

# Roland®

Powered Speaker

# MA 100

## OWNER'S MANUAL

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### Introduction

We want to thank you for your purchase of the Roland MA-100 Powered Speaker. The MA-100 is a compact monitor amp designed for use with equipment such as the RA-30 Realtime Arranger and the KP-24 Acoustic Keyboard Pickup.

To ensure correct use of the MA-100, please read the sections "IMPORTANT SAFETY INSTRUCTIONS" and "IMPORTANT NOTES" before using your new powered speaker. Also, to take full advantage of the outstanding functions the MA-100 has to offer, please read through this manual carefully. Keep this manual handy so that you can refer to it quickly if any questions arise.



### Main Features

- The MA-100 is a compact monitor amp with a built-in 16 cm ( 6 - 5/16 inches ) full-range speaker that can deliver 15 W of output.
- Input jacks for Line In as well as microphone input are provided, making it possible to enjoy ensemble play.
- An echo effect can be applied to mike input for richly resonant vocals.
- The MA-100 has a DC Out jack for connecting the RA-30. This lets you hook up the RA-30 without having to use an AC adaptor.
- The MA-100 takes up very little space — when not in use, it can be stowed away under the keyboard of an acoustic piano, even with the RA-30 installed on top of the amp. Rolling casters can also be installed at the base to facilitate moving.
- The attractive wood-grain design of the MA-100 accents any acoustic piano.

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	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>ATTENTION:</b> RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIER		
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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



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

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

## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

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

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled onto the product; or
  - C. The product has been exposed to rain; or
  - D. The product does not appear to operate normally or exhibits a marked change in performance; or
  - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

**For the USA**

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

**For Canada**

For Polarized Line Plug

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

**ATTENTION:** POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

**For the U.K.**

**IMPORTANT:** 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 marked 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.

## ■ IMPORTANT NOTES

In addition to the items listed under IMPORTANT SAFETY INSTRUCTIONS inside the front cover, please read and observe the following:

### Power Supply

- Before connecting this unit to other devices, turn off the power to all units; this will help prevent damage or malfunction.
- Do not use this unit on the same power circuit with any device that will generate line noise; an electric motor or variable lighting system for example.

### Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

### Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

### Additional Precautions

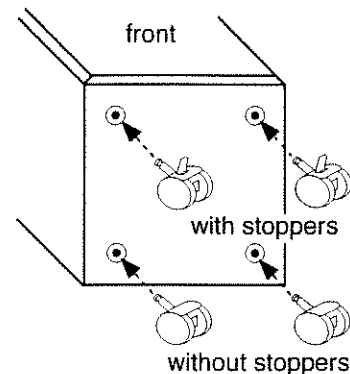
- Protect the unit from strong impact.
- A small amount of heat will radiate from the unit during normal operation.
- Before using the unit in a foreign country, consult with qualified service personnel.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels, especially when it is late at night.

## ■ Before You Use the MA-100

### □ Installing the Casters

Insert the casters included with the MA-100 into the holes on the bottom of the amp. Two kinds of casters are provided: two with stoppers and two without stoppers. Insert the two casters with stoppers in the holes closest to the front side of the amp.

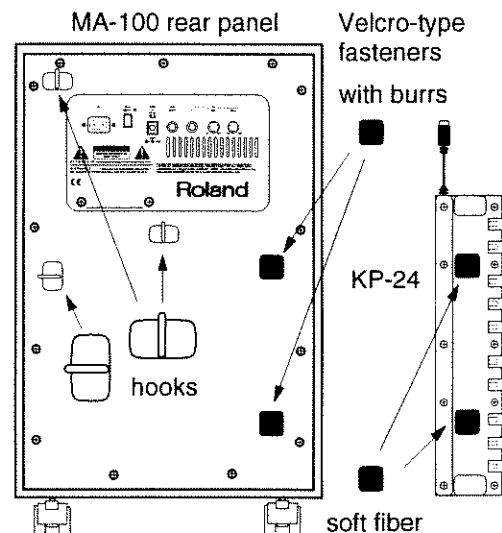
*\* Once the MA-100 has been set up in place by the piano, lower the stoppers to lock the casters. This will prevent the MA-100 from moving if accidentally bumped. Lift up the stoppers to release the casters when you need to move the MA-100 again.*



