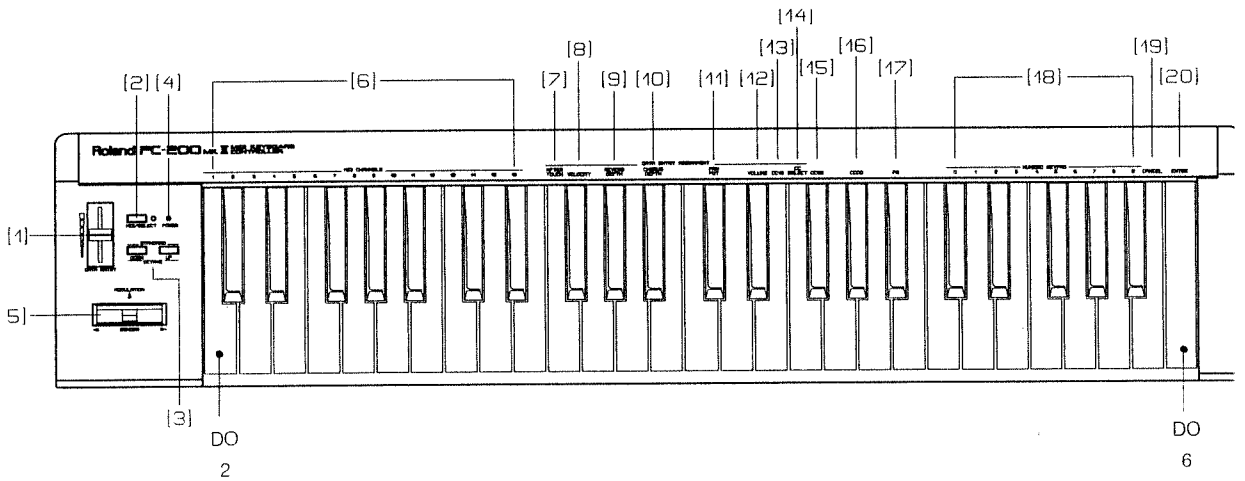
Roland®

MIDI KEYBOARD CONTROLLER

PC-200 MK II

Owner's Manual

— 2nd Edition —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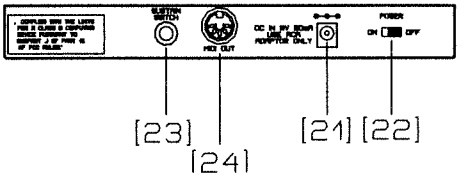
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FEATURES

- The PC-200 MK II is a 49-note, polyphonic MIDI KEYBOARD CONTROLLER with dynamic keyboard.
- One MIDI OUT Socket is provided for connecting to other MIDI devices.
- As the PC-200 MK II is a MIDI keyboard controller, it is not provided with an internal sound source system, but it can be connected to other MIDI devices such as sound modules, sequencers, synthesizers and computers.
- The PC-200 MK II can control external instruments provided with GS Format generation.

Thank you for purchasing the ROLAND PC-200 MK II.
The PC-200 MK II is an easy-to-operate keyboard that anyone can play.
This Owner's Manual is written to help you have many years of musical enjoyment with your PC-200 MK II.

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PANEL DESCRIPTION

[1] DATA ENTRY POTENTIOMETER
[2] MIDI PARAMETER SELECTION (Button)
[3] OCTAVE SELECTION (Buttons)
[4] POWER ON (LED)
[5] BENDER/MODULATION LEVER
[6] MIDI CHANNEL SELECTION (Keyboard Keys)
[7] DATA ENTRY **AFTER TOUCH** ASSIGNMENT (Keyboard Key)
[8] DATA ENTRY **VELOCITY** ASSIGNMENT (Keyboard Key)
[9] DATA ENTRY **REVERB SEND LEVEL** ASSIGNMENT (Keyboard Key)
[10] DATA ENTRY **CHORUS SEND LEVEL** ASSIGNMENT (Keyboard Key)
[11] DATA ENTRY **PAN POT** ASSIGNMENT CC-10 (Keyboard Key)
[12] DATA ENTRY **VOLUME** ASSIGNMENT CC-07 (Keyboard Key)
[13] DATA ENTRY **CC-16** ASSIGNMENT (Keyboard Key)
[14] DATA ENTRY **GENERIC CC** ASSIGNMENT (Keyboard Key)
[15] CC-32 BANK SELECTION (Keyboard Key)
[16] CC-00 BANK SELECTION (Keyboard Key)
[17] PROGRAM CHANGE SELECTION (Keyboard Key)
[18] NUMERIC KEYPAD (Keyboard Keys)
[19] CANCEL (Keyboard Key)
[20] ENTER (Keyboard Key)
[21] AC ADAPTOR SOCKET
[22] POWER ON/OFF SWITCH
[23] SUSTAIN SWITCH (Socket)
[24] MIDI OUT (Socket)

