KORG DIGITAL PIANO

NC-500 BR DB SW NC-300 BR DB

Owner's Manual

Thank you for purchasing the Korg Digital Piano Concert NC-500/NC-300. To ensure long, trouble-free operation, please read this manual carefully.

KORG

IMPORTANT SAFETY INSTRUCTIONS

- · Read these instructions.
- · Keep these instructions.
- · Heed all warnings.
- · Follow all instructions.
- Do not use this apparatus near water.
- Mains powered apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Clean only with dry cloth.
- Do not block any ventilation openings, install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. (for U.S.A. and Canada)
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Turning off the power switch does not completely isolate this
 product from the power line so remove the plug from the socket if
 not using it for extended periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not install this equipment on the far position from wall outlet and/or convenience receptacle.
- Do not install this equipment in a confined space such as a box for the conveyance or similar unit.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



WARNING:

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





The lightning 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 literature accompanying the product.

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

CE mark for European Harmonized Standards

CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC). And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).

Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

· Other product names and company names are registered trademarks and trademarks of their respective owners.

About Recorder data

Since it is possible for the contents of memory to be accidentally lost, you should save important data on an external data filer (storage device) etc.

Korg will accept no responsibility for any damages that may result from loss of data.

Conventions in this manual



This symbol indicates a caution.

(\mathbb{F}_{p} p.**) This indicates a reference page.



This indicates an explanation concerning a setting.

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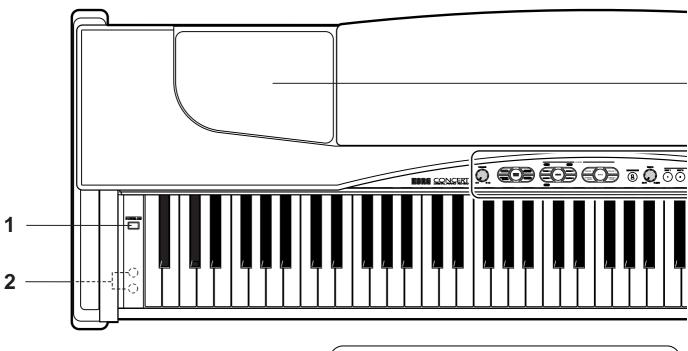
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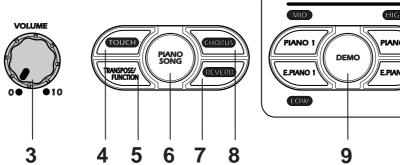
Features

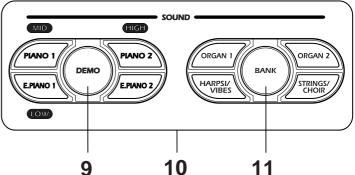
● Twenty-four high-quality sounds
● Digital Effects Includes a reverb effect that simulates concert-hall acoustics, and a chorus effect that adds depth and motion to the sound. Each effect can be applied at any of three different levels.
● Three Pedals
● Metronome
● Touch Control
● Keyboard Transposition, and Fine Tuning
● Choice of Temperaments, and Stretch Tuning
● INPUT jack (NC-500 only)
● Recorder (NC-500 only)
MIDI support
● USB Support (NC-500 only)

Controls and Connectors

Top Controls







1. POWER switch

Turns the power on and off. (PP p. 9)

2. Headphone jacks

Each jack can be connected to a set of stereo headphones. (PP p. 10)

3. VOLUME knob

Adjusts the output level of the internal speakers, the headphone jacks, and the OUTPUT jacks. (**F** p. 10)

4. TOUCH button

Selects the touch curve of the keyboard sensitivity. (P p. 22)

5. TRANSPOSE/FUNCTION button

Use this button when you want to transpose the keyboard or access various other functions (pitch settings, recording settings, MIDI settings, etc.).

6. PIANO SONG button

Use this to select one of the 32 demo piano songs. (PP p. 14)

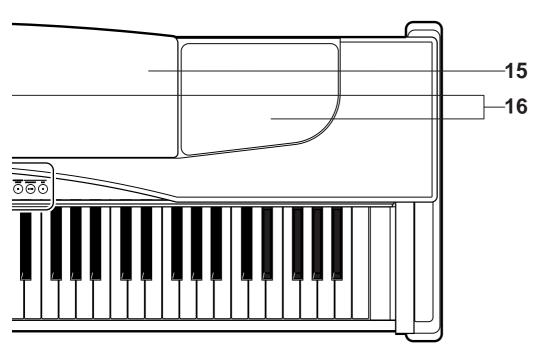
7. REVERB button

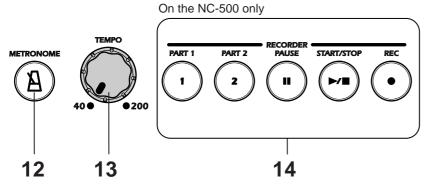
Adjust the reverb amount and turns the reverb effect on or off. (P p. 18)

8. CHORUS button

Adjust the reverb amount and turns the chorus effect on or off. (P p. 18)

Illustration shows the NC-500.





9. DEMO button

Selects one of the eight sound demos. (PPp. 12)

10. SOUND buttons

Use the eight small buttons in this section, together with the BANK button, to select from among the piano's 24 sounds (3 banks of 8 sounds). If you wish, you can use the Layered Mode (Leep. 17) to play two sounds simultaneously.

11. BANK button

Selects the sound bank. (189 p. 17)

12. METRONOME button

Turns the metronome on or off. (PPp. 20)

13. TEMPO knob

Adjusts the tempo of the metronome and the recorder. (P p. 16)

14. RECORDER section (NC-500 only)

Lets you record, replay and play along with your performances. (PPp. 26)

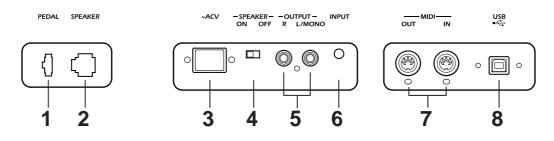
15. Music stand (**/Ø** p. 10)

16. Speakers

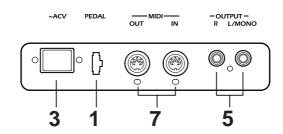
Although the speaker covers can be removed, we recommend that you leave them attached at all times. MeMO For information about how to reattach the speaker covers, refer to "Attaching the Speaker Covers" on page 11.

Lower Controls

NC-500



NC-300



1. PEDAL jack

The connection cable from the pedal pod (included) plugs into this socket.

2. SPEAKER jack (NC-500 only)

The connection cable from the speakers in the NC-500 stand plugs in here.

3. AC IN connector

The AC power cord (included) connects here. (PP p. 51, 53)

4. SPEAKER switch (NC-500 only)

Switches the NC-500's internal speakers on or off.

5. OUTPUT jacks

These jacks can be used to send the sound of the NC-500/NC-300 to external amplified speakers or an external audio device. Make the connections using standard mono cables (1/4" plugs). (P p. 11)

6. INPUT jack (NC-500 only)

You can use this jack to play the sound from a CD player, audio device, or electronic instrument through the NC-500 speakers and headphones. This jack accepts a stereo miniplug cable. () 11)

7. MIDI jacks

Use these jacks to connect to external MIDI devices such as synthesizers, sequencers, and rhythm machines. (PSP p. 31)

MIDI IN Receives MIDI information. Connect this jack to the MIDI OUT jack of

the device that you will use to control the piano.

MIDI OUT Sends MIDI information. Connect this jack to the MIDI IN jack of the

device that you wish to control from the NC-500/NC-300.

8. USB connector (NC-500 only)

Connect the piano to your computer using a USB cable, for sending or receiving data. (PSP p. 38)

Getting Ready to Play

Getting Ready

■ Connect the power.

Connect the socket end of the AC power cord to the piano's AC IN connector. Then plug the other end of the power cord into a wall power outlet.

■ Raise the keyboard cover. (NC-500 only)

Lift the front edge of the cover near the center of the keyboard, and slide the cover all the way back into the cabinet.



To close the cover: Lift the cover in the same location, and gently pull it all the way out. Lower the front edge of the cover.



Be careful to avoid snagging your hand or your fingers when opening or closing the cover.



Handle the cover gently and don't try to force it. The cover may break if mishandled.



Before raising the cover, be sure that there are no small objects (such as coins and paper debris) resting on it. Such objects can fall inside the piano when the cover is lifted.

■ Turn on the power.

Press the POWER switch to turn the power on.

The selected SOUND button, the BANK button, and various other buttons on the front panel light up.



To turn the power off: Press the POWER switch once again.



Turning the power off returns all settings to their factory defaults. The NC-500's recorder memory will retain any song data that has been recorded.

■ Adjust the volume.

Turn the VOLUME knob to adjust the output volume.

The VOLUME knob adjusts the level to the internal speakers, the headphones, and the OUPUT jacks. Turn the knob left to reduce the volume, or right to increase it. Setting the knob to the "0" position cuts of all sound output.



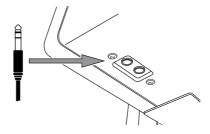


Start with the knob in the "0" position and turn it slowly to raise the volume as desired.

Using Headphones

Twin stereo headphones jacks are located under the left side of the keyboard. Connecting headphones to either jack will cut off the sound through the speakers. Use headphones when playing at night or whenever you want to practice silently. You can connect up to two headphone sets at the same time, so that two people can listen together.

To connect a stereo headphone set: Insert the headphone plug (stereo 1/4"plug) into either headphone jacks.





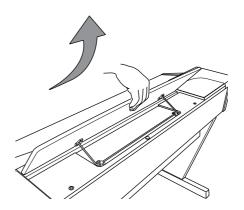
If you are using headphones fitted with a 1/8"-to-1/4"adapter plug, be sure to grasp the adapter plug when connecting or unplugging the headphones.



To protect your ears and prevent possible loss of hearing, avoid prolonged listening to headphones at high volume.

Using the Music Stand

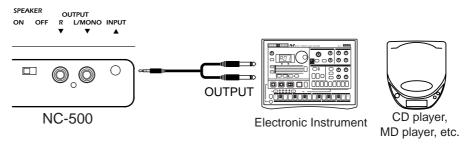
Raise the stand by lifting the back edge, and insert the front edge of the stand into the groove on the piano. Lift the front edge up out of the groove and tilt the music stand back to lower it down into the top of the piano.



When lowering the stand, please hold it with both hands.

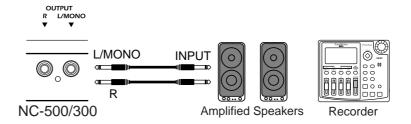
Using the INPUT Jack (NC-500 only)

This jack lets you play an audio device (such as a CD or MD player) or an electronic instrument through the NC-500's speakers and headphones, along with the sound of the NC-500. Use a stereo miniplug to make the connection.



Using the OUTPUT Jacks

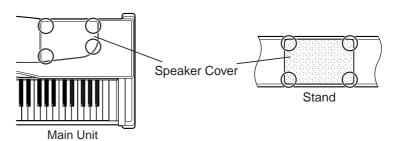
Use these jacks to send the sound to an external sound system or to recording equipment. Use mono cables with standard (1/4") plugs. Connect each cable to the corresponding INPUT jack on the external device. When connecting only one output, use the L/MONO jack only. Use the volume knob to adjust the level through the OUTPUT jacks.



- When playing through the speakers of an external device, you can turn off the sound from the piano's speakers by plugging headphones (or any 1/4" phone connector) into one of the headphone jacks. On the NC-500, you can also turn off the sound by turning the SPEAKER switch to OFF.
- Be sure to turn the power off before making any connections. Connections made incorrectly may result in damage to (or misoperation) of the piano or the external device.
- Different devices require different types of cables. Please purchase cables that are appropriate for the external devices you wish to use.

Attaching the Speaker Covers

If you have removed a speaker cover from the main unit or (on the NC-500) from the stand, you can reattach the cover by placing it into position and pressing gently at the four locations indicated by the circles below.



Listening to the Demos

Your piano includes 40 built-in demo songs: eight sound demos that demonstrate the expressive power of the instrument's various sounds, and 32 piano songs - well known piano pieces featuring the high-quality piano sounds of the NC-500/NC-300. The piano songs can also be used for as practice excercises, and the scores for the piano songs are included.

Listening to Sound Demos

Sound Demos

No.	Sound switch	Title	Composer
1	PIANO 1	KORG Original I Heard That Rhapsody	T.Imaizumi
2	PIANO 2	KORG Original Reflection	M.Tempia
3	E.PIANO 1	KORG Original Three Hands	H.Minami
4	E.PIANO 2	KORG Original All The Ones You Don't Know	M.Tempia
5	ORGAN 1	KORG Original Cool "B"	M.Tempia
6	ORGAN 2	Fuga G minor	J.S.Bach
7	HARPSI/VIBE	Italian Concert	J.S.Bach
8	STRINGS/CHOIR	Air on the G string	J.S.Bach



The keyboard remains live while playback is in progress, but the SOUND buttons are disabled. In other words, you are free to play along on the keyboard, using the same sound as the demo.