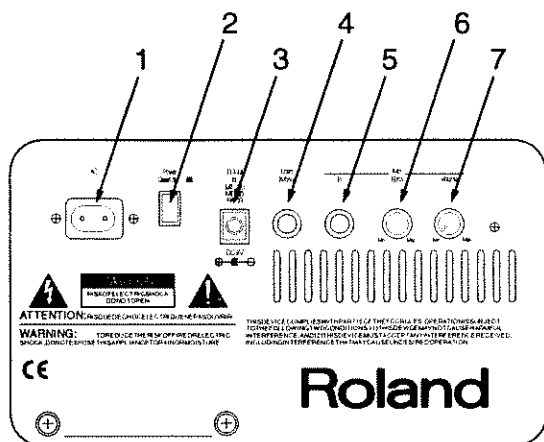
### □ Installing the Hooks and Velcro-type fasteners

The hooks and Velcro-type fasteners that come with the MA-100 should be installed on the back of the MA-100 and KP-24 as shown below.

The Velcro-type fasteners are made up of two parts—one has a burred surface, while the other is covered with soft fiber. The part with the burrs should be stuck onto the MA-100 and the other part should be affixed to the KP-24.



## ■ Names and Functions



### 1. AC inlet

Connect the included power cord to this inlet.

### 2. Power switch

This switches the power on and off.

### 3. DC Out jack

Connect this to the DC In jack on the RA-30 to power the RA-30.

*\* In addition to the RA-30, this jack can also be used to power the MT-200 or MT-120. If you are using the MT-200 or MT-120 instead of the RA-30, just substitute "MT-200" or "MT-120" wherever you see "RA-30" in the explanation that follows.*

### 4. Line In jack

Connect this to the Output L (MONO) jack on the RA-30. This is a 1/4 inch phone type jack.

### 5. Mic input jack

Plug in a mike (available separately) to this jack.

### 6. Echo knob

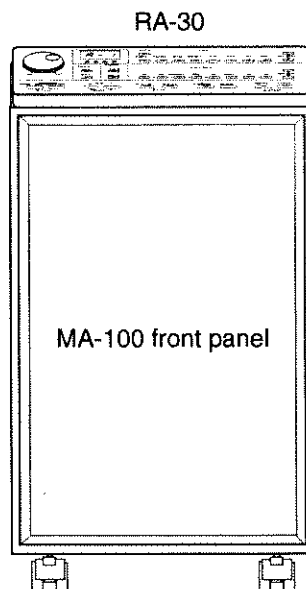
Use this to adjust the amount of echo applied to the mike input.

### 7. Mic Volume knob

Use this to adjust the volume of the mike input.