ACCESSORIES SUPPLIED

Supplied with your PC-200 MK II is a MIDI Cable and 6 alkaline batteries type MN 1500. These will be found into the carton.

— Turn the instrument over.
— Open the plastic cover and take out the battery compartment/holder, located in the lower part of the instrument.
— Insert batteries in the appropriate compartment.
— Place the holder back again into the appropriate location and close the plastic cover.
— The batteries life expectancy is approximately 30 hours.

IMPORTANT NOTES

* If you wish to use the instrument with external AC Adaptor, use only type Boss ACA (optional) and follow these precautions:
* The appropriate Power Supply for the instrument (100, 120, 220 or 240 V) is shown on the AC Adaptor name plate.
* Please do not use the same socket used for any noise generating device (such as a motor, variable lighting system).
* It's normal for the unit to become hot while being operated.
* If the unit is not to be used for a long period of time, unplug the External AC Adaptor from the AC Line.
* Disconnect the AC Adaptor immediately in the event of an electrical storm.
* Before setting up this keyboard with other MIDI devices, turn this keyboard off along with all other units.
* Be sure to connect the MIDI cables securely. If the MIDI cable is disconnected while the instrument is being played, various troubles will occur (e.g. the note may continue to sound).
* Static electricity may cause the built-in computer to malfunction.
  Should this occur, simply reset the instrument by turning the power switch off and then after a few seconds, back on.
* This instrument might not operate correctly if turned on immediately after being turned off. If this happens, simply turn it off and after a few seconds, turn it on again.
* Operating the PC-200 MK II near a neon light, fluorescent lamp, TV or CRT display, may cause noise interference. If so, change the position of the instrument.
* To avoid risk of electrical shock do not perform any servicing.
  Refer all servicing to qualified service personnel.

THE CARE OF YOUR PC-200 MK II

To ensure the best use and full enjoyment of your PC-200 MK II, please read this guide carefully and thoroughly.

Room location

Avoid using this instrument in excessive heat or humidity conditions or where it may be affected by direct sunlight or dust and avoid places subject to high vibrations.

Cabinet care

Use a soft dry cloth for dusting. To remove finger-prints or dulling film, use a soft cloth slightly dampened with water and a little mild detergent. Immediately wipe dry with a soft cloth. Do not use solvents such as paint thinners.

OPERATION

After having inserted the six batteries into the appropriate holder, press the Power ON/OFF switch **[22]** to operate the PC-200 MK II.

To use the PC-200 MK II with the AC-Adaptor (Optional), connect the AC-Adaptor to the 9 Volts DC-IN Socket **[21]**, located on the rear panel of the instrument.

Make sure that the line voltage in your country meets the requirement. Connect the AC-Adaptor to the AC Line. Press the Power On/Off switch **[22]** to activate the instrument.

DATA ENTRY CONTROL

The Data Entry Control **[1]** enables the modification of the following parameters:
- After Touch
- Keyboard Velocity Curve
- Reverb Send Level (CC-91)
- Chorus Send Level (CC-93)
- Volume (CC-07)
- Pan Pot (CC-10)
- Music "RO" note length (CC-16)
- Assignable Generic CC

AFTER TOUCH

If the DATA ENTRY Control **[1]** is assigned to the After Touch function by moving the control, After Touch messages will be sent via MIDI according to the DATA ENTRY Control position.

