KAWAI

Digital Piano CN3

featuring
Alfred's Basic Piano Library

Owner's Manual

Important Safety Instructions

SAVE THESE INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS





TO REDUCE THE RISK OF OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the leterature accompanying the

Examples of Picture Symbols



denotes that care should be taken.

The example instructs the user to take care not to allow fingers to be trapped.



denotes a prohibited operation.

The example instructs that disassembly of the product is prohibited.



denotes an operation that should be carried out.

The example instructs the user to remove the power cord plug from the AC outlet.

Read all the instructions before using the product.

WARNING - When using electric products, basic precautions should always be followed, including the following.



WARNING Indicates a potential hazard that could result in death or serious injury if the product is handled incorrectly.

The product should be connected to an AC outlet of the specified voltage.







 If you are going to use an AC power cord, make sure that its has the correct plug shape and conforms to the specified power voltage.

Doing so may cause the chair to fall over or your

Failure to do so may result in fire.

Do not insert or disconnect the power cord plug with wet hands.



Doing so may cause electric shock.

The chair must be used properly (it must be used only when playing the product).

- Do not play with it or stand on it.
- Only one person is allowed to sit on it.
- Do not sit on it when opening the lid.
- Re-tighten the bolts occasionally.

When using the headphones, do not listen for long periods of time at high volume levels.



Doing so may result in hearing problems.

fingers to be trapped, resulting in injury.

Do not lean against the keyboard.



Doing so may cause the product to fall over, resulting in injury.

Do not disassemble, repair or modify the product.



Doing so may result in product breakdown, electric shock or short-circuit.

When disconnecting the AC power cord's plug, always hold the plug and pull it to remove it.



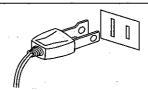
 Pulling the AC power cord itself may damage the cord, causing a fire, electric shock or short-circuit.

The product is not completely disconnected from the power supply even when the power switch is turned off. If the product will not be used for a long time, unplug the AC power cord from the AC outlet.



- Failure to do so may cause fire in case of lightning.
- Failure to do so may over-heat the product. resulting in fire.

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.





CAUTION Indicates a potential hazard that could result in injury or damage to the product or other

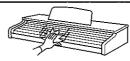
Do not use the product in the following areas.

- Areas, such as those near windows, where the product is exposed to direct sunlight
- Extremely hot areas, such as near a heater
- Extremely cold areas, such as outside
 Extremely humid areas
- Areas where a large amount of sand or dust is present
- Areas where the product is exposed to excessive vibrations

Using the product in such areas may result in product breakdown.

Use the product only in moderate climates (not in tropical climates).

When you close the keyboard cover, close it gently.



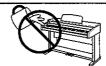
Closing it roughly may trap your fingers, resulting in injury.

Before connecting cords, make sure that the power to this product and other devices is turned OFF.



Failure to do so may cause breakdown of this product and other devices.

Take care not to allow any foreign matter to enter the product.



Entry of water, needles or hair pins may result in breakdown or short-circuit.

The product shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the product.

Do not drag the product on the floor. Take care not to drop the product.



Please lift up the product when moving it. Please note that the product is heavy and must be carried by more than two persons. Dropping the product may result in breakdown.

Do not place the product near electrical appliances such as TVs and radios.



- Doing so may cause the product to generate
- If the product generates noise, move the product sufficiently away from the electrical appliance or connect it to another AC outlet.

When connecting the AC power cord and other cords, take care not to get them tangled.



Failure to do so may damage them, resulting in fire, electric shock or short-circuit.

Do not wipe the product with benzene or thinner.



- Doing so may result in discoloration or deformation of the product.
- When cleaning the product, put a soft cloth in lukewarm water, squeeze it well, then wipe the product.

Do not stand on the product or exert excessive force.



 Doing so may cause the product to become deformed or fall over, resulting in breakdown or injury.

The product should be located so that its location or position does not interfere with its proper ventilation. Ensure a minimum distance of 5cm around the product for sufficient ventilation. Ensure that the ventilation is not impeded by covering the ventilation openings with items, such as newspaper, table-cloths, curtains, etc.

Do not place naked flame sources, such as lighted candles on the product.

This product should be used only with the stand that is provided by the manufacturer.

The product should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the product.
- The product has been exposed to rain.
- The product does not appear to operate normally or exhibits a marked change in performance.
- The product has been dropped, or the enclosure damaged.

Notes on Repair

Should an abnormality occur in the product, immediately turn the power OFF, disconnect the power cord plug, and then contact the shop from which the product was purchased.

CAUTION:

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION:

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Instruction for AC power cord (U.K.)

Do not plug either terminal of the power cord to the ground of the AC outlet on the wall.

FCC Information

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.

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 different electrical circuit from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Canadian Radio Interference Regulations

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

THANK YOU FOR PURCHASING A KAWAI DIGITAL PIANO!

The Kawai digital piano is a revolutionary new keyboard instrument that combines the latest in electronic advances with traditional craftsmanship inherited from Kawai's many years of experience in building fine pianos. Its keyboard provides the touch response and full dynamic range required for a superb performance on the piano, harpsichord, organ, and other instruments. In addition, the CN piano is equipped with reverb and a digital effect processor for an even fuller sound. Industry-Standard MIDI (Musical Instrument Digital Interface) jacks are included which allow you to play other electronic instruments at the same time—opening a whole new world of musical possibilities.

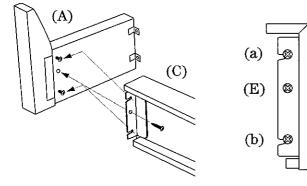
This Owner's Manual contains valuable information that will help you make full use of this instrument's many capabilities. Please read all sections carefully and keep this manual handy for further reference.

READ ME FIRST

Before beginning the assembly of your CN3 read and become familiar with the assembly instructions that follow. Then, carefully unpack the piano and check your unit against the parts list.

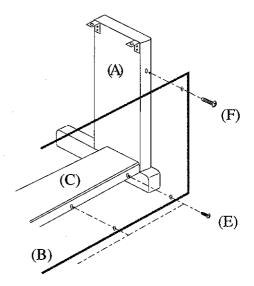
PARTS PROVIDED

Side Panel (A)	$2 \mathrm{pcs}$.	M6 x 25	ø4 x 16	ø4 x 25	Adjuster	Cord Clamp
Back Board (B)	1 pc.	MO X 2.5	Ø T X 10	ν-ν-	Adjubioi	cord clamp
Pedal Board (C)	1 pc.		Λ .		А	
Screw (D) (M6 x 25)	$4 \mathrm{pcs}$.	目				. ~
Screw (E) (ø4 x 16)	$6\mathrm{pcs}.$					
Screw (F) (ø4 x 25)	$2 \mathrm{pcs}$.			•		
Adjuster (G)	1 pc.	(D)	(IE)	(III)	((1)	an.
Cord Clamp (H)	1 pc.	(D)	(E)	(F)	(G)	(H)
Headphone Hook	1 pc.					



- 1. Insert the Adjuster (G) on the Pedal Unit.
- **2.** Until the pedal cable on the bottom of the Pedal Board (C).
- 3. Slide the metal bracket located at the end of Pedal Board (C) on to screws (a) and (b) of Side Panel (A). Install tighten screw (E) then tighten screws (a) and (b). Repeat this procedure on the other end of the Pedal Board, then raise the completed stand assembly.

4. Fasten Side Panel (A) and Back Panel (B) with two screws (F). Then fix Back Panel (B) to Pedal Board (C) with four screws (E).



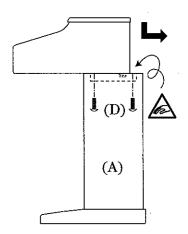
CAUTION:

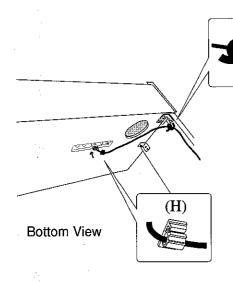
To prevent personal injury, do not handle the main unit from the ends.

- 5. The next step requires one person on each end of the main unit. Grasp the unit with both hands, one under the front, the other under the rear (remember, not the end) and carefully center the main unit on top of the stand so that the hook brackets located on the bottom rear of the main unit are inside the stand side panels (A) and approximately one-third of the rear, top edge of the side panels are exposed. (See the illustration to the right)
- **6.** Maintaining a firm grasp under the front of the main, unit slide it toward the rear of the stand until the hook brackets engage the brackets at the rear top of the side panels (A). This hook arrangement is design to prevent the main unit from tilting forward while the screws are installed. Keep one hand under the front of the main unit, push down on the front to be certain that hooks are properly engaged.
- 7. Fasten the main unit and the stand with four screws (D).

