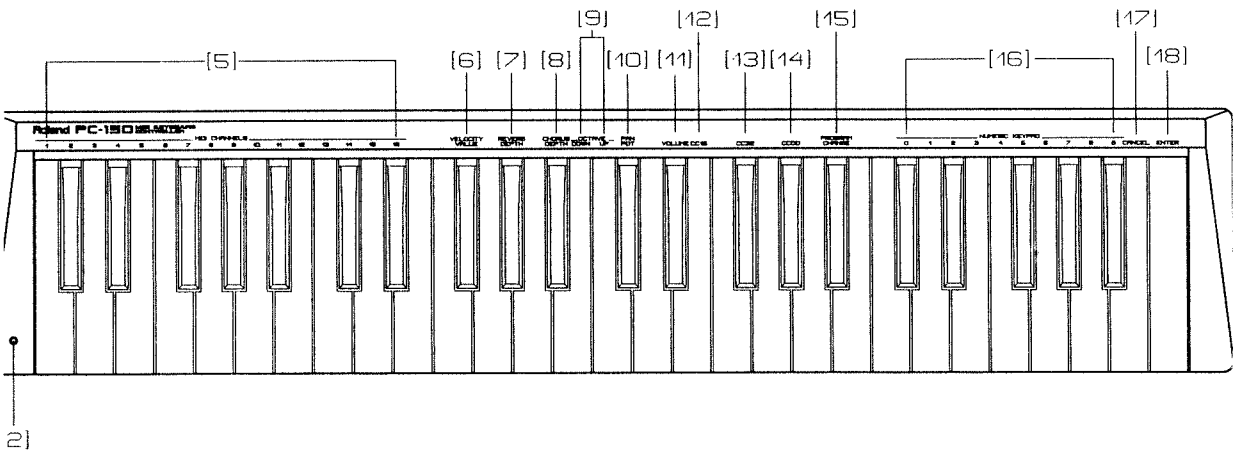
Roland®

MIDI KEYBOARD CONTROLLER

# PC-150

**Owner's Manual**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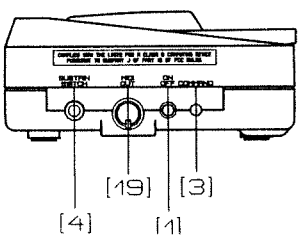
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# FEATURES

— The PC-150 is a 49-note, polyphonic MIDI KEYBOARD CONTROLLER.
— One MIDI OUT Socket is provided for connecting to other MIDI devices.
— As the PC-150 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, synthesizers, sequencers and computers.
— The PC-150 can control external instruments provided with GS Format generation.

Thank you for purchasing the ROLAND PC-150.
The PC-150 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-150.

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**PANEL DESCRIPTION**

**[1]** POWER ON/OFF SWITCH
**[2]** POWER ON LED
**[3]** COMMAND BUTTON
**[4]** SUSTAIN SWITCH
**[5]** MIDI CHANNEL SELECTION
**[6]** VELOCITY SELECTION
**[7]** REVERB SEND LEVEL SELECTION
**[8]** CHORUS SEND LEVEL SELECTION
**[9]** OCTAVE UP/DOWN SELECTION
**[10]** PAN POT SELECTION
**[11]** VOLUME SELECTION
**[12]** CC-16 SELECTION
**[13]** CC-32 SELECTION
**[14]** CC-00 SELECTION
**[15]** PG (PROGRAM CHANGE) SELECTION
**[16]** NUMERIC KEYPAD
**[17]** CANCEL
**[18]** ENTER
**[19]** MIDI OUT SOCKET

# ACCESSORIES SUPPLIED

Supplied with your PC-150 is a MIDI Cable and 4 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 and press the "RESET" button, located at the bottom of the instrument, by means of a pen.
— Place the holder back again into the appropriate location and close the plastic cover.
— The batteries life expectancy is approximately 200 hours.

# IMPORTANT NOTES

* This unit is supplied with a Power Safe Circuit to preserve the battery life. After 10 minutes of inactivity the keyboard is automatically switched off.
  Press the power ON/OFF switch and the keyboard will turn on again.
* The PC-150 operates with 4 Alkaline MN 1500 batteries.
* 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-150 near a neon light, fluorescent lamp, TV or CRT display, may cause noise interference. If so, change the position of the instrument.

  Refer all servicing to qualified service personnel.

# THE CARE OF YOUR PC-150

To ensure the best use and full enjoyment of your PC-150, 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 fingerprints 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.