You cannot change the effect settings (chorus and reverb settings) while the demo song is playing.

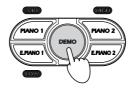


The tempo of the demo song's playback cannot be changed.

■ Listening to All the Sound Demos in Order

1. Press DEMO.

The DEMO button will light up, and the SOUND buttons will begin flashing in order. If you do not select a demo within three seconds, the first sound demo begins playing automatically (#1 in the table above). After completing the first demo, the second demo will play, then the third, and so on. After completing the eighth demo, the piano goes back and starts again from the first. While each demo is playing, the corresponding SOUND button is lit on the piano.



2. To stop the demo playback, press DEMO once again.

The DEMO button and the SOUND button will both go dark, demo playback will stop, and the piano automatically changes to the PIANO 1 sound. (The PIANO 1 button lights up to show that PIANO 1 is selected.). The bank will remain the same as before you entered DEMO mode.

■ Selecting a Specific Sound Demo

1. Press DEMO.

The DEMO button lights up, and the SOUND buttons begin flashing in order.

2. Press the SOUND button corresponding to the demo that you want to hear. (Refer to the list on the previous page.)

The selected button will light up, and the demo will begin to play. When the piano finishes playing the selected demo, it automatically plays the next demo, and then continues to cycle through all demos in order.

If you do not select a demo within three seconds, the piano automatically begins playing all the demos in order starting from #1.

3. To select a different sound demo while demo playback is already in progress, press the corresponding SOUND button.

If you are listening to sound demo #1 and decide that you would rather listen to sound demo #8, for example, just press the STRINGS/CHOIR button. This button lights up and demo #8 begins playing.



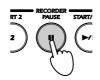
4. To stop the demo playback, press DEMO once again.

The DEMO button and the SOUND button will both go dark, and the piano will exit the demo mode.

■ Pausing the Demo Playback (NC-500 only)

1. Press PAUSE while demo play is in progress.

The PAUSE button will light up and the demo playback will pause.



2. To resume playback, press PAUSE again.

The PAUSE button will go dark and the demo playback will resume.

■ Using START/STOP to Stop the Demo Playback (NC-500 only)

1. If you press START/STOP while a demo is playing: playback stops.

The DEMO button remains lit. If you now wish to exit song playback mode and return to normal operation, press the DEMO button so that the button goes dark.



2. Press START/STOP again to restart the song from the beginning.

Listening to Piano Songs

Piano Songs

[No.	Key	Title	Composer
C1			1	A0	"Prelude" The Well-Tempered Clavier,Book 1	J.S.Bach
0.			2	A#0	Invention No.1	J.S.Bach
Ī			3	В0	Jesu,Joy of Man's Desiring	J.S.Bach
İ			4	C1	Sonata K.545	W.A.Mozart
C2			5	C#1	"Turkish March" Sonana K.331	W.A.Mozart
			6	D1	For Elise	L.v.Beethoven
			7	D#1	Piano Sonate Op.13-2	L.v.Beethoven
СЗ			8	E1	A Maiden's Prayer	T.Badarzewska
			9	F1	"Arabesque" Op.100-2	F.Burgmuller
			10	F#1	"La styrienne" Op.100-14	F.Burgmuller
			11	G1	"La chevaleresque" Op.100-25	F.Burgmuller
C4	-		12	G#1	Springs Song Op.62-6	F.Mendelssohn
			13	A1	"Träumerei" Op.15-7	R.Schumann
			14	A#1	Heidenroslein	G.Lange
C5			15	B1	Spinning Song	A.Ellmenreich
			16	C2	Dolly's Dreaming and Awakening	T.Oesten
	}		17	C#2	La fille aux cheveux de lin	C.Debussy
			18	D2	Arabesque No.1	C.Debussy
C6			19	D#2	"Prelude" Suite Bergamasque	C.Debussy
			20	E2	Golliwog's Cake walk	C.Debussy
			21	F2	Claire de lune	C.Debussy
C7	1	$oldsymbol{\top}$	22	F#2	Walz No.6 Db-major Op.64-1	F.Chopin
	1		23	G2	Walz No.7 E-minor Op.64-2	F.Chopin
		$-$ \bullet	24	G#2	Nocturne Op.9-2	F.Chopin
00	1		25	A2	Mazurka Op.7-1	F.Chopin
C8 l			26	A#2	Fantaisie-Impromptu Op.66	F.Chopin
	iL		27	B2	Etude Op.10-3	F.Chopin
	1		28	C3	Etude Op.25-3	F.Chopin
	<u> </u>		29	C#3	"Promenade" Tableaux d'une exposition	M.P.Moussorgsky
			30	D3	Gymnopedie No.1	E.Satie
			31	D#3	Je Te Veux	E.Satie
			32	E3	Salut d'Amour	E.Elgar

 $^{\text{MeMO}}$ The Piano scores (sheet music) for these songs are included with your NC- 500/NC-300 piano.

■ Listening to All the Piano Songs in Order

1. Press PIANO SONG.

The PIANO SONG button lights up, and the SOUND buttons begin flashing in order. If you do not select a song within three seconds, the piano automatically begins playing through the songs in order, starting with piano song #1, continuing to piano song #32, and then restarting again at #1.



2. To stop song play, press PIANO SONG once again.

The PIANO SONG button goes dark and playback stops. The piano automatically sets the sound to the PIANO 1 sound of the bank that was selected just before you started song play. You can now proceed to play normally.

■ Selecting a Specific Piano Song

1. Hold down PIANO SONG, and press a key from A0 to E3.

Each of these keys corresponds to a different piano song, as shown in the table on the preceding page. When you press the key, the piano begins playing the corresponding song. Once song play is in progress, you can switch to a different song by pressing holding down PIANO SONG and pressing another key.



2. To stop the song playback, press PIANO SONG once again.

The PIANO SONG goes dark and the piano exits song-play mode.

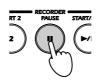
You can use the keyboard to play along in the same sound while the song is playing, and you can use the SOUND buttons to change sounds as the song plays back.

You cannot change the effect settings (chorus or reverb settings) while the song is playing.

■ Pausing the Song Playback (NC-500 only)

1. Press PAUSE while the song is playing back.

The PAUSE button lights up and playback pauses.



2. To resume playback, press PAUSE again.

The PAUSE button goes dark and song play resumes.

■ Using START/STOP to Stop and Restart Song Play(NC-500 only)

1. If you press START/STOP while the song is playing: playback stops. The PIANO SONG button remains lit. If you now wish to exit song playback mode and return to normal operation, press the PIANO SONG button so that the button goes dark.



2. Press START/STOP again to restart the song from the beginning.

■ Changing the Tempo

1. To adjust the tempo, turn the TEMPO knob while the song is playing or paused.



Playing Along with a Piano Song for Practice (NC-500 only)

■ Practicing the Left Hand Part or the Right Hand Part

When a piano song is playing, you can lower the volume of either the right-hand part or the left-hand part, and then play that part yourself as the song plays back.

- 1. Select a piano song.
- 2. To lower the volume of the left-hand part, press PART 1. To lower the volume of the right-hand part, press PART 2.

The pressed PART button begins flashing and the volume of the part is lowered. You can now practice playing along with the song.

Lowers the volume of the left-hand part.

Lowers the volume of the right-hand part.

To return the volume to normal, press the flashing PART button again.

To adjust the volume of the lowered part while playback is in progress: Hold down the TOUCH switch and press HARPSI/VIBES several times as desired to reduce the volume, or STRINGS/CHOIR several times as desired to raise the volume.

Playing the Instrument

Selecting a Sound (Single Mode)

Your digital piano offers you a choice of 24 high-quality sounds arranged in three banks, each containing eight sounds, as shown in the chart below. Each time the BANK button is pressed, it will change color to show the currently selected bank

1. Press one of the SOUND buttons.

The button lights up.

2. Press the BANK button as necessary.

Select one of the three banks. The currently selected bank is indicated by the color of the BANK button: red, green, or orange.

Example. To select the Mellow Piano sound: press PIANO 2 to select the sound type (so that the PIANO 2 button light up), and then press BANK twice so that it lights up orange, indicating that you have selected Bank C.

The piano memorizes the last bank selection for each SOUND button. These bank selections remain in effect until you change them or until you turn the power off.

When you turn the piano off, all SOUND buttons reset to Bank A.

Sound List

Sound switch (Bank color)	Bank A (Red)	Osc#*	Bank B (Green)	Osc#*	Bank C (Orange)	Osc#
PIANO 1	Grand Piano 1	2	Standard Piano	1	Honky Tonk Piano	2
PIANO 2	Grand Piano 2	2	Bright Piano	1	Mellow Piano	1
E.PIANO 1	E. Piano 1	1	Soft E.P.	1	Clavi	1
E.PIANO 2	E. Piano 2	1	Vintage E.P.	1	E.P. Pad	2
ORGAN 1	Jazz Organ 1	2	Jazz Organ 2	2	Jazz Organ 3	2
ORGAN 2	Church Organ 1	3	Church Organ 2	1	Church Organ 3	1
HARPSI/VIBE	Harpsichord 1	1	Harpsichord 2	2	Vibraphone	1
STRINGS/CHOIR	Strings	1	Slow Strings	2	Choir	1

^{*}Indicates the number of oscillators used to produce the voice. Refer also to page 48, "Maximum Polyphony."

Combining Two Sounds (Layered Mode)

Layered mode lets you combine two sounds and play them at the same time from the keyboard.

1. Simultaneously press the two SOUND buttons corresponding to the sounds that you wish to use.

The SOUND buttons light up and the two sounds will now play in combination.

The banks used are as previously selected during Single mode. If you wish to select a specific bank for each sound, select the bank for each sound while in the Single mode.

Example. To combine Grand Piano 2 (PIANO 2, Bank A) and Jazz Organ 2 (ORGAN 1, Bank B): Press PIANO 2 and then press the BANK button so that it lights up red, setting the PIANO 2 sound to Grand Piano 2. Next, press ORGAN 1 and then press the BANK button so that it lights up green, setting the ORGAN 1 sound to Jazz Organ 2. Then press PIANO 2 and ORGAN 1 at the same time to enter Layered mode.

Use of Layered Mode reduces the maximum available polyphony in accordance with the total number of oscillators used by two sounds. For infomation, see "Maximum Polyphony" on page 48.

It is not possible to combine two sounds assigned to the same SOUND button. For example, it is not possible to combine Grand Piano 1 and Standard Piano, since both of these sounds are assigned to the same PIANO 1 button.

■ Adjusting the Volume Balance of the Layered Sounds

 While holding down the SOUND button of the sound you wish to make relatively softer, press the SOUND button of the other sound (the one you want to make louder) several times in succession.

■ Returning to the Single Mode

1. Press any one of the SOUND buttons. The button lights up and the piano returns to single mode.

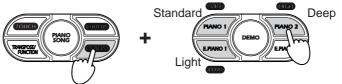
Using the Reverb and Chorus Effects

The piano offers two built-in effects: **reverb** and **chorus**. The reverb effect adds reverberation and depth, emulating the acoustic ambience of a concert hall. The chorus effect adds modulation that gives the sound a richer, fatter tone. The effect settings are stored separately for each sound.

To add a reverb, press REVERB. To add a chorus effect, press CHORUS.
 The corresponding buttons (REVERB and/or CHORUS) light up to indicate that the effect is selected.



2. You can set each effect to any of three different depths: Light, Standard, or Deep. To change the depth setting, hold down the corresponding effect button (REVERB or CHORUS) and press the appropriate SOUND button. Press E.PIANO 1 (LOW) to set the depth to Light, PIANO 1 (MID) to set the depth to Standard, or PIANO 2 (HIGH) to set the depth to Deep.

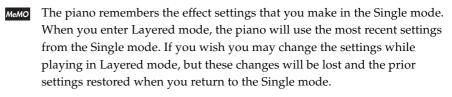


The above illustration shows how to set the reverb depth to High.

SOUND Button	Reverb Depth	Chorus Depth
E.PIANO 1 (LOW)	Light	Light
PIANO 1 (MID)	Standard	Standard
PIANO 2 (HIGH)	Deep	Deep

3. To turn the reverb or chorus effect off, press the REVERB button or CHORUS button.

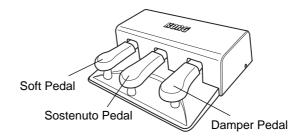
The button goes dark to indicate that the effect is off.