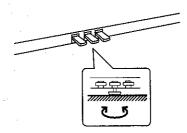


Be sure to secure the main unit to the stand with the screws. If you fail to do so, the unit could fall from the stand causing damage or personal injury.





8. Insert the pedal connection cord that comes from Pedal Board (C) into the piano's pedal jack and fasten with cord clamps.



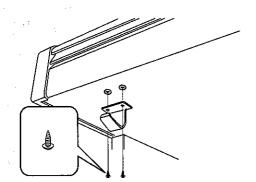
9. Turn the adjuster (installed on the bottom of the Pedal Unit) down until it makes firm contact with the floor. If the floor is carpeted, place a spiked furniture cup under the adjuster so that it makes firm contact with the carpet backing. Press any pedal with your foot. If the pedal rail flexes, lower the adjuster until flexing is minimized.

CAUTION:

Before moving your piano, turn the adjuster up so that it clears the floor.

ATTACHING THE HEADPHONE HOOK (OPTION)

1. Fix the headphone hook to the bottom of the piano with two screws packed in the same plastic bag.



1. Quick Start	p. 6
	1.1 Setting Up the Piano 6 1.2 Power Switch 6 1.3 Volume Slider 6 1.4 Headphones 6 1.5 Demo Songs 6 1.6 Playing the Piano 7 1.7 Pedals 7 1.8 Playing with More Sounds 8
2. Advanced Pla	aying p. 9
	2.1 Value Buttons 9 2.2 Dual 9 2.3 Split 10 2.4 Balance Slider 10 2.5 Effects/Reverb 10 2.6 Metronome 12
3. Recorder	p. 14
	BASICS OF THE RECORDER 14 3.1 RECORDING (REC BUTTON) 15 3.2 PLAYING BACK A SONG (PLAY/STOP BUTTON) 17 3.3 Erasing A Song 18
4. Lesson Func	tion p. 19
	4.1 Selecting a Book/Song
5. Playing with	Concert Magic p. 21
	5.1 Selecting a Song 21 5.2 Listening to the Song 21 5.3 Performing a Song 22 5.4 Part Volume Balance for Concert Magic 22 5.5 Concert Magic Song Arrangement Types 22 5.6 Steady Beat 24 5.7 Concert Magic Song Demo 24 5.8 Adjusting the Playback Speed for the Concert Magic Songs 25

6. Function Butte	ons p. 24
	6.1 Selecting the Touch Sensitivity (TOUCH Button) 26 6.2 Transposing the Piano (TRANSPOSE Button) 27 6.3 Other Functions (TOUCH & TRANSPOSE Buttons) 28 1. Tuning 28 2. Temperament 29 3. MIDI Channel 31 4. Transmit Program Change On/Off 31 5. Local Control On/Off 31 6. Multi-Timbral On/Off 32 7. Channel Mute 32 8. Sending Program Change Numbers 33 9. Lower Octave Shift 33 10. Lower Pedal On/Off 34
7. Using MIDI	p. 35
4.	MIDI Examples
8. Jacks	p. 36
	LINE OUTJacks 36 LINE IN Jacks 36 MIDI Jacks 36 PEDAL Jack 36 HEADPHONE Jacks 36
9. Appendices	p. 37
	PROGRAM CHANGE NUMBER MAPPING 37 LESSON SONG LIST 38 CONCERT MAGIC SONG LIST 39 FRONT PANEL 40 SOUND DEMO SONG LIST 40 SPECIFICATIONS 41 MIDI Exclusive Data Format 42 MIDI Implementation Chart 43

1.1 SETTING UP THE PIANO

The first thing you'll need to do before playing the piano is to set up the instrument.

ASSEMBLING THE STAND

First, you need to assemble the stand unit. Assemble the stand following the instructions at the beginning of this manual.

SUPPLYING AC POWER

The CN piano is equipped with stereo speakers and an amplifier. You do not need any other equipment to play your piano. You can enjoy the CN piano wherever AC power is available. Simply connect the power cable that comes with the CN piano to an AC outlet.

Connect the AC power cable to the piano's power jack and the other end of the cable to the AC outlet on the wall.

1.2 Power Switch



Press this button to turn on the power. Pressing it again will turn off the power.

Pressing this button while holding down the REC and PLAY/STOP buttons will erase all the songs currently stored in the Recorder. (See page 18.)

1.3 VOLUME SLIDER



This slider controls the master volume level of the piano's sound.

Move this slider to the right to increase the volume and move to the left to decrease the volume.

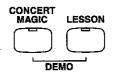
This slider also controls the headphone's volume and the LINE output level of the piano's sound.

1.4 HEADPHONES

For private performances you may want to use the headphones. The speakers will be turned off automatically when the headphones are plugged in, and the CN piano will only be heard through the headphones. The CN piano has two headphones jacks.

1.5 Demo Songs

The CN3 has 25 built-in sound demo songs. Each of the demo songs presents a musical piece to introduce the different preset sounds.



Press the CONCERT MAGIC and LESSON buttons simultaneously and the demo song for the Piano 1 category will start. After the Piano 1 demo songs are finished playing, the demo songs for another sound category will be selected at random.

If you would like to listen to the demos for a particular category, just press the desired SOUND SELECT button while the demo is playing. When you press the button, the demo will play the demo songs for the newly selected category. Then the demo songs for another category will be selected at random. See page 40 for the list of sound demo songs.

1.6 PLAYING THE PIANO



Turning on the power.

You will find the POWER SWITCH at the right end of the front panel. Press this button to turn on the power. Pressing it again will turn off the power.



Adjust the volume level.

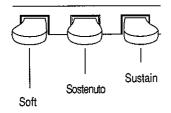
The VOLUME SLIDER controls the volume level of the speakers and the headphones. Use this slider to set the volume to a comfortable listening level.

Now try playing the keyboard.

You will hear the CN's main piano sound.

The CN piano responds just like a real acoustic piano when you play it. It produces a louder sound when you play hard and a softer sound when you play soft. The volume level changes in relation to how fast the keys are pressed. This system is called "touch sensitivity" on an electronic musical instrument. The initial touch sensitivity setting has been adjusted to the standard of an acoustic piano. You can however, select a different type of touch sensitivity on the CN piano if you are not comfortable with the standard setting. For more detail, please read "6.1 Selecting the Touch Sensitivity (TOUCH Button)" on page 26.

1.7 PEDALS



The CN piano has three pedals—just like a grand piano. They are Sustain, Soft and Sostenuto.

7

1.8 PLAYING WITH MORE SOUNDS

You have already heard the CN's main piano sound. The CN3 has a total of 27 sounds, not only different types of piano sounds but different instruments as well.

The different instrument sounds built into CN piano are called "preset sounds".

All of the preset sounds have been created through advanced digital sampling technology achieving as natural and realistic sound as possible. Let's try some of the preset sounds.

SELECTING ANOTHER PRESET SOUND

Press the SOUND SELECT button under the name of the instrument you would like to listen to. When the button is pressed, the LED indicator will be turned on to indicate that this sound is selected.

PIANO 1	PIANO 2	ELECTRIC PIANO	DRAWBAR	CHURCH ORGAN	HARPSI& MALLETS	STRINGS	CHOIR& PAD	BASS
song 1 -	— 2 —	— з					part 1 -	— 2

The SOUND SELECT buttons are assigned with three preset sounds to select. To select the other sounds, press the button repeatedly.

Sound variation number 1



When a SOUND SELECT button is pressed, the variation number is briefly shown in the display. Pressing the same SOUND SELECT button again will select the next variation sound assigned to the SOUND SELECT button.



You can also select any preset sounds by using the VALUE buttons.

2. Advanced Playing

2.1 VALUE BUTTONS

These two buttons are used to change the value for certain functions.

VALUE

First select the function or option you would like to change the value for by pressing the appropriate button(s), then use the VALUE buttons to change the value. " \blacktriangle " button increases the value and " \blacktriangledown " decreases the value.

These buttons can also be used to select the various sounds. You can select all of the preset sounds assigned to the nine SOUND SELECT buttons.

However, Sounds cannot be selected by using the VALUE buttons when you are in DUAL or SPLIT mode.

2.2 DUAL

Another feature of the CN piano is the ability to layer two preset sounds together to create a more complex sound. For example, piano layered with strings, electric piano with choir sound, and so on.

Sound variation number 1 and 3 are layered.



To layer two sounds, select the first sound and then, while holding down that SOUND SELECT button, select the second sound by pressing another SOUND SELECT button. The LED indicators for each will be turned on to indicate the two sounds you have chosen. The display briefly shows the combination of the selected sound variation numbers.

