

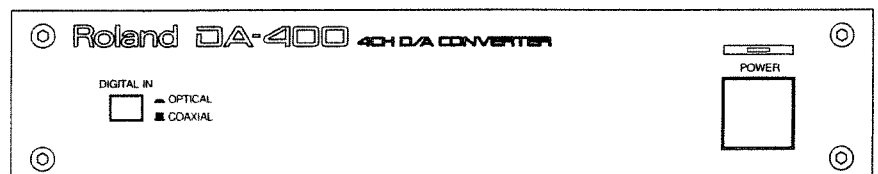
Roland®



4CH D/A CONVERTER

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# DA-400

OWNER'S MANUAL



	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>ATTENTION:</b> RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
<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

## GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**DANGER:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

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.

The product which is equipped with a THREE WIRE GROUNDING TYPE LINE PLUG must be grounded.

# Introduction

Thank you for purchasing the Roland DA-400 Digital/Analog converter.

The DA-400 is a 4 channel (2 stereo pairs) D/A converter that can convert digital audio signals (from devices such as the Roland S-770/760 Digital Sampler, CD players or DAT decks) into analog audio signals.

In order to take full advantage of the DA-400's functionality, please read this manual carefully.

## Main Features

- Extremely simple connection and operation ensure professional results with minimal effort.
- Two types of digital input jacks are provided; coaxial and optical. Because of this flexible design, the DA-400 can accommodate just about any digital input source.
- Sampling frequency and emphasis on/off of the incoming digital audio is automatically detected. There is no need for you to be aware of differences in sampling frequency or emphasis on/off even when connecting the DA-400 to a variety of devices with different sampling frequencies, such as the Roland S-770/760, CD players, or DAT decks.

## Precautions

In addition to the items listed under Safety Precautions 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.

## Contents

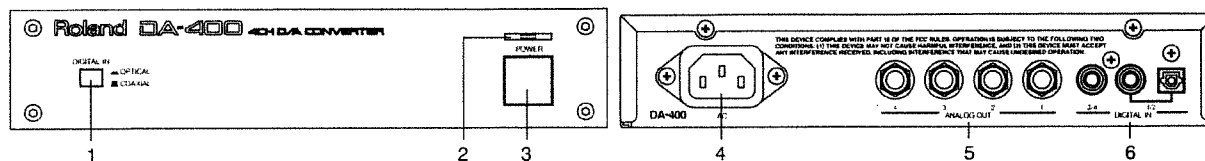
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## Front and Rear Panels



### [1]. OPTICAL/COAXIAL Selector Switch

This switch allows you to select either the coaxial or optical input for DIGITAL IN 1/2. Note that it is not possible to use both inputs simultaneously.

- When the switch is in, the optical jack will be selected.
- When the switch is out, the coaxial jack will be active.

### [2]. POWER Indicator

This indicator lights when the unit is switched on.

### [3]. POWER Switch

This switch turns the unit on and off.

### [4]. AC Inlet

Connect the included AC cable to this connector. (Use only the supplied cable; use of any other cable could result in damage, malfunction or electric shock.)

### [5]. ANALOG OUT Jacks

These are the analog output jacks; two stereo pairs or four individual (mono) outputs.

### [6]. DIGITAL IN Jacks

These are the digital input jacks; two stereo pairs or four individual (mono) inputs.

\* *The DIGITAL IN jacks (coaxial/optical) are compatible with the S/P DIF format.*

## About the DA-400's Inputs and Outputs

A digital signal that is input to DIGITAL IN 1/2 (L/R) is output from ANALOG OUT 1/2. A digital signal that is input to DIGITAL IN 3/4 (L/R) is output from ANALOG OUT 3/4.

For DIGITAL IN 1/2 you can select either the coaxial or optical jack. The OPTICAL/COAXIAL selector switch (front panel) determines which jack will be used. (It is not possible to use both inputs simultaneously.)

\* *The DA-400 does not contain a mixer stage. Therefore it is not possible to mix incoming digital signals, or reroute them to a specific ANALOG OUT, or to adjust the output level.*

\* *The output level at any ANALOG OUT will depend on whether a balanced or unbalanced output is being used. For details refer to the following "Which Cables to Use".*

## Which Cables to Use

### DIGITAL IN Jacks

If you wish to connect your digital audio source to the DA-400 using the coaxial input jack, use a coaxial cable with RCA phono type plugs.

If you wish to connect your digital audio source to the DA-400 using the optical input jack, use an optical cable.

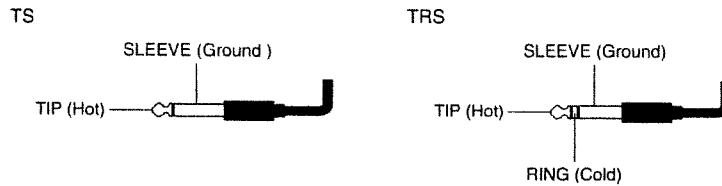
### ANALOG OUT Jacks

You can use either a balanced or unbalanced output.