Use of these effects reduces the maximum available polyphony. For infomation, see "Maximum Polyphony" on page 48.

Using the Pedals

Your digital piano offers three pedals, just as on a conventional piano. Use these pedals to add expressiveness to your performances.



■ Damper Pedal

This pedal sustains the sound of the keys that you hit, so that the sound continues with a very slow decay after you release the key. Properly used, this pedal can add a rich, reverberant sound to your play. Push the pedal all the way down to get a strong sustain, or only part of the way down ("half pedaling") to get a partial sustain.

■ Sostenuto Pedal

This pedal produces the same type of sustain as the damper pedal, but operates only on the keys that are being held down at the moment you step down on the pedal. Keys that are played after the pedal is already down are not sustained. This pedal makes it possible to sustain some notes while other notes play normally.

■ Soft Pedal

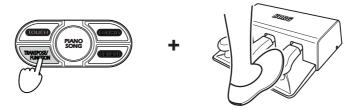
This pedal softens the sound. Push the pedal all the way down to get the full effect, or only part of the way down ("half-pedaling") to get partial softening.

■ Using the Damper Pedal While in Layered Mode

When playing in Layered mode, you can set the damper pedal to operate on either or both of the sounds. After entering Layered mode, proceed as follows to assign the pedal.

1. Hold down TRANSPOSE/FUNCTION and step on the damper pedal as while watching the SOUND buttons.

The SOUND buttons light up to indicate which sound(s) will be affected by the damper pedal. The setting changes each time you press the pedal: first one sound, then the other sound, then both sound.



2. When the appropriate button (or both buttons, if you want to apply the pedal to both sound) lights up, release the TRANSPOSE/ **FUNCTION** button.

MeMO The Pedal settings return to their factory defaults when the power goes off.

Using the Metronome

The piano includes a built-in metronome feature that you can use as an aid for practice. You can adjust the metronome's beat, tempo, volume, and accentuate the first beat as described below.

■ Turning the Metronome On and Off

1. To turn the metronome on, press the METRONOME button. The button lights up, and the metronome begins playing at the tempo selected by the TEMPO knob.



2. To turn the metronome off, press the METRONOME button again. The button goes dark and the metronome stops.

■ Adjusting the Volume of the Metronome

- 1. Press the METRONOME button to start the metronome.
- 2. Hold down the METRONOME button and press the HARPSI/VIBES repeatedly to lower the volume, or STRINGS/CHOIR repeatedly to raise the volume.



3. To return to the original metronome volume, hold down the METRONOME button and press HARPSI/VIBES and STRINGS/CHOIR at the same.

Button	Action
HARPSI/VIBES	Makes the metronome quieter.
STRINGS/CHOIR	Makes the metronome louder.

■ Changing the Tempo using the TEMPO Knob

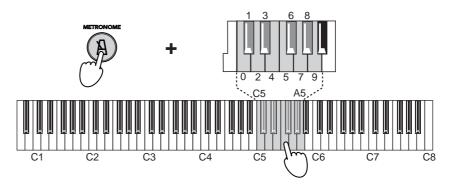
- 1. Press the METRONOME button to start the metronome.
- 2. Turn the TEMPO knob to adjust the tempo.

■ Changing the Tempo by Numerical Input

Although the TEMPO knob allows you to make a rough tempo setting, there may also be times when you want to use a more precise setting. You can enter a numerical setting using the keyboard, as described below. The available range is: (\rfloor =) 40 to 200.

1. Hold down the METRONOME button and enter the desired threedigit number by pressing keys between C5 and A5 in the correct sequence. (See the table on the next page.)

Always enter all three digits. If you are setting a value of 40 to 99, enter a 0 first. To set the tempo to 72, for example, enter "072".



Key	Digit	Key	Digit
C5	0	C#5	1
D5	2	D#5	3
E5	4	F5	5
F#5	6	G5	7
G#5	8	A5	9

Example: To set the tempo to 168, hold down the METRONOME button and press C#5 (1), then F#5 (6), and then G#5 (8).



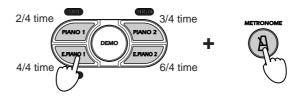
If you attempt to enter a value below 40 or above 200, the piano ignores the input and retains the previous tempo setting.

■ Setting the Meter

If you set a meter, the metronome will accent the first beat in each measure by playing a distinct accent sound.

SOUND Button	Meter
PIANO 1	Duple (2/4, 2/8,)
PIANO 2	Triple (3/4, 3/8,)
E. PIANO 1	Quadruple (4/4, 4/8,)
E. PIANO 2	Sextuple (6/4, 6/8,)

- 1. Press the METRONOME button to start the metronome.
- 2. Hold down the METRONOME button and press the appropriate SOUND button to select the meter.



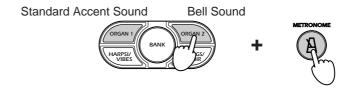
Now that you have selected the meter, the metronome will play an accent sound at the first beat of each measure. If you wish to turn the accent off (if you want all beats to sound the same), hold down the METRONOME button and press the illuminated SOUND button (the button you used to select the meter) so that the button goes dark.

When you hold down the METONOME button, the SOUND button corresponding to the selected meter lights up.

When you turn the power off, the meter setting is lost and the metronome returns to the unaccented mode.

■ Changing the Standard Accent Sound to a Bell Sound

1. Hold down the METRONOME button and press ORGAN 2. The ORGAN 2 button lights up to indicate that the bell accent is selected.



2. To reset to the standard accent sound: hold down the METRONOME button and press ORGAN 1.

The ORGAN 1 button lights up.

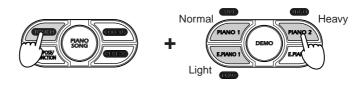
When you hold down the METONOME button, the ORGAN button corresponding to the selected accent sound (standard or bell) lights up.

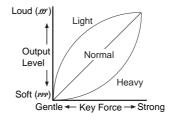
When you turn the power off, the metronome resets to the standard accent sound.

Setting the Keyboard Touch

You can set the keyboard sensitivity to three different levels: **light**, **normal**, and **heavy** to suit your own style of playing. The touch setting determines how the output volume changes in response to the force used to hit the keys. When you turn the power on, normal action is selected.

 Hold down TOUCH and press the appropriate SOUND button: E. PIANO 1 (LOW) to select light action, PIANO 1 (MID) to select normal action, or PIANO 2 (HIGH) to select heavy action. If you select light or heavy action, the TOUCH button lights up. If you select normal action, the TOUCH button goes dark.





SOUND Button	Touch Setting	
E. PIANO 1 (LOW)	Light (Loud sound even with relatively light key strikes.)	
PIANO 1 (MID)	Normal (Normal piano action.)	
PIANO 2 (HIGH)	Heavy (To get a loud sound, you must hit the key hard.)	

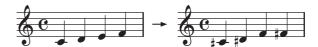
When you hold down the TOUCH button, the SOUND button corresponding to the selected touch lights up.

MeMo When you turn the power off, the touch setting returns to normal.

Transposing the Keyboard

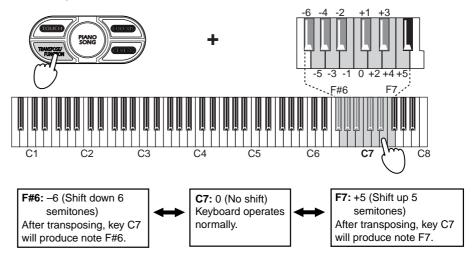
The transpose feature allows you to shift the pitch of the keyboard so that you can play in one key (such as the key of C) and have the sound come out in another key (such as the key of C#). This is useful if you want to avoid too many sharps and flats, or if you want to accompany someone in another key without changing the fingering that you are used to.

You can transpose (shift) over a range of 11 semitones. If you shift up by 1 semitone, for example, then when you play the keys shown at left you will produce the notes shown at right.



1. Hold down TRANSPOSE/FUNCTION and press a key from F#6 and F7 to transpose the keyboard as desired.

If you press a key other than C7, the TRANSPOSE/FUNCTION button lights up and the keyboard pitch shifts by the corresponding number of semitones, as indicated below. If you press C7, the button goes dark and the keyboard returns to its normal state.



2. To return the keyboard to its normal pitch, hold down TRANSPOSE/ FUNCTION and press key C7.

The TRANSPOSE/FUNCTION button goes dark.

The transposition setting is lost when you turn the power off.

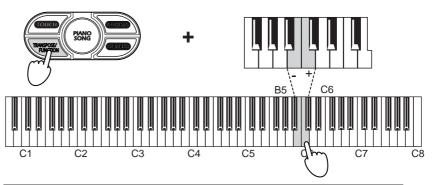
Adjusting the Pitch

This feature allows you to make fine adjustments to the piano's overall pitch, so that you can correct for small pitch differences when playing with other instruments.

The standard pitch (for the reference note A4) is 440Hz. You can use this feature to adjust up or down by as much as 12.5 Hz (from 427.5 Hz to 452. 5 Hz), in 0.5-Hz increments.

1. Hold down TRANSPOSE/FUNCTION and press key B5 or C6 as many times as necessary.

Each time you press B5 the pitch drops 0.5Hz. Each time you press C6, the pitch goes up 0.5Hz.



Key(s)	Pitch
B5	Each press drops the pitch by 0.5 Hz.
B5 + C6	Returns keyboard to normal pitch (A4=440 Hz).
C6	Each press raises the pitch by 0.5 Hz.

2. To return to normal pitch, hold down TRANSPOSE/FUNCTION and press B5 and C6 at the same time.

MeMo The pitch setting returns to normal (A4 = 440 Hz) when you turn the power off.

Selecting a Temperament

The tuning scheme used to arrange notes into a scale is referred to as a **temperament**. Early keyboards were tuned to temperaments that are no longer in common use, and many classical pieces were intended to be played in these temperaments. Your digital piano therefore offers two temperaments appropriate for these older pieces: the **Werckmeister temperament** and the **Kirnberger temperament**.

The piano's standard temperament is **equal temperament**, which is the temperament most widely used on keyboards today.

1. To select the Werckmeister or Kirnberger temperament, hold down TOUCH and press ORGAN 1 or ORGAN 2.

The selected button lights up.



To return to equal temperament, hold down TOUCH and press the illuminated ORGAN button (ORGAN 1 or ORGAN 2) so that both ORGAN buttons are dark.

When you hold down the TOUCH button, the SOUND button corresponding to the selected temperament lights up.

SOUND Button	Temperament
ORGAN 1 lit	Werckmeister: Uses the Werckmeister III scale proposed in the late Baroque period by organist and musicologist Andreas Werckmeister, with the intention of enabling relatively unrestricted play in multiple keys.
ORGAN 2 lit	Kirnberger: Uses the Kirnberger III scale proposed in the Johann Philip Kirnberger in the early 18th century. This temperament is mainly used for tuning harpsichords.
ORGAN 1 and 2 both dark	Equal temperament: The temperament used on almost all modern keyboard instruments. This temperament uses equal semitone increments, so that scales sound identical in all keys.

MeMO The setting returns to equal temperament when you turn the power off.

A Note About "Stretch Tuning"

To achieve a natural acoustic sound, modern acoustic pianos commonly use a modification of equal temperament called **stretch tuning**. In stretch tuning, the bass region is tuned flatter than with equal tuning, while the treble is tuned sharper. To more accurately reproduce the true piano experience, your digital piano uses stretch tuning with all of the six piano sounds shown in the table below.

Sound switch (Bank color)	Bank A (Red)	Bank B (Green)	Bank C (Orange)
PIANO 1	Grand Piano 1	Standard Piano	Honky Tonk Piano
PIANO 2	Grand Piano 2	Bright Piano	Mellow Piano

Recording and Replaying Your Performances (NC-500 only)

The NC-500's built-in recorder makes it easy to record and replay your performances. Operation is as easy and intuitive as using a conventional tape recorder.

The recorder lets you store performances for two **parts**. You can use these parts to record two completely unrelated pieces, or you may use them to separately record the left-hand and right-hand lines of a single piece. You can play the recorded parts back individually or in combination.

MeMo If you wish to keep a performance permanently, you can save the data using a commercially available data filer or commercially available sequencer

a commercially available data filer or commercially available sequencer software. For information, see "MIDI Data Dumps" on page 36.

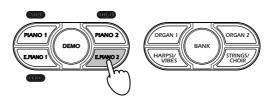
MeMO Recorded performance data is retained in memory even after power goes off.

When you start to record a part, all data previously stored for that part is erased.

Recording

■ To Record a Performance...

1. Use the BANK and SOUND buttons to select the sound you want to use for the recording.



2. Press the REC button.

The button lights up.