If you want to layer two sounds assigned to the same SOUND SELECT button, while pressing the desired SOUND SELECT button use the VALUE buttons to select your desired layered sound.

ABOUT POLYPHONY

The CN piano is capable of playing up to 96 notes simultaneously (96-note polyphony). When playing in dual mode, or when playing the stereo piano sound, the polyphony will be reduced by half since the piano has to produce two sounds for each note.

ADVANCED PLAYING 9

2.3 SPLIT

SELECTING SPLIT SOUNDS

The split function divides the keyboard into two sections—upper and lower—and lets you play each part with a different sound.



Variation 2 for lower and 1 for upper.



First press the desired SOUND SELECT button to select the upper sound. Then, while holding down the SPLIT button, press the desired SOUND SELECT button to select the lower sound. The LED indicator for the upper sound will be turned on and the LED for the lower sound will start flashing. The display shows the combination of the selected sound variation numbers while the SPLIT button is pressed. The number on the left is for lower sound and the number on the right is for upper sound.

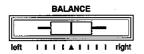
CHANGING THE SPLIT POINT

The default split point is set between B2 and C3. This point can be moved to anywhere on the keyboard.

Press the desired key on the keyboard while holding down the SPLIT button.

The key you pressed becomes the lowermost note for the upper section.

2.4 BALANCE SLIDER



You can adjust the volume balance between the two sounds in Dual or Split mode. Use the BALANCE slider to adjust the balance. Move the slider to the right to increase the volume of the rightmost sound (in dual mode) or upper sound (in split mode) and decrease the volume of the leftmost sound (in dual mode) or lower sound (in split mode). The balance changes in the opposite way when the slider is moved to the left.

2.5 EFFECTS/REVERB

You might have noticed that when you select some of the preset sounds, the LED indicator for the EFFECTS or the REVERB is turned on. The reason for this is some of the preset sounds are set up with an effect on as their initial setting.

Adding an effect to the sound enhances tonal quality and improves acoustical realism. The CN piano is provided with two separate groups of effects. The first is reverb and the second contains chorus, delay, tremolo and rotary speaker.

REVERB

REVERB

Reverb adds reverberation to the sound, simulating the acoustic environment of a recital room, stage, or concert hall. There are five types of reverb available. They are Room 1&2, Stage, and Hall 1&2. (listed in order of reverberation amount).

CHORUS



Chorus is an effect that simulates the rich character of a vocal choir or string ensemble, by layering a slightly detuned version of the sound over the original to enrich it.

DELAY

Delay is an effect that adds echoes to the sound. There are three types of delay available (delay 1 - 3), each of which has a different length of delay between the echoes.

TREMOLO

This is a vibrato type effect.

ROTARY

This effect simulates the sound of the Rotary Speaker cabinet commonly used with electronic organs. Rotary 1 is normal rotary and Rotary 2 is with distortion effect.

The soft pedal is used to change the speed of the rotor between SLOW and FAST.

TO ADD REVERB

Press the REVERB button. The LED indicator will be turned on to indicate that reverb is in use. Press and hold the REVERB button and the currently selected reverb type will be shown in the display.











Room 1

Room 2

Stage

Hall 1

Hall 2

To change the reverb type, use the VALUE buttons while holding down the REVERB button.

TO ADD OTHER EFFECTS

Press the EFFECTS button. The LED indicator will be turned on to indicate that the effect is in use. Press and hold the EFFECTS button and the currently selected effect will be shown in the display.

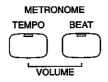


To change the effect type, use the VALUE buttons while holding down the EFFECTS button.

To turn off the reverb or effects, press the REVERB or EFFECTS button again.

2.6 METRONOME

Rhythm is one of the most important elements when learning music. It is important to practice playing the piano at the correct tempo and with a steady rhythm. The CN piano's metronome is a tool that helps you to achieve this by providing a steady beat for you play along with.



STARTING THE METRONOME

Press the TEMPO button. You will see the LED indicator turn on and hear the metronome begin counting with a steady beat. The display shows the tempo in beats per minute.



To change the tempo, use the VALUE buttons to increase or decrease the tempo within the range of 30 - 300 beats per minute. (60-600 BPM with eighth note rhythms).

To stop the metronome, press the TEMPO button again.

CHANGING THE TIME SIGNATURE

You probably noticed that there are two types of clicks and the louder one comes every fourth beat. The metronome is capable of giving you a down beat to indicate the beginning of the measure. You are now hearing a 4-beat or 4/4 time signature.

You can select a different time signature, if you want to. There are seven different time signatures available on the CN piano—1/4, 2/4, 3/4, 4/4, 5/4, 3/8 and 6/8.

4-4

To change the time signature, use the BEAT button.

Press the BEAT button. You will see the LED indicator turn on and hear the metronome begin counting. The display shows the time signature.

Use the VALUE buttons to select your desired time signature. You will see the time signature currently selected in the display.

To stop the metronome, press the BEAT button again.

You can use either the TEMPO or BEAT button to turn the metronome on and off. Choose the appropriate button depending on whether you're adjusting the tempo or changing the time signature.

ADJUSTING THE METRONOME VOLUME

The volume level of metronome can be adjusted to any level you like independent of the main volume.



Press the TEMPO and BEAT buttons simultaneously. The display shows the volume level of the metronome in numbers from 1 (soft) to 10 (loud). The factory preset is 5.

Use the VALUE buttons to change value.

13

The CN piano's recorder records your playing much like a tape recorder, and it is just as easy to use. The CN piano records a song as digital data instead of audio data and stores the song inside the instrument. Because the song is stored as digital information you can modify the song when you play it back. You can, for example, adjust the tempo without changing the pitch or use a different effect setting from one you have recorded. Once you understand the recorder, you will find it to be a useful tool for both practicing and playing the piano.

Basics of the Recorder

Let's take a brief look at the recorders features.

TWO-TRACK THREE-SONG RECORDER

The CN piano's recorder is a **2-track 3-song recorder**. This means you can record up to three different songs, store them in memory, and play them back as you like.

Each song has two separate tracks called "Parts" that can be recorded separately. This lets you record for example, the left hand part first on one track, then record the right hand part next on the other track while listening to the first track.

When you record or play back a song, you can select which part (track) of which song you are going to record or play back. When you are recording, selecting the same part again to record will erase any previous recordings on that part. Because of this it's important to remember; when recording both parts separately, after recording the first part be sure to select the second part to record, otherwise you will end up recording over the first part of the song.

RECORDED INFORMATION

The CN piano records the following:

Note information Sound selection

Pedal movements Balance settings

Set the dual/split balance as desired before you start recording. Balance settings made before you start recording will be used by the recorder. Any changes made during the recording will be ignored by the recorder.

Transpose.....

When you record in a different key using the transpose function, the CN piano will record the actual transposed notes you hear, not the notes as you play with the keyboard.

KAWAI DIGITAL PIANO CN3

RECORDING CAPACITY

The total recording capacity is about 15,000 notes. Pressing any buttons or pedals is counted as one note.

When the recorder reaches it's maximum capacity, the CN piano will stop recording at that point.

RECORDER AND METRONOME

When playing back a song with the metronome turned on, the metronome always restarts with the down beat.

3.1 RECORDING (REC BUTTON)

The REC button is used for recording.



Press the REC button when you are ready to record. The LED indicator will start flashing telling you that the piano is ready to record.

Now play some music on the piano. The recorder will automatically start recording with the first note you play.

Press the PLAY/STOP button when you are finished recording. The piano will stop recording and save your song to memory.

Saving to memory may take a few moments and during this time the piano will not perform any other operations.

You can start recording by pressing the PLAY/STOP button instead of pressing a key. In this way, you can insert a blank bar at the beginning of the song.

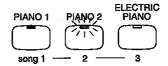
If you make a mistake, you can record your piece again. Just repeat the same procedure. The second recording will completely erase the first one.

RECORDING ANOTHER SONG

The CN piano is capable of recording and storing up to three different songs. Let's try recording a second song.

If you followed the procedure in the previous section you have already recorded Song 1, so now let's record Song 2.

To select the song number, use the SOUND SELECT buttons with the song numbers printed under them—PIANO 1, PIANO 2 and ELECTRIC PIANO. Press the PIANO 2 button to select Song 2 while holding down the REC button. The LED indicator of PIANO 2 will begin to flash when the REC button is pressed.



When you are ready to record, just start playing the keyboard.

The CN piano will start recording automatically with the first note you play.

Press the PLAY/STOP button when you are finished recording.

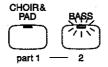
RECORDING A SECOND PART

You can record a second part in the second track (part) of the same song. After recording the first part, select the other track and record your second part.

While holding down the REC button, press the ELECTRIC PIANO button to select Song 3.

