KAWAI
ELECTRONIC KEYBOARD
QX100

OWNER'S MANUAL

Table of Contents

KAWAI QX100 Owner's Manual

Thank you for your purchase of a KAWAI QX100 Personal Keyboard. This owner's manual contains valuable information that will help you make full use of this instrument's many capability. Read it carefully and keep it handy for future reference.

Have fun learning to play your QX100!

Important Safety Instructions

- Read Instructions – This Owner's Manual contains valuable information that will help you make full use of the instrument's many capabilities. All the safety and operating instructions should be read before the product is operated.

- Retain Instructions – The safety and operating instructions should be retained for future reference.

- Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.

- Follow Instructions – All operating instructions should be followed.

WARNINGS

- The instrument should not be operated with wet hands that could result in electric shock or other hazards.
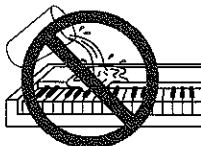
- Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product. The product should not be operated or stored near water or other moisture – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; near a swimming pool, etc.

- This product may be capable of producing sound levels that could cause permanent hearing loss when used in combination with other products like speakers or headphones. Do not operate for a long period of time at a high volume level, especially if you are using headphones or earphones. If you experience any hearing loss or ringing in the ears, you should consult a hearing specialist.
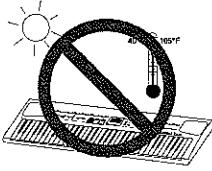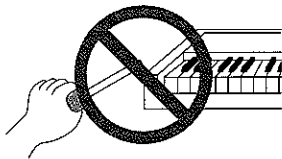
- Protect the product from direct sunlight, extremes in temperature (such as inside your car on a warm day) or humidity, dusty environment, or vibration (especially during transportation).

- The instrument should be kept away from hot, dry places (such as near a radiator or heater)

- Protect the instrument from physical shocks and impact.

- Always turn down the volume(s) of all instruments (such as guitar or keyboard) before connecting or disconnecting to the instrument.

- Accessories – Do not place this instrument on an unstable or slant cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Besides, the unit may malfunction. Use only with a cart, stand, tripod, bracket, or table recommended by KAWAI, or sold with the product.

Servicing

- Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage. Refer all servicing to qualified service personnel. Do not disassemble or attempt to modify the instrument.

- Damage Requiring Service – Unplug this product and AC adaptor from the wall outlet immediately and refer servicing to qualified service personnel under the following conditions:
  a) When the AC adaptor's cable or plug is damaged.
  b) If liquid has been spilled, or objects have been fallen into the product.
  c) If the product has been exposed to rain or water.
  d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by this manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  e) If the product has been dropped or damaged in any way.
  f) When the product or AC adaptor exhibit a distinct change in performance - this indicates a need for service.

- Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitution may result in fire, electric shock, or other hazards.

Power Supply	• Use only a Kawai AC adaptor or equivalent shipped with the instrument and connect it only to a power supply with a voltage within the limits stated on the ratings plate.
	• When the product and/or AC adaptor are left unattended and unused for long period of time, unplug it from the wall outlet to prevent damage to them due to lightning and power-line surges.
	• Power Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the product.
	• Do not connect to the same circuit as a heavy load or equipment that generates line noise.
Cleaning	• Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Clean the instrument with a soft cloth, a mild detergent, and lukewarm water. Never use harsh or abrasive cleansers or organic solvents.

Before Playing The QX100

Connecting the Power Supply

Your keyboard can use either your home AC power outlet or dry cell batteries as a power source.

To Insert Batteries	1. Turn the unit over and remove the battery cover.
	2. Insert six Size "C" dry cell batteries. Be sure they are aligned in the proper direction.
	3. Replace the battery cover.
NOTE	• As the batteries begin to run down, the volume of the keyboard will decrease and the sound quality will begin to change or deteriorate. Or the unit may begin to malfunction. At that time, you should replace all six batteries.
	• Do not mix battery type (or new batteries with old ones), as this may cause problems such as battery fluid leakage.
	• Remove the batteries when not using the keyboard for long periods of time.