The PART 1 and PART 2 buttons will light to indicate each part's current recording status: each button is either lit solid, flashing, or off. If data is already recorded in the part, the corresponding button is lit solid.

3. Select the part you want to record by pressing the appropriate PART buttons. The buttons will flash.

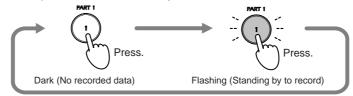
When recording in single-voice mode, press only one button. When recording in layered mode, press both buttons. Each part will be recorded with the sound currently selected for that part.



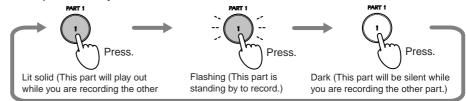
The selected button begins flashing, indicating that the part is standing by to start recording.

If you wish, you can now press the same button to change the state, as shown in the illustration on the next page.

If the part does not currently contain recorded data...



If the part already contains recorded data...



When using Single mode, you can only record to one part at a time. The piano will not let you set both parts into recording standby.

If you press the other PART button, that part will immediately enter recording-standby regardless of whether that part already contains data.

4. To start recording, do any of the following: press START/STOP, hit any key, or step on any pedal. Recording will also start if you press the appropriate SOUND buttons to select another sound.

If you use START/STOP to begin recording, the piano gives you a 2-measure count-in before starting to record. If you use any of the other methods, the piano starts recording immediately. The piano will also begin recording if it receives a MIDI message (p. 31) on the channel assigned to the part that is standing by to record.



The START/STOP button flashes in time with the beat while recording is in progress. You can change sounds during recording by pressing the appropriate SOUND buttons. The sound changes are included in the recorded data, and will be reproduced during playback.

If you are recording in Layered mode, note that any pedal actions you make during recording will be recorded for both sounds.

If you wish, you may use the metronome (p. 20) as a guide while recording.

5. To end the recording, press START/STOP.

The START/STOP button stops flashing and goes dark, and the piano saves the recorded data into memory. The recorder automatically returns the playback/record position to the first measure.



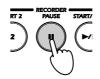
If you run low on memory during recording, the REC button will start flashing to alert you. The button starts flashing when you have used up 90% of memory; that is, when you have recorded more than 900 measures (the maximum is 999) or when remaining note capacity for a given part falls below 1,040.

Please do not turn the power off while recording is in progress.

■ To pause the recording...

You can pause your recording at any time. This feature is useful for recording a part a little at a time, etc.

1. If you want to pause the recording, press PAUSE. The PAUSE button lights up. The START/STOP button continues flashing.



- 2. To resume recording, first press the REC button, then press the PART button for the part you want to record. The button will flash. The part stands by to start recording.
- 3. To start recording, do any of the following: press START/STOP, press PAUSE, hit any key, or step on any pedal. Recording will also start if you press the appropriate SOUND buttons to select another sound. If you use START/STOP to begin recording, the piano gives you a 2-measure count-in before starting to record. If you use any of the other methods, the piano starts recording immediately. The piano will also begin recording if it receives a MIDI message (p. 31) on the channel assigned to the part that is standing by to record.



When you pause and then resume a recording, you may get a rough transition at the resume point. A good way to avoid this problem is to use the metronome when recording. With the metronome running, press the PAUSE button in sync with the beat at which you want to pause. When you resume, recording will begin again from that beat point.

Replaying

■ To Play a Recording...

1. Look at the the PART 1 and PART 2 buttons to see which parts have recorded data.

The button is dark if no recorded data is present. The button is lit solid if the part has been recorded.

If both parts are recorded but you only want to play one of the parts, press the PART button for the part you do not want to play, so that the button goes dark.

2. Press START/STOP to start playback.



The START/STOP button flashes in sync with the tempo as playback proceeds, with a long flash (eighth note) on the first beat in the measure and a shorter flash (sixteenth note) on the remaining beats. You can use the TEMPO knob (p. 16) to change the tempo while playback is in progress.

3. When you are ready to stop playback, press START/STOP again. Playback stops, and the playback position returns to the first measure. Press START/STOP again to restart the song from the beginning. If you wish to pause the playback, press the PAUSE button (so that the button lights up). To resume playback, press PAUSE again.



Playback stops automatically when it reaches the end of the recorded data. The START/STOP button goes dark, and the playback position returns to the first measure.

■ To Adjust the Volume Balance when Playing Two Parts...

 Begin playback of both parts, and then hold down the TOUCH button and press the PART button of the part that you want to make relatively louder. Press the button several times, if necessary.



2. To return to the original balance: Hold down the TOUCH button and press PART 1 and PART 2 at the same time.

■ Looping the Playback

You can set the piano to play the recorded performance repeatedly. The piano will play the performance to the end, and then loop back and start again from the beginning.

- **1. While playback is in progress, press TRANSPOSE/FUNCTION.**The TRANSPOSE/FUNCTION button flashes, and playback enters loop mode. Playback will continue looping until you stop it.
- 2. To stop playback, press START/STOP.

 The TRANSPOSE/FUNCTION button goes dark, playback stops, and loop mode is canceled.

Editing a recording

You can re-record over previously recorded data. You can also add extra recordings onto the end of your previous recordings.



You cannot add extra recordings from a point that does not store any recorded data. Please start recording from a point that overlaps your previous recording.

1. Press the START/STOP button.

The recorded data is replayed. For infomation, see "Replaying" on page 28.

2. When you reach the point at which you want to record, press the PAUSE button.

The playback pauses, and the PAUSE button flashes.

3. Press the REC button.

The button lights up.

4. Select the part you want to record by pressing the appropriate PART buttons. The buttons will flash.

The part stands by to start recording.

- 5. To start recording, do any of the following: press START/STOP, press PAUSE, hit any key, or step on any pedal. Recording will also start if you press the appropriate SOUND buttons to select another sound. If you use START/STOP to begin recording, the piano gives you a 2-measure count-in before starting to record. If you use any of the other methods, the piano starts recording immediately. The piano will also begin recording if it receives a MIDI message (p. 31) on the channel assigned to the part that is standing by to record.
- 6. To end the recording, press START/STOP.

The START/STOP button stops flashing and goes dark, and the piano saves the recorded data into memory. The recorder automatically returns the playback/record position to the first measure.

Erasing the Recording

■ To Erase a Recorded Part...

1. With playback stopped, hold down TRANSPOSE/FUNCTION and press the PART button of the part that you wish to erase.

The TRANSPOSE/FUNCTION button and the selected PART button both flash, indicating that the piano is waiting for you to confirm that you really want to erase the part.



If you change your mind and decide you do not want to erase the part, press TRANSPOSE/FUNCTION again to cancel.

2. To delete the part, press the same PART button. The recording is deleted, and the flashing buttons go dark.



If you wish to keep a performance permanently, you can save the data using a commercially available data filer or commercially available sequencer software. For information, see "MIDI Data Dumps" on page 36.

Checking the Amount of Recorded Data in Part 1 or Part 2

1. Press the PART button of the part you want to check, so that the button lights up. Then hold down the TRANPOSE/FUNCTION button and the START/SWITCH button at the same time, and look at how many SOUND buttons light up.



The quantity of recorded data is indicated by the number of SOUND buttons that light up: a greater number of lit buttons indicates a greater amount of stored data. The button lighting progresses in the order indicated below.



During recording, the REC button will begin flashing when you have used up 90% of available memory. If you continue until you have used up all memory, the piano automatically stops recording and exits recording mode. The PART buttons for the recorded parts stay lit, indicating that recorded data is present.

When both of the PART lamps are lit or when both are dark, the SOUND buttons will indicate the quantity of data in part 1.

MIDI

What is MIDI?

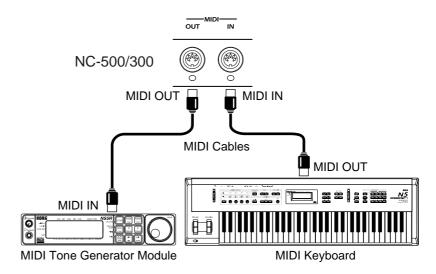
MIDI (for "Musical Instrument Digital Interface") is an internationally recognized standard that enables electronic instruments, computers, sequencers, and other such devices to communicate with one another. The MIDI standard supports transmission of various types of performance-related data.

■ How Can I Use It?

Your piano's MIDI capability allows you to control the piano from external devices, and to control external devices from the piano. You can connect the piano to sequencers and other MIDI devices to create and play complex ensemble performances.

Connections

MIDI devices communicate through commercially available MIDI cables. These cables connect to MIDI jacks on each device. Your piano is equipped with two MIDI jacks, a MIDI OUT jack and a MIDI IN jack.



MIDI IN

Receives MIDI information from external MIDI devices (keyboards, sequencers. etc.). This information can be used to control the piano in various ways: to play notes, to change sounds, to adjust effects, and so on. To make the connection: Connect one end of a MIDI cable to the MIDI IN jack on the piano, and the other end to the MIDI OUT jack of the relevant external MIDI device.

MIDI OUT

Transmits control information from the piano to external MIDI devices. For example, this connection makes it possible to use the piano's keyboard to play sound from a remote device. To make the connection: Connect one end of a MIDI cable to the MIDI OUT jack on the piano, and the other end to the MIDI IN jack of the relevant external MIDI device.

Default MIDI Settings

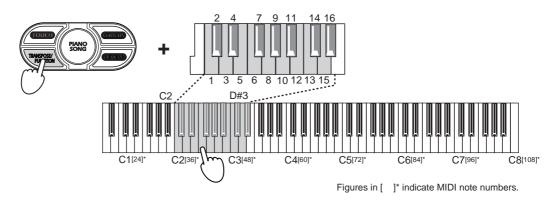
The piano's default MIDI settings are as follows. These settings are automatically restored each time you turn the power on.

Parameter	Setting
Send Channel	1
Receive Channels	1 to 16
Local	On
Omni	Off

Changing the MIDI Channel Setting

The MIDI standard provides 16 channels for communication among devices. When you first turn the piano on, the base channel is set to channel 1. If you wish, you can change this setting.

1. Hold down TRANSPOSE/FUNCTION and press a key from C2 to D#3 to set the channel assignment.



In Single mode, the selected sound is set to the base channel. In Layered mode, the sound with the lower program number is set to the base channel, while the other sound is set to the next channel up (base + 1). On the NC-500, the recorder's Part 1 is set to (base + 2), while Part 2 is set to (base + 3). For information about the program number assignments, refer to the table on page 34.

MIDI Channel Assignment

Key	Base/Single	Layered Sound	Part 1	Part 2
C2	1	2	3	4
C#2	2	3	4	5
D2	3	4	5	6
D#2	4	5	6	7
E2	5	6	7	8
F2	6	7	8	9
F#2	7	8	9	10
G2	8	9	10	11
G#2	9	10	11	12
A2	10	11	12	13
A#2	11	12	13	14
B2	12	13	14	15
C3	13	14	15	16
C#3	14	15	16	1
D3	15	16	1	2
D#3	16	1	2	3

Using the Piano as a Multitimbral Tone Generator

Your piano can also operate as a 16-part multitimbral tone generator. Connect a sequencer or similar MIDI control device to the piano, and then use that device to drive the piano's sound.

- Connect one end of a MIDI cable to the MIDI IN jack on the piano, and the other end to the MIDI OUT jack of the sequencer or other device that you will use to control the piano.
- 2. Transmit the performance data from the controlling device. (Refer to the controlling device's instruction manual.)

The piano will play the performance data sent by the control device. If you have not disabled Program Change, the piano will change sounds in accordance with the Program Change messages received from that device.

■ The Local On/Off Setting

The *Local* setting determines whether the piano keyboard produces sound (a) at both the piano and the external MIDI device, or (b) at the external device only. If Local is ON, then when you hit a key the piano will play the sound from its tone generator and will also send the sound to be played on the external device—so that you will hear the note played from both places. If Local is OFF, the piano will be silent and only the external device will play.

The typical setting is Local ON. You should set Local to OFF, however, if you wish to use the piano as a master keyboard to drive the voices provided by an external tone-generator module or external keyboard. Another time to set Local OFF is if you have connected a sequencer that is set to echo the data that it receives. In this case, setting Local to OFF will prevent the sound from playing twice: once when you hit the key and then again when the data is returned. To change the Local setting, proceed as follows.

1. Hold down TRANSPOSE/FUNCTON and press PIANO 1.



Pressing PIANO 1 toggles the Local setting On and Off.

"Local" Setting	PIANO 1 Lamp
ON	Lit
OFF	Dark

When you turn the power off, the Local setting returns to Off.

Program Change

MIDI *program change messages* are used to switch to different programs (different sounds or patches) on a remote MIDI device. Program changes make it possible for you to use the piano to switch among different setups on a remote MIDI device, or to use a remote MIDI device to select different sounds on the piano.