## ■ Installing the RA-30

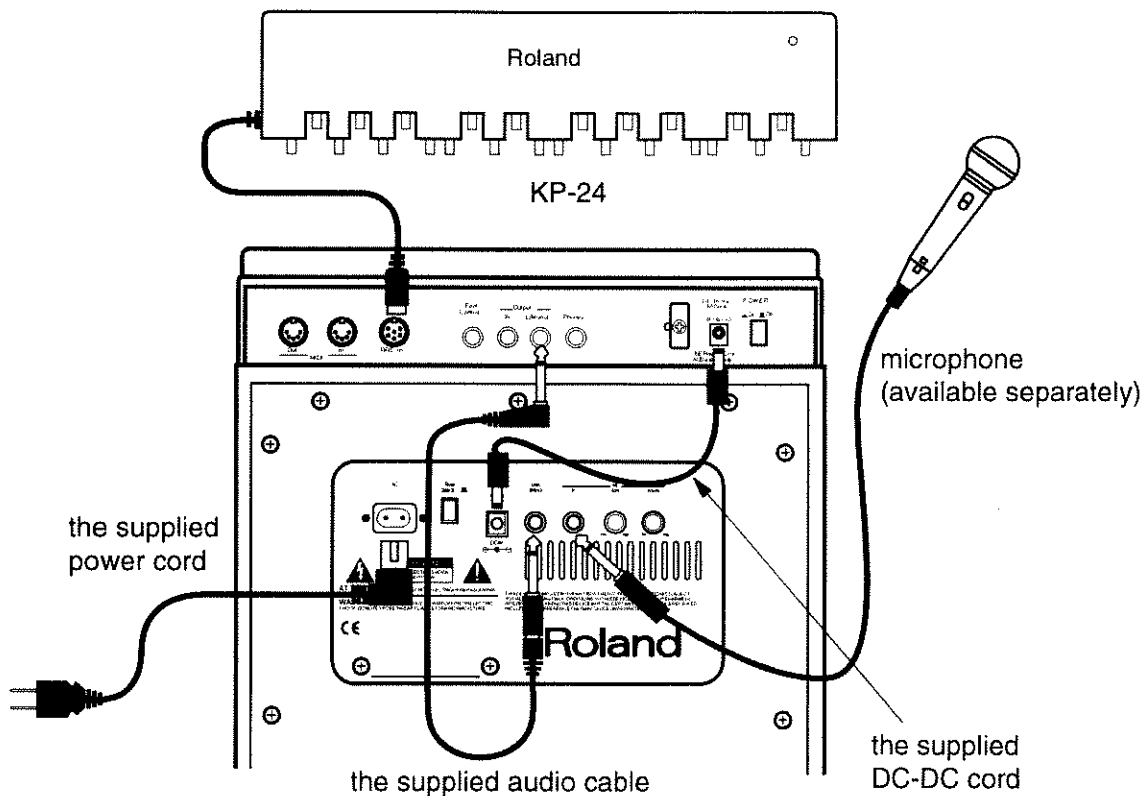
Install the RA-30 on top of the MA-100 as shown below.



## ■ Making the Connections

Hook up the RA-30 as shown below.

\* Be sure to make the connection to the Output L (MONO) jack on the RA-30 with the supplied audio cable.



## ■ Turning On the Power

1. Rotate the MA-100's Mic Volume and Echo knobs all the way to their lowest setting ("Min").
2. Turn the Volume knob on the RA-30 to its lowest setting ("Min").
3. Flip on the Power switch for the RA-30.
4. Turn on the Power switch for the MA-100. The MA-100 and RA-30 are now both powered up.
5. Slowly turn the RA-30's Volume knob clockwise to adjust the sound to the desired level.
6. Adjust the volume for the mike by slowly turning the Mic Volume knob clockwise until the desired sound level is reached.
7. To adjust the amount of echo applied to the mike input, slowly turn the Echo knob clockwise.

\* *Howling (a screeching sound) may occur when the mike and speaker are positioned in certain ways. If this happens, here's how to correct the problem:*

1. *Move the mike so it points in a different direction.*
2. *Move the mike away from the speaker.*
3. *Turn the Mic Volume knob counterclockwise to lower the volume.*

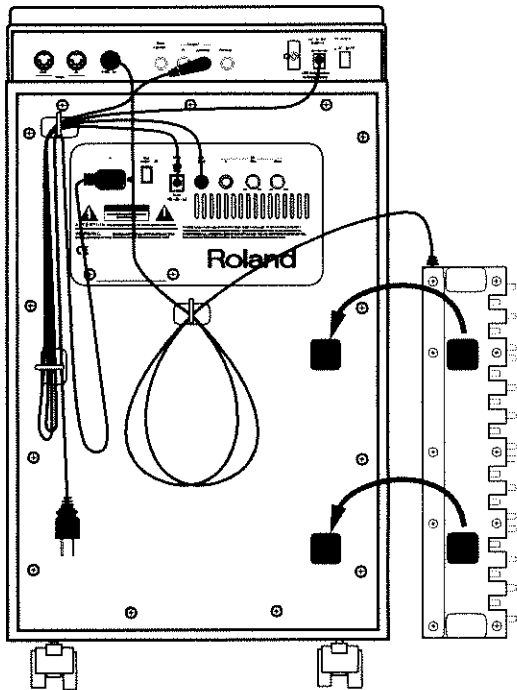
## ■ Turning Off the Power

1. Push the power switch on the MA-100 to turn it off.
2. Switch off the power switch on the RA-30.

## ■ Stowing the unit

When not in use, you can store the MA-100 under the keyboard of the acoustic piano. Here's what to do:

1. Attach the KP-24 to the fasteners on the back of the MA-100.
2. Secure the cables on the hooks.



\* Using the hooks to bind and secure the power cord and other cables can help prevent accidentally tripping over the cables, which may cause the MA-100 to tip over or pull out the cables.