To Use An AC Power Outlet

Connect a PS-123 or PS-102 adaptor (available separately) to the adaptor terminal on the rear panel of the keyboard. Then, connect the adaptor to a wall socket.

We recommend that you use a KAWAI AC adaptor with the QX100. If you decide to use a universal adaptor from another manufacturer, please be sure of the following.

1. The voltage selector should be set at 10 or 12 volts.
2. The polarity selector must be set to "negative" (−) polarity, otherwise the keyboard will not operate (or will run on batteries until the batteries are drained).
3. The adaptor must be rated at 0.5 Amp (A) or higher.

Connecting the Keyboard to an Audio Device

To enjoy listening to the sound of your QX100 through your amplified home stereo system or other external amplifier, purchase an adaptor plug at an electrical goods store or audio specialty shop.
Use the cord or adaptor plug to connect the keyboard's STEREO PHONES jack to the LINE IN or AUX IN jacks on your stereo amplifier or powered receiver.
Be sure you set your QX100 at a moderate volume level. High Volume output can damage your external amplifier or speakers.

Protective Plastic Covering On Front Panel

Your keyboard comes equipped with a thin plastic covering over the front panel designed to protect the panel from dust and scratches.
If you want to remove this covering, carefully use a fingernail to lift up one of the corners.
Then, slowly peel off the covering and discard it.

Music Rack

Your keyboard comes with a music rack and a song name board.
Put the music rack into the holes of the front panel, and then place the board which is pre-assembled with plastic holders onto the rack.
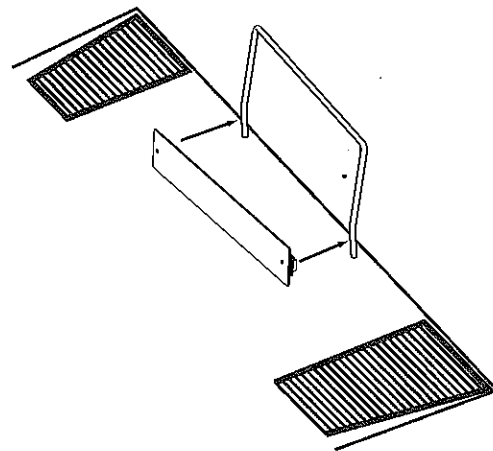
Overall Diagram and Explanation
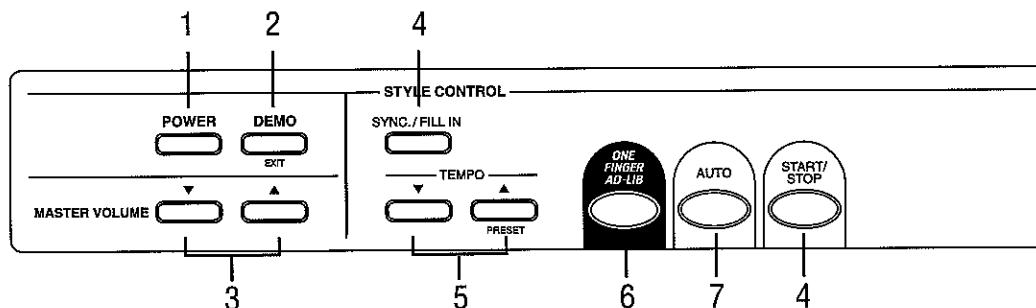
Operation Panel

(1) POWER button
The POWER button turns the keyboard's power on and off.

(2) DEMO button
Pressing this button starts to play the two built-in demo songs. (You can also select a demo song by pressing +1/-1 buttons.) Press it again at any time to stop the demo song.

(3) MASTER VOLUME buttons
Used to control overall volume of all notes played on the keyboard.