■ Sending a Program Change

When you change the sound on the piano, the piano also sends a program change message with the corresponding program number to the remote MIDI device, causing the program at that device to change accordingly.

1. Each sound on the piano corresponds to a different program number (0 to 23), as indicated in the table below.

■ Receiving a Program Change

When the remote MIDI devices sends the piano a program change message with a program number of 0 to 23, the piano switches to the corresponding sound, as indicated in the table below. If the received program number is 24 or higher, the piano leaves the current sound unchanged.

Program Numbers and Piano Sounds

PC#	SOUND Button	Bank	Sound
0	PIANO 1	А	Grand Piano 1
1		В	Standard Piano
2		С	Honky Tonk Piano
3	PIANO 2	Α	Grand Piano 2
4		В	Bright Piano
5		С	Mellow Piano
6	E. PIANO 1	А	E.Piano 1
7		В	Soft E.P.
8		С	Clavi
9	E. PIANO 2	Α	E.Piano 2
10		В	Vintage E.P.
11		С	E.P.Pad
12	ORGAN 1	Α	Jazz Organ 1
13		В	Jazz Organ 2
14		С	Jazz Organ 3
15	ORGAN 2	А	Church Organ 1
16		В	Church Organ 2
17		С	Church Organ 3
18	HARPSI/VIBE	А	Harpsichord 1
19		В	Harpsichord 2
20		С	Vibraphone
21	STRINGS/CHOIR	Α	Strings
22		В	Slow Strings
23		С	Choir

■ Enabling or Disabling Program Changes

If you wish, you can disable the program change feature. If the feature is disabled, the piano will neither accept nor transmit program changes. To disable or re-enable the setting, proceed as described below.

1. Hold down TRANSPOSE/FUNCTION and press PIANO 2.



Pressing PIANO 2 toggles the setting between Enabled and Disabled.

Setting	PIANO 2 lamp
Enabled	Lit
Disabled	Dark

eMO When you turn the power off, the setting returns to Enabled.

Control Change

MIDI *control change messages* are used to remotely control various switches and controls on an external MIDI device. This allows a remote MIDI device to control the piano's damper pedal, effects, and other such features, and it likewise allows the piano to control similar features at an external MIDI machine.

■ Enabling or Disabling Control Changes

You can disable or enable control changes as described below. If you set this to disabled, the piano will neither accept nor transmit control change messages.

1. Hold down TRANSPOSE/FUNCTION and press E. PIANO 1.



Pressing E. PIANO 1 toggles the setting between Enabled and Disabled.

Setting	PIANO 2 lamp
Enabled	Lit
Disabled	Dark

MeMo When you turn the power off, the setting returns to Enabled.

MIDI Data Dumps (NC-500 only)

You can use the MIDI data dump capability to save your recorded performances into a MIDI data filer or other external storage device. When you want to hear a saved performance again, you use this same feature to reload the data and settings back into the NC-500.

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To protect against accidental data loss, be sure to follow the instructions that come with your storage device.

■ Saving Data

- 1. Run a MIDI cable from the MIDI OUT connector on the piano to the MIDI IN connector on the data filer (or other storage device).
- 2. Set the data filer so that it is standing by to receive the MIDI data from the piano. (Refer to the data filer's instruction manual.)
- 3. On the piano, hold down TRANSPOSE/FUNCTION and press STRINGS/CHOIR.



The two buttons begin flashing, indicating that the piano is now standing by to transmit the data.

If you want to cancel at this time without sending the data: Press either TRANSPOSE/FUNCTION or STRINGS/CHOIR.

4. Press TOUCH.

The piano starts dumping the data into the data filer. When the transfer is completed, the flashing TRANSPOSE/FUNCTION and STRINGS/CHOIR go dark and the piano returns to normal operating mode.



Please don't touch any of the piano's buttons or controls while data transfer is in progress.



The piano keyboard is disabled (the piano will not produce any sound) during standby and transmission.

■ Reloading the Saved Data

- 1. Run a MIDI cable from the MIDI IN connector on the piano to the MIDI OUT connector on the data filer or (or other storage device) where the saved data is stored.
- 2. On the piano, hold down TRANSPOSE/FUNCTION and press STRINGS/CHOIR.

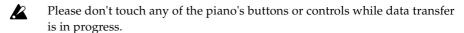


The two buttons begin flashing, indicating that the piano is now standing by to receive the data.

If you want to cancel at this time without transferring the data: Press either TRANSPOSE/FUNCTION or STRINGS/CHOIR.

- 3. Go to the data filer and carry out the operations required to start transfer of the saved data to the piano. (Refer to the data filer's instruction manual.)
- 4. The piano receives the data.

When the transfer is completed, the flashing TRANSPOSE/FUNCTION and STRINGS/CHOIR go dark and the piano returns to normal operating mode.



The piano keyboard is disabled (the piano will not produce any sound) during standby and transmission.

Connecting to a Computer by USB (NC-500 only)

What is USB?

The USB (Universal Serial Bus) is an interface for connecting computers to peripheral devices. The NC-500 includes a USB connector that can be connected directly to your computer. You can use this connection to save important performance data to your computer. If you run appropriate sequencer software on the computer, you can also use this connection to play the NC-500 from your computer or to record from the NC-500 directly into your computer.



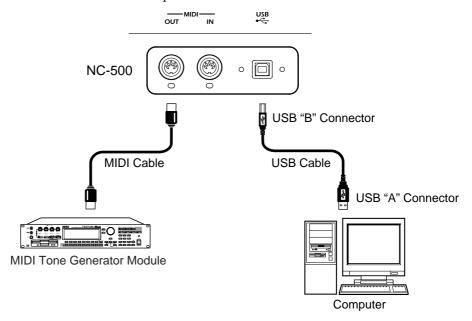
The NC-500 maintains its data in a proprietary, non-compatible format. It is not possible to edit or replay this data at a computer or other playback device. To replay the data, please reload it into the NC-500.



The USB connection works with a computer only. It is not possible to connect the NC-5000 to USB peripherals such as hard disks and CD-R/RW drives.

Making the USB Connection

Make the connection using a commercially available USB cable. A USB connector has differently shaped connectors at each end: an "A" connector at one end and a "B" connector at the other. Connect the "B" connector to the NC-500, and then connect the "A" connector to your computer. Note that the USB standard supports hot swapping, which means that you can connect the NC-500 to your computer while your computer is running, with no need to restart the computer.



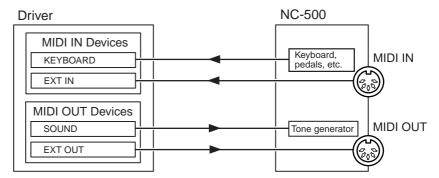
You can use the NC-500 itself as a USB MIDI interface. Connect the USB to a computer and the MIDI OUT jack to a MIDI tone generator. The computer and tone generator can then communicate via the NC-500.



If the USB is connected, the piano's MIDI OUT will output only the data coming from the USB. It will not output any MIDI information (keyboard action and MIDI messages) generated by the piano itself.

Driver Ports for the NC-500 USB MIDI Interface

The driver side (computer side) implements a 2-in/2-out port configuration for the NC-500's USB MIDI interface.



■ MIDI IN Devices

KEYBOARD

This port receives the MIDI messages generated by the piano; that is, the messages generated when you play the piano's keyboard and using it's pedals and control buttons. If you want to use the piano to control an application running on the computer, select this port as the application's remote MIDI input.

EXT IN

This port receives the MIDI messages that are input to the NC-500's MIDI IN connector. If you want to use the NC-500 as a USB MIDI interface for relaying MIDI messages from an external sequencer to an application on the computer, then select this port as the application's remote MIDI input.

■ MIDI OUT Devices

SOUND

Sends MIDI messages generated by the computer's software to the NC-500.

EXT OUT

Passes MIDI message generated by the computer's software directly to the MIDI OUT connector on the NC-500. These messages exit from the NC-500's MIDI OUT connector without having any effect on the NC-500 itself. If you want to use the NC-500 as a USB MIDI interface for relaying MIDI messages from an application to a remote MIDI device connected to the NC-500's MIDI OUT connector, set the application's output port to this setting.

Operation of the NC-500's MIDI Connectors

■ If the NC-500 is not connected to a computer by USB

MIDI IN

Receives MIDI messages and sends these to the NC-500's internal tone generator.

MIDI OUT

Outputs MIDI messages generated by playing the NC-500 keyboard and using the NC-500's pedals and control buttons.

■ If the NC-500 is connected to a computer by USB

MIDI IN

The messages received at this connector are relayed without change to the EXT IN port.

MIDI OUT

The messages output from the EXT OUT port are sent directly out through this connector. Note that in this case the NC-500 does not send out any MIDI messages from its own keyboard, pedals, or control buttons.

Installing and Setting the Korg USB MIDI Driver

On Windows XP

Your piano includes a dedicated USB MIDI driver for Windows XP. If you are running XP, you can install this driver on your computer. The first time you connect the NC-500 to your computer's USB port, Windows will automatically install its own default USB MIDI driver. To replace the default driver with the included KORG USB MIDI Driver for Windows XP, proceed as described follows.

Use of this product's software is governed by the software license agreement included in the product's package. Please read this agreement before installing the software. Installation of the software indicates that you have accepted the terms of this agreement.

Please do not attempt to play the included CD-ROM on a conventional audio player, as doing so may damage the speakers. If using headphones, be aware that loud volumes may cause damage to ears.

The "Korg USB MIDI Driver for Windows XP" is for Windows XP platforms only. This driver cannot be used with Windows 95, Windows 98, Windows Me, or Windows 2000.

■ Installing the Driver on Windows XP

You require Administrator privilege to install or uninstall the driver. This means that you must log in to Windows XP as a member of the Administrator group. If you do not have Administrator privilege, please talk to the site administrator.

Please set Windows XP so that it will allow you to install the driver even though the driver does not have a digital signature. For information, refer to page 45, "Disabling the Requirement for a Digital Signature."

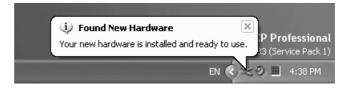
Each installation is effective only for a single specific USB port on the computer. If sometime after installing the driver you connect the NC-500 to a different USB port on the computer, you will need to install the driver again (repeating the procedure given below) for this other USB port.

1. Turn on the NC-500 power, and connect the NC-500 and the computer by USB cable.

Windows detects the connection...



...and automatically installs the default driver.



Administrator privilege is required to install or uninstall the driver on Windows XP. For information, consult your system administrator.

2. Click the taskbar's Start button to open the Start menu. In the menu, click on Control Panel. In the Control Panel, double-click on Sounds and Audio Devices to open the Sounds and Audio Devices Properties dialog. Click the dialog's Hardware tab. In the device list, click once on USB Audio Devices, so that it is highlighted. Then look directly under the list pane and confirm that KORG DIGITAL PIANO appears next to the Location: heading. Then click the dialog's Properties button.



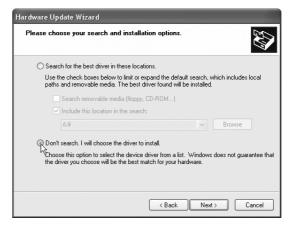
3. The **USB Audio Device Properties** dialog now opens. Click the **Driver** tab, and then click the **Update Driver...** button.



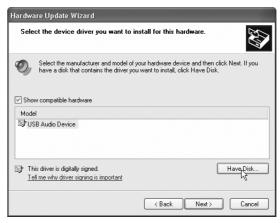
4. The Hardware Update Wizard now opens. Click Install from a list or specific location [Advanced], and then click the Next button.



5. The dialog now asks you to select search options. Click on **Don't search**. I will choose the driver to install. Then click the **Next** button again.



6. The dialog now asks you to select the device driver to be installed. Click on **Have Disk...**, and then click the **Next** button.



7. Insert the CD-ROM that came with the NC-500 into your computer's CD-ROM drive. Where the dialog says **Copy manufacturer's files from:**, write in **D:\Driver** (assuming that your CD-ROM drive is Drive D).



If the CD-ROM drive on your computer is not drive D, then replace the "D" above with the appropriate drive letter. If the CD-ROM drive's name is "E", for example, then enter $E:\Drive$.

8. Be sure that **Model** is identified as **KORG Digital Piano**, and then click **Next** to start the installation of the driver.



9. If the warning shown below appears after you have started the installation, click **Continue Anyway**.



10. When installation is completed, the dialog shown below appears. Click the **Finish** button to conclude. If the computer displays a dialog asking you whether to restart Windows, select **Yes**.

