Technics

KEYBOARD

SX-KN200
SX-KN400
SX-KN220
SX-KN440

Vol. 1

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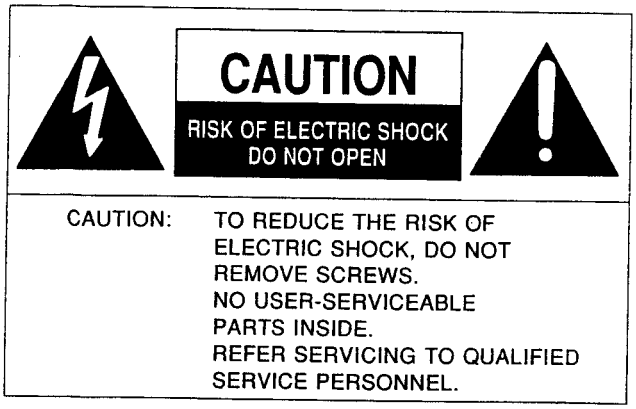

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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 appliance.

FOR CANADA
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

POUR CANADA
L'interférence radioélectrique générée par cet appareil numérique de type B ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

Technics

KEYBOARD

SX-KN220
SX-KN440

(ENGLISH)

■ The **SX-KN220** Keyboard is the same as the SX-KN200 Keyboard with the added *Touch Response* function. With this feature, you control the volume by playing the keys harder or softer. All other functions are as described in the included SX-KN200 Owner's Manual.

• Note that the SX-KN220 control panel differs slightly from that of the SX-KN200.

■ The **SX-KN440** Keyboard is the same as the SX-KN400 Keyboard but with a *higher output* (10W×2). All other functions are as described in the included SX-KN400 Owner's Manual.

• Note that the SX-KN440 control panel differs slightly from that of the SX-KN400.

(DEUTSCH)

■ Das Keyboard-Modell **SX-KN220** ist mit dem Modell SX-KN200 identisch, mit Ausnahme der zusätzlichen *Anschlagsdynamik-Funktion*. Diese Funktion erlaubt Ihnen, die Lautstärke durch härteres oder weicheres Anchlagen der Manualtasten zu steuern. Alle anderen Funktionen entsprechen den Beschreibungen in der mitgelieferten Bedienungsanleitung für das Modell SX-KN200.

• Beachten Sie, daß sich die Bedienfelder der Modelle SX-KN220 und SX-KN200 geringfügig unterscheiden.

■ Das Keyboard-Modell **SX-KN440** ist mit dem Modell SX-KN400 identish, weist aber über eine *höhere Ausgangsleistung* (10W×2) auf. Alle anderen Funktionen entsprechen den Beschreibungen in der mitgelieferten Bedienungsanleitung für das Modell SX-KN400.

• Beachten Sie, daß sich die Bedienfelder der Modelle SX-KN440 und SX-KN400 geringfügig unterscheiden.

(FRANÇAIS)

■ Le clavier **SX-KN220** est identique au clavier SX-KN200 avec la fonction "*Touch Response*" ajoutée. Grâce à cette fonction vous pourrez contrôler le volume en jouant de façon plus fort ou bien plus doux sur les touches. Toutes les autres fonctions sont décrites dans le mode d'emploi pour le SX-KN200 fourni.

• Note: Le panneau de commande du SX-KN220 est un peu différent de celui du SX-KN200.

■ Le clavier **SX-KN440** est identique au clavier SX-KN400 mais présente une *puissance de sortie plus importante* (10W×2). Toutes les autres fonctions sont décrites dans le mode d'emploi pour le SX-KN400 fourni.

• Note: Le panneau de commande du SX-KN440 est un peu différent de celui du SX-KN400.

(ESPAÑOL)

■ El teclado **SX-KN220** es el mismo que el SX-KN200 al que se ha agregado la *función de respuesta de toque* (Touch Response). Este detalle permite controlar el volumen del sonido ejecutando las teclas con más o menos fuerza. Las demás funciones son las descritas en las Instrucciones de manejo del SX-KN200 que viene con el teclado.

• El panel de control del SX-KN220 es ligeramente diferente del SX-KN200.

■ El teclado **SX-KN440** es el mismo que el SX-KN400 pero tiene una *salida mayor* (10W×2). Las demás funciones son las descritas en las Instrucciones de manejo del SX-KN400 que viene con el teclado.

• El panel de control del SX-KN440 es ligeramente diferente del SX-KN400.

(NEDERLANDS)

■ Het **SX-KN220** keyboard is hetzelfde als het SX-KN200 keyboard met toegevoegde *aanslag-respons functie*. Met deze functie kunt u het volume regelen door de toetsen harder of zachter te bespelen. Alle overige functies zijn zoals beschreven in de bijgeleverde gebruiksaanwijzing voor de SX-KN200.
• Het bedieningspaneel van de SX-KN220 echter verschilt enigszins van dat van de SX-KN200.

■ Het **SX-KN440** keyboard is hetzelfde als het SX-KN400 keyboard, maar heeft een *groter uitgangsvermogen* (10W×2). Alle overige functies zijn zoals beschreven in de bijgeleverde gebruiksaanwijzing voor de SX-KN400.
• Het bedieningspaneel van de SX-KN440 echter verschilt enigszins van dat van de SX-KN400.

(ITALIANO)

■ La tastiera **SX-KN220** è identica alla tastiera SX-KN200 con la funzione "*Touch Response*". Grazie a questa particolarità, potete controllare il volume suonando in modo più forte oppure più dolce i tasti. Tutte le altre funzioni sono descritte nelle istruzioni per l'uso del SX-KN200.
• Nota: Il pannello di controllo del SX-KN220 è leggermente diverso da quello del SX-KN200.

■ La tastiera **SX-KN440** è identica alla tastiera SX-KN400 ma presenta una *uscita più importante* (10W×2). Tutte le altre funzioni sono descritte nelle istruzioni per l'uso del SX-KN400.
• Nota: Il pannello di controllo del SX-KN440 è leggermente diverso da quello del SX-KN400.

(中文)

■ **KN220**是對原有的KN200上增添接觸響應功能的型號。由於本功能的作用，隨着彈鍵力量的強弱。所響出的音量也有強弱的變化。
除了本項功能以外，別的各項內容全面與KN200相同，因此本琴的操作均宜參閱所附的使用說明書中KN200型部分。
• 只有KN220型面板上的部分表示形狀，不與KN200相同。
■ **KN440**型的輸出功率比KN400型更大(10W×2)。此外，其他各項功能全面與KN400相同，爲此本琴操作均宜參閱所附的使用說明書KN400部分。
• 只有KN440型面板上的部分表示形狀，不與KN400相同。

(NORSK)

■ Keyboarden **SX-KN220** er identisk med SX-KN200, men har *Touch Response* som en ekstra funksjon. Ved à bruke Touch Response kan du styre lydstyrken fra en tangent ved å trykke hardt eller mjukt på den. Alle andre funksjoner brukes som forklart i bruksanvisningen for SX-KN200.
• Kontrollpanelet på SX-KN220 er ikke helt det samme som på SX-KN200.

■ Keyboarden **SX-KN440** er den samme som SX-KN400, men har *større utgangseffekt* (10W×2). Alle andre funksjoner brukes som forklart i bruksanvisningen for SX-KN400.
• Kontrollpanelet på SX-KN440 er ikke helt det samme som på SX-KN400.

(DANSK)

■ **SX-KN220** Keyboard svarer til SX-KN200 keyboardet, men byder også på *Touch Response funktion*. Med denne finesse kan lydstyrken kontrolleres ved at trykke hårdere eller blidere på tangenterne. Alle andre funktioner fungerer som beskrevet i den medfølgende SX-KN200 Bruksanvisning.
• Bemærk at SX-KN220 kontrolpanelet adskiller sig en smule fra det på SX-KN200.

■ **SX-KN440** Keyboard er identisk med SX-KN400, men har *større output* (10W×2). Alle andre funktioner fungerer som beskrevet i den medfølgende SX-KN400 Bruksanvisning.
• Bemærk at SX-KN440 kontrolpanelet adskiller sig en smule fra det på SX-KN400.

(SVENSKA)

■ Keyboardet **SX-KN220** är detsamma som SX-KN200, men har dessutom en *anslagsavkännande funktion.* Med denna funktion reglerar du ljudnivån genom att spela hårdare eller mjukare på tangenterna. Alla övriga funktioner är desamma som beskrivs i den medföljande brugsvejledningen för SX-KN200.

• Observera att kontrollpanelen på SX-KN220 skiljer sig en aning från kontrollpanelen på SX-KN200.

■ Keyboardet **SX-KN440** är detsamma som SX-KN400, men det har en *större uteffekt* (10W×2). Alla övriga funktioner är desamma som beskrivs i den medföljande brugsvejledningen för SX-KN400.

• Observera att kontrollpanelen på SX-KN440 skiljer sig en aning från kontrollpanelen på SX-KN400.

(SUOMI)

■ **SX-KN220** Keyboard on sama kuin SX-KN200 Keyboard, mutta siinä on lisänä *kosketusvastetoiminto.* Tällä toiminnolla voit säätää äänenvoimakkuutta painamalla näppäimiä voimakkaammin tai heikommin. Kaikki muut toiminnot ovat samat kuin ne, jotka on kuvattu SX-KN200:n käyttöohjeessa.

• SX-KN220:n säädinseinämä eroaa hieman SX-KN200:n säädinseinämästä.

■ **SX-KN440** Keyboard on sama kuin SX-KN400 Keyboard, mutta siinä on *suurempi lähtöteho* (10W×2). Kaikki muut toiminnot ovat samat kuin ne, jotka on kuvattu SX-KN400:n käyttöohjeessa.

• SX-KN440:n säädinseinämä eroaa hieman SX-KN400:n säädinseinämästä.

For USA only

"This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
— relocate the electronic musical instrument with respect to the receiver
— move the electronic musical instrument away from the receiver
— plug the electronic musical instrument into a different outlet so that electronic musical instrument and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: 'How to Identify and Resolve Radio-TV Interference Problems.' This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00345-4."

Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

TECHNICS, Model No. SX-KN220/SX-KN440

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Vfg 1046/1984

(Amtsblattverfügung)

funkentstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

PANASONIC DEUTSCHLAND GMBH

Name des Herstellers/Importeurs

Specifications

		SX-KN220	SX-KN440
KEYBOARD		61 KEYS (TOUCH RESPONSE)	
SOUND GENERATOR		PCM	
MAXIMAL NOTE NUMBER PRODUCING SIMULTANEOUSLY		11 NOTES	
SOUND	POLY (KN220) POLY 1, 2, ACCOMP (KN440)	PIANO 1, 2, ELECTRIC GRAND PIANO, HARPSICHORD, ELECTRIC PIANO 1, 2, GUITAR, JAZZ GUITAR, SOLID GUITAR, HAWAIIAN GUITAR, MUTE GUITAR, ROCK GUITAR, GLOCKEN, BANJO, CLAVI, XYLOPHONE, VIBETONE, KALIMBA, PIPE ORGAN 1, 2, JAZZ ORGAN 1, 2, STEEL DRUM, POP ORGAN, VIOLIN, STRINGS, SYNTH STRING, BRASS, TRUMPET, SYNTH BRASS 1, 2, FRENCH HORN, TROMBONE, ACCORDION, TENOR SAX, ALTO SAX, OBOE, CLARINET, HARMONICA, PAN FLUTE, FLUTE, WHISTLE, SPEICAL 1, 2, 3, 4, 5, 6 (WITH VARIATION FOR EACH SOUND)	
	BASS	—	ACOUSTIC 1, 2, ELECTRIC 1, 2, CHOPPER 1, 2, ORGAN 1, 2, BOWED BASS, CELLO, TUBA, SYNTH 1, 2, 3, 4, 5
EFFECT	DIGITAL CELESTE	○ (POLY)	○ (POLY 1, 2)
	SUSTAIN	○ (POLY, ACCOMP 1, 2 & 3, BASS)	○ (POLY 1, 2, ACCOMP 1, 2, 3, BASS)
	MODULATION	—	VIBRATO ON, OFF
	PITCH BEND	—	○ (PITCH BEND WHEEL)
TRANSPOSE		○	
TECHNI-CHORD		○	
RHYTHM		MARCH 1, 2, COUNTRY, WALTZ, SWING 1, 2, DIXIE, JAZZ WALTZ, 8 BEAT 1, 2, ROCK'N'ROLL, SHUFFLE, ROCK BALLAD, LATIN 1, 2, BOSSA NOVA, 16 BEAT 1, 2, JAZZ ROCK, FUNK, SWING ROCK, DISCO, LATIN ROCK 1, 2 (WITH VARIATION FOR EACH RHYTHM)	MARCH 1, 2, COUNTRY, WALTZ, TANGO, LATIN 1, 2, BIG BAND, JAZZ COMBO 1, 2, DIXIE, JAZZ WALTZ, SAMBA, BOSSA NOVA, 8 BEAT 1, 2, ROCK'N'ROLL, SHUFFLE, ROCK BALLAD, LATIN ROCK 1, 2, 16 BEAT 1, 2, JAZZ ROCK, FUNK, SWING ROCK, DISCO 1, 2 (WITH VARIATION FOR EACH RHYTHM)
	CONTROL	START/STOP, SYNCHRO & BREAK, FILL IN, INTRO & ENDING, TEMPO	
	MANUAL PERCUSSION	—	○
	KEYBOARD PERCUSSION	34 KEYS	
AUTO PLAY CHORD		ONE-FINGER, FINGERED, MEMORY	
ACCOMP PART		—	1, 2, 3
ONE TOUCH PLAY		○	
PANEL MEMORY		—	SET, 1~4
SEQUENCER		2 TRACKS (PART: POLY, ACCOMP/CHORD) STRAGE CAPACITY: APPROX. 1600 NOTES INPUT MODE: REAL TIME, STEP (ACCOMP/CHORD ONLY)	3 TRACKS (PART: POLY 1, 2, ACCOMP/CHORD) STRAGE CAPACITY: APPROX. 1600 NOTES INPUT MODE: REAL TIME, STEP (ACCOMP/CHORD ONLY)
COMPOSER		—	5 TRACKS (PART: DRUMS, BASS, ACCOMP 1, 2, 3) STRAGE CAPACITY: APPROX. 600 NOTES INPUT MODE: REAL TIME EDIT FUNCTION: CLEAR, INSTR ERASE, QUANTIZE, BEAT
DISPLAY		○	
DEMO		○	
CONTROL		BALANCE, SUB BALANCE/MIDI	BALANCE, SUB BALANCE/MIDI, CONDUCTOR (POLY 1, 2, BASS, KEYBOARD PERCUSSION)
MIDI		PART (POLY, BASS, ACCOMP 1, 2, 3, DRUMS, CONTROL), BASIC CHANNEL (1~16), RECEIVE MODE, TRANSMIT MODE, LOCAL CONTROL, PROGRAM CHANGE, NOTE ONLY, MIDI CLOCK, START/STOP	PART (POLY 1, 2, BASS, ACCOMP 1, 2, 3, DRUMS, CONTROL), BASIC CHANNEL (1~16), RECEIVE MODE, TRANSMIT MODE, LOCAL CONTROL, PROGRAM CHANGE, PANEL MEMORY PROGRAM CHANGE, NOTE ONLY, MIDI CLOCK, START/STOP
TERMINALS		HEADPHONE TERMINAL, LINE OUT (R/R+L), MIDI TERMINAL (IN, OUT), FOOT SWITCH	HEADPHONE TERMINAL, LINE OUT (R/R+L, L), MIDI TERMINAL (IN, OUT, THRU), FOOT SWITCH, EXPRESSION PEDAL
OTHERS		PLAY SWITCH, MAIN VOLUME	POWER SWITCH, MAIN VOLUME
OUTPUT		2.5W×2	10W×2
SPEAKERS		12cm×2	12cm×2
POWER REQUIREMENT		9~12 V DC (WITH EXCLUSIVE AC ADAPTOR SY-AD1)	90W, 60W (NORTH AMERICA AND MEXICO) AC120/220/240V 50/60Hz, AC120V 60Hz (NORTH AMERICA AND MEXICO)
DIMENSIONS (W×H×D)		95.1 cm×14.7 cm×36.6 cm (37-7/16"×5-25/32"×14-13/32")	
NET WEIGHT		8.0 kg (17.6 lbs)	8.9 kg (19.6 lbs)
ACCESSORIES		MUSIC STAND, AC ADAPTOR	MUSIC STAND, AC CORD

Technics

OWNER'S MANUAL
MODE D'EMPLOI
INSTRUCCIONES DE MANEJO
使用說明書

VOL. 1

ENGLISH
FRANÇAIS
ESPAÑOL
中文

Caution

Voltage (except North America and Mexico)
Be sure the voltage adjuster (KN200: located on the AC adaptor, KN400: located on the rear panel) is in accordance with local voltage in your area before using this unit. Use a screwdriver to set the voltage adjuster to the local voltage.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

BEFORE YOU PLAY, PLEASE READ THE CAUTIONARY COPY APPEARING ON PAGE 27.

IMPORTANT (for GREAT BRITAIN)
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE —NEUTRAL
BROWN—LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is mark with the letter L or coloured RED.

Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

This apparatus was produced to BS 800: 1977.

Attention

Tension (à l'exception de l'Amérique du nord et le Mexique)
Avant de mettre cet appareil sous tension s'assurer que le sélecteur de tension situé sur l'adaptateur CA (KN200) ou sur le panneau arrière (KN400) est réglé sur la tension locale. Pour régler le sélecteur de tension utiliser un tournevis plat (–).
Avant toute utilisation, prière de lire l'avertissement apparaissant à la page 59.

Precaución

Tensión (excepto América del Norte y México)
Cerciórese de que el ajustador de tensión, situado en el adaptador de C.A. (KN200) o en el panel posterior (KN400), esté ajustado al valor de la tensión de su residencia. Efectúe esta comprobación antes de utilizar el instrumento. Para ajustar la tensión emplee un destornillador para posicionar el ajustador de tensión al valor correspondiente.
Antes de empezar a tocar, lea las precauciones de la página 91.

注意事項

電壓(不包括北美洲地域及墨西哥。)

當使用之前，應確認調壓器(KN200：設於AC適配器，KN400：設於背面盤上)的數值是否符合該地區的電壓。如不符合時，要用螺絲刀來旋轉調壓電鈕，對合到所用電壓位置，才可使用。

用本琴演奏之前，請仔細閱讀第73頁注意事項，以便正確使用。

Before you play

For a long and pleasurable use of this instrument, and to gain a thorough understanding of your KN Series Keyboard's wonderful capabilities, it is strongly recommended that you first read through this Owner's Manual once.

The Owner's Manual is comprised of the following parts.

BASIC FUNCTIONS	Please read all of this part.
VOL. 1:	This volume includes an explanation of basic procedures and some important points you should be aware of for proper operation of your instrument.
PRACTICAL APPLICATIONS	Read the parts which are relevant to the functions you wish to use.
VOL. 2:	This volume comprises a detailed explanation of sound, effect and rhythm.
VOL. 3:	This volume comprises a detailed explanation of **SEQUENCER**, **COMPOSER**, Function Setting and MIDI.
REFERENCE GUIDE	Reference guide for the contents of the **SOUND VARIATION** and **ONE TOUCH PLAY** settings.

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ENGLISH

Names and functions

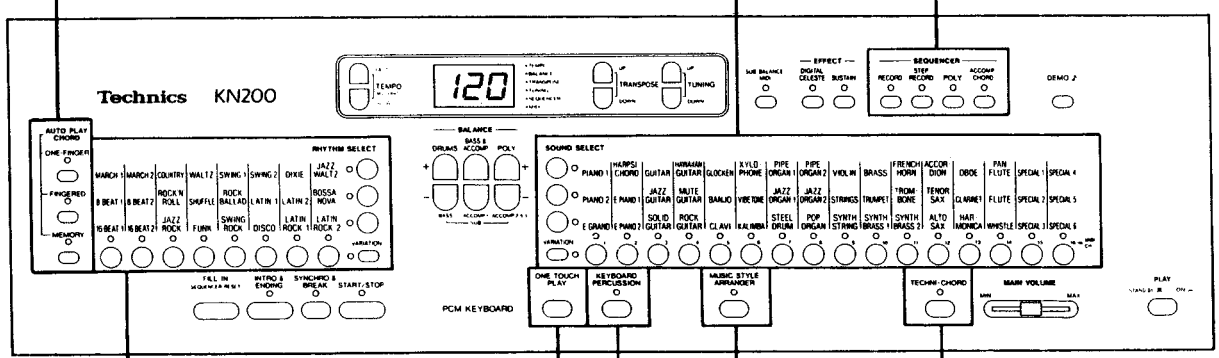
KN200

ENGLISH

AUTO PLAY CHORD
You can use automatic accompaniment patterns which match the rhythm. (Refer to Vol. 2, page 14.)

SEQUENCER
You can record your entire performance or store the chord progression for the automatic accompaniment. (Refer to Vol. 3, page 3.)

SOUND SELECT
You can select 48 kinds of sounds. (Refer to page 11.)



TECHNI-CHORD
A harmony is produced when a single key is pressed.
(Refer to Vol. 2, page 18.)

RHYTHM SELECT
You can select 24 kinds of rhythm patterns. Also, you can produce an intro and fill-in patterns. (Refer to Vol. 2, page 9.)

MUSIC STYLE ARRANGER
Enjoy colorful changes in the keyboard sounds during the **AUTO PLAY CHORD** performance. (Refer to Vol. 2, page 19.)

KEYBOARD PERCUSSION
You can play the percussion sound. (Refer to Vol. 2, page 12.)

ONE TOUCH PLAY
Just by selecting a rhythm and pressing this button, the sounds and effects ideal for the melody are set. (Refer to Vol. 2, page 19.)

Names and functions

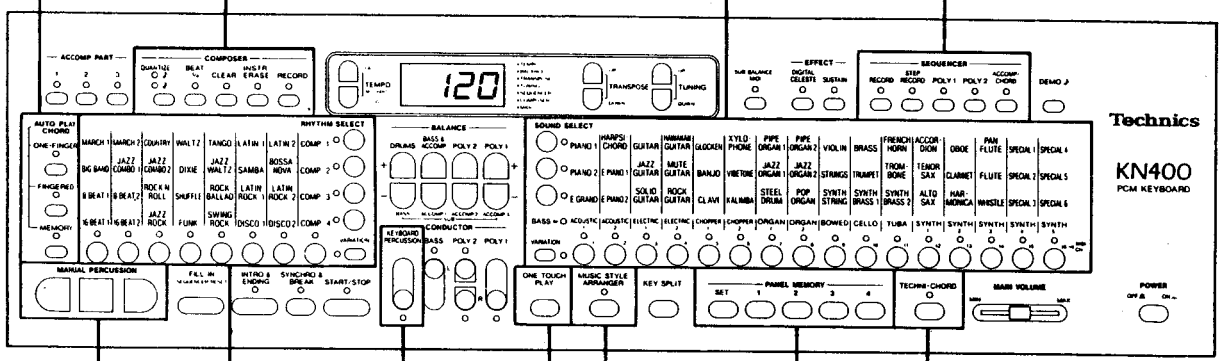
KN400

AUTO PLAY CHORD
You can use automatic accompaniment patterns which match the rhythm. (Refer to Vol. 2, page 14.)

SEQUENCER
You can record your entire performance or store the chord progression for the automatic accompaniment. (Refer to Vol. 3, page 3.)

SOUND SELECT
You can select 48 kinds of sounds. (Refer to page 12.)

COMPOSER
Create your original accompaniment pattern. (Refer to Vol. 3, page 14.)



KEYBOARD PERCUSSION
You can play the percussion sound. (Refer to Vol. 2, page 12.)

TECHNI-CHORD
A harmony is produced when a single key is pressed. (Refer to Vol. 2, page 18.)

PANEL MEMORY
Store the settings of the panel. (Refer to Vol. 2, page 8.)

RHYTHM SELECT
You can select 28 kinds of rhythm patterns. Also, you can produce an intro and fill-in patterns. (Refer to Vol. 2, page 9.)

MUSIC STYLE ARRANGER
Enjoy colorful changes in the keyboard sounds during the **AUTO PLAY CHORD** performance. (Refer to Vol. 2, page 19.)

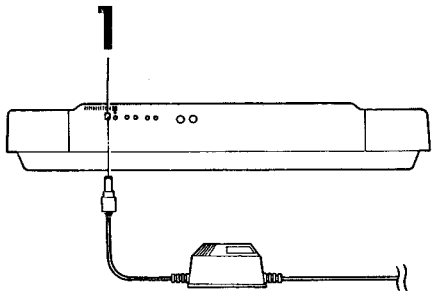
ONE TOUCH PLAY
Just by selecting a rhythm and pressing this button, the sounds and effects ideal for the melody are set. (Refer to Vol. 2, page 19.)

