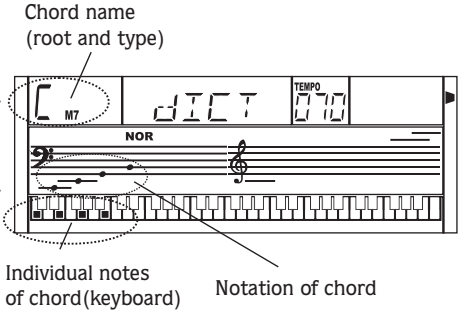




Press the m7 key in the section of the keyboard which has labeled Chord Type (The note does not sound).The notes you should play for the specified chord (root note and chord type) are shown on the display as the notation and also in the keyboard diagram.

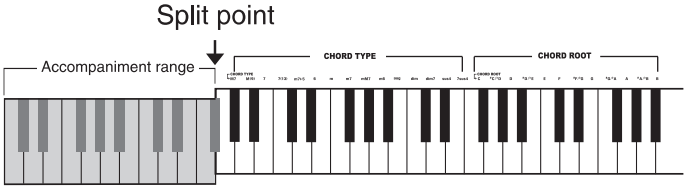
3. When the Chord Type and Chord Root are confirmed, the LCD will display the Chord and its keyboard position. A bell sound will be heard if you play it correctly.





4. Press [CHORD DICT./R] button again to exit the Chord Dictionary mode.

5. Specify and play the Chord Type and the Chord Root that you would like to play on the keyboard as shown on the right:



6. Some fingerings may be recognised as different chords by A.B.C. , eg. B6、bB6、Baug、bBm6、Bm6、bBdim7、Bdim7.

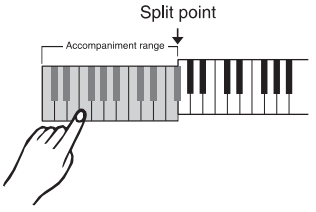
NOTE:

The notes you played in order to assign as the Chord Type / Chord Root could not be heard.

If you play the chord correctly, you could hear the applause sound.

If the chords are not be played correctly, a bass sound would be heard.

The chord should be played below the split point(chord area).



MIDI Function

What is MIDI

1. MIDI stands for "Musical Instrument Digital Interface", that is the standard interface between a PC and other electronic instrument(s).

2. USB connection can be used for midi data transference with a computer or other USB host devices that support USB audio devices.

3. The keyboard can only be connected to the PC.

4. Use the keyboard as a tone generator, the data (MIDI) recorded on the PC can be played on the keyboard.

NOTE:
While a recorded data and a style are being played, you can not use the MIDI IN function, or the song you are playing will have an error occurs for the same channel.

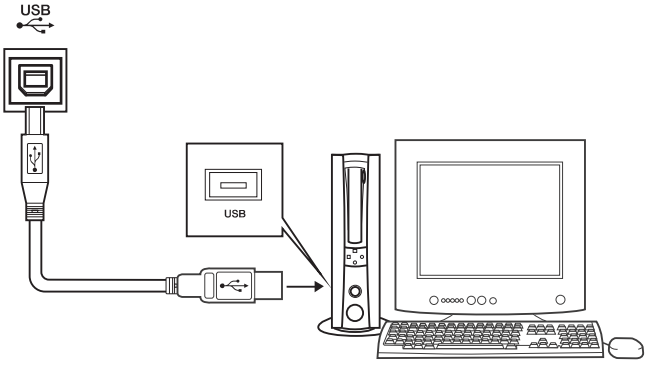
USB Connection

1. System Requirements

- CPU: 300 MHz or higher, Pentium 2
- Memory: 64MB or more
- Driver: CDROM 24X
- OS: WINDOWS 2000/XP

2. The Method of Connection

Connect a standard USB cable between the rear-panel of the USB jack of this instrument and the USB jack of your computer (USB cable will be sold separately).



3. USB Precautions

Please observe the following precautions while connecting the instrument with the a computer via a USB cable.Failure to do, so can cause the instrument and/or the computer to hang up(freeze), possibly causing corruption or losing the data.
If the instrument or computer hangs up, turn the power of both devices off and then turn it on again after a few seconds.

CAUTIONS!

Activate the computer from a sleep/suspended/ standby mode before connecting the USB cable.

Connect the USB cable to the instrument and a computer before turning the power of the instrument on.