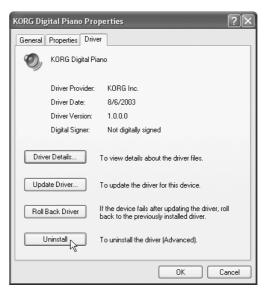


■ Uninstalling the Korg USB MIDI Driver for Windows XP

Click the taskbar's Start button to open the Start menu. In the menu, click on Control Panel. In the Control Panel, double-click on Sounds and Audio Devices to open the Sounds and Audio Devices
 Properties dialog. Click the dialog's Hardware tab. In the device list, select KORG Digital Piano, and then click the Properties button.



2. In the **KORG Digital Piano Properties** dialog, click the **Driver** tab and then click the **Uninstall** button.



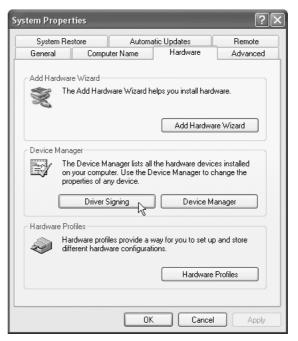
3. A confirmation dialog now appears. Click **OK** to proceed with the uninstall.



■ Disabling the Requirement for a Digital Signature

If your Windows XP system is set to block installation of driver software that does not carry a recognized digital signature, it will not allow you to install the Korg USB MIDI Driver for Windows XP. Use the following procedure to disable this requirement so that you can install the driver.

 Click the taskbar's Start button to open the Start menu. In the menu, click on Control Panel. In the Control Panel, double-click on System to open the System Properties dialog. Click on the dialog's Hardware tab, and then click the Driver Signing button.



2. A dialog opens and asks you What actions do you want Windows to take? Select either Ignore or Warn, and then click OK. You can then proceed to install the Korg driver. After installing the driver you may, if you wish, go back to the dialog and change the setting back to Block.



On Mac OS X

If connecting the piano to a computer running Mac OS X, use the operating system's default MIDI driver.

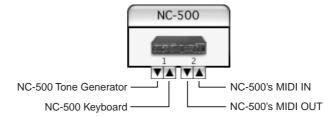
The Mac OS X version must be 10.2 or higher.

- **1.** Connect the NC-500 to the computer with a USB cable.
- **2.** Turn on the power to the NC-500.
- **3.** Open the Applications folder and then the Utilities folder, and double-click **Audio MIDI Setup**.
- **4.** Click the **MIDI Devices** tab, and confirm that the NC-500 appears.



■ Port Configuration on Mac OS X's Default MIDI Driver

Port 1 at the driver (the computer) corresponds to the NC-500's KEYBOARD and SOUND (tone generator), while Port 2 corresponds to the NC-500's MIDI IN and MIDI OUT. For infomation, see "Driver Ports for the NC-500 USB MIDI Interface" on page 39.



■ Input Settings for Applications

If you are using NC-500 to control a DAW application and you want the application to receive MIDI messages from the NC-500 keyboard and controllers, set the application's input port to Port 1.

NC-500 Name		Names Displayed by Application		
KEYBOARD		(MIDI input settings:) Port 1		
Input	EXT IN	(MIDI input settings:) Port 2		
Output	SOUND	(MIDI output settings:) Port 1		
Output	EXT OUT	(MIDI output settings:) Port 2		

Troubleshooting

If the piano does not seem to be working correctly, please go through the following list to see if you can identify and correct the problem. If you are unable to solve the problem after going through this list, please call your dealer or Korg service for advice.

■ Pian	o doesn't turn on
	Check that the power cord is correctly connected to a piano and a
_	properly functioning power outlet. (pp. 51, 53)
	Be sure that the POWER switch is turned on. (prop. 9)
■ No s	ound
	Be sure that the VOLUME knob is set higher than "0". Setting the
	volume to "0" turns off the sound. (pr p. 10)
	Is a plug inserted in either of the headphone jacks? Insertion of a plug
	into the jack cuts off the sound to the piano's speakers. (pp. 10)
	Check the MIDI Local setting. If the setting is Off, turn it to On. (party)
NC-	.500 only If you are trying to play back from the recorder, be sure that the selected
_	part has been set up to play back. (pg p. 28)
	If you are trying to play back from the recorder, be sure that selected
	part contains recorded data. (pp. 28)
	Be sure that the SPEAKER switch is in the ON position. (pp. 8)
■ N	otes are dropping out or being cut off before playing
	completion
	You are exceeding the piano's polyphony limit. See "Maximum
	Polyphony" on the next page.
pi	piano sound seems to sound slightly odd or out of tch over a certain range of the keyboard The digital piano sounds have been designed to produce a true acoustic piano sound. This means that you may sometimes perceive variations in
	sound characteristics (timbre, overtone strength, etc.) at different pitches or ranges of the keyboard. This is not a malfunction.
■ Can'	t record (NC-500 only)
	Check that the recorder has enough free memory left. (pg p. 30)
■ Exte	rnal MIDI device does not respond to MIDI data sent
	the piano
	Be sure that the MIDI cable is correctly connected. (PP p. 31)
	Be sure that the piano's MIDI send channel matches the external
	device's MIDI receive channel. (🎉 p. 32)
■ Can	't install the USB-MIDI driver for Windows XP(NC-500
	with Windows XP)
_	Be sure that the USB cable is correctly connected. (pp. 38)
	Be sure that CD-ROM that came with the piano is inserted in your computer's CD drive.
	The lens on your CD drive may be dirty. If necessary, use a commercially
_	available lens cleaner to clean the lens.
	Are you trying to install from a networked CD drive? It is not possible to install the driver over a network connection.

- ☐ Be sure that your computer's USB capability is enabled. If you are using Windows XP: Open the Control Panel, click on **System**, click on the **Hardware** tab, double-click the **Device Manager** button, select **Universal Serial Bus controllers**, and check **USB Root Hub**.
- □ It is possible that the computer has not correctly recognized the NC-500. Go into the Device Manager (as described directly above) and check that the NC-500 has been recognized. If the NC-500 is listed under **Other Devices** and/or is identified as an **Unknown Device**, then the computer has not recognized it. If, after reconnecting the USB cable, the **Unknown Device** entry appears, the computer has not correctly recognized the NC-500. Delete the **Unknown Device** entry and then reinstall the driver (property 40).

■ Software doesn't respond

- ☐ Be sure that the USB cable is correctly connected. (♠ p. 38)
- ☐ Be sure that the driver is installed.
- ☐ Check that the computer is correctly recognizing the NC-500. On Windows XP: Open the Control Manager, double-click on **Sounds** and Audio Devices, click on the **Hardware** tab, and check that the piano is correctly indicated.

On Max OS X: Open Macintosh HD — Applications folder – Utilities folder, double-click **Audio MIDI Setup**, click the **MIDI Devices** tab, and confirm that the NC-500 appears correctly.



Please be aware that there are some computer hardware environments under which the computer may be unable to recognize this device by USB connection.

- ☐ Check the NC-500 assignment settings and the USB MIDI port settings. (♠ p. 46)
- ☐ Your software or other connected devices may not support the features offered by the NC-500. Please check the documentation for your software and devices.

Maximum Polyphony

Maximum polyphony is the maximum number of notes that the piano is capable of producing at a single time. If you try to play more than this limit, the piano automatically switches off older notes so that it can sound the newer notes. If you exceed the limit, therefore, you may notice that sounds are dropping out or being cut off.

The maximum available polyphony varies according to the number of oscillators and effects used to produce the sound. The piano generates each sound using either one or two oscillators. Maximum available polyphony for 1-oscillator sounds (such as the HARPSI/VIBES sounds) is 60 notes, while maximum polyphony for 2-oscillator sounds (such as Grand Piano 1 [PIANO 1, Bank A] and Grand Piano 2 [PIANO 2, Bank A]) is 30 notes. The reverb effect, when used, counts as ten 1-oscillator notes, while the chorus counts as three. You can roughly calculate the maximum polyphony from the following formula.

Maximum polyphony = $(60 - \text{effect "notes"}) \div \text{oscillators}$

Example 1: For Grand Piano 1 (PIANO 1, Bank A), with reverb ON. $(60-10) \div 2 = 25$, so maximum polyphony is 25.

Example 2: For Vintage E. P. (E. PIANO 2, Bank B), with chorus ON. $(60-3) \div 1 = 57$, so maximum polyphony is 57.

When using Layered mode (playing two sounds at the same time) together with the damper pedal and effects, choose sounds carefully with due consideration to polyphony limits. For a listing of the number of oscillators used for each sound, refer to the table in "Selecting a sound (Single Mode)" on page 17.

Specifications

	NC-500	NC-300			
Keyboard	88 keys (A0 to C8), RH2 (Real Weighted Hammer Action 2) keyboard				
Touch Control	Light, Normal, Heavy				
Keyboard Pitch	Transposition, Fine Tuning				
Temperaments	Equal, Kirnberger, Werckmeister				
Tone Generator	Stereo sampling				
Polyphony	60 (Maximum)				
Sounds	24 (3 banks of 8)				
Effects	Reverb, Chorus (3 depths each)				
Demo Songs	8 sound demos, 32 piano songs				
Metronome	Tempo, Beat, Accent, Volume				
Recorder	2 parts; 10,400 notes/part; 20,800 notes (max.); Record; Start/Stop; Pause	Not included			
Pedals	Damper, Soft, Sostenuto (Damper an	d Soft with half-pedaling)			
Connectors	OUTPUTs (L/MONO, R); INPUT (Mini stereo); MIDI IN; MIDI OUT; USB; 2 headphone jacks; PEDAL jack; SPEAKER jack	OUTPUTs (L/MONO, R); MIDI IN; MIDI OUT; 2 headphone jacks; PEDAL jack			
Controls	POWER switch, Master volume, REVERB, CHORUS, TOUCH, TRANSPOSE/FUNCTION, BANK, 8 sound buttons, TEMPO, METRONOME, DEMO; PIANO SONG				
Speaker On/Off	Yes	No			
Amp Output	20 W × 2	15 W × 2			
Speakers	13 cm × 2; 3.5 cm × 2	10 cm × 2 (bass-reflex type)			
Power	120 V / 51 W 220 V / 49 W	120 V / 44 W 220 V / 41 W			
Dimensions (W × D × H)	1426 × 436 × 817 mm / 56.14 × 17.17 × 32.17 ins.	1426 × 436 × 780 mm / 56.14 × 17.17 × 30.71 ins.			
Weight (including stand and pedal unit)	47.3 kg / 104.28 lbs.	41.3 kg / 91.05 lbs.			
Available Colors	Brown, Dark Brown, Snow white Brown, Dark Brown				
Key Cover	Yes No				
Included Accessories	Dedicated pedal unit, pedal cord, power cord, music book, CD-ROM (KORG USB MIDI-Driver for Windows XP)	Dedicated pedal unit, pedal cord, power cord, music book			

Specifications are subject to change without notice for purpose of product improvement. MIDI is a registered trademark of the Association of Manufacturers of Electronic Instruments (AMEI). Sound processed with INFINITYTM.

Assembling the NC-500 Piano Stand

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Marning

Assembly must be carried out by at least two persons.

Precautions

To ensure saf e and correct assemb ly, please obser ve the following precautions.

- ☐ Be sure to use the correct parts at each step, be sure that parts are oriented correctly, and be sure to follow the steps in the order given below.
- ☐ When lowering the piano body onto the stand, position hands carefull y so that hands don't g et caught between the body and the stand.
- After setting the body in place on the stand: Do not press or lean hea vily on the front side of the piano bod y until you have securely fastened it to the stand. The body may fall from the stand if you lean or press in the wrong place.

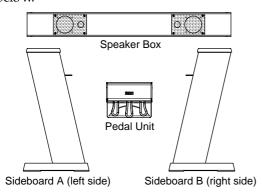
What You Will Need...

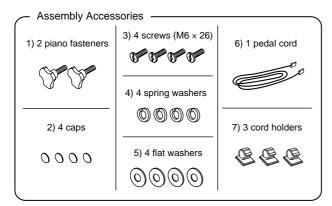
You will need a Phillips (cr osshead) scre wdriver.



Assembly Procedure

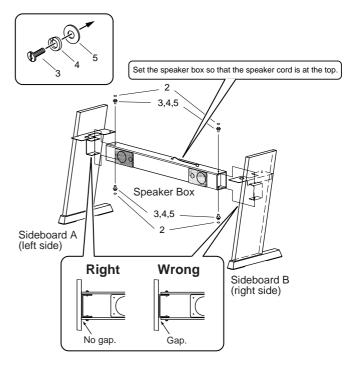
Open the bα and take out the contents
 Be sure that y ou ha ve all of the items sho wn belo w.