## GS FORMAT

The PC-150 does not have internal sound generation but can control external devices provided with GS Format generation.
GS Format was created to standardize MIDI control of sound modules.
This section will give you an overview of GS Format.

## WHAT IS GS FORMAT?

Until now, the correspondence between the various instruments and the way they were controlled depended upon the MIDI sound generation module.
This is the reason why it occurred very often that some musical excerpts created with a particular MIDI sound module could not be reproduced with another sound module without radically changing them. The transmission and reception of "MIDI" messages has been standardized by "MIDI" specs, but the operations related to the choice of sound, the control of effects are often not compatible between the different sound modules. To solve this problem ROLAND has introduced **GS Format** to standardize the control of sound modules via "MIDI". If a device contains a sound module that conforms to GS specifications, it can reproduce performance created with other GS devices. GS Format was designed considering future expansions and will be incorporated into many devices from now on.
All of the instruments developed with GS Format will have the "GS" mark on their panels.
Note: The GS Format includes all the features of the "General MIDI System - Level 1".

## THE PC-150 CAN CONTROL THE FOLLOWING GS FORMAT FEATURES

* Internal Sounds and Exchangeability:
  GS Format includes standard instruments (Capital) that can reproduce many musical styles such as: classical, jazz, rock, pop, as well as musical variations of the "Capital" sounds, called "Variation".
  The GS sound modules will include more or less "Variation" sounds, but will surely entail all "Capital" sounds.
  GS Format also includes different sets of drum instruments which can be chosen according to the musical style.
* Program Change:
  In order to select one of the programs (Sounds) of the module via "MIDI" messages, GS Format includes a combination of "Control Change" messages used to select the variation Bank and Program Change for the selection of the sound program. This method enables to expand the "MIDI" threshold which, using the Program Change feature, included only up to 128 programs.
  Control Change messages no. 00 and no. 32 enable selection of various banks of "Variation" sounds.
  The program change to follow will recall the sound relative to the bank selected. Bank 0 contains all "Capital" sounds.
  Should the bank selected in the Program Change not include any sound, the first sound available in the previous bank having the same "Program Change" will be selected.
  In case no "Variation Sound" exists for the "Program Change selected, the "Capital Sound" shown by the "Program Change" sent will be selected.

## POWER ON

After having inserted the six batteries into the appropriate compartment, press the "RESET" button located at the bottom of the instrument by means of a pen, to activate the PC-150.

## OPERATION

Holding down the COMMAND BUTTON **[3]** and using the keyboard keys assigned to NUMERIC KEYPAD **[16]** function, enables the modification of the following parameters:

- VOLUME (CC-07)
- REVERB LEVEL (CC-91)
- CHORUS LEVEL (CC-93)
- PAN POT (CC-10)
- VELOCITY
- CC-00
- CC-32
- PG

  These messages are used to select also the sub capital sounds in the new GS Format.

- CC-16 (Used with "MUSIC RO")

## VOLUME (CC-07)

To send the MIDI message "VOLUME" (CC-07) follow this procedure:

- Press and hold "COMMAND" button **[3]**
- Press the Eb4 key (VOLUME) **[11]**.
- Enter the value of the volume, by means of the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value by pressing the key C6 "ENTER" **[18]**.

If a value greater than 127 is set, then 127 is sent as MIDI volume message.

## REVERB SEND LEVEL (CC-91)

To send the MIDI message "REVERB SEND LEVEL" (CC-91) follow this procedure:

- Press and hold "COMMAND" button **[3]**.
- Press the G#3 key (REVERB DEPTH) **[7]**.
- Enter the value of the Reverb Send Level by means of the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value by pressing the Key C6 "ENTER" **[18]**.

If a value greater than 127 is set, then 127 is sent as Reverb Send Level message.

## CHORUS SEND LEVEL (CC-93)

To send the MIDI message "CHORUS SEND LEVEL" (CC-93) follow this procedure:

- Press and hold "COMMAND" button **[3]**.
- Press the Bb3 key (CHORUS DEPTH) **[8]**.
- Enter the value of the Chorus Send Level by means of the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value by pressing the key C6 "ENTER" **[18]**.

If a value greater than 127 is set, then 127 is sent as Chorus Send Level message.

## PAN POT (CC-10)

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

To hear this effect, connect the PC-150 to a stereo sound module, Synthesizer or other stereo MIDI devices.

To send the MIDI message "PAN POT" (CC-10) follow this procedure:

- Press and hold the "COMMAND" button **[3]**.
- Press the C#4 key (PAN POT) **[10]**.
- Enter the value of the "PAN POT", by means of the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value by pressing the key C6 "ENTER" **[18]**.