Record the first part just the same as in the previous sections and press the PLAY/STOP button when you're finished recording.

Now press and hold the REC button again and press the BASS button to select Part 2 to record.



If you want to start recording the second part from the beginning of the song, **just play the keyboard**. You will hear the first part playing back while you record the second part.

If you would like to play back the first part and then start recording the second part from a certain point later in the song, press the PLAY/STOP button instead of playing the keyboard to start playback of the first part and then begin recording the second part from any point you like.

When you are finished recording, press the PLAY/STOP button again.

STATUS OF SONG AND PART

You have probably noticed that some of the LED indicators are flashing, some are turned on, and some are turned off. The LED indicates the status of recording and play back as shown below.

The LED that is on indicates that the song or part has already been recorded.

The flashing LED indicates that the song or part is selected to record or play back.

The LED that is off indicates that the song or part is empty.

If you have recorded more than one song, you can check the song status, by pressing the REC or PLAY/STOP button.

3.2 PLAYING BACK A SONG (PLAY/STOP BUTTON)

The PLAY/STOP button is used to select a song and part to play, and to start and stop play back of the recorded songs.

RECORDER Press the
PLAY/STOP REC
Pross the

Press the PLAY/STOP button and the recorded song will start playing.

Press the PLAY/STOP button again to stop play back.

If you would like to listen to a different song, select your desired song number using the SOUND SELECT buttons while holding down the PLAY/STOP button and then release the buttons to start play back. The LED indicator for the selected song will flash when holding down the PLAY/STOP button.

PLAYING BACK THE PARTS SEPARATELY

When you select a song recorded with two parts, you can play back the parts separately.

Hold down the PLAY/STOP button and look at the Part buttons. The LED indicators for both parts will be on, indicating that you have successfully recorded two tracks. Release the PLAY/STOP button to listen to what you have recorded. You should hear both parts.

To play back an individual part, use the Part buttons while holding down the PLAY/STOP button to turn on/off each part. If the LED indicator is on, that part will play. If the LED indicator is off, that part will not play.

USING THE PLAY/STOP BUTTONTO START RECORDING

The PLAY/STOP button can also be used to start recording. In this way, you can insert a blank bar at the beginning of the song.

Press the REC button to enable the piano to record first, then press the PLAY/STOP button. On pressing the PLAY/STOP button, the CN piano starts recording regardless of whether you press a key or not.

3.3 Erasing a Song

This function allows you to erase any song you do not want to listen to.

RECORDER PLAY/STOP REC

To erase a specific song and part, **first hold down both the REC and PLAY/STOP buttons.** The LED indicators will display which songs have been recorded.

Select the desired song to erase by pressing the appropriate SOUND SELECT button while continuing to hold down both the REC and the PLAY/STOP buttons. The LED indicator of the selected song will start flashing.

Press the Part button you want to erase and turn the LED indicator off. The part will be erased. When both parts for a song are erased, the song becomes empty.

ERASING ALL THE SONGS

To erase all the songs at once, first turn off the power and then turn it on again while holding down both the REC and PLAY/STOP buttons.

4. Lesson Function

The CN3's Lesson function helps you practice the piano with the popular Alfred's Basic Piano Library, lesson books level 1A and 1B. You can listen to any song from the books and practice along with them. You may practice each hand separately at various tempos, and even record your practice for self-evaluation.

(Alfred's Basic Piano Library lesson books are sold separately. Please check with your dealer or contact Alfred's Customer service at 818-892-2452 <USA, Canada> or 03-95240033 <Australia> or by E-mail at customerservice@alfred.com).

4.1 SELECTING A BOOK/SONG

The songs from Alfred's Lesson Books, Level 1A and Level 1B are installed in the CN3.





Press the LESSON button. The display shows an alphabet letter and a 2-digit number. The "A" refers to the Level 1A book and the "b" refers to the Level 1B book.

To change the book, press and hold the LESSON button and use the VALUE buttons.

To change the song, use the VALUE button without holding down the LESSON button. Or, you can also select a song directly by holding down the LESSON button and pressing a key on the keyboard. See page 38 for the song/key list.

4.2 LISTENING AND PLAYING A SONG

Press the PLAY/STOP button to play your selected Alfred song. You can adjust the volume balance of the right and left-hand parts with the BALANCE slider. For instance, placing the slider all the way to the left will remove the pre-recorded right-hand part, allowing you to practice your right hand with the pre-recorded left-hand part.

You can adjust the speed, or tempo, of the song by using the VALUE buttons while holding down the TEMPO button. **Press the PLAY/STOP button** to stop and reset the song to the beginning.

4.3 Recording Your Practice

While in the Lesson function, you can record yourself for playback and evaluation. You will hear the pre-recorded left and right-hand parts as you record. You may use the BALANCE slider to mute either pre-recorded

LESSON FUNCTION 19

Press the REC button (while the LESSON button is lit). The REC LED indicator will flash, indicating that the piano is ready to record. **Press the PLAY/STOP button** and the recorder will give you a one bar countin, and then start recording. You may wish to turn on the Metronome while recording.

Press the PLAY/STOP button again to stop the recording and automatically reset to the beginning. To listen to your recording, press the PLAY/STOP button. You may re-record at any time, or press the PLAY/STOP and REC buttons simultaneously to erase your recording.

◆ NOTE

The Lesson Recorder is a special temporary recorder. You cannot save recordings you make in the Lesson Function. Also, you cannot erase any of the Alfred songs. When you change to another Alfred song, or leave the Lesson function, your recording will be erased.

11 5. Playing with Concert Magic

The great German composer Johann Sebastian Bach once said, "Playing the keyboard is simple. Just strike the right keys at the right time." Many people wish it were that simple. The reality is very different of course. However, there is a way to make playing the keyboard very simple. You don't even have to strike the right keys thanks to Concert Magic.

With CONCERT MAGIC, absolutely anyone can sit at the CN piano and make real music... even if you've never taken a piano lesson in your life. To enjoy performing by yourself, you have only to select your favorite piece from 88 preprogrammed songs and tap any of the 88 piano keys with a steady rhythm and tempo. CONCERT MAGIC will provide the correct melody and accompaniment notes, regardless of which keys you press. Anybody, young or old, can enjoy CONCERT MAGIC from the moment they sit down at the CN piano.

Now let's see how CONCERT MAGIC works.

5.1 SELECTING A SONG

The 88 Concert Magic songs are assigned to each of the 88 keys, classified in eight groups by song category such as Children's Songs, American Classics, Christmas Songs.

All of the song titles are listed on page 39 in the appendices section of this manual.



To select a song, press the key to which your desired song is assigned while holding down the CONCERT MAGIC button. The display briefly shows the song number.

5.2 LISTENING TO THE SONG

If you have selected a song you are familiar with, you may want to play by yourself right away. However you may want to listen to the song first before playing it.

To listen, **press the PLAY/STOP button.** The CN piano will start playing back the selected song. You can adjust the speed or tempo of the song by using the VALUE buttons while holding down the TEMPO button. While you are listening you can select a different Concert Magic song by using the VALUE buttons.

When you are finished listening to the song, press the PLAY/STOP button again to stop.

PLAYING WITH CONCERT MAGIC 21

5.3 Performing a Song

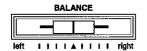
Now you're ready to play yourself.

Tap out the rhythm of the selected song on any one of the 88 black or white keys on the piano's keyboard.

As you tap harder, the notes will get louder; as you tap softer, the notes will get quieter. As you tap faster, the notes speed up; as you tap slower, they will slow down correspondingly, just like regular piano playing. Isn't it fun? You can sound like you've been playing for years just by pressing one key with one finger.

Concert Magic is a perfect method for small children to learn music, especially to develop a sense of rhythm. For older people who may think it is too late to learn the keyboard, Concert Magic is a good first step for them to begin with. With Concert Magic, your CN piano can be enjoyed by anyone in the family, even those who have never touched a musical instrument in their life.

5.4 Part Volume Balance for Concert Magic



When used with Concert Magic, the BALANCE slider adjusts the volume balance of the melody part and the accompaniment.

As the slider is moved to the right, the sound of the melody becomes louder and the accompaniment becomes softer. The balance changes in the opposite way when the slider is moved to the left.

5.5 CONCERT MAGIC SONG ARRANGEMENT TYPES

After playing for a while with Concert Magic you may think that it's too easy and there is very little to learn.

While it is true that some of the songs are very easy to play, even for beginners, there are also some which will challenge you and require practice to play beautifully. Each of the 88 Concert Magic songs falls into one of three different arrangement types depending on the skill level required to perform them.

EASY BEAT

These are the easiest songs to play. To perform them, simply tap out a constant steady beat on any key on the keyboard.