By raising or lowering the DATA ENTRY Control, a modification of the After Touch can be obtained.

How to assign the DATA ENTRY Control to After Touch:

- Press the MIDI/SELECT button **[2]** (LED lit).
- Press F3 Key (After Touch) **[7]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control, After Touch messages will be sent via MIDI according to the DATA ENTRY Control position.

VELOCITY

This parameter is used to modify the keyboard dynamic sensitivity.

To raise the dynamic sensitivity level simply move the DATA ENTRY Control away from you. To lower the dynamic sensitivity simply move the DATA ENTRY Control toward you.

How to assign the DATA ENTRY Control to Velocity Curve:

- Press the MIDI/SELECT button **[2]** (LED Lit).
- Press F#3 key (VELOCITY) **[8]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control, the dynamic sensitivity of the keyboard will be raised or lowered.

REVERB SEND LEVEL

If the DATA ENTRY Control **[1]** is assigned to the Reverb Send Level function by moving the control, CC-91 Reverb Send Level messages will be sent via MIDI according to the DATA ENTRY Control position.

By raising or lowering the DATA ENTRY Control, a modification of the Reverb Send Level can be obtained.

How to assign the DATA ENTRY Control to Reverb Send Level:

– Press the MIDI/SELECT button **[2]** (LED Lit).
– Press G#3 key (Reverb Depth) **[9]**.
– Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control, Reverb Send Level messages will be sent via MIDI according to the DATA ENTRY Control position.

CHORUS SEND LEVEL

If the DATA ENTRY Control **[1]** is assigned to the Chorus Send Level function by moving the control, CC-93 Chorus Send Level messages will be sent via MIDI according to the DATA ENTRY Control position.

By raising or lowering the DATA ENTRY Control, a modification of the Chorus Send Level can be obtained.

How to assign the DATA ENTRY Control to Chorus Send Level:

– Press the MIDI/SELECT button **[2]** (LED Lit).
– Press Bb3 key (Chorus Depth) **[10]**.
– Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control, Chorus Send Level messages will be sent via MIDI according to the DATA ENTRY Control position.

VOLUME (CC-07)

When the instrument is turned on, the DATA ENTRY Control **[1]** affects the VOLUME (CC-07).

By raising or lowering the DATA ENTRY, a modification of the volume can be obtained.

How to assign the DATA ENTRY Control to Volume:

— Press the MIDI/SELECT button **[2]** (LED Lit).
— Press Eb4 key (VOLUME) **[12]**.
— Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control, Volume messages (CC-07) will be sent according to the DATA ENTRY Control position.

PAN POT (CC-10)

This parameter is used to change the Panoramic STEREO effect of a sound.

To hear this effect, connect the PC-200 MK II to a stereo Sound Module, Synthesizer or other stereo MIDI devices.

How to assign the DATA ENTRY Control to Pan Pot:

— Press the MIDI/SELECT button **[2]** (LED Lit).
— Press C#4 key (PAN POT) **[11]**.
— Press the MIDI/SELECT button **[2]** once more (LED Off).

Now by moving the DATA ENTRY Control Pan-Pot messages (CC-10) will be sent according to the DATA ENTRY Control position.

A sound effect coming from the left side can be heard moving the DATA ENTRY Control away from you.

A sound effect coming from the right side can be heard moving the DATA ENTRY Control toward you.

A central positioned sound can be obtained setting the DATA ENTRY Control to the central position.

OCTAVE

UP : C3-C7
DOWN : C1-C5
STANDARD: C2-C6

OCTAVE "UP"/"DOWN"

To transpose the PC-200 MK II by twelve semitones (one octave up or down) press one of the corresponding OCTAVE buttons **[3]**.

OCTAVE STANDARD

To reset the original octave (default) STANDARD: C2-C6, press both OCTAVE buttons.