A value of 64 corresponds to the center position in the stereo field. 127 means Right and 0 Left.

If a value greater than 127 is set, then 127 is sent as PAN POT message.

## VELOCITY

This parameter is used to modify the MIDI keyboard dynamic value sent.

To set the value of "VELOCITY" to send, follow this procedure:

- Press and hold the "COMMAND" button **[3]**.
- Press the F#3 key (VELOCITY) **[6]**.
- Enter the value of the "VELOCITY" to be sent, by means of the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value by pressing the Key C6 "ENTER" **[18]**:

## OCTAVE

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

## OCTAVE "UP"

To transpose the PC-150 by twelve semitones (one octave) up follow this procedure:

— Press and hold the "COMMAND" button **[3]**.
— Press the C4 key (OCTAVE UP) **[9]**.

## OCTAVE "DOWN"

To transpose the PC-150 by twelve semitones (one octave) down, follow this procedure:

— Press and hold the "COMMAND" button **[3]**.
— Press the B3 key (OCTAVE DOWN) **[9]**.

## MIDI CHANNEL SELECTION

To select MIDI transmit channels 1-16:

— Press and hold the "COMMAND" button **[3]**.
Now the keyboard is disabled, as it is programming.
— Select any one of the 16 Midi Channels **[5]** 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

## PROGRAM CHANGE SELECTION

The PC-150 makes it possible to send Program Change messages according to the new GS Format (CC-00/CC-32/PG).

— Press and hold the "COMMAND" button **[3]**.
Now the keyboard will be disabled, as it is programming.
— Press the Ab4 key (CC-00) **[14]**.
— Enter the value of the CC-00, using the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Press the F#4 key (CC-32) **[13]**.
— Enter the value of the CC-32, using the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Press the Bb4 key (PG) **[15]**.
— Enter the number of the Program Change, using the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Confirm the sending of the three values by pressing the C6 key (ENTER) **[18]**.

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 and hold the "COMMAND" button **[13]**.
Now the keyboard will be disabled, as it is programming.
— Press the Ab4 key (CC-00) **[14]**.
— Enter the value "5" for the "CC-00", in the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Press the F#4 key (CC-32) **[13]**.
— Enter the value "0" for the "CC-32" using the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Press the Bb4 key (PG) **[15]**.
— Enter the value "125" for the "PG" using the keys assigned to the NUMERIC KEYPAD function **[16]**.
— Confirm the selections to be sent, pressing the C6 key (ENTER) **[18]**.

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-150 to the Roland computer software "MUSIC RO".

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

To send the CONTROL CHANGE 16 message, follow this procedure:

- Press and hold the "COMMAND" button **[3]**.
- Press the E4 key (CC 16) **[12]**.
- Enter the value of the CC-00, using the keys assigned to the NUMERIC KEYPAD function **[16]**.
- Confirm the value to be sent by pressing the C6 key "ENTER" **[18]**.

## 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-150 can be used as a MIDI control keyboard to control other MIDI devices (Keyboard, sequencer, etc), or MIDI sound sources (to be controlled by other MIDI devices).

There is one MIDI "OUT" socket on the rear panel of the PC-150 to send MIDI messages to control external MIDI devices.

## IF YOUR PC-150 FAILS TO OPERATE

Make sure that the 4 Alkaline Batteries (MN 1500) are not below their charge limits.

- Be sure the ON/OFF POWER switch (located on the side panel) is ON.
- If you exchanged the batteries, be sure to have pressed the "RESET" button to correctly activate your PC-150.
- 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-150 will always select the following default values for their parameters when it is turned on holding down the "COMMAND" button **[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)
- MIDI Volume is set at 127
- Chorus Level is set at 0
- Reverb Level is set at 100
- Pan Pot Position is set at 64 (Central position)
- Velocity is set at value 64
- CC-16 is set at 0

# SPECIFICATIONS

**Keyboard:**

49 keys

**Midi Controllers:**

— Volume
— Reverb Level
— Chorus Level
— Pan Pot
— Velocity
— CC-16 (For "MUSIC RO")

**Octave:**

Up, Down

**MIDI Selection:**

MIDI Channels (1-16)
CC-00, CC-32 (Sub Capital Selection)
Program Change numbers (1-128)

**Side panel terminal:**

— Power ON/OFF button
— COMMAND button
— Sustain Switch socket
— MIDI OUT socket

**Dimensions:**

740×155×65 mm.