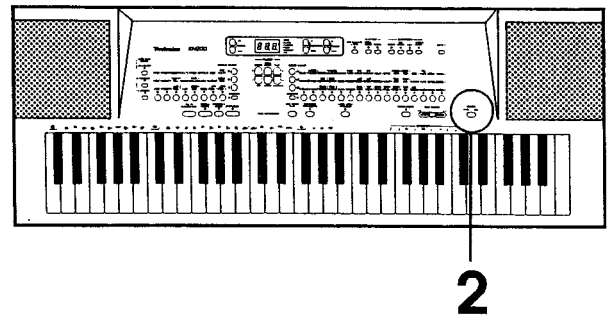
MANUAL PERCUSSION
A percussion sound is produced when the button is pressed. (Refer to Vol. 2, page 13.)

ENGLISH

Basic operating guide

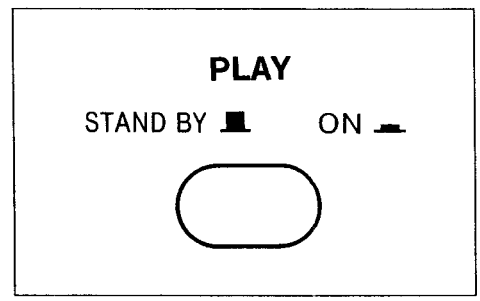
Setting up KN200



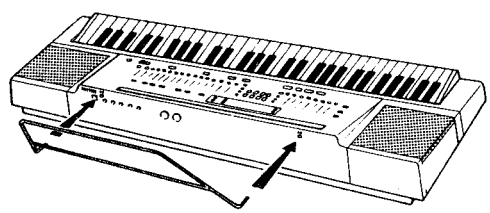


1 Use the included AC adaptor to connect the instrument to an outlet.

2 Press the **PLAY** button to turn it on.



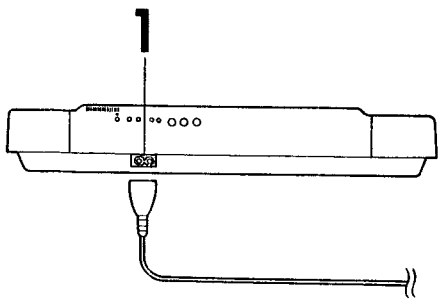
Music stand

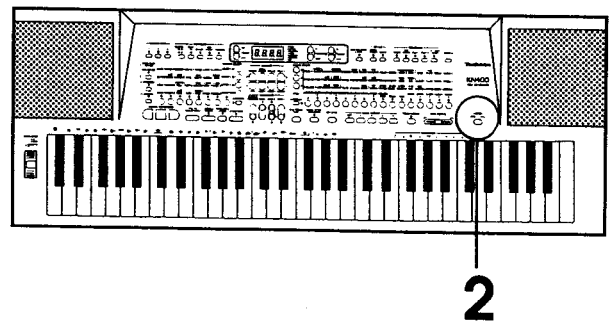


Set up the included music stand as shown in the illustration.

- Use only the included AC adaptor (SY-AD1). Use of other AC adaptors may cause maloperation or even damage to your instrument.
- When the keyboard is turned off, all of the stored memories and settings return to their initialized status.

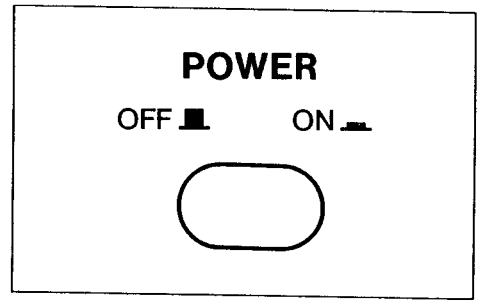
Setting up KN400



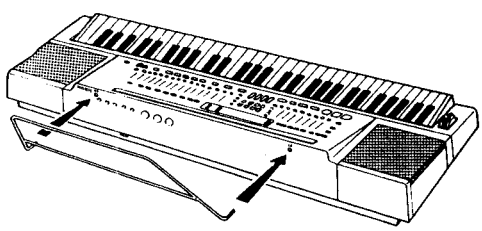


1 Plug the included power cord into an outlet.

2 Press the **POWER** button to turn it on.



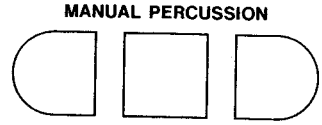
Music stand

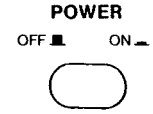


Set up the included music stand as shown in the illustration.

About initializing the settings

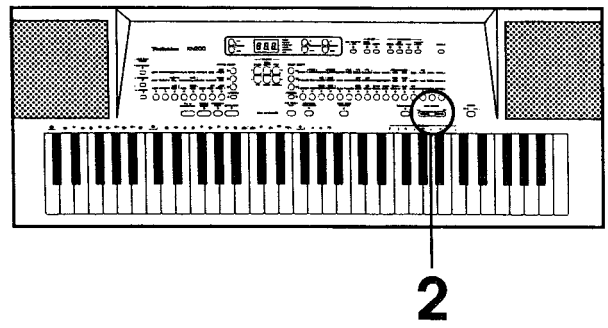
The KN400 has various storable settings and memories. To reset all the functions and memories to their initialized settings, while pressing all three **MANUAL PERCUSSION** buttons at the same time, turn on the **POWER** button.





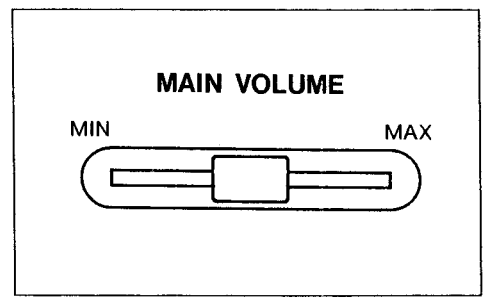
ENGLISH

Playing the keyboard KN200



1 Play the keyboard. You hear the **PIANO** sound.

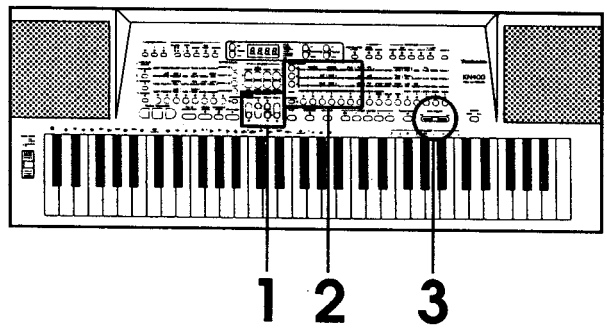
2 Set the **MAIN VOLUME** to an appropriate level with the sliding control.



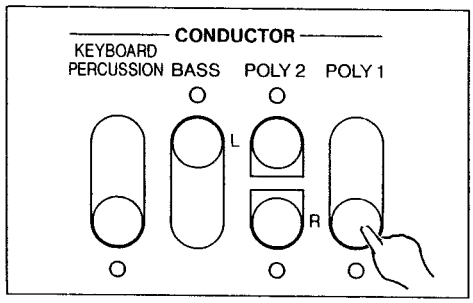
You can produce up to 11 notes at the same time.

- If headphones are connected, the sound from the internal speakers is turned off. Use headphones, for example, to play at night or at other times you wish to avoid disturbing others. (Refer to page 26.)

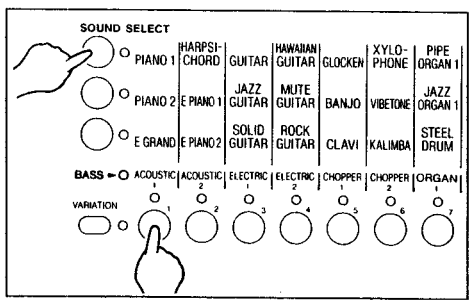
Playing the keyboard KN400



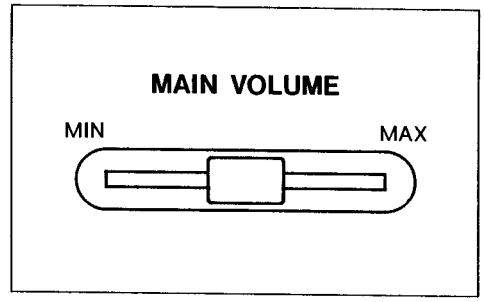
1 In the **CONDUCTOR** section, find the **POLY 1** button and press it to turn it on.



2 In the **SOUND SELECT** matrix, use the buttons in the vertical and horizontal rows to select the **PIANO 1** sound.



3 Set the **MAIN VOLUME** to an appropriate level with the sliding control.



- You can produce up to 11 notes at the same time.
- The KN400 features Touch Response, by which you control the volume by playing the keys harder or softer.
- If headphones are connected, the sound from the internal speakers is turned off. Use headphones, for example, to play at night or at other times you wish to avoid disturbing others. (Refer to page 26.)

ENGLISH

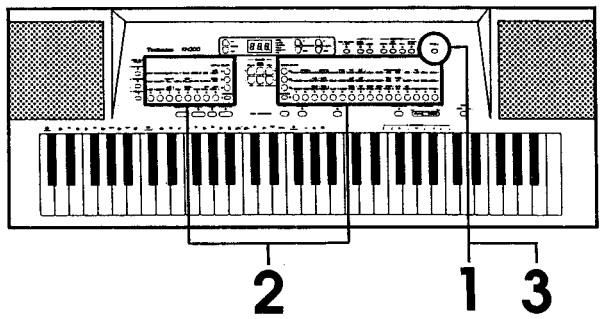
Listen to the demonstration tune

Demonstration performance

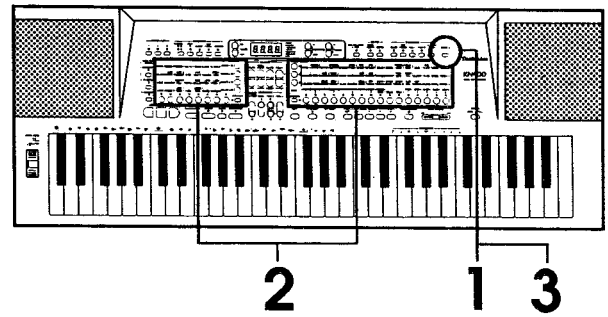
18 demonstration performances have been preset in your keyboard. Listen to the demonstration and you will hear what kind of performance is possible by using the PCM life-like sounds and various capabilities of the KN200/KN400.

ENGLISH

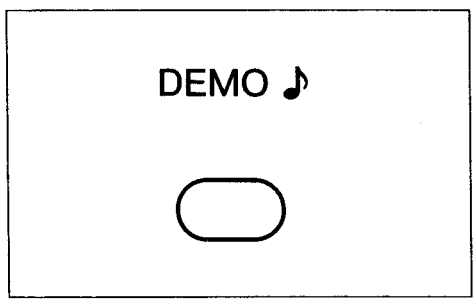
KN200



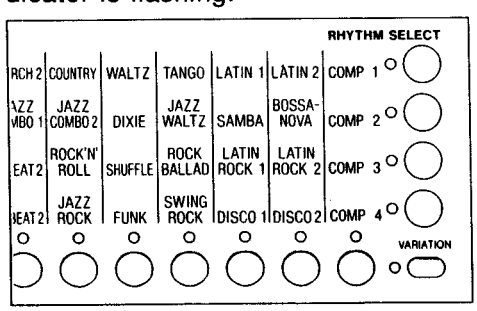
KN400



1 Press the **DEMO ♪** button.



2 In the **RHYTHM SELECT** or **SOUND SELECT** sections , select a row across by pressing one of the vertical row buttons. Select the demonstration performance you want to hear by pressing any horizontal row button whose indicator is flashing.



(KN400)

- The demonstration tune is played.
- If you want to stop the performance in the middle of tune, press a button whose indicator is flashing.
- To listen to another demonstrated function, press a button whose indicator is flashing.

3 When you are finished listening to the demonstration tunes, press the **DEMO ♪** button again.

Continuous performance

If the **START/STOP** button is pressed after step 1, the demonstration tunes will be played continuously, and then they will be repeated.