2. Assemble the sideboards and speadr box.

Fit the ends of the speaker box into the metal fittings on the two sideboards, lining up the screw holes at both sides. Be sure that each end of the box is flush against the corresponding sideboard, with no gap. Then take the four screws (3), set a spring washer (4) and then a flat washer (5) onto each of these screws, and use the screws (two for each sideboard) to fasten the sideboards to the speaker box. Cover the top of each screw with a cap(2).

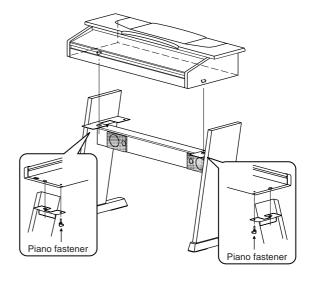


Mount the piano on the assemed stand, and fasten it into place

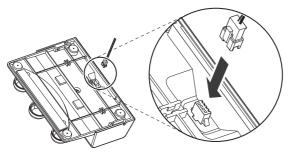
Set the piano so that the plastic feet on the piano body fit into the holes in the metal fittings of the sideboards. Then fasten the piano body into place from the bottom with the two piano fasteners(1).



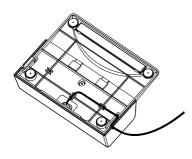
Set the piano into place slowly and carefully, taking care not to drop it. When lowering the piano, position hands carefully so that they don't become caught between the piano and the stand.



4. Connect the pedal cord(6) to the connector on the underside of the pedal unit.



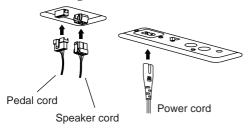
 Run the cord along the reprove on the underside of the pedal unit as illustred below. Be sure that the cord is oriented correctly Push the cord into the groove so that it is fixed in place



6. Plug the pedal cord and the speak cord into the corresponding solvets on the underside of the piano Connect the power cord to the piano's (A IN connector

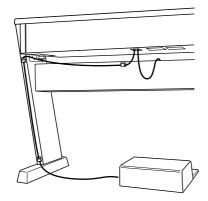


Be sure that connectors are oriented correctly when making connections.



7. Attach the cord holders (7), and then secure the pedal cord into the holders

Cord holders (example)



Checking the Finished Assembly

- ☐ Are any parts left over?

 If any parts are left, refer to the assembly diagram to see where they should go, and then assemble them into place.
- ☐ Be sure that all screws and fasteners are tight.

Maintenance, Transport, and Disassembly

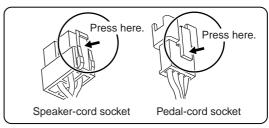
Periodically check the assembled stand, and obser ve the following precautions.

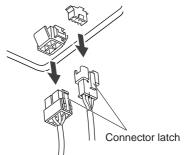
- ☐ Periodically chek all screws and fasteners

 Scre ws and fastener s may loosen with time.

 Periodically check to confirm that no scre ws or fastener s are loose. If the stand seems to shake more than usual, check scre ws and fastener s immediately and tighten as necessar y.
- ☐ **To move the piano...**Remo ve the piano fr om the stand, then mo ve the piano and the stand separatel y. Then remount the piano and fasten it bac k into place as described in the assemb ly instructions.
- Disassembing the stand
 You can disassemb le the stand by reversing the assembly sequence. After taking the stand apart, store the screws, fasteners, and other parts carefully so that the y do not get lost.
- ☐ When disconnecting the connectors...

 Be sure to press on the latch when disconnecting the speaker cord or pedal cord, as illustrated below. Don't tug or pull on the cor d. Excessive f orce may cause connector sorsoc kets to break.





☐ A note about the pedal unit...

Please be aware that keeping the pedal unit fixed in the same place on the floor for an extended period of time may leave a depression or mark on the flooring (depending on the flooring material).

Montage du support de piano NC-500



Avertissement



Le monta ge doit être eff ectué par au moins deux personnes.

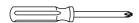
Précautions

Pour faire en sor te que le monta ge soit sûr et correct, prière d'obser ver les précautions suiv antes.

- ☐ Veiller à utiliser les pièces correctes à chaque étape, veiller à ce que ces pièces soient orientées correctement, et veiller à suivre les étapes dans l'ordre donné ci-dessous.
- Quand on pose le piano sur le suppor t, faire attention à ne pas se prendre les mains entre le piano et le support.
- ☐ Après a voir mis le piano en place sur le suppor t: ne pas e xercer de pression ou appuy er lourdement sur l'a vant du piano tant que celuici n'est pas solidement fix é au suppor t. Toute pression ou appui e xercé au mauv ais endr oit pourrait faire tomber le piano du suppor t.

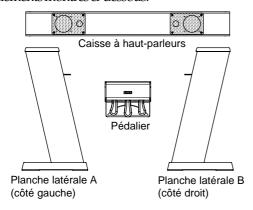
Outil nécessaire ...

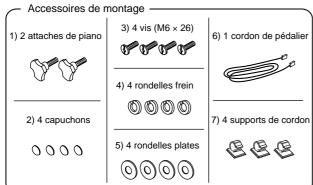
Un tourne vis crucif orme est nécessaire pour effectuer le monta ge.



Procédure de montage

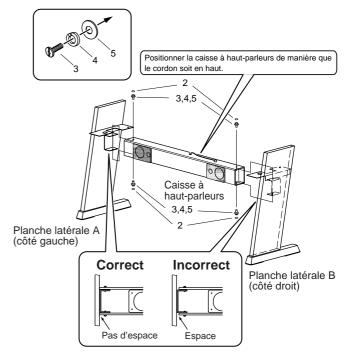
 Ouvrir l'emballage et en enlever tous les éléments. Veiller à ce que l'on dispose de tous les éléments montrés ci-dessous.





2. Monter les planches latérales et la caisse à haut-parleurs.

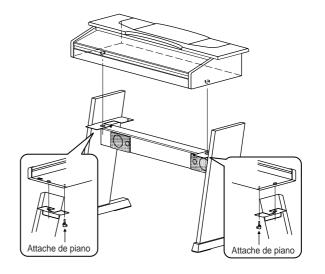
Ajuster les extrémités de la caisse à haut-parleurs dans les fixations métalliques des deux planches latérales, en faisant coïncider les trous de vis des deux côtés. Veiller à ce que chaque extrémité de la caisse soit bien dans l'alignement contre la planche latérale correspondante, sans espace. Prendre ensuite les quatre vis (3), mettre en place une rondelle frein (4) puis une rondelle plate (5) sur chacune de ces vis, et utiliser ces vis (deux pour chaque planche latérale) pour fixer les planches latérales à la caisse à haut-parleurs. Couvrir la tête de chaque vis avec un capuchon (2).



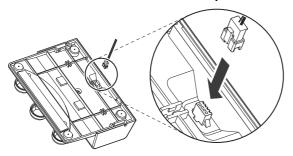
3. Poser le piano sur le support monté, puis le fixer à celui-ci. Positionner le piano de manière que ses pieds en plastique s'ajustent dans les trous des fixations métalliques des planches latérales. Fixer ensuite le piano en place par le bas avec les deux attaches de piano (1).



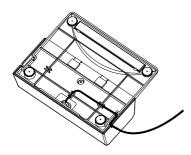
Mettre le piano en place lentement et avec précaution, en faisant attention à ne pas le lâcher. Quand on pose le piano sur le support, faire attention à ne pas se prendre les mains entre le piano et le support.



4. Brancher le cordon de pédalier (6) au connecteur se trouvant à la face inférieure du pédalier



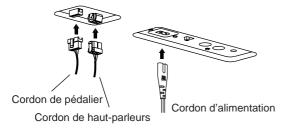
5. Faire passer le cordon le long de la inure de la face inférieure du pédalier comme illustré cidessous Veiller à ce que le cordon soit immté correctement. Pousser le cordon dans la ainure de manière qu'il y soit bien fix



6. Brancher le cordon de pédalier et le cordon de hautparleurs aux prises correspondantes se trouvant à la face inférieure du piano. Brancher le cordon d'alimentation au connecteur AC IN du piano.

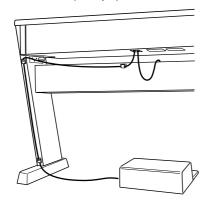


Quand on fait les branchements, veiller à ce que les connecteurs soient orientés correctement.



7. Fixer les supports de cordon (7), puis fex le cordon de pédalier dans ces suppress

Supports de cordon (exemple)



Contrôle du montage terminé

☐ Reste-t-il des pièces ?

S'il reste des pièces, se reporter au schéma de montage pour voir où elles doivent être, puis les mettre en place.

☐ S'assurer que toutes les vis et attaches sont bien serrées.

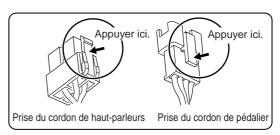
Entretien, transport et démontage

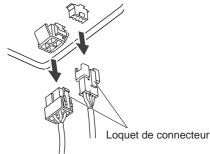
Contrôler périodiquement le suppor t monté, et ober ser ver les précautions suiv antes.

- ☐ Contrôler périodiquement toutes les vis et attaches.

 A la longue, les vis et attaches peuvent se desserrer. Contrôler périodiquement le serrage de ces éléments. Si le support semble moins stable que d'habitude, contrôler les vis et attaches immédiatement et les resserrer si nécessaire.
- □ Pour déplacer le piano ...
 Enlever le piano du support, puis les déplacer séparément. Remettre ensuite le piano en place sur le support et le fixer à ce dernier comme décrit dans les instructions de monta ge.
- Démontage du suppor
 On peut démonter le suppor ten procédant
 dans l'or dre inverse du monta ge. Après le
 démontage, ranger les vis, attac hes et autres
 pièces soigneusement afin de ne pas les per dre.
- Quand on débanche les connecteurs ...

 Quand on débranche le cordon de haut-parleurs ou le cordon de pédalier, veiller à appuyer sur le loquet, comme illustré ci-dessous. Ne pas tirer sur le cordon. Une force excessive pourrait donner lieu à un endommagement irrémédiable des connecteurs ou des prises.





☐ Remarque sur le pédalier ...

Prière de remarquer que le fait de laisser le pédalier posé au même endroit sur le sol pendant longtemps peut laisser une empreinte ou une trace sur le revêtement de sol (suivant la matière de ce revêtement).

Assembling the NC-300 Piano Stand



Marning

Assembly must be carried out by at least two persons.

Precautions

To ensure saf e and correct assemb ly, please obser ve the following precautions.

- ☐ Be sure to use the correct parts at each step, be sure that parts are oriented correctly, and be sure to follow the steps in the order given below.
- ☐ When lowering the piano body onto the stand, position hands carefull y so that hands don't g et caught between the body and the stand.
- After setting the body in place on the stand: Do not press or lean hea vily on the front side of the piano bod y until you have securely fastened it to the stand. The body may fall from the stand if you lean or press in the wrong place.

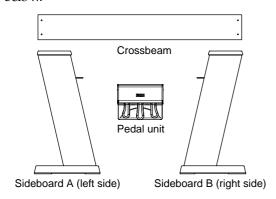
What You Will Need...

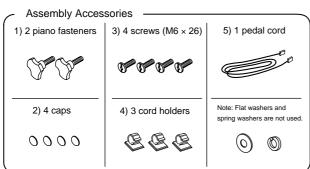
You will need a Phillips (cr osshead) scre wdriver.



Assembly Procedure

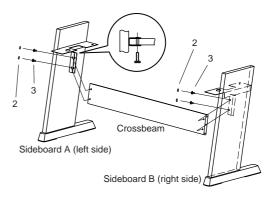
Open the bα and take out the contents
 Be sure that y ou ha ve all of the items sho wn belo w.





2. Assemble the sideboards and crossbeam.

Fit the ends of the crossbeam into the metal fittings on the two sideboards, lining up the screw holes at both sides. Fasten with the 4 screws (2 at each side)(3). Cover the top of each screw with a cap(2).

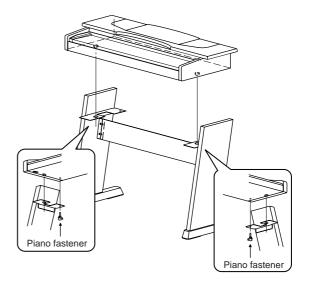


Mount the piano on the assemed stand, and fasten it into place

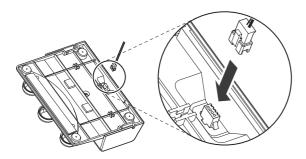
Set the piano so that the plastic feet on the piano body fit into the holes in the metal fittings of the sideboards. Then fasten the piano body into place from the bottom with the two piano fasteners(1).