For unbalanced output, use a cable with 1/4 inch TS (Tip/Sleeve; mono) type phone plugs. For balanced output, use a cable with 1/4 inch TRS (Tip/Ring/Sleeve; stereo) type phone plugs.

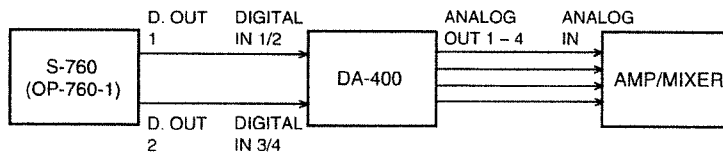
### Caution!

When using a balanced output, be aware that the output level will be approximately twice as great as when using an unbalanced output.



## Connections with an S-760

If an OP-760-1 Power Sampling Expansion has been installed in your Roland S-760 Digital Sampler, the digital audio from the Digital Out jacks 1/2 (stereo C/D or individual 5—8) can be sent to the DA-400 and output as analog signals. This allows the output of the S-760 to consist of 4 stereo pairs or 8 individual outputs.



## Making Connections

Before making any connections, be sure that the power to all of your equipment is turned off; this will help prevent damage to any of the components in the system.

**\* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.**

1. Set the OPTICAL/COAXIAL selector switch on the DA-400 to COAXIAL (switch out).
2. Using a coaxial cable, connect the S-760's Digital Out jack 1 (stereo C, or individual 5/6) to the DA-400's DIGITAL IN 1/2.
3. Using another coaxial cable, connect the S-760's Digital Out jack 2 (stereo D, or individual 7/8) to the DA-400's DIGITAL IN 3/4.
4. Using audio cables with TS (Tip/Sleeve; mono) type phone plugs, connect the DA-400's ANALOG OUT jacks (1—4) to the analog input jacks of your amp/mixer system.

**\* If you are using an unbalanced output from the DA-400, the output level will be approximately the same as the S-760's output level. However, depending on the amp/mixer to which the DA-400 is connected, the output level of the DA-400 may be slightly greater than that of the S-760.**

## S-760 Output Settings

Depending on the output settings of the S-760, the sound that is output from the DA-400 may not be as expected. Please be aware of the following points.

1. Set the System Output Mode to something other than "Mix".  
If the System Output Mode is set to "Mix", the sound that is output from Digital Out jack 1 (stereo C) will be the same as the sound output from Stereo Out jack 1 (stereo A).
2. Set the System Output Assign to "C/D".  
If the System Output Assign is set to "A/B", the sound that should be output from Digital Out jacks 1/2 (stereo C and D) will be mixed with the output of Stereo Out jacks 1/2 (stereo A and B). In addition, after this mix takes place, the sound that is output from Stereo Out jacks 1/2 (stereo A and B) will also be output from Digital Out jacks 1/2 (stereo C and D). This means that the output from the S-760's Stereo Out jacks 1/2 (stereo A and B) will be the same as the output of the DA-400's Analog Out jacks 1—4.

For details on the audio outputs of the S-760, refer to the S-760 owner's manual; "Equalizer and Output Jacks" (Basic Operation p.3-11) and "Output Assignments" (Advanced Operation p.4-2).

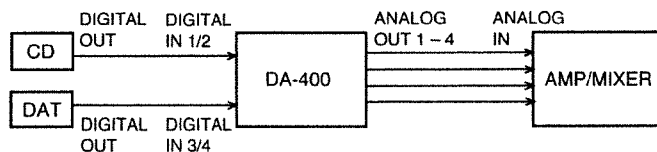
# Connections with Audio Equipment

Digital audio signals from a CD player or DAT deck can be input into the DA-400 and output as analog audio.

## NOTE:

There's no problem if the digital signals being sent to the DA-400's DIGITAL IN 1/2 have a different sampling frequency than the digital signals being input to DIGITAL IN 3/4; the DA-400 automatically detects the sampling frequency of each input signal.

For example, there will be no problem if DIGITAL IN 1/2 is receiving digital audio from a CD player (44.1 kHz) and DIGITAL IN 3/4 is receiving digital audio from a DAT deck (48 kHz).



## Making Connections

Before making any connections, be sure that the power to all of your equipment is turned off; this will help prevent damage to any of the components in the system.

- This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Set the OPTICAL/COAXIAL selector switch to accommodate the device connected to DIGITAL IN 1/2.