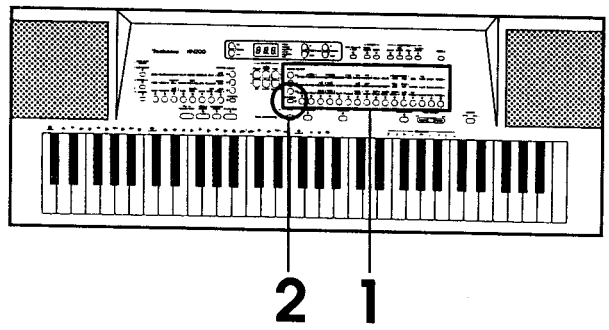
- During the continuous performance, if you press a button whose indicator is flashing, the next tune will be played.
- Pressing the **START/STOP** button again will stop the continuous performance.

The other buttons and keys do not function while the demonstration performance is played.

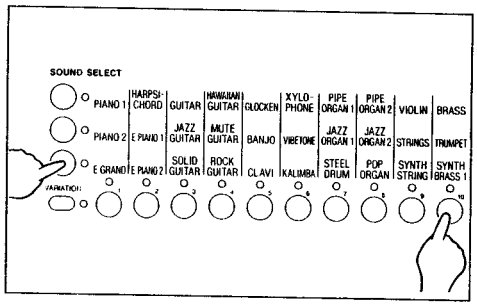
Selecting sounds

You can easily select any of 48 different sounds, just by pressing the corresponding buttons. In addition, the variation sound available for each preset sound doubles your expressive power.

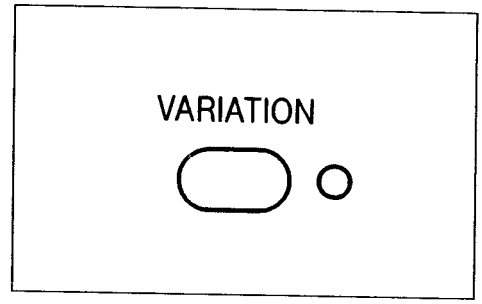
Using the Sound Select KN200



1 Select the sound by pressing the corresponding **SOUND SELECT** buttons in the vertical and horizontal rows.

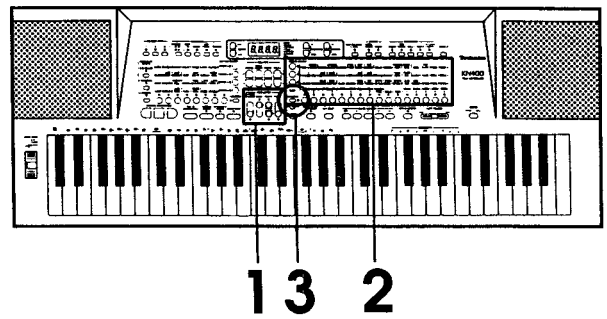


2 You can change the sound by pressing the **VARIATION** button to turn it on.

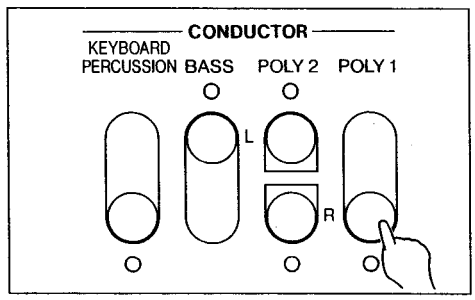


ENGLISH

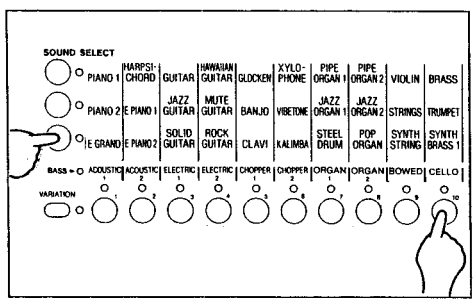
Using the Sound Select KN400



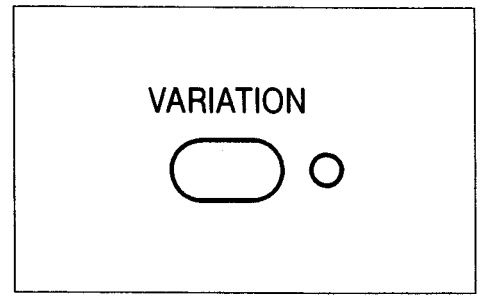
1 In the **CONDUCTOR** section, find the **POLY 1** button and press it to turn it on.



2 Select the sound by pressing the corresponding **SOUND SELECT** buttons in the vertical and horizontal rows.



3 You can change the sound by pressing the **VARIATION** button to turn it on.

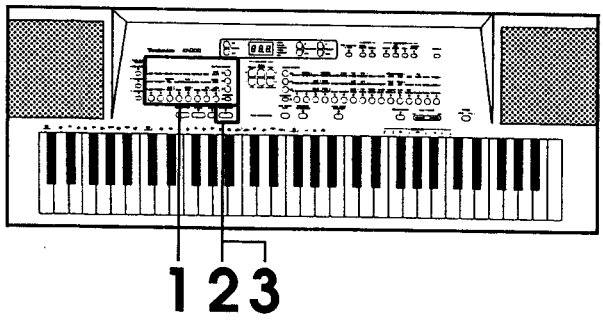


- You can mix two different sounds and play them on the entire keyboard, or you can "split" the keyboard into left and right parts and assign a different sound to each part. (Refer to Vol. 2, page 4.)

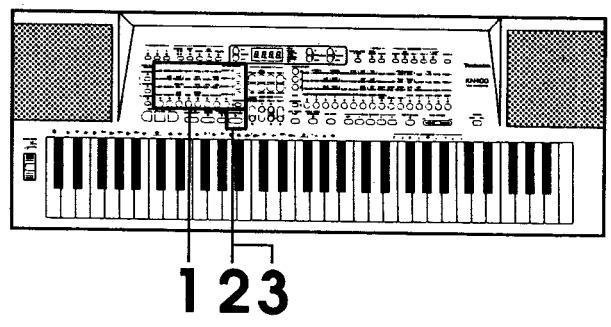
Playing automatic rhythms

Listen to a preset rhythm.

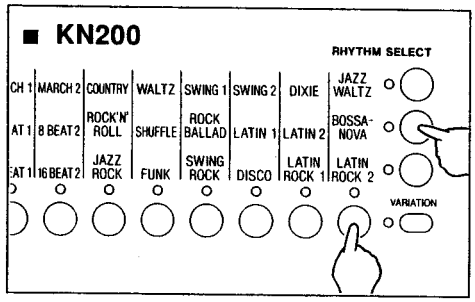
KN200

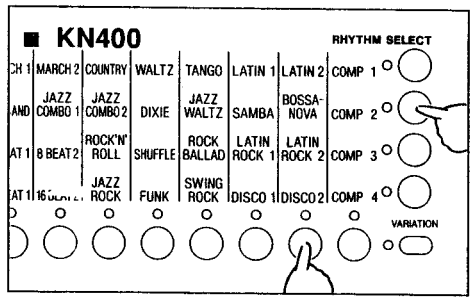


KN400

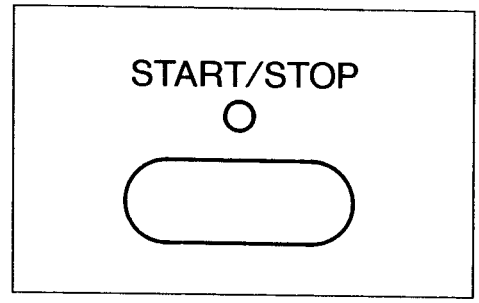


1 In the **RHYTHM SELECT** matrix, use the buttons in the horizontal and vertical rows to select a rhythm (for example, the **BOSSA NOVA** rhythm).





2 Start the rhythm by pressing the **START/STOP** button.

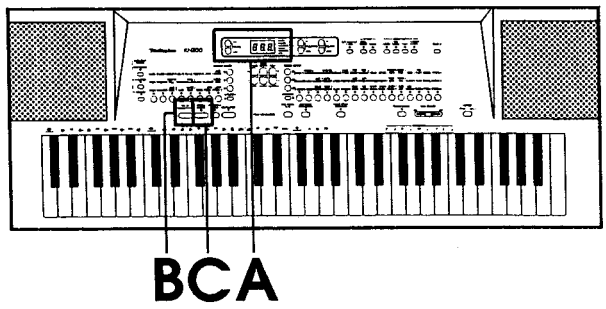


3 Stop the rhythm by pressing the **START/STOP** button again.

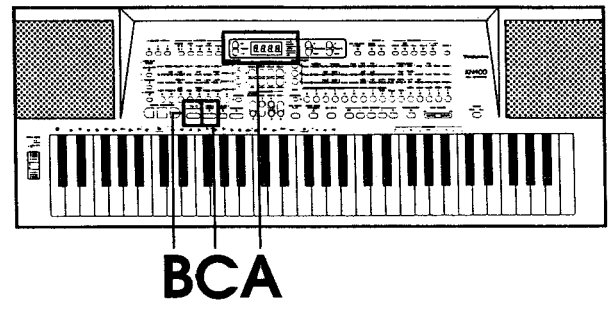
ENGLISH

Control the rhythm.

KN200

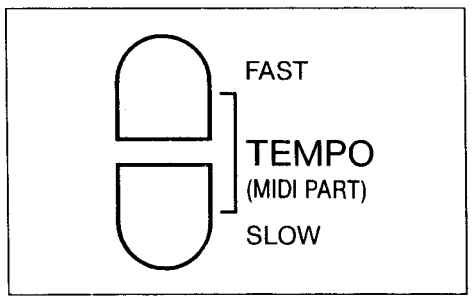


KN400



Adjust the tempo.

A Adjust the tempo with the **SLOW** and **FAST** buttons for **TEMPO**.



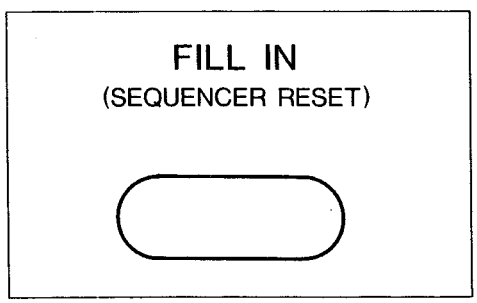
The tempo you set is shown on the display.

- **KN200**

- **KN400**

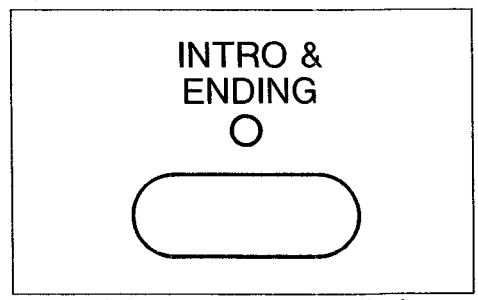
Insert a fill-in pattern.

B While the preset rhythm pattern is being played, press the **FILL IN** button.



Insert an intro/ending pattern.

C Before starting the rhythm, press the **INTRO & ENDING** button to turn it on. You will hear an intro pattern play before the regular preset rhythm starts.



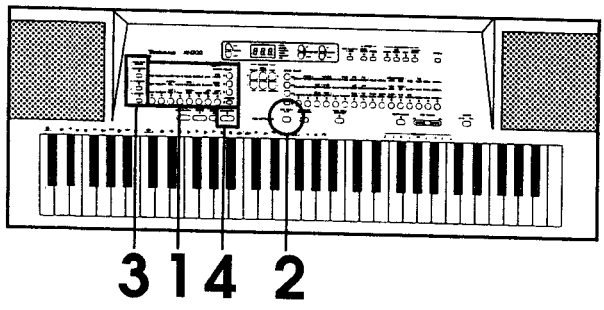
Now, while the rhythm is still playing, press the **INTRO & ENDING** button. You will hear an ending pattern, and then the rhythm stops.

Automatic accompaniment

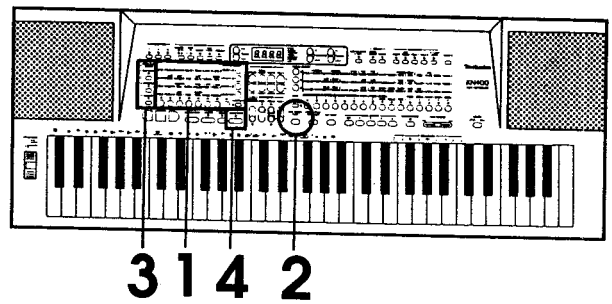
Simply by playing a chord on the keyboard, the **AUTO PLAY CHORD** function automatically plays an accompaniment pattern which matches the selected rhythm.