(4) Accompaniment Control buttons
Used to control the "FILL-INs", "ENDINGs", and "BASIC Patterns" of Auto-Accompaniment.
The "SYNC/FILL-IN" button lets you start your song at the exact moment you press a key in the lower part of the keyboard.

(5) TEMPO buttons
Used to control changes in Auto-Accompaniment tempo.

(6) ONE FINGER AD-LIB button
Used to activate ONE FINGER AD-LIB function which lets you play like a "pro" with the touch of a finger.

(7) AUTO button
Used to turn the Auto-Accompaniment on and off.

(8) SOUND button
Used when selecting sounds.

(9) STYLE button
Used when selecting from among the 50 Accompaniment Styles and 30 CONCERT MAGIC songs stored in the keyboard's memory.

(10) SELECTOR buttons
    a) Numeric buttons (Ten keys)
          Used to enter the numbers.
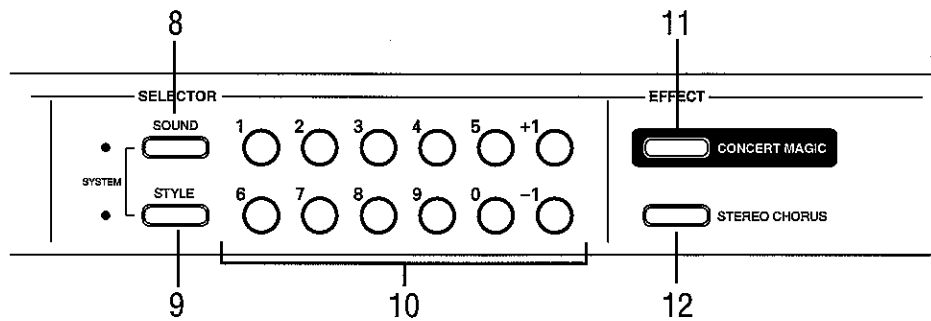   b) -1 / +1 buttons
          Used to increase or decrease the numbers by a value of 1.

(11) CONCERT MAGIC button
Used to turn the CONCERT MAGIC function (see page 10) on and off.

(12) STEREO CHORUS buttons
Used to add the STEREO CHORUS effect to the keyboard's sounds.

Rear Panel

(13) Pedal Jack
Used to connect an optional footswitch (model F-1, available separately) to the keyboard. When the footswitch is depressed, notes played on the keyboard will be heard continuously for as long as the footswitch is held down. It operates like a sustain pedal on a piano.

(14) STEREO PHONES Jack
When stereo headphones are connected to this jack, the sound from the speakers is cut off. This allows you to play the keyboard at night and at other times when you might be concerned about disturbing others.

(15) DC IN Jack
Used to connect a Power Adaptor (Kawai PS-123 or PS-102) available separately.
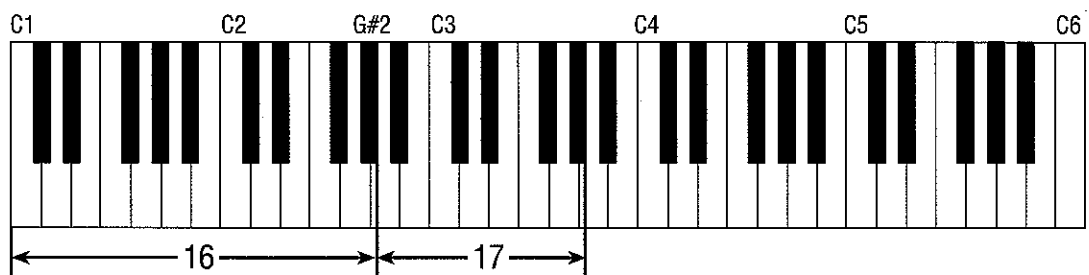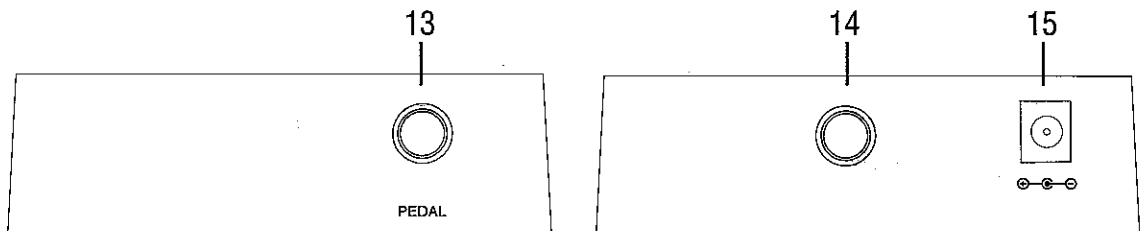
Keys