MIDI CHANNEL SELECTION

How to select MIDI transmit channels 1-16:

— Press the MIDI/SELECT button **[2]** (LED Lit).
— Select any one of the 16 Midi Channels **[6]** by pressing one of the following keys:

C 2 = tx midi ch 1
C# 2 = tx midi ch 2
D 2 = tx midi ch 3
Eb 2 = tx midi ch 4
E 2 = tx midi ch 5
F 2 = tx midi ch 6
F# 2 = tx midi ch 7
G 2 = tx midi ch 8
Ab 2 = tx midi ch 9
A 2 = tx midi ch 10
Bb 2 = tx midi ch 11
B 2 = tx midi ch 12
C 3 = tx midi ch 13
C# 3 = tx midi ch 14
D 3 = tx midi ch 15
Eb 3 = tx midi ch 16

— Press the MIDI/SELECT button **[2]** once more (LED Off).

PROGRAM CHANGE SELECTION

The PC-200 MK II makes it possible to send Program Change messages according to the new GS Format (CC-00/CC-32/PG).

To send the three messages used in GS Format to select one of the Sounds (CC-00, CC-32, PG) follow this procedure:

- Press the MIDI/SELECT button **[2]** (LED Lit).
- Press the Ab4 key (CC-00) **[16]**.
- Enter the value of the CC-00, using the keys assigned to the NUMERIC KEYPAD function **[18]**.
- Press the F#4 key (CC-32) **[15]**.
- Enter the value of the CC-32, using the keys assigned to the NUMERIC KEYPAD function.
- Press the Bb4 Key (PG) **[17]**.
- Enter the number of the Program Change, using the keys assigned to the NUMERIC KEYPAD function.
- In case of mistake, digit again the value of the Program Change, using the keys assigned to the Numeric Keypad function.
- Confirm the sending of the three values by pressing the C6 key (ENTER) **[20]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).

The three values (CC-00, CC-32, PG) will be sent only when the "ENTER" key is pressed.

If you select no values for CC-00 or CC-32, selecting and sending a PG, the previous selected CC-00 and CC-32 values will be sent together with the PG message.

Example:

To send Program Change no. 125 with CC-00=5 and CC-32=0:

- Press the MIDI/SELECT button **[2]** (LED Lit).
- Press the Ab4 key (CC-00) **[16]**.
- Enter the value "5" for the "CC-00", in the keys assigned to the NUMERIC KEYPAD function **[18]**.
- Press the F#4 key (CC-32) **[15]**.
- Enter the value "0" for the "CC-32", in the keys assigned to the NUMERIC KEYPAD function.
- Press the Bb4 key (PG) **[17]**.
- Enter the value "125" for the "PG", in the keys assigned to the NUMERIC KEYPAD function.
- Confirm the selections to be sent, pressing the C6 key (ENTER) **[20]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).

Whenever the key C6 (ENTER) is pressed, the last CC-00, CC-32, PG message selected will be sent.

CONTROL CHANGE 16

This parameter can be used when connecting the PC-200 MK II to the Roland computer software "MUSIC-RO".

The MIDI message "CONTROL CHANGE 16" enables to control the length of MIDI notes; it is sent out through MIDI OUT with a value selectable from 0 to 127.

How to assign the DATA ENTRY Control to MIDI CC-16:

- Press the MIDI/SELECT button **[2]** (LED Lit).
- Press the E4 key (CC 16) **[13]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).
- Now by moving the DATA ENTRY Control **[1]**, CC-16 messages will be sent according to the DATA ENTRY Control position.

DATA ENTRY ASSIGN FOR GENERIC CC (Select CC)

The PC-200 MK II allows you to send via MIDI any of the 128 Control Changes of MIDI standard.

To assign one of the MIDI Control Changes to the DATA ENTRY control, follow this procedure:

- Press the MIDI/SELECT button **[2]** (LED Lit).
- Press F4 key (CC XX) **[14]**.
- Enter the number of the CC that you wish to send via MIDI (0 ~ 127), using the keys assigned to the NUMERIC KEYPAD function **[18]**.
- Confirm the selection by pressing the C6 key (ENTER) **[20]**.
- Press the MIDI/SELECT button **[2]** once more (LED Off).
- Now by moving the DATA ENTRY Control **[1]**, CC-XX messages will be sent via MIDI, according to the position of the DATA ENTRY Control.