## ■ Main Specifications

### MA-100: Powered Speaker

#### ●Power Output

15 W / 5 Ω

#### ●Nominal Input Level

Line In: -4 dBm

Mic In: -46 dBm

#### ●Input Impedance

Line In: 56 kΩ

Mic In: 10 kΩ

#### ●Input Sensitivity

Line In: -4 dBm

Mic In: -46 dBm

#### ●Speakers

16 cm ( 6 - 5/16 inches ) x 1

#### ●Controls

Mic Volume Knob

Echo Knob

Power Switch

#### ●Connectors

Line In Jack ( 1/4 inch phone type )

Mic In Jack ( 1/4 inch phone type )

DC Out Jack ( DC 9V )

AC Inlet

#### ●Power Supply

AC 117 V, AC 230 V or AC 240 V

#### ●Power Consumption

35 W : AC 117 V, AC 230 V or AC 240 V

#### ●Dimensions

318 (W) x 295 (D) x 518 (H) mm

12 - 9/16 (W) x 11 - 5/8 (D) x 20 - 7/16 (H) inches

( with casters attached )

#### ●Weight

8.1 kg / 17 lbs 14 oz

#### ●Accessories

Owner's Manual

Power Cord

Caster ( with stopper ) x 2

Caster ( without stopper ) x 2

DC-DC Cord

Audio Cable

Hook x 3

Velcro-type Fastener x 2 pairs

\* 0 dBm = 0.775 Vrms

\* In the interest of product development, the specifications and/or appearance of this unit are subject to change without prior notice.

For Germany

### Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das  
**Powered Speaker MA-100**

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der BMPT-AmtsblVfg 243/1991, 46/1992 funk-entstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z. B. Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung.

Dem Zentralamt für Zulassungen im Fernmeldewesen wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf die Einhaltung der Bestimmungen eingeräumt.

**Roland Corporation**

4-16 Dojimahama 1-Chome Kita-ku Osaka 530 Japan

(Name und Anschrift des Herstellers/Importeurs)

For the USA

### FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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

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

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

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.

#### 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 Règlement des signaux parasites par le ministère canadien des Communications.

# 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 U.S.**  
7200 Dominion Circle  
Los Angeles, CA. 90040-3696, U. S. A.  
TEL: (213) 685 5141

## CANADA

**Roland Canada Music Ltd. (Head Office)**  
5480 Parkwood Way  
Richmond B. C., V6V 2M4  
CANADA  
TEL: (604) 270 6626

## Roland Canada Music Ltd. (Montreal Office)

9425 Transcanadienne  
Service Rd. N., St Laurent,  
Quebec H4S 1V3, CANADA  
TEL: (514) 335 2009

## Roland Canada Music Ltd. (Toronto Office)

346 Watline Avenue,  
Mississauga, Ontario L4Z  
1X2, CANADA  
TEL: (416) 890 6488

## AUSTRALIA

**Roland Corporation Australia Pty. Ltd.**  
38 Campbell Avenue  
Dee Why West. NSW 2099  
AUSTRALIA  
TEL: (02) 982 8266

## NEW ZEALAND

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

## UNITED KINGDOM

**Roland (U.K.) Ltd.**  
Rye Close Ancells Business  
Park Fleet, Hampshire GU13  
8UY, UNITED KINGDOM  
TEL: (0252) 816181

## Roland (U.K.) Ltd., Swansea Office

Atlantic Close, Swansea  
Enterprise Park, Swansea,  
West Glamorgan SA79FJ,  
UNITED KINGDOM  
TEL: (0792) 700 139

## IRELAND

**The Dublin Service Centre Audio Maintenance Limited**  
11 Brunswick Place Dublin 2  
Republic of Ireland  
TEL: (01) 677322