(16) Lower Keyboard (C1 - G#2)
Used to trigger chord forms when the Auto-Accompaniment function is selected.

(17) ONE FINGER AD-LIB Keys (A2-G#3)
Used to play ONE FINGER AD-LIB phrases when the ONE FINGER AD-LIB function is on.

Throughout this manual, the keys will be referred to in the following manner:
    C1 stands for "the first C" on the keyboard, counting from the left.
    B2 stands for "the second B" on the keyboard from the left.
The total range of your keyboard is C1 to C6.

Basic Operation

Selecting Sounds

Selecting Sounds

1. Press the POWER switch to turn the power "on".

2. Press one of the keys on the keyboard.
   You should hear the sound No. 01 (GRAND PIANO).

3. Control the volume of the sound with the MASTER VOLUME buttons.

4. Select a sound using the SELECTOR buttons.
   To enter the Sound number, there are 2 ways as below.

Press $^{0}\bigcirc + {}^{4}\bigcirc + {}^{2}\bigcirc$

or

Press $^{4}\bigcirc + {}^{2}\bigcirc$
and wait for a moment.

   (1) Use the Numeric keys (0-9) to enter three digits including "0" in rapid succession.
       EX 1: To enter No.9
       press 9. (or press 0-0-9 successively)
       EX 2: To enter No.42
       press 4 and 2 (or 0-4-2) successively.

   Note: Enter all the numbers in rapid succession, at least within 2 seconds. Otherwise the first one or two digits will be chosen in a few seconds.

   (2) Use -1 /+1 buttons to increase/decrease the numbers by a value of 1.

5. Play the keyboard.

Playing Rhythm Styles

Selecting Accompaniment Styles

Press [STYLE]

1. Press the STYLE button.
   The lamp next to the STYLE button will light.

2. Select an Accompaniment Style using the SELECTOR buttons.
   To enter the Style number, there are 2 ways as below.

Press $^{0}\bigcirc + {}^{2}\bigcirc + {}^{4}\bigcirc$

or

Press $^{2}\bigcirc + {}^{4}\bigcirc$
and wait for a moment.

   (1) Use the Numeric keys (0-9) to enter the number.
       EX 1: To enter No.9
       press 9. (or press 0-0-9 successively)
       EX 2: To enter No.24
       press 2 and 4 (or 0-2-4) successively.

       Enter all the numbers in rapid succession, at least within 2 seconds.

   (2) Use -1 /+1 buttons to increase/decrease the numbers by a value of 1.

Press (START/STOP)

3. To start the Style, press the START/STOP button.

Press   SYNC./FILL IN ⊂⊃

4. Press the "SYNC./FILL-IN" button to play a FILL-IN pattern.

5. To stop playing with the Ending, press the START/STOP button. To stop playing without the Ending, press the START/STOP button twice.