## Specifications

DA-400 : 4CH D/A Converter

### •Sampling Frequency

48, 44.1, 32kHz ( Auto Select )

### •Signal Processing

D/A Conversion

18 bit linear, 8-times Oversampling

### •Frequency Response

Sampling Frequency

48kHz : 10 Hz - 23 kHz (+0/-3dB)

44.1kHz : 10 Hz - 21 kHz (+0/-3dB)

32kHz : 10 Hz - 15 kHz (+0/-3dB)

### •Maximum Output Levels

Output ( Unbalanced ) : +15 dBm

Output ( Balanced ) : +21 dBm

\* 0dBm = 0.775 Vrms

### •Output Impedance

300 Ω ( Unbalanced )

600 Ω ( Balanced )

### •Connectors

Digital Input Connectors

Coaxial ( 1/2, 3/4 ) : 2 (conformable to the S/P DIF)

Optical ( 1/2 ) : 1 (conformable to the S/P DIF)

Analog Output Jacks

1/4 inch phone type ( 1, 2, 3, 4 ) : 4

AC Inlet

### •S/N Ratio

110 dB (IHF-A, Typ.)

### •Dynamic Range

Greater than 102 dB

### •Power Supply

AC117V, AC230V or AC240V ( 50/60 Hz )

### •Power Consumption

12 W (AC117V), 15 W (AC230V), 13 W (AC240V)

### •Dimensions

218 (W) x 230 (D) x 45 (H) mm

8-5/8 (W) x 9-1/16 (D) x 1-13/16 (H) inches

### •Weight

2.0 kg / 4 lbs 7 oz

### •Accessories

Owner's Manual

*\* 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  
**4CH D/A CONVERTER DA-400**

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der BMPT-AmtsblVfg 243/1991 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.

### CLASS 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 US**  
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: 010 353 1677322

### 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 60 090

### FRANCE

**Guillard Musiques Roland**  
ZAC de Rosarge Les Echets  
01700  
MIRIBEL FRANCE  
TEL: (7) 226-50 60

### 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: (0032) 14-575811

### 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 00 20

### NORWAY

**Roland Scandinavia Avd. Kontor Norge**  
Lilleakerveien 2 Postboks 95  
Lilleaker N-0216 Oslo 2  
NORWAY  
TEL: 22-73 00 74

### FINLAND

**Fazer Musik Inc.**  
Länsituulentie POB 169,  
SF-02101 Espoo FINLAND  
TEL: 0-43 50 11

### SWITZERLAND

**Roland CK (Switzerland) AG**  
Gerberstrasse 5, CH-4410  
Liestal, SWITZERLAND  
TEL: 061/921 16 15

### 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 Avn., GR  
10682 Athens, GREECE  
TEL: 01-8232415

### PORTUGAL

**Casa Caius Instrumentos Musicais Lda.**  
Rua de Santa Catarina 131  
4000 Porto, PORTUGAL  
TEL: 02-38 44 56

### HUNGARY

**Intermusica Ltd.**  
Warehouse Area 'DEPO'  
Torokbalint, Budapest  
HUNGARY  
TEL: (1) 1868905

### ISRAEL

**D.J.A. International Ltd.**  
11 Bar Gyiara St., Tel Aviv  
ISRAEL  
TEL: 972-3-525-3834

### CYPRUS

**Radex Sound Equipment Ltd.**  
17 Diagorou St., P.O.Box  
2046, Nicosia CYPRUS  
TEL: 453426, 466423

### U.A.E

**Zak Electronics & Musical Instruments Co.**  
P.O. Box 8050  
DUBAI, U.A.E  
TEL: 9714-360715

### KUWAIT

**Easa Husain Al-Yousifi**  
P.O. Box 126 Safat 13002  
KUWAIT  
TEL: 965-5719499

### LEBANON

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

### TURKEY

**Barkat Sanayi ve Ticaret**  
Siraselviler Cad. 86/6 Taksim  
Istanbul, TURKEY  
TEL: 212-2499324

### EGYPT

**Al Fanny Trading Office**  
9, Ebn Hagar Ai Askalany  
Street, Ard El Golf,  
Heliopolis, Cairo, 11341  
EGYPT  
TEL: 2917803-665918

### QATAR

**Badie Studio & Stores**  
P.O.Box 62,  
DOHA Qatar  
TEL: 974 423554

### BAHRAIN

**Moon Stores**  
Bad Al Bahrain Road,  
P.O.Box 20077  
State of Bahrain  
TEL: (0973) 211 005

### BRAZIL

**Roland Brasil Ltda.**  
R. Coronel Qaviano da  
Silveira 203 05522-010  
Sao Paulo BRAZIL  
TEL: (011) 843-9377

### MEXICO

**Casa Veerkamp, s.a. de c.v.**  
Mesones No. 21 Col. Centro  
MEXICO D.F. 06080  
TEL: (5) 709-3716

### La Casa Wagner de Guadalajara s.a. de c.v.

Av. Corona No. 202 S.J.  
C.P.44100 Guadalajara,  
Jalisco MEXICO  
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 Pun Shan Street, Tsuen  
Wan, New Territories,  
HONG KONG  
TEL: 415-0911

### 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

### 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 Verng Nakorn Kasem,  
Soi 2, Bangkok 10100,  
THAILAND  
TEL: 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, 9fl. 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 (Chr Melle  
and Juta Street)  
Braamfontein 2001  
Republic of South Africa  
TEL: 27 11 403-4105

### Paul Bothner (PTY) Ltd.

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





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