## ITALY

**Roland Italy S. p. A.**  
Viale delle Industrie 8 20020  
ARESE MILANO ITALY  
TEL: (02) 93581311

## SPAIN

**Roland Electronics de España, S. A.**  
Calle Bolivia 239 08020  
Barcelona, SPAIN  
TEL: (93) 308 1000

## GERMANY

**Roland Elektronische Musikinstrumente Handelsgesellschaft mbH.**  
Oststrasse 96, 22844  
Norderstedt, GERMANY  
TEL: (040) 52 60090

## FRANCE

**Guillard Musiques Roland ZAC de Rosarge Les Echets**  
01700  
MIRIBEL FRANCE  
TEL: (72) 26 5060

## Guillard Musiques Roland (Paris Office)

1923 rue Léon Geoffroy  
94400 VITRY-SUR-SEINE  
FRANCE  
TEL: (1) 4680 86 62

## BELGIUM/HOLLAND/LUXEMBOURG

**Roland Benelux N. V.**  
Houtstraat 1 B-2260 Oevel-  
Westerlo BELGIUM  
TEL: (014) 575811

## DENMARK

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

## SWEDEN

**Roland Scandinavia A/S**  
Danvik Center 28 A, 2 tr.  
S-131 30 Nacka SWEDEN  
TEL: (08) 702 0020

## NORWAY

**Roland Scandinavia**  
Avd. Kontor Norge  
Lilleakerveien 2 Postboks 95  
Lilleaker N-0216 Oslo 2  
NORWAY  
TEL: (02) 73 0074

## FINLAND

**Fazer Musik Inc.**  
Länsituulentie POB 169,  
SF-02101 Espoo FINLAND  
TEL: (00) 43 5011

## SWITZERLAND

**Roland (Switzerland) AG**  
Musitronic AG  
Gerberstrasse 5, CH-4410  
Liestal, SWITZERLAND  
TEL: (061) 921 1615

## AUSTRIA

**E. Dematte & Co.**  
Neu-Rum Siemens-Strasse 4  
A-6040 Innsbruck P.O.Box  
83  
AUSTRIA  
TEL: (0512) 26 44 260

## GREECE

**V. Dimitriadis & Co. Ltd.**  
20, Alexandras St. &  
Bouboulinas 54 St. 106 82  
Athens, GREECE  
TEL: (01) 8232415

## PORTUGAL

**Caius - Tecnologias Audio e Musica, Lda.**  
Rue de Catarina 131  
4000 Porto, PORTUGAL  
TEL: (02) 38 4456

## HUNGARY

**Intermusica Ltd.**  
Warehouse Area 'DEPO'  
Pf.83 H-2046 Torokbalint,  
Budapest HUNGARY  
TEL: (1) 1868905

## ISRAEL

**D.J.A. International Ltd.**  
Twin Towers, 33 Jabtinsky St.  
Room 211, Ramat Gan 52511  
ISRAEL  
TEL: (03) 751 8585

## CYPRUS

**Radex Sound Equipment Ltd.**  
17 Diagorou St., P.O.Box  
2046, Nicosia CYPRUS  
TEL: (2) 453 426  
(2) 466 423

## U.A.E

**Zak Electronics & Musical Instruments Co.**  
P.O. Box 8050  
DUBAI, U.A.E  
TEL: 360715

## KUWAIT

**Easa Husain Al-Yousifi**  
P.O. Box 126 Safat 13002  
KUWAIT  
TEL: 5719499

## LEBANON

**A. Chahine & Fils**  
P.O. Box 16-5857  
Beirut, LEBANON  
TEL: (01) 335799

## TURKEY

**Barkat Sanayi ve Ticaret**  
Siraselviler Cad. 86/6  
Taksim Istanbul, TURKEY  
TEL: (0212) 2499324

## EGYPT

**Al Fanny Trading Office**  
9, Ebn Hagar Ai Askalany  
Street, Ard El Golf,  
Heliopolis, Cairo, 11341  
EGYPT  
TEL: (02) 4171828  
(02) 4185531