Look at the following example, "Für Elise". Press the key with a steady sixteenth note rhythm.

22 KAWAI DIGITAL PIANO CN3



MELODY PLAY

These songs are also quite easy to play, especially if they are familiar to you. To perform them, tap out the rhythm of the melody on any key on the keyboard. Singing along as you tap the rhythm can be helpful. Play "Twinkle, Twinkle, Little Star" for example. Follow the melody's rhythm as shown.



When performing fast songs with Concert Magic, it is sometimes easier to tap two different keys with two fingers alternating. This allows you to play twice as fast as you can using only one finger on one key.

SKILLFUL

These songs range in difficulty from moderately difficult to difficult. To perform them, tap out the rhythm of both the melody and the accompaniment notes on any key on the keyboard, like "Waltz of the Flowers" shown below.



It may take some practice to get them just right. A good way to learn these songs is to listen to them first, and then try to tap out the rhythms that you hear.

PLAYING WITH CONCERT MAGIC 23

◆ NOTE

In the song list on page 39, the arrangement type is marked next to each song title as "EB" for Easy Beat, "MP" for Melody Play and "SK" for Skillful.

5.6 STEADY BEAT

Regardless of which arrangement type a Concert Magic song is, with Steady Beat you can play any Concert Magic song by simply tapping any key with a constant steady beat.



Press and hold the CONCERT MAGIC button. The display will show the current Concert Magic mode (C-1).



While still holding the CONCERT MAGIC button, use the VALUE button to change the Concert Magic mode to STEADY BEAT (C-2).

Start by tapping any key with a constant steady beat. Your tapping will set the tempo for the song. Both the accompaniment and melody parts will be played automatically in time with the tempo you tap.

5.7 CONCERT MAGIC SONG DEMO

There are three ways to listen to the Concert Magic songs in the DEMO mode.

ALL PLAY

Press the CONCERT MAGIC button and then press the PLAY/STOP button without selecting a song. The CN piano will play back all of the Concert Magic songs in order.

RANDOM PLAY

Press the CONCERT MAGIC button and then press the LESSON button. The CN piano will play back all of the Concert Magic songs in random order.

CATEGORY PLAY

Press the piano key to which the desired song is assigned while holding down the CONCERT MAGIC and LESSON buttons. The CN piano will play back the selected song and, then play the rest of the songs in the same song category one after another.

To stop the demo, **press the PLAY/STOP button.**

5.8 Adjusting the Playback Speed for the Concert Magic Songs

The TEMPO button is also used to adjust the playback speed for the Concert Magic songs.

After selecting a Concert Magic song to play back, hold down the TEMPO button. The LED display will show the tempo value. While holding down the TEMPO button, use the VALUE buttons to change the tempo.

You can adjust the tempo, either before playing back a song or while the song is playing back.

PLAYING WITH CONCERT MAGIC 25

1116. Function Buttons

6.1 SELECTING THE TOUCH SENSITIVITY (TOUCH BUTTON)



Touch lets you select a different touch sensitivity for the keyboard from the standard touch of an acoustic piano. You can change the sensitivity to one of five different settings: Light 1, Light 2, Heavy 1, Heavy 2 or Off.



Light 1 For those still developing finger strength. A louder volume is produced even when playing with a soft touch.



Light 2 For players with a delicate touch. Requires less striking force to achieve a forte note.



Heavy 1 Perfect for those with strong fingers. Requires a heavier touch to produce a loud volume.



Heavy 2 Regires more striking force to achieve a loud volume.

Off A constant volume is produced regardless of how hard the keys are struck. This setting is suitable for sounds that have a

fixed dynamic range such as Organ and Harpsichord.



To change from the standard touch, **press the TOUCH button**. The LED indicator above the TOUCH button will be turned on to indicate that the piano is now using a different touch setting.

Use the VALUE buttons to change the type of touch while the TOUCH button is held down.

Press the TOUCH button again to get back to the standard touch setting.

Touch selection is global for all the preset tones. You cannot have an individual setting for each tone.

Once the power is turned off, the setting will be reset to the standard setting.

♦ NOTE

LIGHT and HEAVY do not represent the physical weight of the keys. These are settings that affect the sensitivity of the keys, which determines the volume level in response to the key movement.

6.2 Transposing the Piano (TRANSPOSE BUTTON)

The transpose function lets you raise or lower the piano's key in half steps. This is especially useful when you have learned a song in one key and have to play it in another key. The transpose feature allows you to play the song in the original key, but hear it in another key.



Press and hold the TRANSPOSE button. While still holding the TRANSPOSE button, use the VALUE buttons or the keyboard from C2 to C4 to specify the transposition amount.



The display shows you a number telling you how many half steps up or down you have transposed the piano. -5, for example, represents a transposition that is 5 half steps lower. "0" indicates no transposition.

The piano can be transposed up to 12 half steps higher or 12 half steps lower.

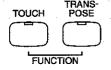
Pressing the TRANSPOSE button again turns the TRANSPOSE function off.

The TRANSPOSE function remembers the current setting as long as the power is on.

27

6.3 OTHER FUNCTIONS (TOUCH & TRANSPOSE BUTTONS)

There are 10 other functions that control tuning, system, and MIDI functions. They are Tuning, Temperament, MIDI Transmit and Receive Channel, Transmit Program Change On/Off, Local On/Off, Multi-timbral Mode, Channel Mute, Program Change Number, Lower Octave Shift and Lower Pedal On/Off.



These functions are selected by pressing one of the SOUND SELECT buttons or EFFECTS button while holding down both the TOUCH and the TRANSPOSE buttons. The functions are assigned as listed below.

Tuning PIANO 1
Temperament PIANO 2

MIDI Channel ELECTRIC PIANO

Transmit Program Change On/Off DRAWBAR

Local Control On/Off CHURCH ORGAN
Multi-Timbral Mode On/Off HARPSI&MALLETS

Channel Mute STRINGS
Program Change Number CHOIR&PAD

Lower Octave Shift BASS
Lower Pedal On/Off EFFECTS

The LED indicator of the button will flash to show which function is selected.

To exit the function, press any of the SOUND SELECT buttons or the TOUCH or the TRANSPOSE button.

Once the power is turned off, the settings will be reset to the factory preset value.

1.TUNING

Tuning allows you to adjust the piano's pitch. You may need to adjust the tuning when you play with other instruments.

Press the PIANO 1 button while holding down the TOUCH and the TRANSPOSE buttons.





The display alternatively shows "tun" (= Tuning) and a number that represents the pitch for "A" in Hz (Hertz). The range of adjustment is from 427.0 to 453.0 Hz (displayed as 27.0–53.0). The factory preset value is set to the modern standard A = 440.0 Hz (displayed as 40.0).

Use the VALUE buttons to raise or lower the pitch.

2. TEMPERAMENT

The CN piano offers not only equal temperament (the modern standard) but also immediate access to temperaments popular during the Renaissance and Baroque periods. It should be interesting and educational to try some of the different temperaments, although the equal temperament is dominant today.



Press the PIANO 2 button while holding down the TOUCH and the TRANSPOSE buttons.

The display alternatively shows "tMP" (= Temperament) and the symbol that indicates which type of temperament is in use.

Use the VALUE buttons to change the type of temperament.

BRIEF EXPLANATION OF TEMPERAMENTS



EQUAL TEMPERAMENT (PIANO ONLY)

This is the default temperament. If a piano sound is selected the tuning is stretched like an acoustic piano (EQUAL TEMPERAMENT). If any other type of sound is selected the tuning will be EQUAL (FLAT). An explantion of EQUAL TEMPERAMENT and EQUAL TEMPERAMENT (FLAT) is provided later in this section.



If a piano sound is used in a layer with any other sound then both sounds will use the EQUAL TEMPERAMENT (Stretched) tuning.



MERSENNE PURE TEMPERAMENT (MAJOR) MERSENNE PURE TEMPERAMENT (MINOR)



This temperament, which eliminates dissonance's for thirds and fifths is still popular for choral music because of its perfect harmony.

You need to be aware what key you are playing in with this temperament.

Any key modulation will result in dissonance's. When you play music in a particular key, you need to match the key of the temperament as well. When playing in a major key select Pure (Major) and when playing in a minor key select Pure (minor).



PYTHAGOREAN TEMPERAMENT

This temperament, which uses mathematical ratios to eliminate dissonance for fifths, is very limited for use with chords, but it produces very characteristic melodic lines.



MEANTONE TEMPERAMENT

This temperament, which uses a mean between a major and minor whole tone to eliminate dissonance for thirds, was devised to eliminate the lack of consonance's experienced with certain fifths for the Mersenne pure temperament. It produces chords that are more beautiful than those with the equal temperament.