Using the SYNC Feature

Press   SYNC/FILL IN ⊂⊃

1. While the Accompaniment Style is off, press the SYNC/FILL-IN button.

2. Press a key on the Lower Keyboard. The Style will begin to play at the moment you press a key. The start of the Style will "synchronize" with your touch of the keyboard (thus, the abbreviation "SYNC").
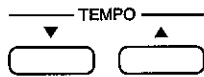
Changing Accompaniment Tempo

—— TEMPO ——
▼   ▲
⊂⊃ ⊂⊃

1. The UP button causes the tempo to increase. The DOWN button causes the tempo to decrease.

2. Pressing the TEMPO UP button within five seconds after selecting a new Style will change the tempo to a factory preset rate that suits the new Style.

Using Auto-Accompaniment

The QX100's Auto-Accompaniment ("automatic accompaniment") section is one of the most powerful found on any portable keyboard. With the Auto-Accompaniment, you can control the chord and bass parts with your left hand while playing the melody with your right hand.

1. Select a Style.

Press   AUTO ◯

2. Press AUTO button to turn Auto Accompaniment on.

Press   START/STOP ◯

3. Then, start the Style by pressing the START/STOP button. The rhythm and Auto-Accompaniment (Bass/Chord) will start to play.

4. Now press one or more of the keys on the Lower Keyboard. The Auto-Accompaniment chords will change as you press different keys.

See page 13 for a chart of these chords in the key of C.

Using ONE FINGER AD-LIB to play like a "pro"

ONE FINGER AD-LIB is an exclusive Kawai feature which allows anyone (at any level of musical ability) to sound like a "pro". With the touch of a finger, you can play hundreds of impressive ad-lib melodies with full auto-accompaniment and chord progressions. ONE FINGER AD-LIB will make your keyboard immediately fun and "playable" for every member of your family (even the non-players)! The ONE FINGER AD-LIB phrases are determined by the Accompaniment Style (or "Style") you select.
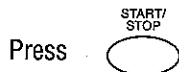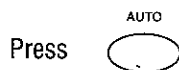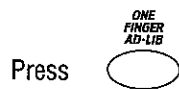
How does ONE FINGER AD-LIB work?

Press ONE FINGER AD-LIB

1. Use the STYLE button and the SELECTOR buttons to select a Style. Next, press the ONE FINGER AD-LIB button. You will hear a click sound.

2. Now, press and hold down one of the keys in the ONE FINGER AD-LIB section of the keyboard. By holding down a single key, you can play an entire ad-lib phrase! Try other ONE FINGER AD-LIB keys. Note that each key plays a different phrase and that some keys use different sounds than other keys.

Press AUTO

Press START/STOP

3. Adding Auto-Accompaniment
    Press the AUTO button to turn on the AUTO mode. Then, press the START/STOP button. The Style you selected will begin to play.
    Notice that the auto-accompaniment chords are changing automatically. The keyboard has been designed so that each Style is accompanied by an appropriate progression of chords that plays automatically.

4. Now, hold down one of the keys in the ONE FINGER AD-LIB section of keyboard. The ad-lib phrase will play. If you continue to hold the AD-LIB key down, you'll notice that the phrase changes automatically with the chord progression! Now hold down other AD-LIB keys and begin to enjoy all the musical fun that ONE FINGER AD-LIB has to offer.

5. To change the preset chord progression, play any chord on the Lower Keyboard. This will override the preset chord progression. Then, the ONE FINGER AD-LIB phrases will change to match your own chords.

Note: When you turn ONE FINGER AD-LIB "on", specific sound will automatically appear on the ONE FINGER AD-LIB phrases. These are pre-assigned at the factory. To select your won sounds, turn ONE FINGER AD-LIB "on" first and then select a sound. Your new sound will be assigned to all twelve ONE FINGER AD-LIB phrases.

Advanced Operation

Adding Effects

Your QX100 has a variety of effects which can add realism or excitement to your selected sound.

STEREO CHORUS

⬜ STEREO CHORUS

Pressing the STEREO CHORUS button adds a deep stereo richness to the currently selected sound.
Pressing the button a second time cancels the effect.