## QATAR

**Badie Studio & Stores**  
P.O.Box 62,  
DOHA Qatar  
TEL: 423554

## SYRIA

**Technical Light & Sound Center**  
Khaled Ebn Al Walid St.  
P.O.Box 13520  
Damascus - Syria  
TEL: (11) 2235 384

## BAHRAIN

**Moon Stores**  
Bad Al Bahrain Road,  
P.O.Box 20077  
State of Bahrain  
TEL: 211 005

## REUNION

**FO - YAM Marcel**  
25 Rue Jules Mermet  
Chaudron - BP79 97491  
Ste Clotilde REUNION  
TEL: 262 28 29 16

## BRAZIL

**Roland Brasil Ltda.**  
R. Coronel Octaviano da  
Silveira 203 05522-010  
Sao Paulo BRAZIL  
TEL: (11) 843 9377

## MEXICO

**Casa Veerkamp, s.a. de c.v.**  
Mesones No. 21 Col. Centro  
MEXICO D.F. 06080  
TEL: (905) 709 3716

**La Casa Wagner de Guadalajara s.a. de c.v.**  
Av. Corona No. 202 S.J.  
Guadalajara, Jalisco  
MEXICO C.P.44100  
TEL: (36) 13 1414

## VENEZUELA

**Musicland Digital C.A.**  
Av. Francisco de Miranda,  
Centro Parque de Cristal,  
Nivel C2 Local 20 Caracas  
VENEZUELA  
TEL: (2) 285 9218

## PANAMA

**Productos Superiores, S.A.**  
Apartado 655 - Panama 1  
REP. DE PANAMA  
TEL: 26 3322

## ARGENTINA

**Instrumentos Musicales S.A.**  
Florida 638  
(1005) Buenos Aires  
ARGENTINA  
TEL: (1) 394 4029

## HONG KONG

**Tom Lee Music Co., Ltd. Service Division**  
22-32 I'un Shan Street, Tsuen  
Wan, New Territories,  
HONG KONG  
TEL: 852 2 737 7688

## KOREA

**Cosmos Corporation Service Station**  
261 2nd Floor Nak-Won  
Arcade Jong-Ro ku, Seoul,  
KOREA  
TEL: (02) 742 8844

## SINGAPORE

**Swee Lee Company**  
BLOCK 231,  
Bain Street #03-23  
Bras Basah Complex,  
Singapore 0718  
TEL: 3367886

## CRISTOFORI MUSIC

**PTE LTD**  
335, Joo Chiat Road  
SINGAPORE 1542  
REPUBLIC OF SINGAPORE  
TEL: 3450435

## PHILIPPINES

**G.A. Yupangco & Co. Inc.**  
339 Gil J. Puyat Avenue  
Makati, Metro Manila 1200,  
PHILIPPINES  
TEL: (02) 817 0013

## THAILAND

**Theera Music Co., Ltd.**  
330 Verg Nakorn Kasem,  
Soi 2, Bangkok 10100,  
THAILAND  
TEL: (02) 2248821

## MALAYSIA

**Bentley Music SDN BHD**  
No.142, Jalan Bukit Bintang  
55100 Kuala Lumpur,  
MALAYSIA  
TEL: (03) 2443333

## INDONESIA

**PT CITRARAMA BELANTIKA**  
Kompleks Perkantoran Duta  
Merlin Blok E No.6—7  
Jl. Gajah Mada No.3—5,  
Jakarta 10130,  
INDONESIA  
TEL: (021) 3850073

## TAIWAN

**Siruba Enterprise (Taiwan) Co., LTD.**  
Room. 5, 9th. No. 112 Chung  
Shan N. Road Sec.2 Taipei,  
TAIWAN, R.O.C.  
TEL: (02) 571 5860

## SOUTH AFRICA

**That Other Music Shop (PTY) Ltd.**  
11 Melle Street (Cnr Melle  
and Juta Street)  
Braamfontein 2001  
Republic of South Africa  
TEL: (011) 403 4105

## Paul Bothner (PTY) Ltd.

17 Werdmuller Centre  
Claremont 7700  
Republic of South Africa  
TEL: (021) 64 4030

As of Feb. 23, 1995





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