WERCKMEISTER III TEMPERAMENT KIRNBERGER III TEMPERAMENT



These two temperaments are placed in between Meantone and Pythagorean. For music with few accidentals, this temperament produces the beautiful chords of the mean tone, but as accidentals increase, the temperament produces the characteristic melodies of the Pythagorean temperament. It is used primarily for classical music written in the Baroque era to revive the original characteristics.



EQUAL TEMPERAMENT (FLAT)

This is "unstretched" equal temperament that divides the scale into twelve equal semitones. This produces the same chordal intervals in all twelve keys, and has the advantage of limitless modulation of the key. However the tonality of each key becomes less characteristic and no chord is in pure consonance.



EQUAL TEMPERAMENT

This is the most popular piano temperament. The hearing ability of a human is uneven and is not as accurate with high frequency and low frequency as it is with the middle range. This temperament's tuning is stretched to compensate for this so the sound will be heard naturally to the ears. This "Stretched" equal temperament is a practical variation of the "unstretched" equal temperament which was invented on a mathematical basis.

♦ NOTE

30

After you have selected the desired temperament, please read the following section on selecting a key signature for the temperament before continuing.

KEY SIGNATURE OF TEMPERAMENT

Limitless modulation of the key became available only after the invention of Equal temperament. When we use a temperament other than Equal temperament, we must carefully choose the key signature to play in. For example, if the song you are going to play is written in D major, choose "D" as the temperament key.

KAWAI DIGITAL PIANO CN3



To select the key signature of the temperament, simply press one of the 88 piano keys. The note name of the key you pressed will be shown in the display and it will be chosen as the key of the temperament.

◆ NOTE

Changing the key of the temperament will only change the "balance" of the tuning, the pitch of the keyboard remains unchanged. Use the TUNING or TRANSPOSE functions to change the pitch of the whole keyboard.

3. MIDI CHANNEL

This determines on which MIDI channel the CN piano will exchange MIDI information with an external MIDI instrument or a personal computer.



Press the ELECTRIC PIANO button while holding down the TOUCH and the TRANSPOSE buttons.



The display alternatively shows "Chn" (= Channel) and the channel number. The default channel is 1.

Use the VALUE buttons to change the channel number.

4. TRANSMIT PROGRAM CHANGE ON/OFF

This determines whether or not the CN piano will transmit program change information when pressing the SOUND SELECT buttons. When this is turned on, pressing the SOUND SELECT buttons will send the program change numbers as listed in page xx.



Press the DRAWBAR button while holding down the TOUCH and the TRANSPOSE buttons.



The display alternatively shows "PGM" (= Program) and on/off status. The default is on.

Use the VALUE buttons to toggle on and off.

5. LOCAL CONTROL ON/OFF

This determines whether the CN piano's sound will be played from the piano's keyboard ("ON") or only from an external MIDI instrument ("OFF").

Even with local control "off" the piano's keyboard will still transmit to an external MIDI instrument or personal computer.





Press the CHURCH ORGAN button while holding down the TOUCH and the TRANSPOSE buttons.

The display alternatively shows "LcL" (= Local) and on/off status. The default is on.

Use the VALUE buttons to toggle on and off.

6. MULTI-TIMBRAL MODE ON/OFF

Multi-timbral mode allows the CN piano to receive data on more than one MIDI channel simultaneously. In this mode, the CN piano can play different musical parts with different sounds for each part.

Multi-Timbral On (On1 and On2)

This is a flexible 16 part multi-timbral setup. You can turn individual MIDI channels on and off, and assign any program number to any channel in the way you like. The CN piano's normal program change numbers are assigned in On1 (Please see page 38 for a list of the program change numbers), and General MIDI program change numbers are assigned in On2.

Multi-Timbral Off

This turns off the multi-timbral capability. Only one MIDI channel will be active and only the preset sound currently selected will be heard when a MIDI signal is received.

Press the HARPSI&MALLETS button while holding down the TOUCH and the TRANSPOSE buttons.





The display alternatively shows "MLt" (= Multi) and on/off status. The default is off.

Use the VALUE buttons to toggle on1, on2 and off.

7. CHANNEL MUTE

This determines which MIDI channels are activated to receive MIDI information when the Multi-Timbral mode is set to on. You can activate or deactivate each of the 16 channels individually.

Press the STRINGS button while holding down the TOUCH and the TRANSPOSE buttons.

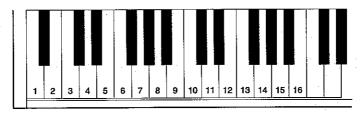


The display alternatively shows "P01" (= Play 01) and "On". This means channel 1 is activated.



Use the VALUE buttons to toggle on and off.

To turn on and off the other channels, use the 16 leftmost white keys to select a desired channel. The display will show "P02" through "P16". Then use the VALUE buttons to turn them on and off.



NOTE

When the Multi-timbral mode is set to off, the "Channel Mute" function can not be selected.

8. SENDING PROGRAM CHANGE NUMBERS

This function allows the CN piano to transmit program change numbers beyond the 27 pre-defined numbers transmitted by the sound select buttons. Using this function, you can send any number from 1 to 128.



Press the CHOIR&PAD button while holding down the TOUCH and the TRANSPOSE buttons.



The display alternatively shows "PG#" (= Program #) and a program change number. Use the VALUE buttons to change the number.

To send the program change number, press both VALUE buttons simultaneously.

9. LOWER OCTAVE SHIFT

This allows the octave of the lower part to be be shifted up one, two, or three octaves higher when you use the split function.



Press the BASS button while holding down the TOUCH and the TRANSPOSE buttons.



The display alternatively shows "Lot" (= Lower Octave) and a number which represents how many octaves the lower part is shifted up.

Use the VALUE buttons to set the desired lower octave shift range.

Lower Octave Shift can be set between 0 to 3.

10. LOWER PEDAL ON/OFF

This determines if the pedals will be active for lower sound when in SPLIT mode. The default setting is off which means the pedals are not active for lower sound.





Press the EFFECTS button while holding down the TOUCH and the TRANSPOSE buttons.

The display alternatively shows "LPd" (= Lower Pedal) and on/off status. The default is off.

Use the VALUE buttons to toggle on and off.

7. Using MIDI

The term MIDI is an acronym for Musical Instrument Digital Interface, an international standard for connecting synthesizers, sequencers (MIDI recorders) and other electronic instruments so that they can exchange performance data.

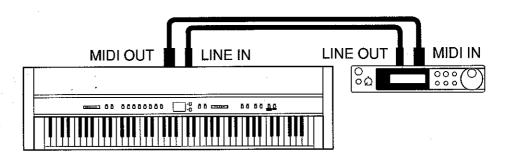
The CN3 is equipped with two MIDI jacks for exchanging data: MIDI IN and MIDI OUT. Each uses a special cable with a DIN connector.

MIDI IN: For receiving note, program change and other data. MIDI OUT: For sending note, program change and other data.

MIDI EXAMPLES

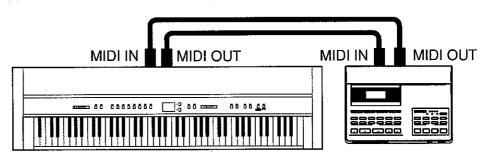
(1) Connection to another MIDI compatible keyboard or sound generator module

When connected as shown in the illustration, data on how the digital piano is played (which keys are struck) can be sent to another MIDI instrument. Plus, the sound from the CN3 can be layered over the sound of the other instrument.



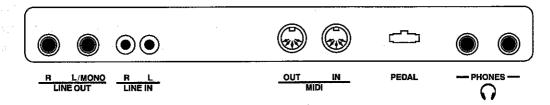
(2) Connection to an external sequencer

When connected as shown in the illustration, you can record songs played on the CN3 with a MIDI recorder, and use the CN3 's tones (such as piano, harpsichord and vibraphone, etc.) controlled by the CN3's MULTI-TIMBRAL MODE function to create a multi-layer MIDI recording.



35





LINE OUT JACKS

These jacks provide stereo output of the piano's sound to amplifiers, tape recorders or similar equipment.

The audio signal coming through the LINE IN jacks is also routed to these jacks. The piano's sound is mixed with the LINE IN signals.

The CN piano's VOLUME slider can control the output level of its own sound while it does not control the LINE IN signal.

LINE IN JACKS

These jacks are used to connect a pair of stereo outputs from other audio equipment or electronic instruments to the piano's speakers.

The audio signal coming through these jacks bypasses the piano's volume control. To adjust the volume level, use the output control of the external device.

MIDI JACKS

These jacks are used to connect external MIDI devices with the CN piano. There are two terminals: MIDI IN and MIDI OUT.