The STEREO CHORUS effect is not effective on the sound No. 100 (Drum Set).

HOLD (sustain)

The PEDAL jack allows you to connect an optional foot switch (KAWAI F-1, available separately) to the QX100.
Depressing the foot switch lengthens the duration of notes played on the keyboard. It operates like the sustain pedal on the piano.

"CONCERT MAGIC" Operation

The Concert Magic Feature allows you to listen to or perform 30 preprogrammed songs, even if you've never taken a piano lesson in your life.

PERFORMANCE mode

You can perform the selected song by pressing anywhere on the whole keyboard. The instrument will automatically play right notes step by step as you press a key. You can also listen to the preset song so you can learn how the song plays.

Press ⬜ CONCERT MAGIC

(1) Press CONCERT MAGIC button to enter the CONCERT MAGIC mode.

(2) Press STYLE button (to light the LED next to the button).

Press STYLE ⬜

(3) Use SELECTOR buttons to select an internal song of CONCERT MAGIC.

Press START/STOP ⬭

(4) Press START/STOP button to listen to the song. The selected song starts to play.

(5) Use TEMPO buttons to change the performance tempo.

(6) To change the tone color for Melody Part:
1: Press SOUND button.
2: Use SELECTOR buttons to select a sound for Melody.

(7) Press START/STOP button again to stop the playing.

(8) Press any key of the whole keyboard to perform the song by yourself.
Every time a key is pressed, the selected song will be played step by step, note by note.

(9) Press CONCERT MAGIC button again to quit the CONCERT MAGIC mode.

MELODY mode

CONCERT MAGIC songs are made of two parts – melody and accompaniment. You can mute the melody part so you can play it by yourself hearing the accompaniment only. It is a good method to practice playing the keyboard.
In addition, you can play the melody part with your right hand and performing only accompaniment part of the CONCERT MAGIC song with one finger of your left hand.

Press [ ] CONCERT MAGIC

(1) Press CONCERT MAGIC button to enter the CONCERT MAGIC mode.

(2) Press STYLE button (to light the LED next to the button).

Press STYLE [ ]

(3) Use SELECTOR buttons to select an internal song of CONCERT MAGIC.

Press AUTO ◯

(4) Press AUTO button to turn off the melody part.

Press START/ STOP ◯

(5) Press START/STOP button. The accompaniment part of the selected song starts to play.
Play the melody with the whole keyboard.

(6) Press START/STOP button again to stop the playing.

(7) Press any key of the LOWER keyboard with your left hand.
Every time a key is pressed, the accompaniment part of the selected song will be played step by step. Play the melody yourself on the UPPER keyboard at the same time.

(8) To change the tone color for Melody Part:
1: Press SOUND button.
2: Use SELECTOR buttons to select a sound for Melody.

NOTE:

(9) Press CONCERT MAGIC button again to quit the CONCERT MAGIC mode.

If you stop playing halfway, and leave it over 1 minute, the song will be reset to the start point.
To reset the song to the start point, press SYNC/FILL IN button.
When selecting another song during playing, the newly-selected song starts to play from the beginning.

Using The SYSTEM Functions

In this section, we will describe the keyboard's SYSTEM functions which deal with the overall control of the keyboard.
The SYSTEM functions are assigned the following "function numbers".

1. TUNING CONTROL (Pitch Adjustment)
2. TRANSPOSE (To change keys)
3. TOUCH RESPONSE ON/OFF
4. PEDAL FUNCTION SELECT *
5. CLICK ON/OFF
6. CONCERT MAGIC SETTINGS

The function setting marked with * will remain even after turning the keyboard's power off.