IF YOUR PC-200 MK II FAILS TO OPERATE

- Make sure that the Alkaline Batteries (MN 1500) are not below their charge limits.
- Be sure the Power ON/OFF switch **[22]** located on the rear panel is ON.
- When using the AC Adaptor, make sure that the AC Adaptor cord is firmly plugged into the socket **[21]** on the rear panel.
  Make sure that the AC cord of the Adaptor is firmly plugged into the AC wall outlet.
- Also check that the AC wall outlet is not faulty. Plug in a lamp or radio to test the wall outlet.
- In the event the instrument is still inoperable, your Roland technician or dealer is best qualified to provide you with competent service. Do not attempt any adjustments or repairs by yourself.

DEFAULT SETTING

The PC-200 MK II will always select the following default values for their parameters when it is turned on holding down, at the same time, the two buttons OCTAVE UP and OCTAVE DOWN **[3]**.

- Transmit Midi Channel no. 1.
- CC-00=0, CC-32=0, PG=1 are transmitted when the ENTER key is pressed.
- DEFAULT OCTAVE will be from C 2 (36) to C 6 (84) **"STANDARD"**.
- Velocity curve is set at value **"High"**.
- DATA ENTRY Control is assigned to **"Volume"** (CC-07).

MIDI CONTROL

M.I.D.I. is the acronym for Musical Instrument Digital Interface.

MIDI is a standardized interface by which all digital musical instruments also equipped with MIDI connections can exchange data.

This means that your PC-200 MK II can be used as a MIDI keyboard to control other MIDI devices.

There is one MIDI "OUT" socket on the rear panel of the PC-200 MK II to send MIDI messages to control external MIDI devices.

SPECIFICATIONS

Keyboard:
Dynamic 49 keys

Midi Controllers:
- After Touch
- Velocity
- Reverb Level
- Chorus Level
- Volume
- Pan Pot
- CC-16 (For MUSIC RO)
- Any MIDI Control Change

Octave:
Up, Down, Standard

MIDI Selection:
MIDI Channels (1-16)

Program Change selection:
CC-00/CC-32 according to new GS Format

Pitch Bender/Modulation Lever

Rear panel terminal:
- Power ON/OFF switch
- Sustain Switch socket
- AC Adaptor socket
- MIDI OUT socket

Dimensions:
816×175×80 mm.

Weight:
Kg 2,5

Accessories supplied:
MIDI Cable
6 Alkaline Batteries (type MN 1500)

Optional:
BOSS AC Adaptor ACA 220 (9v/300mA) for 220 V Connection
BOSS AC Adaptor ACA 240 (9v/100mA) for 240 V Connection
BOSS AC Adaptor ACA 120 (9v/200mA) for 117 V Connection
BOSS AC Adaptor ACA 100 (9v/150mA) for 100 V Connection

MIDI IMPLEMENTATION CHART

MODEL PC-200 MK II
(Midi Keyboard Controller)

Date: 1992
Version: 01.00

FUNCTION...		TRANSMITTED	RECOGNIZED	REMARKS
Basic Channel	Default	1	X	
	Changed	1-16	X	(a)
Mode	Default	Mode 3	X	
	Messages	X	X	
	Altered	**********	X	
Note Number		24—96	X	
	True voice	**********	X	
Velocity	Note ON	○	X	
	Note OFF	X	X	
After Touch	Key's	X	X	
	Ch's	○	X	(b)
Pitch Bender		○	X	
Control Change		○	X	(b)
Program Change		1—128	X	
	True #	**********	X	
System Exclusive		X	X	
System Common	: Song Pos	X	X	
	: Song Sel	X	X	
	: Tune	X	X	
System Real Time	: Clock	X	X	
	: Commands	X	X	
Aux Messages	: Local ON/OFF	X	X	
	: All notes OFF	X	X	
	: Active Sense	○	X	
	: Reset	X	X	
Notes		(a) = Memorized (b) = Messages are tx over particular conditions		

Mode 1: OMNI ON, POLY
Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY
Mode 4: OMNI OFF, MONO

○: YES
X: NO

Transmit Data

- Channel Voice Message -

■ Note Off

Status	Second	Third
9nH	kkH	00H

n = MIDI channel number: 0H - FH (0-15) 0 = ch.1 15 = ch.16
kk = Note number: 24H - 54H (36-84)

The range of note number can be changed by octave up/down.