MIDI Application

1. PC recorded data (MIDI) can be played on the keyboard.

2. In order to transfer songs between your computer and the keyboard, you will need to install other applications.

3. You need not to install the USB Driver for WINDOWS 2000/XP.

Specifications

LCD display	Multi-functional LCD
Keys	61 keys with Touch Response
Polyphony	32-note polyphony(max)
Voice	157 Voices
Style	100 Styles
Demo Song	100 Songs; 2 Demos
Control button	Master Volume, Tempo +/-, R / Chord Dictionary, L , Lesson, Voice, Style, Song, O.T.S. , M1-M4, Store, Start/Stop, Sync, Intro/Ending, Main/Fill, A.B.C. , Record, Dual, Touch, Sustain, Metromonme, Demo, +/YES, -/NO, Piano
Accompaniment Control	Start/Stop, Sync, Intro/Ending, Main/Fill
Song Control	Start/Stop ►■ , Pause ▮▮ , Rew◄◄ , FF ►►
Record Function	Record
Panel Memory	4 Memory Storage
Power Supply	⎓ 12V
Connectors	AC Power, Headphones, Sustain, USB
Speaker	4Ω 3w x 2
Dimension	948.2(L)x347.8(W)x136.2(H)mm
Weight	4.7kg(without batteries)
Attachment	Adaptor, Music stand, Manual

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

Trouble Shooting

Problem	Possible Cause and Solution
No matter the instrument is turned on or off, a popping sound has temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
There is no sound even when the keyboard is played or when a song or style is being played.	Check if any cable or headphone is connected to the PHONES jack on the rear panel. When a set of headphones is plugged into this jack, no sound will be produced.
The volume is too soft. The sound quality is poor. The rhythm stops unexpectedly or not responding. The recorded data of the song is not playing correctly. The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones, or use the optional AC adaptor.

Appendix 1- Voice List

NO	Name
	PIANO
01	Grand Piano
02	Bright Piano
03	El Grd Piano
04	Honky-Tonk Piano
05	Elec Piano 1
06	Elec Piano 2
07	Harpsichord
08	Clavi
	MALLET
09	Celesta
10	Glockenspiel
11	Music Box
12	Vibraphone
13	Marimba
14	Xylophone
15	Tubular Bell
16	Dulcimer
	ORGAN
17	Drawbar Organ
18	Jazz Organ
19	Rock Organ
20	Church Organ
21	Reed Organ
22	Accordion
23	Harmonica
24	Tango Accordion
	GUITAR
25	Classic Guitar
26	Steel Guitar
27	Jazz Guitar
28	Clean Guitar
29	Muted Guitar
30	Overdriven Guitar
31	Distortion Guitar
32	Guitar Harmonics
	BASS
33	Acoustic Bass
34	Finger Bass
35	Picked Bass
36	Fretless Bass
37	Slap Bass 1
38	Slap Bass 2
39	Synth Bass 1
40	Synth Bass 2
	STRINGS
41	Violin
42	Viola
43	Cello
44	Contrabass
45	Tremolo Strings
46	Pizzcato Strings
47	Harp
48	Timpani

	STRING ENSEMBLE
49	Strings 1
50	Strings 2
51	Synth Strings 1
52	Synth Strings 2
53	Choir Aahs
54	Voice Ooh
55	Synth Voice
56	Orchestra Hit
	BRASS
57	Trumpet
58	Trombone
59	Tuba
60	Muted Trumpet
61	Horn
6 2	Brass Ensemble
63	Synth Brass 1
64	Synth Brass 2
	REED
65	Soprano Sax
66	Alto Sax
67	Tenor Sax
68	Baritone Sax
69	Oboe
70	English Horn
71	Bassoon
72	Clarinet
	PIPE
73	Piccolo
74	Flute
75	Recorder
76	Pan Flute
77	Blown Bottle
78	Shakuhachi
79	Whistle
80	Ocarina
	LEAD
81	Square
82	Sawtooth
83	Calliope
84	Chiff
85	Charang
86	Voice
87	Fifths
88	Bass Lead
	PAD
89	Fantasia
90	Warm
91	Poly Synth
92	Choir
93	Bowed
94	Metallic
95	Halo
96	Sweep

	EFFECTS
97	Rain
98	SoundTrk
99	Crystal
100	Atmosphr
101	Bright
102	Goblins
103	Echoes
104	Sci-Fi
	ETHNIC
105	Sitar
106	Banjo
107	Shamisen
108	Koto
109	Kalimba
110	Bag Pipe
111	Fiddle
112	Shanai
	PERCUSSIVE
113	Tinkle Bell
114	Agogo
115	Steel Drums
116	Woodblock
117	Taiko Drum
118	Melodic Tom
119	Synth Drum
120	Reverse Cymbal
	SOUND EFFECTS
121	Gt Fret Noise
122	Breath Noise
123	Seashore
124	Bird Tweet
125	Telephone Ring
126	Helicopter
127	Applause
128	Gunshot