Navigating in SYSTEM Mode

1. With the Accompaniment stopped, simultaneously press the SOUND button and STYLE button to enter the SYSTEM mode. The LEDs next to the buttons will flash to show you are in SYSTEM mode.
2. Use the SELECTOR buttons to enter the number of your desired SYSTEM function (for example, if you want the TRANSPOSE function, you would press "2").
3. Change the value using +1/-1 buttons. As soon as you change value, the LEDs will light on to show that the keyboard has been set to the different status from the factory preset.
4. Press the DEMO button to leave the SYSTEM mode.

Follow this procedure to make changes to each SYSTEM function.

TUNING CONTROL

Adjusts the keyboard's pitch within a range of -08 to 07.
If you press the +1 button once, the pitch will raise slightly. If you press the -1 button instead, the pitch will drop slightly.

TRANSPOSE

Adjusts the keyboard's pitch by one full octave upward or downward (that is, from -12 half steps to +12 half steps).
If you press the +1 button, the pitch will raise by a half step. If you press the -1 button instead, the pitch will drop by a half step.

TOUCH RESPONSE ON/OFF

Lets you select from two different "touch" settings which are numbered as follows:
ON: For a WIDE dynamic range, providing greater contrast between loud and soft playing.
Off: Touch Response is deactivated. Each key will play at the same volume level no matter how hard you strike the key.

| PEDAL FUNCTION SELECT	You can change the function to be assigned for the foot pedal connected to the PEDAL jack of QX100. FIL: Sync/Fill in function (same as SYNC/FILL IN button on the front panel). HOL: Hold pedal function
CLICK ON/OFF	You will hear a click sound whenever you press buttons (except for the START/STOP, DEMO and POWER button). You can turn off the click sound if necessary. If you press the -1 button, the click sound will not be heard after you leave the SYSTEM mode. To restore the click sound, enter SYSTEM mode again, and select "5" with SELECTOR, and press +1 button.
CONCERT MAGIC SETTINGS	You can set the method of play in CONCERT MAGIC. STACCATO: Concert Magic requires you to play smoothly when playing to blend each note into the next. Not doing this will provide a broken or "staccato" feel to the performance. LEGATO: With Legato, each note will blend into the next one, providing a smooth "legato" feel. "LEGATO" is the factory preset.

Appendix

Chord Form List
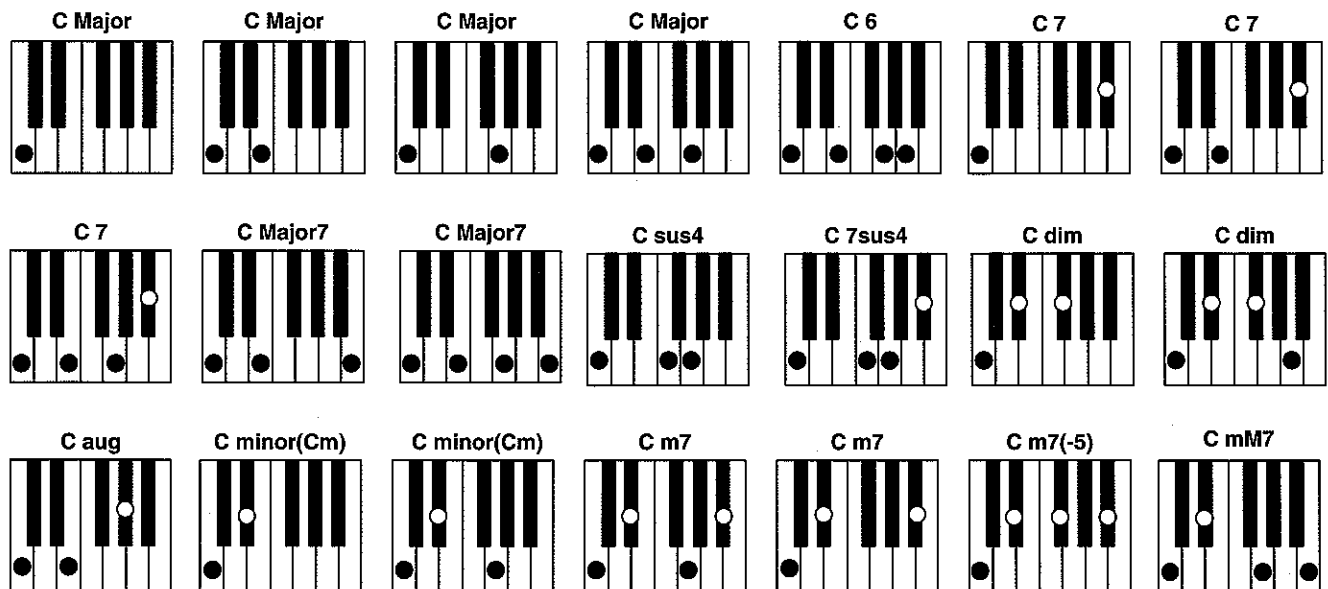
Drum Sound List (Key Numbers)