Use the AUTO PLAY CHORD

KN200

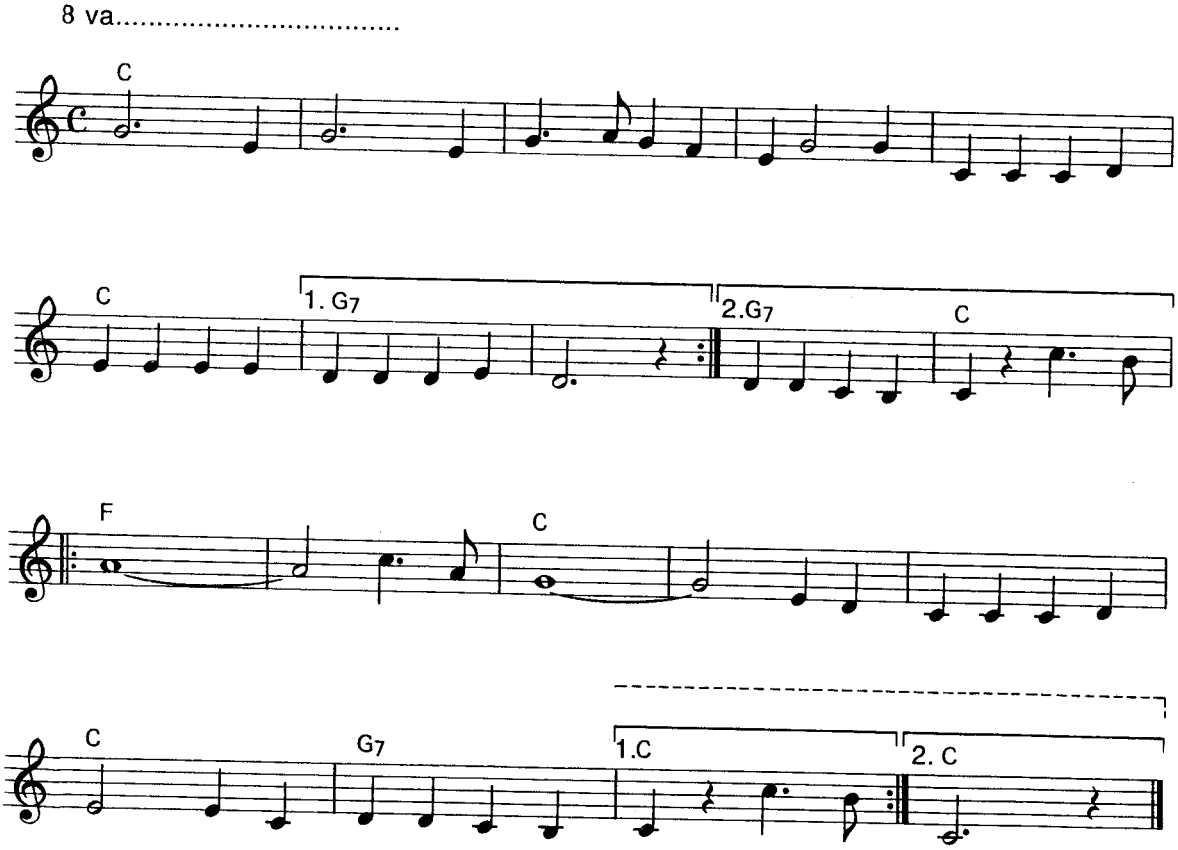


KN400



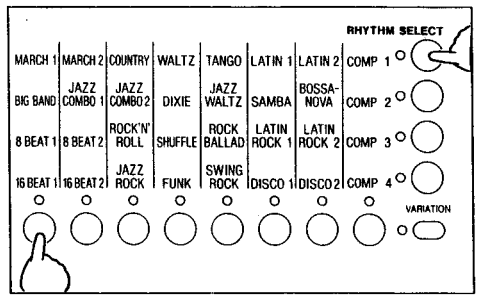
■ Use the **AUTO PLAY CHORD** with the following tune.

She Wore A Yellow Ribbon



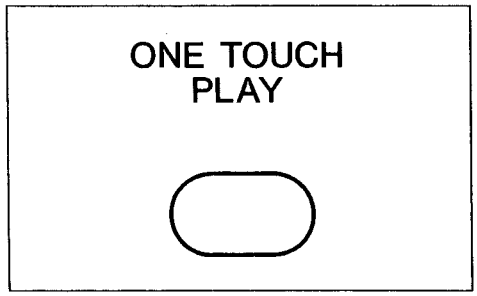
ENGLISH

1 Use the buttons in the **RHYTHM SELECT** matrix to select the **MARCH 1** rhythm.

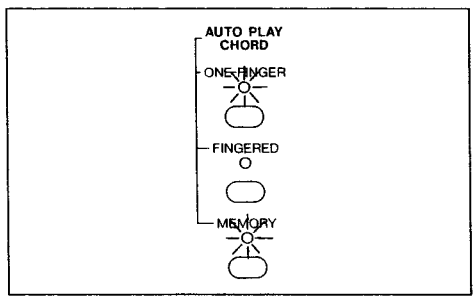


(KN400)

2 Press the **ONE TOUCH PLAY** button until the panel settings change.



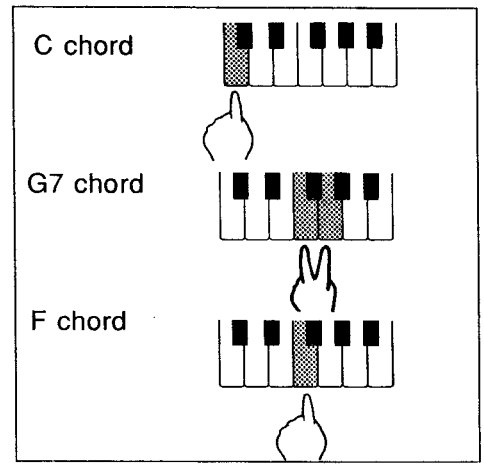
3 In the **AUTO PLAY CHORD** section, press the **ONE-FINGER** button to turn it on.



4 Use your left hand to play the chords and your right hand to play the melody.

- The automatic accompaniment starts to play.

Where C, G7 and F are indicated in the musical score, press the corresponding keys as shown here.

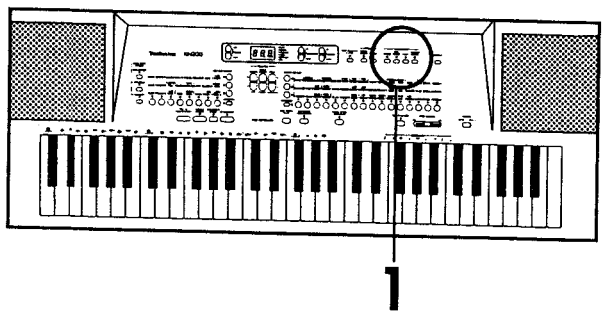


Storing a chord progression

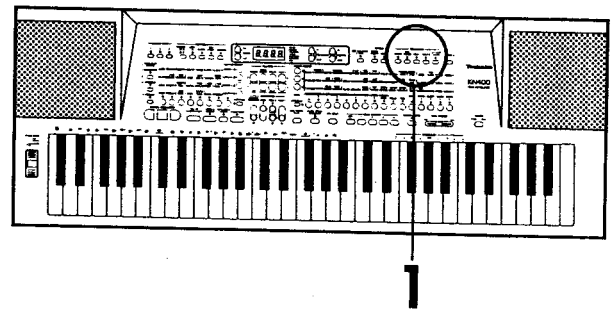
Before playing a tune on the keyboard, you can store its chord progression in the keyboard's internal **SEQUENCER** memory. Then you can concentrate on playing the melody while the chord progression is played back in an automatic accompaniment pattern.

Storing a chord progression in the Sequencer

KN200



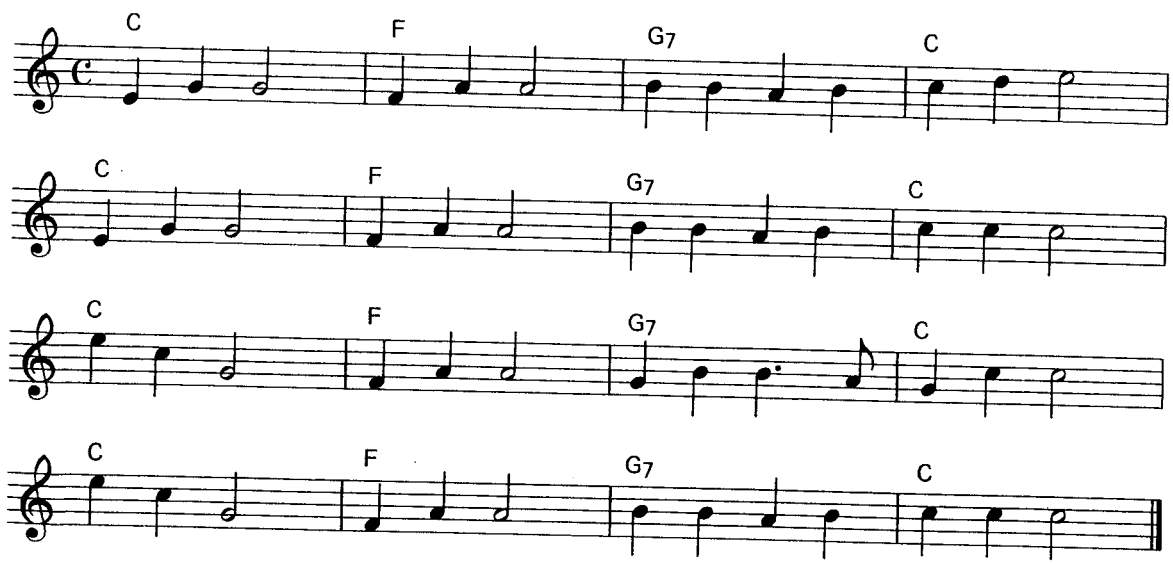
KN400



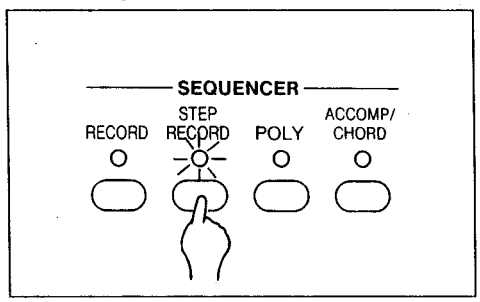
■ Store the chords in the following example.

Little Brown Jug

Sound KN200.....**POLY: TROMBONE**
KN400.....**POLY 1: TROMBONE**
Rhythm.....**DIXIE**
AUTO PLAY CHORD .....**ONE-FINGER** ON

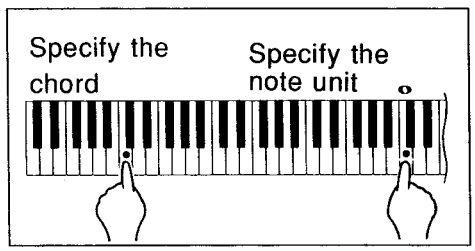


1 Press the **STEP RECORD** button of the **SEQUENCER** section. Its indicator lights.



- The **ACCOMP/CHORD** indicator flashes.

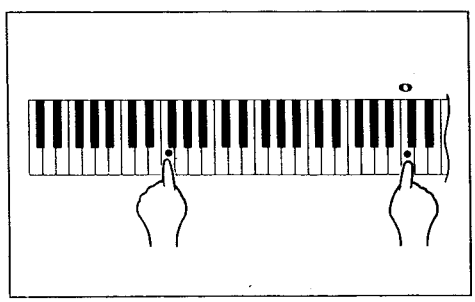
2 Store one measure of a C chord.



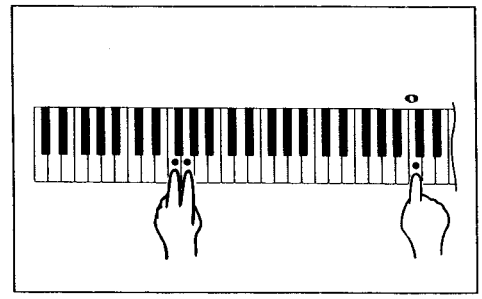
While holding down a C chord on the left part of the keyboard, press the o key to specify a whole note (one measure of C chord).