	SYNTH VOICE
129	70elep
130	Fzpiano
131	Ep3
132	Ep4
133	Ep5
134	Harppian
135	Clavr2
136	Clavr3
137	Organbox
138	Elorgan
139	Churc2
140	Synorgan
141	Altoel
142	Fzguitar
143	Synelgt
144	Picelbas
145	Elviolin
146	Brassfm
147	Fmlead
148	Fantalfo
149	Polyaa2
150	Bowedg2
151	70elpad
	DRUM SET
152	StdKit
153	PowerKit
154	DanceKit
155	808Kit
156	BrushKit
157	OrchKit

Appendix 2- Style List

8/16BEAT	
01	8 Beat 1
02	8 Beat 2
03	8 Beat 3
04	8 Beat 4
05	60's 8 Beat
06	8 Beat Ballad
07	8 Beat Rock
08	16 Beat 1
09	16 Beat 2
10	16 Beat Pop
11	16 Beat Shuffle
12	Ballad
13	Slow Ballad
14	16 Beat Ballad
15	Unplugged
ROCK	
16	Rock
17	Pop Rock
18	Fast Rock
19	Slow Rock 1
20	Slow Rock 2
21	Rock & Roll
22	Heavy Metal
23	Blues Boogie
24	Blues
25	Shuffle
26	Blues Shuffle
27	Rock Shuffle
28	Charlston
DANCE	
29	Disco 1
30	Disco 2
31	Disco Funk
32	Dance
33	House 1
34	House 2
35	Rap
36	Euro Beat
37	Hip Hop
38	Techno

SOUL & FUNK	
39	Funky Pop
40	Jazz Funk
41	Cool Funky
42	Soul 1
43	Soul 2
44	Soul Shuffle
45	Soul Blues
46	R & B
47	6/8 Gospel
48	Pop Groove
JAZZ	
49	Swing
50	Cool Jazz
51	Pop Swing
52	Swing Fox
53	Big Band
54	Big Band Meduim
55	Jazz Waltz
56	Ragtime
57	Dixeland
58	Quick Step
COUNTRY	
59	Country 1
60	Country 2
61	Pop Country
62	Country Rock
63	Country Folk
64	3/4 Country
65	Country Waltz
66	Country Shuffle
67	Country Boogie
68	Country Blues
69	Country Quick Step
70	Bluegrass
LATIN	
71	Bossa Nova 1
72	Bossa Nova 2
73	Rhumba
74	Pop Rhumba
75	Cha Cha
76	Pop Cha Cha
77	Tango
78	Jazz Samba
79	Reggae
80	Pop Reggae

TRADITIONAL	
81	March 1
82	March 2
83	German March
84	6/8 March
85	Polka
86	Pop Polka
87	Waltz
88	Slow Waltz
89	Vienna Waltz
90	Musette
PIANO	
91	8 Beat
92	Ballad
93	Boogie
94	Jazz
95	Swing
96	Jazz Waltz
97	Twist
98	March
99	6/8 March
100	Waltz