**Weight:**

Kg 2,0

**Accessories supplied:**

MIDI Cable
4 Alkaline Batteries (type MN 1500)

# MIDI IMPLEMENTATION CHART

MODEL PC-150
(Midi Keyboard Controller)

Date: 1992
Version: 01.00

| FUNCTION... | | TRANSMITTED | RECOGNIZED | REMARKS |
|---|---|---|---|---|
| **Basic Channel** | Default | 1 | X | |
| | Changed | 1-16 | X | |
| **Mode** | Default | Mode 3 | X | |
| | Messages | X | X | |
| | Altered | ********** | X | |
| **Note Number** | | 24—96 | X | |
| | True voice | ********** | X | |
| **Velocity** | Note ON | ○ | X | The velocity level is selectable |
| | Note OFF | X | X | |
| **After Touch** | Key's | X | X | |
| | Ch's | X | X | |
| **Pitch Bender** | | X | X | |
| **Control Change** | 0,32 | ○ (*) | X | Bank select |
| | 07 | ○ (*) | X | Volume |
| | 10 | ○ (*) | X | Pan Pot |
| | 16 | ○ (*) | X | Note length (**) |
| | 64 | ○ | X | Sustain |
| | 91 | ○ (*) | X | Reverb |
| | 93 | ○ (*) | X | Chorus |
| **Program Change** | True # | 1—128 | X | |
| | | ********** | 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** | | (*) = Can be set ○ or X manually<br>(**) = Used with "MUSIC RO" | | |

**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, ( 0)
kk = control number: 20H, (32) → Bank select
kk = control number: 07H, ( 7) → Volume
kk = control number: 0AH, (10) → Pan Pot
kk = control number: 10H, (16) → Note length
kk = control number: 40H, (64) → Sustain
kk = control number: 5BH, (91) → Reverb
kk = control number: 5DH, (93) → Chorus
vv = value: 00H - 7FH (0-127) for continuous controller
vv = value: 00H off for switch controller
vv = value: 7FH on for switch controller

## - 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

Roland Corporation
(Australia) Pty. Ltd.
(Melbourne Office)
50 Garden Street
South Yarra, Victoria 3141
AUSTRALIA
☎ (03)241 - 1254

**TAIWAN**
Siruba Enterprise(Taiwan)
Co., LTD.
Room. 5, 9fl. No. 112
Chung Shan N.Road Sec.2
Taipei, TAIWAN, R.O.C.
☎ (02)5364546

**SPAIN**
Roland Electronics
de España, S. A.
Calle Bolivia 239
08020 Barcelona, SPAIN
☎ 93 - 308 - 1000

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

**FRANCE**
Musikengro
102 Avenue Jean-Jaures
69007 Lyon Cedex 07
FRANCE
☎ (7)858 - 54 60

Musikengro (Paris Office)
Centre Region Parisienne
41 rue Charles-Fourier,
94400 Vitry s/Seine
FRANCE
☎ (1)4680 86 62

**BELGIUM/ HOLLAND/ LUXEMBOURG**
Roland Benelux N. V.
Houtstraat 1
B-2260 Oevel-Westerlo
BELGIUM
☎ (0032)14 - 575811

**SOUTH AFRICA**
That Other Music
Shop(PTY) LTD.
256 Bree Street,
Johannesburg 2001
Republic of South Africa
☎ 337 - 6573

Paul Bothner(PTY) LTD.
17 Werdmuller Centre
Claremont 7700
Republic of South Africa
☎ 021 - 64 - 4030

**NEW ZEALAND**
Roland Corporation
(NZ) Ltd.
97 Mt. Eden Road, Mt,
Eden, Auckland 3,
NEW ZEALAND
☎ (09)3098 - 715

**SWITZERLAND**
Musitronic AG
Gerberstrasse 5, CH-4410
Liestal, SWITZERLAND
☎ 061/921 16 15

Roland CK (Switzerland)
AG
Postfach/Hauptstrasse 21
CH-4456 Tenniken
SWITZERLAND
☎ 061/98 60 55
Repair Service by
Musitronic AG