- A "beep" will sound to indicate that the chord has been stored.

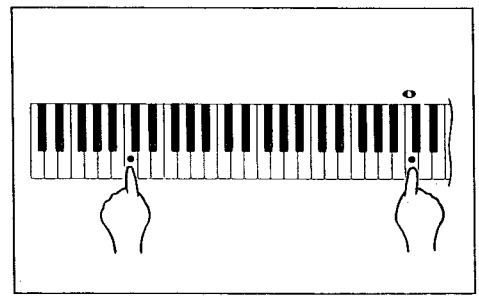
3 While holding down an F chord, press the o key.



4 While holding down a G7 chord, press the o key.

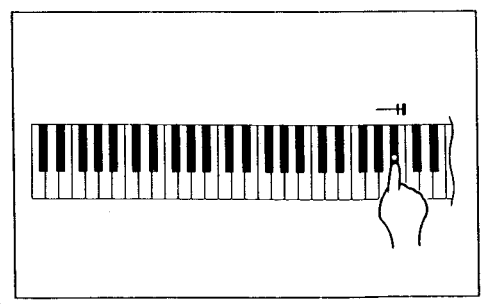


5 While holding down a C chord, press the o key.



6 Repeat steps 2~5 three more times to store the entire chord progression.

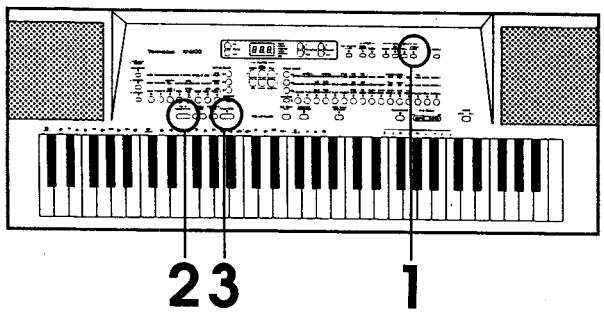
7 Press the —H key.



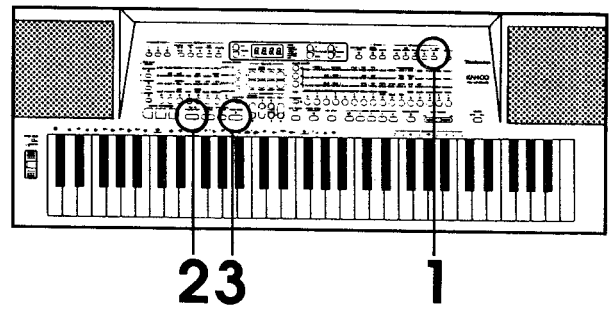
- The **STEP RECORD** indicator turns off and the **ACCOMP/ CHORD** indicator lights.

Playing back the chord progression

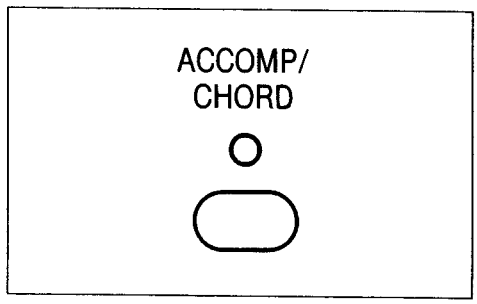
KN200



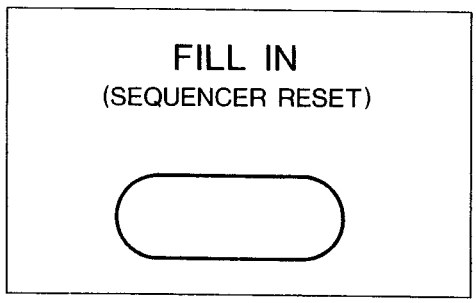
KN400



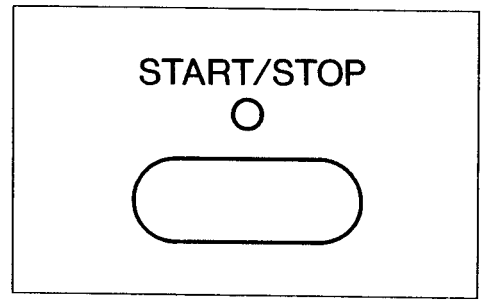
1 Confirm that the **ACCOMP/CHORD** button is on.



2 Press the **SEQUENCER RESET** button.



3 Press the **START/STOP** button. The automatic accompaniment pattern is played back following the chord progression which you stored.



Note for KN200:
If the power is turned off, the stored memory is erased.

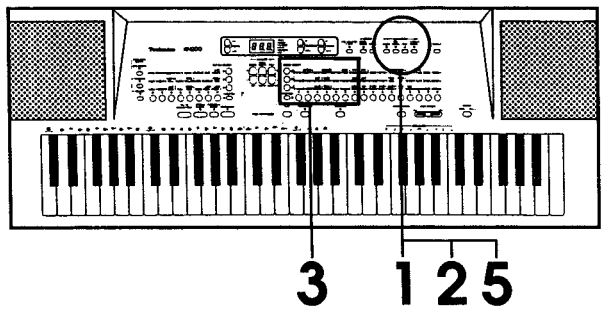
ENGLISH

Storing a performance

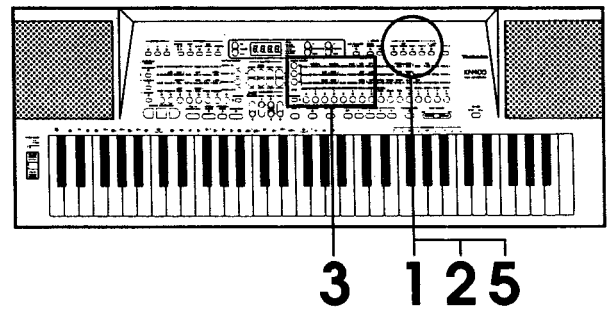
The **SEQUENCER** is a special feature that allows you to record your keyboard performance and have it played back automatically just as you performed it.

Storing your performance in the Sequencer

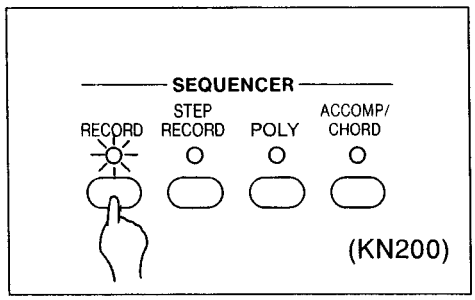
KN200



KN400

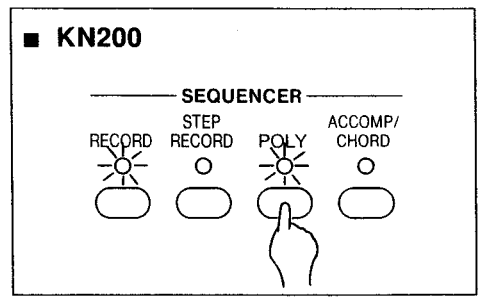


1 In the **SEQUENCER** section, press the **RECORD** button to turn it on.

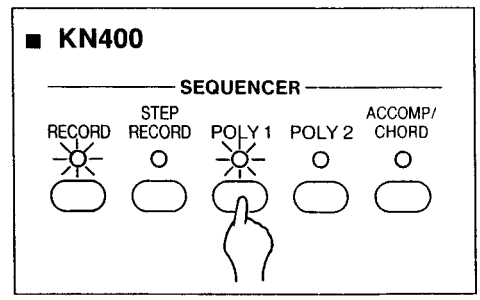


2 In the **SEQUENCER** section, press the **POLY** (KN200) or **POLY 1** (KN400) button to turn it on.

■ **KN200**



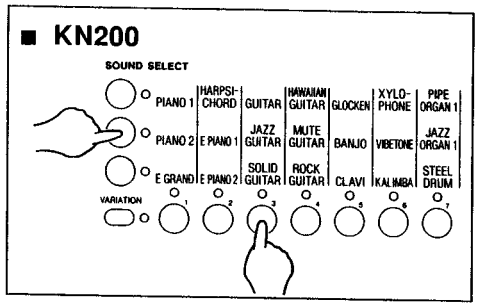
■ **KN400**



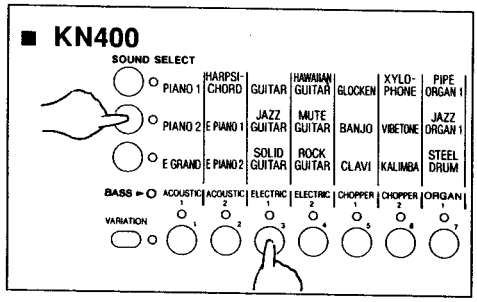
3

In the **SOUND SELECT** matrix, select a sound (for example, the **JAZZ GUITAR**).

■ **KN200**



■ **KN400**



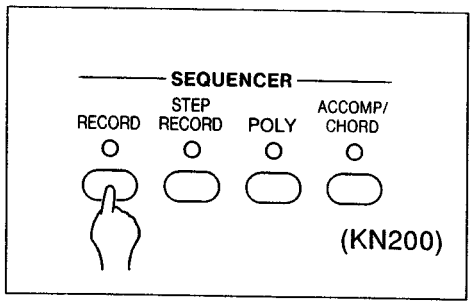
4

Play the melody on the keyboard.

- Actual recording begins when you press a key on the keyboard or the **START/STOP** button to start the rhythm.

5

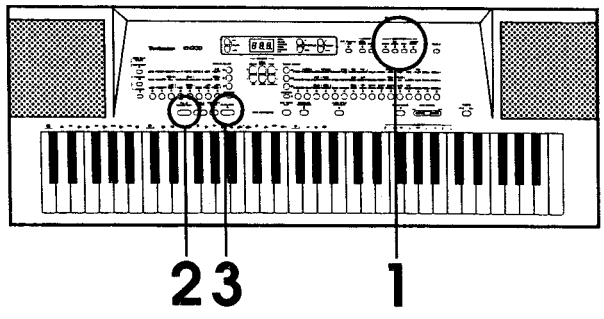
At the end of the tune, press the **RECORD** button in the **SEQUENCER** section again to turn it off.



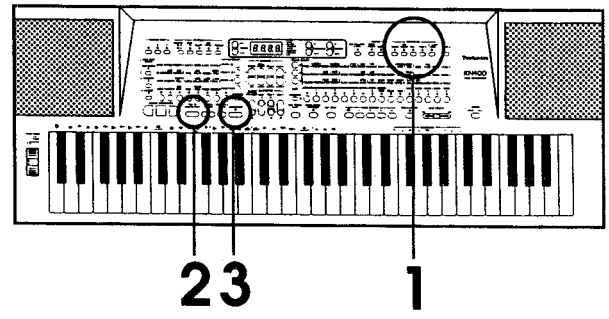
ENGLISH

Playing back your performance

KN200



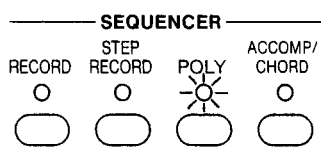
KN400



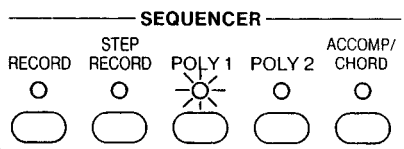
1 In the **SEQUENCER** section, check that the indicator for the **POLY** (KN200) or **POLY 1** (KN400) button is lit.

- If the indicator is not lit, press the button to turn it on.