PEDAL JACK

Connect the pedal cord from the pedal board to this jack.

HEADPHONE Jacks

There are two jacks for headphones provided at the left end on the bottom of the piano.

You can hear the piano's sound as well as any audio signal that is coming through the LINE IN.

9. APPENDICES

PROGRAM CHANGE NUMBER MAPPING

		· .				
Sound Button		Sound Name	Off, On 1		On 2	
			Prog #	Bank MSB	Bank LSB	Prog #
PIANO 1	1	Concert Grand	1	121	0	1
	2	Studio Grand	2	121	1	1
	3	Mellow Grand	3	121	2	1
PIANO 2	1	Modern Piano	4	121	0	2
	2	Honky Tonk	5	121	0	4
	3	Rock Piano	6	121	1	2
ELECTRIC PIANO	1	Classic E.Piano	7	121	0	5
	2	Modern E.P.	8	121	0	6
	3	60's E.P.	9	121	3	5
DRAWBAR	1	Jazz Organ	10	121	0	18
	2	Drawbar Organ	11	121	. 0	17
· .	3	Drawbar Organ 2	12	121	1	17
CHURCH ORGAN	1	Church Organ	13	121	0	20
	2	Diapason	14	95	7	20
	3	Full Ensemble	15	95	1	21
HARPSI&MALLETS	1	Harpsichord	16	121	0	7
	2	Vibraphone	17	121	0	12
	3	Clavi	18	121	0	8
STRINGS	1	String Ensemble	21	121	0	49
	2	String Pad	20	95	8	49
	3	Slow Strings	19	95	1	45
CHOIR&PAD	1	Choir	22	121	0	53
	2	New Age Pad	23	121	0	89
·	3	Atmosphere	24	121	0	100
BASS	1	Wood Bass	25	121	0	33
	2	Electric Bass	26	121	0	34
	3	W. Bass & Ride	27	95	1	33

APPENDICES 37

ALFRED'S LESSON SONG LIST

.EVE	L 1A		LEVE	L 1B	
1.	Right & Left	A0	1.	Step Right Up!	A 0
2.	Left & Right	A #0	2.	The Carousel	A#0
3.	Merrily We Roll Along/		3.	Hail to Thee, America!	B0
	O'er the Deep Blue Sea	B 0	4.	Brother John	C1
4.	Hand-Bells	C1	5.	Good Sounds	C#1
5.	Jolly Old Saint Nicholas	C#1	6.	The Cuckoo	D1
6.	Old MacDonald	$\mathbf{D1}_{\cdot}$	7.	Money Can't Buy Ev'rything!	D#1
7.	Batter Up!	D#1	8.	Ping-Pong	E1
8.	My Clever Pup	E1	9.	Granpa's Clock	F1
9.	The Zoo	F1	10.	When the Saints Go Marching In	F#1
10.	Playing in a New Position	F#1	11.	G's in the "BAG"	G1
11.	Sailing	G1	12.	Join the Fun	G#1
12.	Skating	G#1	13.	Oom-Pa-pa!	A1
13.	Wishing Well	A1	14.	The Clown	A#1
14.	Rain, Rain!	A #1	15.	Thumbs on C!	B1
15.	A Happy Song	B1	16.	Waltz Time	C2
16.	Position C	C2	17.	Good King Wenceslas	C#2
17.	A Happy Song	C#2	18.	The Rainbow	D2
18.	See-Saws	D2	19.	Good Morning to You!	D#2
19.	Just a Second!	D#2	20.	Happy Birthday to You!	E2
20.	Balloons	E2	21.	Yankee Doodle	F2
21.	Who's on Third?	F2	22.	The Windmill	F#2
22.	Mexican Hat Dance	F#2	23.	Indians	G2
23.	Rock Song	G2	24.	New Position G	G#2
24.	Rockets	G#2	25.	Pedal Play	A2
25.	Sea Divers	A 2	26.	Harp Song	A #2
26.	Play a Fourth	A#2	27.	Concert Time	B2
27.	July the Fourth!	B2	28.	Music Box Rock	C3
28.	Old Uncle Bill	C3	29.	A Cowboy's Song	C#3
29.	Love Somebody	C#3	30.	The Magic Man	D3
30.	My Fifth	D3	31.	The Greatest Show on Earth	D#3
31.	The Donkey	D# 3	32.	The Whirlwind	E 3
32.	Position G	E 3	33.	The Planets	F3
33.	Jingle Bells!	F 3	34.	C Major Scale Piece	F#3
34.	Willie & Tillie	F# 3	35.	G Major Scale Piece	G3
35.	A Friend Like You	G3	36.	Carol in G Major	G#3
36.	My Robot	G#3	37.	The Same Carol in C Major	A 3
37.	Rockin' Tune	A3	38.	French Lullaby	A# 3
38.	Indian Song	A #3	39.	Sonatina	B 3
39.	Raindrops	B 3	40.	When Our Band Goes Marching By!	C4
4 0.	It's Halloween!	C4			
41.	Horse Sense	C#4			

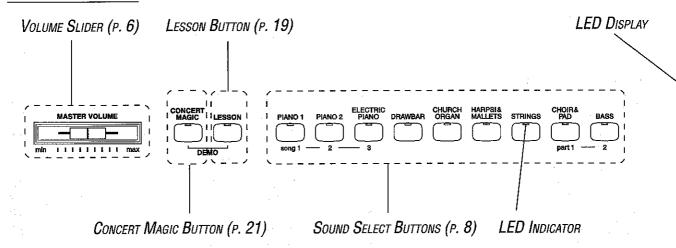
38 KAWAI DIGITAL PIANO CN3

CONCERT MAGIC SONG LIST

			My Bonnie Lies Over The Ocean	E3	EΒ
Title	Note#	Type	Oh Susanna	D#4	SK
			On Top Of Old Smokey	E4	EB
CHILDREN'S SONGS			Take Me Out To The Ballgame	C4	EB
Bingo	G#1	EB	The Band Played On	G4	EB
Frère Jacques	F#1	MP	When Johnny Comes Marching Home	G#4	MP
Good Morning To You	F1	MP	When The Saints Go Marching In	A 4	- EB
Hickory Dickory Dock	D#1	EB			
I'm A Little Teapot	A#0	MP	FAVORITE HYMNS		
Itsy, Bitsy Spider	A1	MΡ	A Mighty Fortress	D6	MP
London Bridges	C#1	MP	Amazing Grace	C5	MP
Mary Had A Little Lamb	C1	MP	Doxology	C#5	MΡ
Pop Goes The Weasel	E1	MP	Fairest Lord Jesus	B4	MP
Row, Row, Row Your Boat	D1	MP	For The Beauty Of The Earth	D5	MP
The Farmer in The Dell	G1	MP	Gloria Patri	C#6	MP
This Old Man	B0	MP	Holy, Holy, Holy	F5	MP
Twinkle, Twinkle, Little Star	A0	MP	It Is Well With My Soul	C6	MP
			Jesus Loves The Little Children	B5	MP
CHRISTMAS SONGS			Just As I Am	A#5	MP
Deck The Halls	C2	MP	O Worship The King	D#5	MP
Hark The Herald Angels Sing	A#1	MP	Rock Of Ages	G5	MP
Jingle Bells	B1	MP	Sweet Hour Of Prayer	A5	MP
Joy To The World	D2	MP	The Old Rugged Cross	E5	MP
O Come All Ye Faithful	C#2	MP	Trust And Obey	G#5	MP
Silent Night	E2	MP	What A Friend We Have In Jesus	F#5	MP
The First Noel	D#2	MP			
We Wish You A Merry Christmas	F2	MP	CLASSICAL SELECTIONS		
What Child Is This? (Greensleeves)	F#2	MP	An Die Freude (Ode To Joy)	F6	MP
vitat oma to tino. (arosholovos)			Andante (Haydn)	D#6	· MP
PATRIOTIC SONGS			Blue Danube Waltz	B6	SK
America The Beautiful	A2	MP	Clair De Lune	F#6	SK
Battle Hymn Of The Republic	G#2	MP	Fledermaus	E7	EB
Hail To The Chief	B2	MP	Für Elise	E6	EB
	G2	MP	Gavotte (Gossec)	C#7	SK
My Country 'Tis Of Thee Yankee Doodle	A#2	MP	Menuet In G (Bach)	A6	SK
Talikee Doodle	HITZ	IVII	Peter And The Wolf	G#6	SK
	•		Romeo And Juliet	A#6	SK
AMERICAN CLASSICS			Skater's Waltz	G6	SK
Auld Lang Syne	C#4	MP	Sleeping Beauty Waltz	C7	EB
Beautiful Dreamer	A#4	EB	Toreador Song ("Carmen")	D#7	SK
Bicycle Built For Two	F4	EB	Waltz Of The Flowers	D7	SK
Bill Bailey Won't You Please Come Home	G3	EB		-	•
Camptown Races	F#4	MP	SPECIAL OCCASIONS	•	
Clementine	A3	MP	Bridal Chorus	F 7	MP
Danny Boy	C3	EB		F#7	SK
Down In The Valley	C#3	EB	Wedding March	I # 1	ΟI
Fascination	A#3	SK	INTERNATIONAL CONCC		
For He's A Jolly Good Fellow	F#3	EB	INTERNATIONAL SONGS		6 17
Give My Regards To Broadway	G#3	SK	Chiapenacas	C8	SK
Home On The Range	B3	MP	Funiculi Funicula	A#7	SK
Home Sweet Home	D#3	EB	Hatikvah	G#7	MP
In The Good Old Summertime	F3	EB	La Marseillaise	B7	MP
Let Me Call You Sweetheart	D3	EB	My Wild Irish Rose	A7	EB
Michael Row The Boat Ashore	D4	MP	When Irish Eyes Are Smiling	G7	EΒ