**AUSTRIA**
E. Dematte &Co.
Neu-Rum Siemens-
Strasse 4
A-6021 Innsbruck Box 591
AUSTRIA
☎ (0512)63 451

**GREECE**
V. Dimitriadis & Co. Ltd.
2 Phidiou Str., GR 106 78
Athens, GREECE
☎ 1 - 3620130

**PORTUGAL**
Casa Caius Instrumentos
Musicais Lda.
Rua de Santa Catarina 131
Porto, PORTUGAL
☎ 02 - 38 44 56

**DENMARK**
Roland Scandinavia A/S
Langebrogade 6
Box 1937
DK-1023 Copenhagen K.
DENMARK
☎ 31 - 95 31 11

## HUNGARY
Intermusica Ltd.
Warehouse Area 'DEPO'
Torokbalint, Budapest
HUNGARY
☎ (1)1868905

## ISRAEL
D.J.A. International Ltd.
25 Pinsker St., Tel Aviv
ISRAEL
☎ 972 - 3 - 5283015

## CYPRUS
Radex Sound Equipment Ltd.
17 Panteli Katelari Str.
P.O.Box 2046, Nicosia
CYPRUS
☎ 453426, 466423

## TURKEY
Barkat Sanayi ve Ticaret
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Taksim Istanbul, TURKEY
☎ 149 93 24

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Service Division
22-32 Pun Shan Street,
Tsuen Wan, New
Territories, HONG KONG
☎ 415 - 0911

## KOREA
Cosmos Corporation
Service Station
261 2nd Floor Nak-Won arcade
Jong-Ro ku, Seoul, KOREA
☎ (02) 742 8844

## SINGAPORE
Swee Lee Company
Bras Basah Complex
#03-23 Singapore 0178
SINGAPORE
☎ 3367886

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330 Verng Nakorn Kasem,
Soi 2, Bangkok 10100,
THAILAND
☎ 2248821

## EGYPT
Al Fanny Trading Office
9, Ebn Hagar Askalany
Street, Ard El Golf,
Heliopolis, Cairo, EGYPT
☎ 2917803 - 665918

## BRAZIL
Roland Brasil Ltda.
R. Alvarenga 591
CEP-05509 Sao Paulo
BRAZIL
☎ (011)813 - 7967
Repair Service for Roland and Rhodes products

Oliver do Brasil S.A.
Instrumentos Musicais
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Empresarial Tambore
Barueri SP CEP 06400
BRAZIL
☎ (011)709 - 1267
Repair Service for BOSS products

## SWEDEN
Roland Scandinavia A/S
DanvikCenter 28 A, 2 tr.
S-131 30 Nacka
SWEDEN
☎ 08 - 702 00 20

## NORWAY
Roland Scandinavia
Avd. Norge
Lilleakerveien 2
Postboks 95 Lilleaker
N-0216 Oslo 2
NORWAY
☎ 02 - 73 00 74

## FINLAND
Fazer Musik Inc.
Länsituulentie
POB 169
SF-02101 Espoo
FINLAND
☎ 0 - 43 50 11

## MALAYSIA
Syarikat Bentley
No.142, Jalan Bukit
Bintang 55100 Kuala
Lumpur, MALAYSIA
☎ 2421288

## UNITED KINGDOM
Roland(U.K.) Ltd.
Rye Close
Ancells Business Park
Fleet, Hampshire GU13
8UY, UNITED KINGDOM
☎ 0252 - 816181

Roland(U.K.) Ltd.,
Swansea Office
Atlantic Close, Swansea
Enterprise Park, Swansea,
West Glamorgan SA79FJ,
UNITED KINGDOM
☎ (0792)700 - 139

## ITALY
Roland Italy S. p. A.
Viale delle Industrie 8
20020 ARESE MILANO
ITALY
☎ 02 - 93581311

## MEXICO
Case Veerkamp, s.a. de c.v.
Mesones No. 21
Col. Centro
C.P. 06080 Mexico, D.F.
MEXICO
☎ (5)709 - 3716

La Casa Wagner de
Guadalajara s.a. de c.v.
Av. Corona No. 202 S.J.
C.P.44100
Guadalajara, Jalisco
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## INDONESIA
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Jl. Gajah mada No.3-5
Jakarta 10130
INDONESIA
☎ (021) 354604, 354606

For West Germany

## Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

Roland PC-150 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.

Roland Corporation Osaka/Japan

Name des Herstellers/Importeurs

- Dies bezieht sich nur auf die von Roland Elektronische Musikinstrumente Handelsgesellschaft mbH. vertriebenen Produkte.
- The above applies only for the products distributed by Roland Elektronische Musikinstrumente Handelsgesellschaft mbH.
- Ceci ne s'applique qu'aux produits distribués par Roland Elektronische Musikinstrumente Handelsgesellschaft mbH.

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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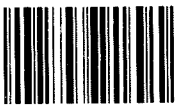
**K6018123**

UPC K6018123



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RES 023-92 Printed in Italy by F.lli Aniballi Ancona 92-04-PC-150-OM-E-J-D-F-It

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