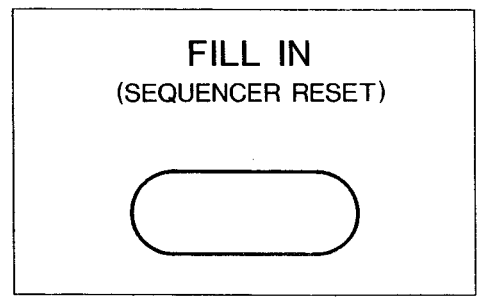
■ **KN200**



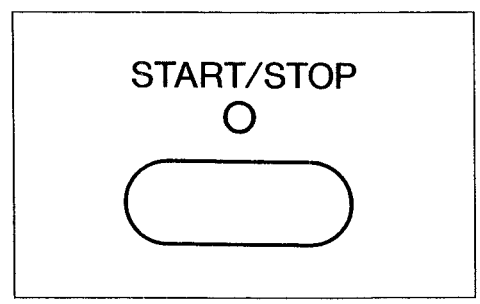
■ **KN400**



2 Press the **SEQUENCER RESET** button.



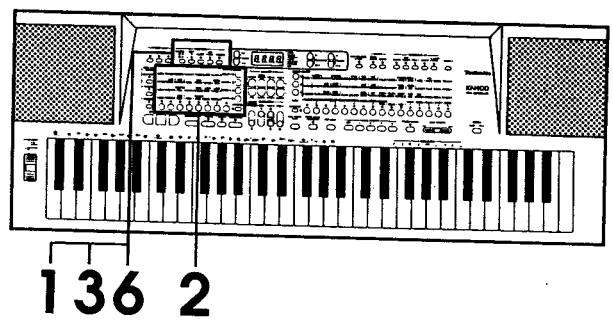
3 Press the **START/STOP** button. Your performance is played back just as you recorded it.



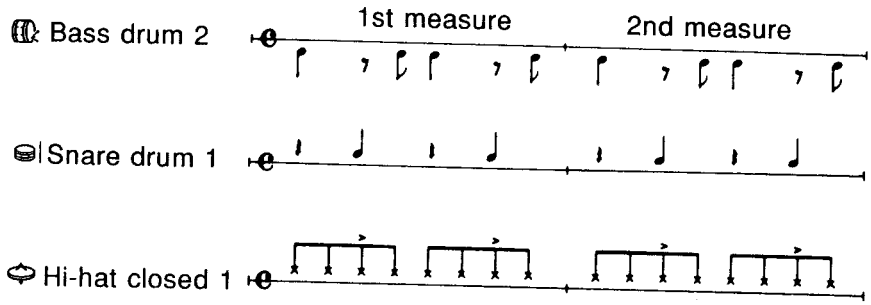
Creating a rhythm pattern (KN400)

The **COMPOSER** is the special function by which you create and store your original accompaniment pattern. Just like the **AUTO PLAY CHORD**, the **COMPOSER** can play back your original rhythm in the chords you specify on the keyboard.

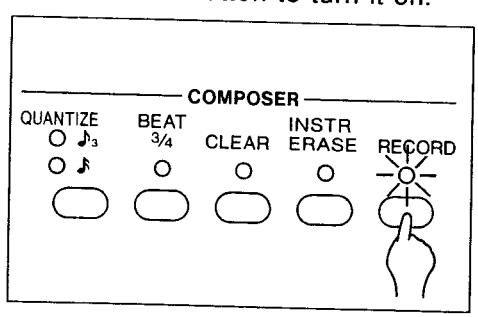
Storing a rhythm pattern in the Composer



Store the following rhythm.

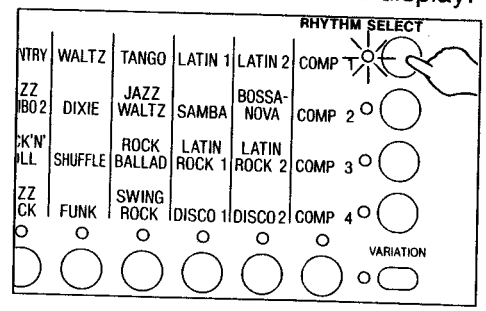


1 In the **COMPOSER** section, press the **RECORD** button to turn it on.



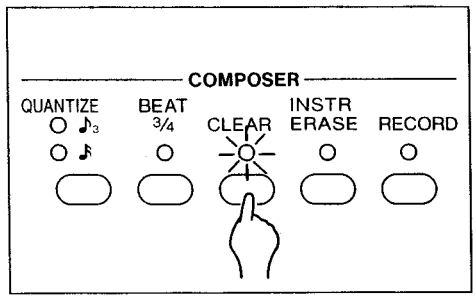
2 In the **RHYTHM SELECT** matrix, press the **COMP 1** button.

- Its indicator lights.
- " A L L " is shown on the display.



ENGLISH

3 In the **COMPOSER** section, press the **CLEAR** button.



4 In the **COMPOSER** section, press the **RECORD** button once.

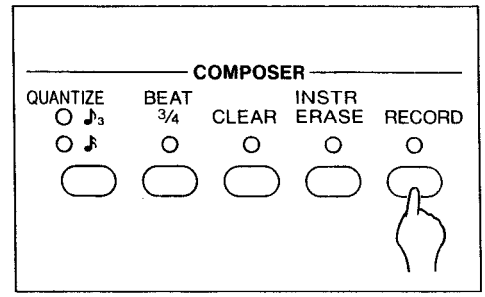
- " d r " (drum) is shown on the display.
- The sound of the metronome begins. This completes the preparation for storing in the **COMPOSER**.
- Adjust the tempo to the desired speed with the **TEMPO** buttons.

5 Play the rhythm pattern on the keyboard.

1) Find the key on the keyboard that has the bass drum 2 mark ($_2$) printed above it. Use this key to store two measures of the bass drum pattern in time with the metronome.
2) Then, in the same manner, use the snare drum 1 key ($_1$) to store two measures of the snare drum pattern.
3) Finally, use the hi-hat closed 1 key ($_1$) to store two measures of the hi-hat pattern.

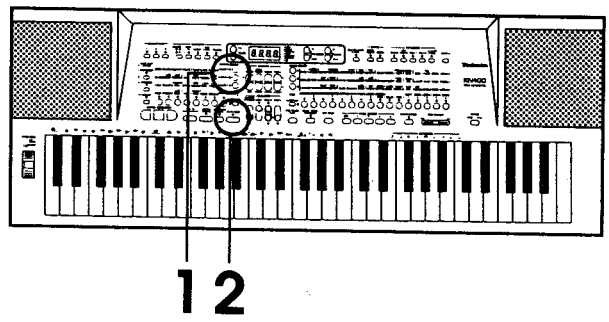
- The 2-measure pattern is repeatedly played back while you are recording.

6 In the **COMPOSER** section, press the **RECORD** button 5 times to turn it off.

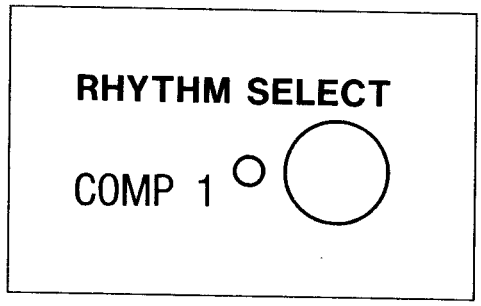


- In addition to rhythm patterns, you can also record chord and melody patterns and bass patterns. (Refer to Vol. 3, page 14.)

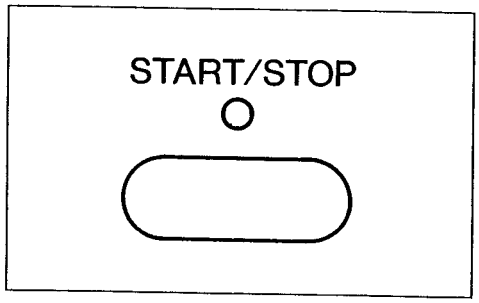
Playing back the rhythm pattern



1 In the **RHYTHM SELECT** section, confirm that the **COMP 1** indicator is lit.



2 Press the **START/STOP** button. Playback of your original accompaniment pattern starts or stops each time the **START/STOP** button is pressed.



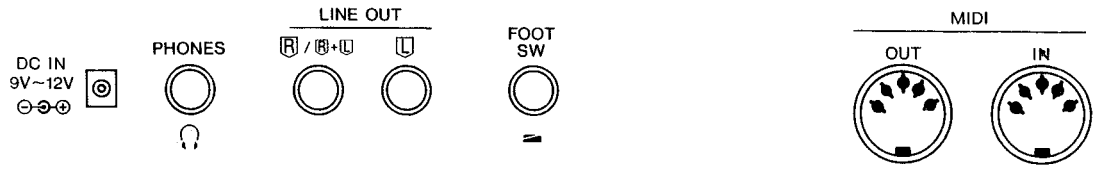
ENGLISH

Options and connections

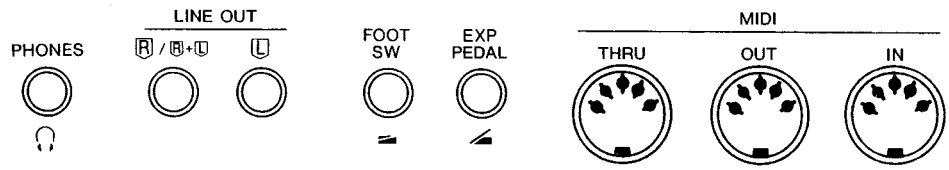
This page shows the optional accessories that are available for your Technics Keyboard. These can make your instrument more versatile and fun to play than it already is.

Also indicated are the many possible connections to the rear accessory panel.

KN200



KN400



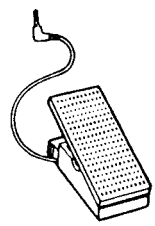
EXP PEDAL (KN400)
The SZ-E2 Expression Pedal allows you to control the volume (loudness) of all the keyboard sounds, leaving your hands free to play.

FOOT SW
When an SZ-P1 Foot Switch is connected to this terminal, you can choose from among several functions to control by foot. (Refer to Vol. 3, page 24.)

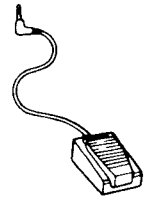
LINE OUT (output level 1.5V 600Ω)
By plugging into a high-power amplifier, the sound can be reproduced at high volume. (Use the **R/R+L** terminal when outputting monaural sound.)

PHONES (∩)
For silent practice headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.

DC IN 9V~12V (KN200)
Connect the exclusive AC adaptor to this terminal.



SZ-E2
Expression Pedal
(optional)



SZ-P1
Foot Switch
(optional)

Cautions for safest use of this unit

Installation location

1. **A well-ventilated place.**
   Take care not to use this unit in a place where it will not receive sufficient ventilation, and not to permit the ventilation holes to be covered by curtains, or any similar materials.
2. **Place away from direct sunlight and excessive heat from heating equipment.**
3. **A place where humidity, vibration and dust are minimized.**

Power source

■ **KN200**

1. **For the power source, use ONLY the included AC adaptor (SY-AD1). Use of a different AC adaptor may result in malfunction or even damage to the equipment.**
2. **If the unit is not to be used for some time, remove the AC adaptor from the wall socket.**

■ **KN400**

1. **Be sure the line voltage selector is in accordance with local voltage in your area before connecting the plug to the socket.**
2. **DC power cannot be used.**

Handling the power cord

1. **Never touch the power cord, or its plug, with wet hands.**
2. **Don't pull the power cord.**

Metal items inside the unit may result in electric shock or damage.

Do not permit metal articles to get inside the unit.
Be especially careful with regard to this point if children are near this unit. They should be warned never to try to put anything inside.
If, nevertheless, some such article does get inside, disconnect the power cord plug from the electrical outlet, and contact the store where the unit was purchased.

If water gets into the unit

Disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased. As a precaution, it is suggested that flower vases and other containers which hold liquids not be placed on the top of this unit.

If operation seems abnormal

Immediately turn off the instrument, disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased.
Discontinue using the unit at once. Failure to do so may result in additional damage or some other unexpected damage or accident.

A word about the power cord

If the power cord is scarred, is partially cut or broken, or has a bad contact, it may cause a fire or serious electrical shock if used. NEVER use a damaged power cord for any appliance. Moreover, the power cord should never be forcibly bent.

Don't touch the inside parts of this unit.

Some places inside this unit have high voltage potential. Never try to remove the top or back panels of this unit, or to touch inside parts by hand or with tools.
Contact someone who is qualified in order to inspect the inside, or to replace a fuse, if such becomes necessary. Never attempt to do these things yourself.

Maintenance

The following suggestions will assist you in keeping the unit in top condition.

- Be sure to switch the instrument off after use, and do not switch the unit on and off in quick succession, as this places an undue load on the electronic components.
- To keep the luster of the surface and buttons, simply use a clean, damp cloth; polish with a soft, dry cloth. Polish may be used but do not use thinners or petro-chemical-based polishes.
- A wax-based polish may be used on the cabinet, although you will find that rubbing with a soft cloth will suffice.

SERVICE MUST BE CARRIED OUT BY DEALER OR OTHER QUALIFIED PERSON.

Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics Keyboard but do not indicate trouble:

Phenomenon	Remedy
■ Sounds and effects	
The buttons, keys, etc. malfunction.	■ **KN200** • Turn off the **PLAY** button once, then turn it on again. All settings return to their factory-preset (initialized) status. ■ **KN400** • Turn off the **POWER** button once. Then, while pressing all three **MANUAL PERCUSSION** buttons, press the **POWER** button to turn it on. All settings return to their factory-preset (initialized) status.
No sound is produced when the keys are pressed.	• The **MAIN VOLUME** is at the minimum setting. Adjust the volume with the **MAIN VOLUME** control. • The **DEMO** ♪ button is on, and – – – (KN200) or – – – – (KN400) is shown on the display. Press the **DEMO** ♪ button to turn it off. The display returns to the tempo display. (Refer to Vol. 1, page 10.) • The **BALANCE** volumes are set to 0. **KN200**: Press the **POLY** (+) button in the **BALANCE** section to adjust the volume. (Refer to Vol. 2, page 5.) **KN400**: Press the + buttons for **POLY 1**, **POLY 2** and **BASS & ACCOMP** to adjust the volumes. (Refer to Vol. 2, page 5.) • The local control for a part performed on the keyboard is set to off. Set the local control to on. (Refer to Vol. 3, page 32.)
When many keys are pressed at the same time, not all of them sound.	• Up to 11 notes can be produced simultaneously. The number of notes which can be produced simultaneously may decrease depending on the selected sound, the **DIGITAL CELESTE** status, the **ACCOMP PART** status (KN400), etc.
When the **DIGITAL CELESTE** is on and you change the sound, the **DIGITAL CELESTE** turns off.	• KN400: The **DIGITAL CELESTE** effect does not function for **DUAL**, **DUET** and **TRIO** mode sounds. (Refer to the Reference Guide.)
CONDUCTOR, **AUTO PLAY CHORD** and **PANEL MEMORY** do not work.	• The MIDI receive mode is set to the multi mode. Set the receive mode to the single mode. (Refer to Vol. 3, page 32.)
The highest note of the **SOLID GUITAR** sound is strange.	• This is not a malfunction. When the **SOLID GUITAR** sound (**VARIATION** on) is assigned to the **POLY** part (KN200) or **POLY 1** or **2** part (KN400), or when the **SPECIAL 6** sound is assigned to the **ACCOMP PART**, the highest played note for that part becomes a cutting sound.

■ RHYTHM

The rhythm does not sound.	• The **BALANCE** volumes are set to 0. Press the **DRUMS** (+) button to adjust the volume. (Refer to Vol. 2, page 5.) • KN400: In the **RHYTHM SELECT** section, a **COMP** button with no stored performance was selected. Change the rhythm or store a new rhythm pattern in the **COMPOSER**. (Refer to Vol. 3, page 14.) • The MIDI clock is set to the external clock. Set the MIDI clock to the internal clock. (Refer to Vol. 3, page 33.)
The only rhythm produced is a hi-hat and bass drum sound.	• This is the rhythm sound produced when the **KEYBOARD PERCUSSION** button is on. When the **KEYBOARD PERCUSSION** button is turned off, the rhythm returns to normal.

■ AUTO PLAY CHORD

Some parts do not sound.	• Parts whose volumes are set to 0 with the **BALANCE** buttons or **SUB BALANCE/MIDI** button do not sound. Adjust the volume for each part with the respective **BALANCE** button or the **SUB BALANCE/MIDI** button. (Refer to Vol. 2, page 5.) • KN400: An **ACCOMP** part does not sound if its corresponding **ACCOMP PART 1**, **2** or **3** button is off. Press the desired **ACCOMP PART 1**, **2** and **3** buttons to turn them on. (Refer to Vol. 2, page 14.) • When the **KEYBOARD PERCUSSION** is played on the keyboard, the **ACCOMP** and **BASS** patterns do not sound. Turn off the **KEYBOARD PERCUSSION** button.

■ SEQUENCER

An error "beep" sounds when you attempt to record in the **SEQUENCER**.	• The remaining storage capacity of the **SEQUENCER** memory is 0.
Multi-track recording does not work.	• The playback track has been selected but the **START/STOP** button has not been pressed. A flashing track indicator shows the track which is ready for recording, and a lit track indicator shows a track which is ready for playback. To record one track while listening to another (playback) track, press the **START/STOP** button to begin playback. (Refer to Vol. 3, page 6.) • KN400: The part you wish to record is not turned on in the **CONDUCTOR** section. To record the **POLY 1** and **POLY 2** tracks simultaneously, turn on both the **POLY 1** and **POLY 2** buttons in the **CONDUCTOR**. (Refer to Vol. 3, page 7.)
KN400: The **POLY 1** and **ACCOMP/CHORD** buttons in the **SEQUENCER** are on, and no sound is produced when the keys are pressed.	• If **POLY 2** is turned on in the **CONDUCTOR** section when the **POLY 1** and **ACCOMP/CHORD** buttons in the **SEQUENCER** are on, the **FINGERED** or **ONE-FINGER** button in the **AUTO PLAY CHORD** is on, and the **ACCOMP PART 2** and **3** buttons are on, then no sound is produced when the keys are pressed.

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■ COMPOSER (KN400)

Storage is not possible.	• The remaining storage capacity of the **COMPOSER** memory is 0. Erase a **COMP 1~4** button in the **RHYTHM SELECT** section in which a pattern is stored. (Refer to Vol. 3, page 14.)
The stored rhythm pattern and the original pattern it was copied from are different.	• A two-measure pattern can be stored in the **COMPOSER**. Some of the rhythm and **AUTO PALY CHORD** patterns are four-measure patterns. When you copy a four-measure pattern, only two measures of the pattern are copied.
When editing a preset rhythm, the drums sound is not erased even when the **INSTR ERASE** button is pressed.	• Some of the drums sounds of preset rhythm patterns cannot be erased. Follow the **CLEAR** procedure. (Refer to Vol. 3, page 16.)

■ Other

Noise from a radio or TV can be heard.	• This sometimes occurs when electrical equipment such as a radio or TV is used near the Keyboard. Try moving such electrical equipment further away from the Keyboard. • The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or servicenter.
The cabinet becomes warm during use.	• This keyboard has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.

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Specifications

		SX-KN200	SX-KN400
KEYBOARD		61 KEYS	61 KEYS (TOUCH RESPONSE)
SOUND GENERATOR		PCM	
MAXIMAL NOTE NUMBER PRODUCING SIMULTANEOUSLY		11 NOTES	
SOUND	POLY (KN200) POLY 1, 2, ACCOMP (KN400)	PIANO 1, 2, ELECTRIC GRAND PIANO, HARPSICHORD, ELECTRIC PIANO 1, 2, GUITAR, JAZZ GUITAR, SOLID GUITAR, HAWAIIAN GUITAR, MUTE GUITAR, ROCK GUITAR, GLOCKEN, BANJO, CLAVI, XYLOPHONE, VIBETONE, KALIMBA, PIPE ORGAN 1, 2, JAZZ ORGAN 1, 2, STEEL DRUM, POP ORGAN, VIOLIN, STRINGS, SYNTH STRING, BRASS, TRUMPET, SYNTH BRASS 1, 2, FRENCH HORN, TROMBONE, ACCORDION, TENOR SAX, ALTO SAX, OBOE, CLARINET, HARMONICA, PAN FLUTE, FLUTE, WHISTLE, SPEICAL 1, 2, 3, 4, 5, 6 (WITH VARIATION FOR EACH SOUND)	
	BASS	—	ACOUSTIC 1, 2, ELECTRIC 1, 2, CHOPPER 1, 2, ORGAN 1, 2, BOWED BASS, CELLO, TUBA, SYNTH 1, 2, 3, 4, 5
EFFECT	DIGITAL CELESTE	○ (POLY)	○ (POLY 1, 2)
	SUSTAIN	○ (POLY, ACCOMP 1, 2 & 3, BASS)	○ (POLY 1, 2, ACCOMP 1, 2, 3, BASS)
	MODULATION	—	VIBRATO ON, OFF
	PITCH BEND	—	○ (PITCH BEND WHEEL)
TRANSPOSE		○	
TECHNI-CHORD		○	
RHYTHM		MARCH 1, 2, COUNTRY, WALTZ, SWING 1, 2, DIXIE, JAZZ WALTZ, 8 BEAT 1, 2, ROCK'N'ROLL, SHUFFLE, ROCK BALLAD, LATIN 1, 2, BOSSA NOVA, 16 BEAT 1, 2, JAZZ ROCK, FUNK, SWING ROCK, DISCO, LATIN ROCK 1, 2 (WITH VARIATION FOR EACH RHYTHM)	MARCH 1, 2, COUNTRY, WALTZ, TANGO, LATIN 1, 2, BIG BAND, JAZZ COMBO 1, 2, DIXIE, JAZZ WALTZ, SAMBA, BOSSA NOVA, 8 BEAT 1, 2, ROCK'N'ROLL, SHUFFLE, ROCK BALLAD, LATIN ROCK 1, 2, 16 BEAT 1, 2, JAZZ ROCK, FUNK, SWING ROCK, DISCO 1, 2 (WITH VARIATION FOR EACH RHYTHM)
	CONTROL	START/STOP, SYNCHRO & BREAK, FILL IN, INTRO & ENDING, TEMPO	
	MANUAL PERCUSSION	—	○
	KEYBOARD PERCUSSION	34 KEYS	
AUTO PLAY CHORD		ONE-FINGER, FINGERED, MEMORY	
ACCOMP PART		—	1, 2, 3
ONE TOUCH PLAY		○	
PANEL MEMORY		—	SET, 1~4
SEQUENCER		2 TRACKS (PART: POLY, ACCOMP/CHORD) STRAGE CAPACITY: APPROX. 1600 NOTES INPUT MODE: REAL TIME, STEP (ACCOMP/CHORD ONLY)	3 TRACKS (PART: POLY 1, 2, ACCOMP/CHORD) STRAGE CAPACITY: APPROX. 1600 NOTES INPUT MODE: REAL TIME, STEP (ACCOMP/CHORD ONLY)
COMPOSER		—	5 TRACKS (PART: DRUMS, BASS, ACCOMP 1, 2, 3) STRAGE CAPACITY: APPROX. 600 NOTES INPUT MODE: REAL TIME EDIT FUNCTION: CLEAR, INSTR ERASE, QUANTIZE, BEAT
DISPLAY		○	
DEMO		○	
CONTROL		BALANCE, SUB BALANCE/MIDI	BALANCE, SUB BALANCE/MIDI, CONDUCTOR (POLY 1, 2, BASS, KEYBOARD PERCUSSION)
MIDI		PART (POLY, BASS, ACCOMP 1, 2, 3, DRUMS, CONTROL), BASIC CHANNEL (1~16), RECEIVE MODE, TRANSMIT MODE, LOCAL CONTROL, PROGRAM CHANGE, NOTE ONLY, MIDI CLOCK, START/STOP	PART (POLY 1, 2, BASS, ACCOMP 1, 2, 3, DRUMS, CONTROL), BASIC CHANNEL (1~16), RECEIVE MODE, TRANSMIT MODE, LOCAL CONTROL, PROGRAM CHANGE, PANEL MEMORY PROGRAM CHANGE, NOTE ONLY, MIDI CLOCK, START/STOP
TERMINALS		HEADPHONE TERMINAL, LINE OUT (R/R+L), MIDI TERMINAL (IN, OUT), FOOT SWITCH	HEADPHONE TERMINAL, LINE OUT (R/R+L, L), MIDI TERMINAL (IN, OUT, THRU), FOOT SWITCH, EXPRESSION PEDAL
OTHERS		PLAY SWITCH, MAIN VOLUME	POWER SWITCH, MAIN VOLUME
OUTPUT		2.5W×2	5.5W×2
SPEAKERS		12cm×2	12cm×2
POWER REQUIREMENT		9~12 V DC (WITH EXCLUSIVE AC ADAPTOR SY-AD1)	35W, 23W (NORTH AMERICA) AC120/220/240V 50/60Hz, AC120V 60Hz (NORTH AMERICA AND MEXICO)
DIMENSIONS (W×H×D)		95.1 cm×14.7 cm×36.6 cm (37-7/16"×5-25/32"×14-13/32")	
NET WEIGHT		8.0 kg (17.6 lbs)	8.9 kg (19.6 lbs)
ACCESSORIES		MUSIC STAND, AC ADAPTOR	MUSIC STAND, AC CORD