■ Note On

Status	Second	Third
9nH	kkH	vvH

n = MIDI channel number: 0H - FH (0-15) 0 = ch.1 15 = ch.16
kk = Note number: 24H - 54H (36-84)
vv = Velocity: 01H - 7FH (1-127)

The range of note number can be changed by octave up/down.

■ Control Change

Status	Second	Third
CnH	kkH	vvH

n = MIDI channel number: 0H - FH (0- 15) 0 = ch.1 15 = ch.16
kk = Control number: 00H - 7FH (0-127)
vv = value: 00H - 7FH (0-127) for continuous controller
vv = value: 00H off for switch controller
vv = value: 7FH on for switch controller

■ Channel pressure (Channel after touch)

Status	Second
DnH	kkH

n = MIDI channel number: 0H - FH (0- 15) 0 = ch.1 15 = ch.16
kk = value: 00H - 7FH (0-127)

- System Realtime Message -

■ Active sensing

Status
FEH

Active sense is always transmitted every 300 milli-seconds.

Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

U. S. A.
Roland Corporation US
7200 Dominion Circle
Los Angeles, CA.
90040-3647, U. S. A.
☎ (213)685 - 5141

CANADA
Roland Canada Music Ltd.
(Head Office)
5480 Parkwood
Richmond B. C., V6V 2M4
CANADA
☎ (604)270 - 6626

Roland Canada Music Ltd.
9425 Transcanadienne
Service Rd. N., St Laurent,
Quebec H4S 1V3,
CANADA
☎ (514)335 - 2009

Roland Canada Music Ltd.
346 Watline Avenue,
Mississauga, Ontario L4Z
1X2, CANADA
☎ (416)890 - 6488

AUSTRALIA
Roland Corporation
(Australia) Pty. Ltd.
(Head Office)
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
☎ (02)982 - 8266

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(Australia) Pty. Ltd.
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50 Garden Street
South Yarra, Victoria 3141
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☎ (03)241 - 1254

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Calle Bolivia 239
08020 Barcelona, SPAIN
☎ 93 - 308 - 1000

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Roland Elektronische
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Handelsgesellschaft mbH.
Oststrasse 96, 2000
Norderstedt, GERMANY
☎ 040/52 60 090

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102 Avenue Jean-Jaures
69007 Lyon Cedex 07
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For West Germany

Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

Roland PC-200 MK II MIDI Keyboard Controller

(Gerät. Typ. Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046/1984

(Amtsblattverfügung)

funk-entstört ist.

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

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- Dies bezieht sich nur auf die von Roland Elektronische Musikinstrumente Handelsgesellschaft mbH. vertriebenen Produkte.
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For the USA

RADIO AND TELEVISION INTERFERENCE

WARNING — This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception. This equipment has been 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. These rules are designed to provide reasonable protection against such a interference in a rasidential installation. However, there is no guarantee that the 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 on and off, the user is encouraged to try to correct the interference by the following measure:

- Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable.
  These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.
  If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures.
- Turn the TV or radio antenna until the interference stops.
- Move the equipment to one side or the other of the TV or radio.
- Move the equipment farther away from the TV or radio.
- Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV. If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:
  "How to Identify and Resolve Radio — TV Interference Problems"
  This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

- Above statements apply ONLY to the products distributed by Roland Corporation US, 7200 Dominion Circle, Los Angeles, CA 90040.

For Canada

CLASS B **NOTICE**

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

- The above applies only for the products distributed by Roland Canada Music Ltd., 5480 Parkwood Way, Richmond, B.C. V6V 2M4.

CLASSE B **AVIS**

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Réglement des signaux parasites par le ministère canadien des Communications.

- Ceci ne s'applique qu'aux produits distribués par Roland Canada Music Ltd., 5480 Parkwood Way, Richmond, B.C. V6V 2M4.

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