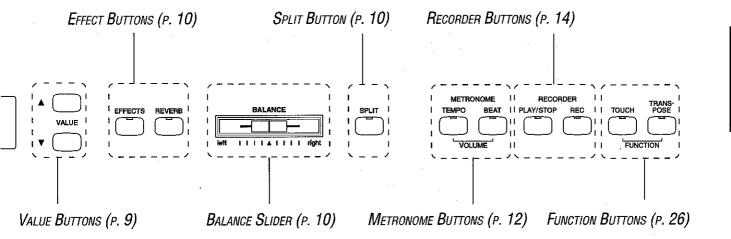
APPENDICES 39

FRONT PANEL



SOUND DEMO SONG LIST

PIANO 1	Concert Grand	Valse, op.64-1 / Chopin		
	Studio Grand	Original		
	Mellow Grand	La Fille aux Cheveux de Lin / Debussy		
PIANO 2	Modern Piano	KAWAI Original		
• 4	Rock Piano	KAWAI Original		
ELECTRIC PIANO	Classic E.Piano	KAWAI Original		
	Modern E.P.	KAWAI Original		
DRAWBAR	Jazz Organ	KAWAI Original		
	Drawbar Organ	KAWAI Original		
	Drawbar Organ 2	KAWAI Original		
CHURCH ORGAN	Church Organ	Toccata / Eugene Gigout		
	Diapason	Wohl mir, daß ich Jesum habe / Bach		
	Full Ensemble	KAWAI Original		
HARPSI&MALLETS	Harpsichord	French Suite No. 6 / Bach		
:	Vibraphone	KAWAI Original		
	Clavi	KAWAI Original		
STRINGS	String Ensemble	Le quattro stagioni "La primavera" / Vivaldi		
	String Pad	KAWAI Original		
	Slow Strings	KAWAI Original		
CHOIR&PAD	Choir	KAWAI Original		
	New Age Pad	KAWAI Original		
	Atmosphere	KAWAI Original		
BASS	Wood Bass	KAWAI Original		
•	Electric Bass	KAWAI Original		
•	W. Bass & Ride	KAWAI Original		



SPECIFICATIONS

`. 	CN3
Keyboard	88 Weighted Keyboard with Advanced Hammer Action IV
Polyphony	Maximum 96
Number of Sound	27
Sound Categories	Piano 1, Piano 2, Electric Piano, Drawbar, Church Organ,
•	Harpsi&Mallets, Strings, Choir&Pad, Bass
Effects	Reverb (5), Chorus, Tremolo, Delay (3), Rotary (2)
Temperaments	Equal (Piano Only), Mersenne pure (Major), Mersenne pure (minor),
	Pythagorea, Meantone, Werckmeister III, Kirnberger III,
<u>.</u>	Equal (flat), Equal
Recorder	2 Tracks, 3 Songs
•	The total memory capacity of the recorder is approximately 15,000 notes.
Other Features	Concert Magic (88 Preset Songs), Volume, Dual, Split, Balance Slider,
	Lesson Function, Metronome, Transpose, Tune,
	Lower Octave Shift, Lower Pedal On/Off,
	Touch Curve (Light 1, Light 2, Normal, Heavy 1, Heavy 2, Off),
	MIDI (16 part multi-timbral capability)
Pedals	Sustain, Sostenuto, Soft
Jacks	Headphones (2), LINE IN (L, R), LINE OUT (L/MONO, R),
	MIDI (IN, OUT)
Output Power	16 W x 2
Speakers	16 cm x 2
Power Consumption	50 W
Finish	Rosewood, Mahogany, European Cherry
Dimensions (WxDxH)	1392 x 470 x 827 mm
(without Music Rack)	55" x 19" x 33"
Weight (without bench)	42.5 kg, 94 LB's

MIDI EXCLUSIVE DATA FORMAT

1st byte	2nd b	yte 3rd byte 4th byte 5th byte 6th byte 7th byte 8th byte 9th byte 10th byte 3 4 5 6 7 8 9 10
	1	F0 Start code
	2	40 Kawai's ID number
	3	00 - 0F MIDI channel
	4	10, 30 Function code (30 when setting MULTI TIMBRE ON/OFF)
•	5	04 Indicates that the instrument is Electronic Piano
	6	02 Indicates that the piano is one of "CA" or "CN" series
	7	data 1
	8	data 2 (See the table below.)
•	9	data 3
	10	F7 End code

data 1	data 2	data 3	Function	
00	00	<u>—</u>	Multi Timbre Off	
00	01		Multi Timbre On 1	
00	02		Multi Timbre On 2	
0D	00–07	_	00: Effect Off, 01: Chorus, 02: Delay 1, 03: Delay 2, 04: Delay 3,	
	-	٠	05: Tremolo, 06: Rotary 1, 07: Rotary 2	
0E	00-03, 06, 07	· <u>—</u>	00: Reverb Off, 01: Room 2, 02: Stage, 03: Hall 1, 06: Room 1,	
			07: Hall 2	
14	00–7F		Dual/Split balance	
16	1F60	_	Tune, 40: 440 Hz	
17	00, 7F		00: Program Change Off, 7F: Program Change On	
18	0005	·	00: Light 1, 01: Normal, 02: Heavy 1, 03: Off, 04: Light 2, 05: Heavy 2	
19	00-03		Lower Octave Shift	
20	00–27	00–27	Dual, data 2: Right sound, data 3: Left sound	
21	00–27	00–27	Split, data 2: Upper sound, data 3: Lower sound	
25	00–08	00-0B	data 2: Temperament, data 3: Key	
. 26	00, 7F	00-0F	Multi Timbre, data 2: 00 (On), 7F (Off), data 3: channel	

KAWAI DIGITAL PIANO CN3

MIDI IMPLEMENTATION CHART

KAWAI DIGITAL PIANO MODEL: CN3

DATE: DECEMBER 2004 VERSION 1.0

Function		Transmit	Receive	Remarks
Basic	Default	1	1	
Channel	Changes	1 – 16	1 – 16	
-	Default	3	3	* The default for the OMNI
Mode	Messages	×	1, 3*	mode is ON. Specifying MIDI channels automatically
	Altered	* * * * * * * *		turns it OFF.
Note		9 – 120**	0–127	
Number	True voice	* * * * * * * *	0–127	
Velocity	Note ON	○ 9nH v=1–127	0	
	Note OFF	× 9nH v=0	×	
After	Key's	×	×	
Touch	Ch's	×	×	
Pitch Bend		×	×	·
	0, 32	0	0	Bank Select
	7	×	0	Volume
	11	×	0	Expression pedal
	64	O (Right pedal)	О	Sustain pedal
Control	66	O (Center pedal)	0	Sostenuto pedal
Change	67	O (Left pedal)	0	Soft pedal
Program		O 0 – 127	O***	*** See the Program Change Number Mapping in page
Change	:True #	* * * * * * * *		37.
System Excl	lusive	0	0	On/Off Selectable
	: Song Position	×	×	
Common	: Song Select	×	×	
	:Tune	×	×	
System	: Clock	×	×	
Real Time	: Commands	×	×	
Aux	: Local On/Off	×	0	
	: All Notes Off	×	O (123-127)	
	: Active Sense	0	0	
	: Reset	×	×	
Notes		** The value depen	ds on the Transpos	e setting.

Mode 1: OMNI ON, POLY

Mode 2: OMNI ON, MONO

O: Yes

Mode 3: OMNI OFF, POLY

Mode 4: OMNI OFF, MONO

X: No

KAWAI