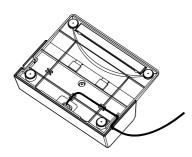
Set the piano into place slowly and carefully, taking care not to drop it. When lowering the piano, position hands carefully so that they don't become caught between the piano and the stand.



4. Connect the pedal cord(5) to the connector on the underside of the pedal unit.



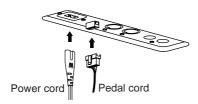
 Run the cord along the regrove on the underside of the pedal unit as illustred below. Be sure that the cord is oriented correctly Push the cord into the groove so that it is fixed in place



 Connect the pedal cord to the connector on the underside of the pianoConnect the power cord to the AC IN connector on the underside of the piano.

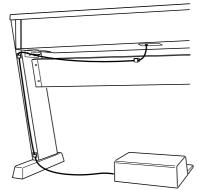


Be sure that connectors are oriented correctly when making connections.



7. Attach the cord holders(4), and then secure the pedal cord into the holders

Cord holders (example)



Checking the Finished Assembly

- ☐ Are any parts left over?

 If any parts are left, refer to the assembly diagram to see where they should go, and then assemble them into place.
- ☐ Be sure that all screws and fasteners are tight.

Maintenance, Transport, and Disassembly

Periodically check the assembled stand, and obser ve the following precautions.

- ☐ Periodically chek all screws and fasteners

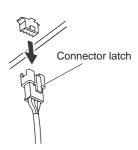
 Scre ws and fastener s may loosen with time.

 Periodically check to confirm that no scre ws or fastener s are loose. If the stand seems to shake more than usual, check scre ws and fastener s immediately and tighten as necessar y.
- ☐ **To move the piano...**Remo ve the piano fr om the stand, then mo ve the piano and the stand separatel y. Then remount the piano and fasten it bac k into place as described in the assemb ly instructions.
- Disassembing the stand
 You can disassemb le the stand by reversing the assembly sequence. After taking the stand apart, store the screws, fasteners, and other parts carefully so that the y do not get lost.
- □ When disconnecting the connectors...

 Be sure to press on the latc h when disconnecting the cord, as illustrated below.

 Don't tug or pull on the cord. Excessive force may cause the connector or socket to break.





□ A note about the pedal unit...

Please be a ware that keeping the pedal unit fixed in the same place on the floor for an extended period of time may leave a depression or mark on the flooring (depending on the flooring material).

Montage du support de piano NC-300

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Avertissement

Le monta ge doit être eff ectué par au moins deux personnes.

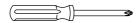
Précautions

Pour faire en sor te que le monta ge soit sûr et correct, prière d'obser ver les précautions suiv antes.

- ☐ Veiller à utiliser les pièces correctes à chaque étape, veiller à ce que ces pièces soient orientées correctement, et veiller à suivre les étapes dans l'ordre donné ci-dessous.
- ☐ Quand on pose le piano sur le suppor t, faire attention à ne pas se prendre les mains entre le piano et le support.
- ☐ Après a voir mis le piano en place sur le suppor t: ne pas e xercer de pression ou appuy er lourdement sur l'a vant du piano tant que celuici n'est pas solidement fix é au suppor t. Toute pression ou appui e xercé au mauv ais endr oit pourrait faire tomber le piano du suppor t.

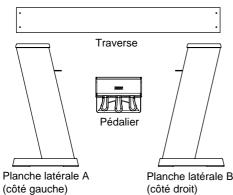
Outil nécessaire ...

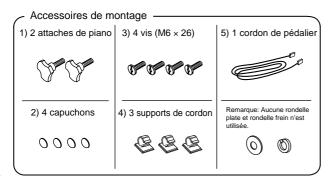
Un tourne vis crucif orme est nécessaire pour effectuer le monta ge.



Procédure de montage

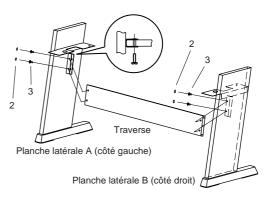
 Ouvrir l'emballage et en enlever tous les éléments. Veiller à ce que l'on dispose de tous les éléments montrés ci-dessous.





2. Monter les planches latémies et la taverse.

Ajuster les extrémités de la traverse dans les fixations métalliques des deux planches latérales, en faisant coïncider les trous de vis des deux côtés. Fixer avec les 4 vis (2 de chaque côté) (3). Couvrir la tête de chaque vis avec un capuchon (2).

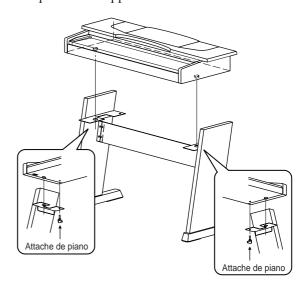


 Poser le piano sur le suppormonté puis le fixer à celui-ci.

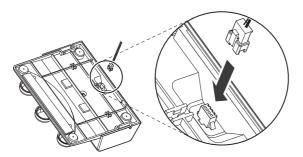
Positionner le piano de manière que ses pieds en plastique s'ajustent dans les trous des fixations métalliques des planches latérales. Fixer ensuite le piano en place par le bas avec les deux attaches de piano (1).



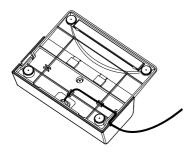
Mettre le piano en place lentement et avec précaution, en faisant attention à ne pas le lâcher. Quand on pose le piano sur le support, faire attention à ne pas se prendre les mains entre le piano et le support.



4. Brancher le cordon de pédalier (5) au connecteur se trouvant à la face inférieure du pédalier



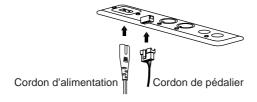
5. Faire passer le cordon le long de la inure de la face inférieure du pédalier comme illustré cidessous Veiller à ce que le cordon soit immté correctement.Pousser le cordon dans la inure de manière qu'il y soit bien fix



 Brancher le cordon de pédalier au connecteur se trouvant à la face inférieure du piano Brancher le cordon d'alimentation au connecteuCAN se trouvant à la face inférieure du piano

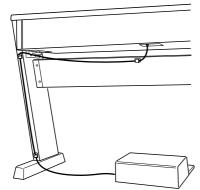


Quand on fait les branchements, veiller à ce que les connecteurs soient orientés correctement.



7. Fixer les supports de cordon (4), puis fex le cordon de pédalier dans ces suppress

Supports de cordon (exemple)



Contrôle du montage terminé

- ☐ Reste-t-il des pièces ?

 S'il reste des pièces, se reporter au schéma de montage pour voir où elles doivent être, puis les mettre en place.
- ☐ S'assurer que toutes les vis et attaches sont bien serrées.

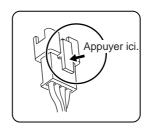
Entretien, transport et démontage

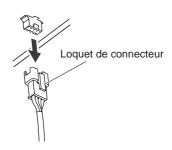
Contrôler périodiquement le suppor t monté, et ober ser ver les précautions suiv antes.

- ☐ Contrôler périodiquement toutes les vis et attaches.

 A la longue, les vis et attaches peuvent se desserrer. Contrôler périodiquement le serrage de ces éléments. Si le support semble moins stable que d'habitude, contrôler les vis et attaches immédiatement et les resserrer si nécessaire.
- □ Pour déplacer le piano ...
 Enlever le piano du support, puis les déplacer séparément. Remettre ensuite le piano en place sur le support et le fixer à ce dernier comme décrit dans les instructions de monta ge.
- Démontage du suppor
 On peut démonter le suppor ten procédant
 dans l'or dre inverse du monta ge. Après le
 démontage, ranger les vis, attac hes et autres
 pièces soigneusement afin de ne pas les per dre.
- ☐ Quand on débanche les connecteurs ...

 Quand on débranche le cordon, veiller à appuyer sur le loquet, comme illustré ci-dessous. Ne pas tirer sur le cordon. Une force excessive pourrait donner lieu à un endommagement irrémédiable du connecteur ou de la prise.





□ Remarque sur le pédalier ...

Prière de remar quer que le fait de laisser le pédalier posé au même endr oit sur le sol

pendant longtemps peut laisser une empreinte ou une trace sur le re vêtement de sol (suiv ant la matière de ce re vêtement).

Operation of Piano Switches and Keys

SOUND Switches

The following table shows the action or setting that results when you hold down the button indicated along the left (TOUCH, REVERB, CHORUS, METRONOME, or TRANSPOSE/FUNCTION) and press one of the SOUND buttons indicated along the top.

	PIANO 1	PIANO 2	E.PIANO 1	E.PIANO 2	ORGAN 1	ORGAN 2	HARPSI/VIBE	STRINGS/CHOIR
TOUCH	Normal	Heavy	Light		Werckmeister	Kirnberger	Mute Part Volume Down	Mute Part Volume Up
REVERB	Deeper	Deepest	Light					
CHORUS	Deeper	Deepest	Light					
METRONOME	2 beats	3 beats	4 beats	6 beats	Accent Normal Sound	Accent Bell Sound	Metronome Vol. Down	Metronome Vol. Up
TRANSPOSE/ FUNCTION	Local On/Off	Program Change On/Off	Control Change On/Off					Data Dump (NC-500 only)

Recorder Section (NC-500 only)

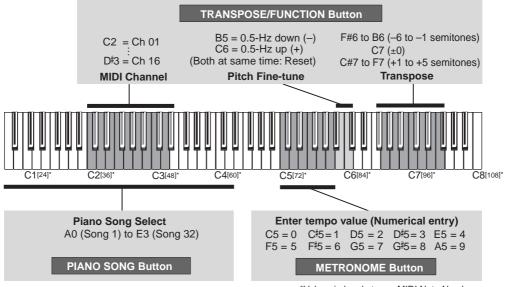
The table below shows the action or setting that results when you hold down the TRANSPOSE/FUNCTION button and press the indicated Recorder button.

	PART 1	PART 2	PAUSE	START/STOP	REC
TRANSPOSE/ FUNCTION	Erase Part 1	Erase Part 2		Remaining memory	

	PART 1 PART	
TOUCH	Raises the the correspondent	

Keyboard

The graphic below shows the setting that results when you hold down one of the indicated buttons (PIANO SONG, METRONOME, or TRANSPOSE/FUNCTION) and press one of the active keys on the keyboard.



MIDI Implementation Chart

4/01/2004

Digital I lali		• •	ı	4/01/2004
Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1	_	
Basic Chamilei	Changed	1–16	1–16	
	Default		3	
Modes	Messages	×	×	
	Altered	*****		
Note Numbers		15–113	0–127	
	True Voice	*****	21–108	
Velocity	Note ON	○ 9n, V=1–127	○ 9n, V=1–127	
Cloury	Note OFF	×	×	
Aftertouch	Key's	×	×	
Aftertouch	Channel's	×	×	
Pitch Bender		×	0	
	7	0	0	Volume *1
Control Change	⁹ 11	×		Expression *1
	64	\circ	\circ	Damper Pedal *1, *3
	66	\circ		Sostenuto Pedal *1
	67	\circ		Soft Pedal *1, *3
	91	0		Reverb *1
	93	\circ		Chorus *1
	120, 121	0	0	All Sound Off, Reset All Controls
Program Change		○ 0 –23	○ 0 – 23	*2
True #		*****	0–23	
System Exclus	ives	0	0	Device Inquiry, Sound Data Dump
	Song Position	×	×	
System Common:	Song Select	×	×	
Common.	Tune	×	×	
System	Clock	×	×	
Real Time	Commands	×	×	
	Local ON/OFF	×	0	
Aux	All Notes OFF	0	×	*4
Messages	Active Sense System Reset	×	×	
	System Reset			

Notes

Mode 1: OMNI ON, POLY Mode 3: OMNI OFF, POLY Mode 2: OMNI ON, MONO Mode 4: OMNI OFF, MONO ○ : Yes
X : No

^{*1 :} Transmitted/recognized if Control Change is set to Enabled.

^{*2 :} Transmitted/recognized if Program Change is set to Enabled.

^{*3:} Half pedal output values: 0, 38, 74, 127.

^{*4 :} Transmitted when changing from Layered mode to Single-voice mode, and when Local mode is turned off.

^{*} Consult your lacal Korg distributor for more imformation on MIDI Implementation.

IMPORTANT NOTICE TO CONSUMERS

This product has been manufactured according to strict specifications and voltage requirements that are applicable in the country in which it is intended that this product should be used. If you have purchased this product via the internet, through mail order, and/ or via a telephone sale, you must verify that this product is intended to be used in the country in which you reside.

WARNING: Use of this product in any country other than that for which it is intended could be dangerous and could invalidate the manufacturer's or distributor's warranty. Please also retain your receipt as proof of purchase otherwise your product may be disqualified from the manufacturer's or distributor's warranty.



(N)