Key No.	Instruments		Key No.	Instruments
C1	BASS DRUM 1		G3	HI AGOGO
C#1	SIDE STICK		G#3	LO AGOGO
D1	A. SNARE		A3	CABASA
D#1	COWBELL		A#3	CABASA
E1	E. SNARE		B3	DAMMY
F1	LOW FLOOR TOM		C4	DAMMY
F#1	H.H. CLOSED		C#4	CABASA
G1	HIGH FLOOR TOM		D4	CABASA
G#1	H.H. PEDAL		D#4	CLAVES
A1	LOW TOM		E4	CLAVES
A#1	H.H. OPEN		F4	CLAVES
B1	LOW MID TOM		F#4	MUTE HI CONGA
C2	HI MID TOM		G4	LO CONGA
C#2	CRASH		G#4	CLAVES
D2	HIGH TOM		A4	DAMMY
D#2	RIDE CYMBAL 1		A#4	BASS DRUM 1
E2	CHINA CYMBAL		B4	SIDE STICK
F2	RIDE CYMBAL		C5	A. SNARE
F#2	CABASA		C#5	COWBELL
G2	SPLASH CYMBAL		D5	E. SNARE
G#2	COWBELL		D#5	LOW FLOOR TOM
A2	CRASH CYMBAL 2		E5	H.H. CLOSED
A#2	DAMMY		F5	HIGH FLOOR TOM
B2	RIDE CYMBAL 2		F#5	H.H. PEDAL
C3	HI BONGO		G5	LOW TOM
C#3	LO BONGO		G#5	H.H. OPEN
D3	MUTE HIGH CONGA		A5	LOW MID TOM
D#3	OPEN HI CONGA		A#5	HI MID TOM
E3	LO CONGA		B5	CRASH
F3	HI BONGO		C6	HIGH TOM
F#3	LOW BONGO			

Specifications

Keyboard	61Keys (Full Size / Touch Response)
Sounds	100
Styles	50
Polyphony	Max. 28 Notes
Effect	Stereo Chorus
Style Control	Tempo, Start/Stop, Sync/Fill In
Others	Concert Magic Function (30 Songs), One Finger Ad-Lib, Auto On/Off, Demo (2 Songs), Tuning, Transpose, Touch Response Type Select
Jacks	DC In, Headphone, Pedal
Speaker	12cm x 2
Power	10-12V, 0.5A (6 "C" Batteries or AC Adaptor)
Dimensions	35.9" x 12.1" x 3.8", 91.2 cm x 30.7 cm x 9.6 cm
Weight	9.7 lbs, 4.4 kg
Accessories	Music Rack/Owner's Manual

* Specifications subject to change without notice.

FCC Information

Note: 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.

Canadian Radio Interference Regulations

This instrument has been certified to comply with the limits for a class B digital apparatus, pursuant to the Radio Interference Regulations, C.R.C., c. 1374.

KAWAI