Appendix 3- Song List

01～14	**CLASSICAL**
01	Cannon
02	Thais Meditation
03	Old France
04	Minuet
05	Ode To Joy
06	Wiegenlied
07	"The Surprise " Symphony
08	Swan Lake
09	Spring From "The Four Seasons "
10	Habanera From "Carmen "
11	Joy To The World
12	Toy Symphony
13	Humoreske
14	Kuckuckswalzer
15～40	**FAVORITE**
15	Long, Long Ago
16	Old Folks At Home
17	Oh! Susanna
18	Jeannie With The Light Brown Hair
19	Bill Bailey Won't You Come Home
20	Annie Laurie
21	From The New World
22	The Yellow Rose Of Texas
23	Ave Maria
24	My Old Kentucky Home
25	Turkey In The Straw
26	Deck The Halls
27	Grandfather's Clock
28	America The Beautiful
29	The Sideway
30	The Entertainer
31	The Old Gray Mare
32	Aloha Oe
33	Solveig's Song
34	Camptown Races
35	Carry Me Back To Old Viginia
36	The Blue-Bells Of Scotland
37	O'Solo Mio
38	Jingle Bells
39	Battle Hymne Of The Republic
40	Silent Night
41～66	**FOLK**
41	Oronek
42	Aula Lee
43	House Of The Rising Son
44	Danny Boy
45	I've Been Working On The Railroad
46	In The Rain
47	She Wore A Yellow Ribbon
48	My Bonnie
49	Yankee Doodle
50	Red River Valley
51	Auld Lang Syne
52	When The Saints Go Marching In
53	Twinkle Twinkle Little Star
54	Happy Birthday To You
55	Little Brown Jug
56	Michael Row The Boat Ashore
57	Old King Cole
58	Jamaica Farewell
59	Тройка
60	Cielito Lindo
61	If You're Happy And You Know It, Clap Your Hands
62	American Patrol
63	When Johnny Comes Marching Home
64	Green Sleeves
65	Santa Lucia
66	Szla Dzieweczka
67～80	**KID**
67	Angels We Have Heard On High
68	Skip To My Lou
69	London Bridge Is Falling Down
70	Humpty Dumpty
71	Home On The Range
72	This Old Man
73	Butterfly
74	Ten Little Indians
75	Polly-Wolly-Doodle
76	Santa Claus Is Coming To Town
77	Sippin Cider Through A Straw
78	La Cucaracha
79	Home Sweet Home
80	Up On The House Top
81～85	**BALLROOM**
81	Examine one Gram of Dance Musical in The storehouse
82	Samba
83	Tango Of Cuba
84	Russian
85	Polka
86～100	**PIANO & KEYBOARD**
86	Four Little Swans
87	Did You Ever See a Lassie
88	Spring
89	Impromptu
90	Gavotte
91	Nocturne
92	Pizzicato Polka
93	Musical Moments
94	Reggae
95	All Kind Of My Everything
96	Valse No. 6 〞Petit Chien〞
97	Rondeau
98	Chrysanf
99	Invention a 2 Voix
100	Jesus，Saviour Pilot me

Appendix 4- Demo List

Number	Name
01	POP
02	CHA CHA

Appendix 5- Chord List

Chord Name/[Abbreviation]	Normal Voicing	Chord(C)	DISPLAY
Major [M]	1-3-5	C	C
Sixth [6]	1-(3)-5-6	C6	C6
Major seventh[M7]	1-3-(5)-7	CM7	CM7
Major add ninth [M(9)]	1-2-3-5	CM(9)	CM (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 major seventh [mM7]	1-b3-(5)-7	CmM7	CmM7
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 add thirteenth [7 (13)]	1-3-(5)-6-b7	C7(13)	C7 (13)
Suspended Fourth [sus4]	1-4-5	Csus4	Csus4

Appendix 6- MIDI List

Function		Transmitted	Recognized	Remarks
Basic	Default	1ch	ALL	
Channel	Changed	1-16ch	1-16ch	
	Default	X	3	
Mode	Messages	X	3	
	Altered	**********	X	
Note		18-114	0...127	
Number	True voice	**********	0...127	
Velocity :	Note on	O 9nH,V=1-127	O 9nH,V=1-127	
	Noteoff	X (9nH,V=0)	X (9nH,V=0; 8nH,V=0-127	
After	Keys	X	X	
Touch	Chs	X	X	
Pitch Bend		O	O	
Control	0	O	O	Bank Select
Change	1	X	O	Modulation
	5	X	O	Portamento Time
	6	O	O	Data Entry
	7	O	O	Volume
	10	X	O	Pan
	11	X	O	Expression
	64	O	O	Sustain Pedal
	65	X	O	Portamento ON/OFF
	66	X	O	Sostenuto Pedal
	67	X	O	Soft Pedal
	80	X	O	Reverb Program
	81	X	O	Chorus Program
	91	X	O	Reverb Level
	93	X	O	Chorus Level
	120	X	O	All Sound Off
	121	X	O	Reset All Controllers
	123	X	O	All Notes Off
Program		O	O	
Change :	true #	**********	0...127	
System Exclusive		X	O	
System	: Song Position	X	X	
Common	: Song Select	X	X	
	: Tune	X	X	
System	:Clock	X	X	
Real Time	:Commands	X *1	X *1	
Aux	:LOCAL ON/OFF	X	X	
	:All Notes Off	X	O	
Messages	:Active sense	X	O	
	:Reset	X	O	
Note:		*1 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stoped, an FCH message is transmitted. When an FAH message is received, accompaniment is started. When an FCH message is received, accompaniment is stoped.		

Mode 1: OMNI ON , POLY Mode 2 : OMNI ON , MONO O : YES
Mode 3: OMNI OFF , POLY Mode 4 : OMNI OFF , MONO X : NO