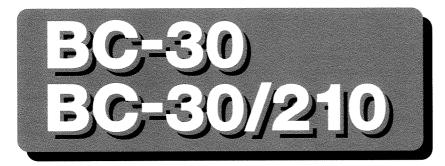
Roland®

GUITAR AMPLIFIER Blues Cube



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Owner's Manual



Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p.2), "USING THE UNIT SAFETY" (p.3) and "IMPORTANT NOTES" (p.7). These sections provide important information concerning the proper operation of the unit. Additionally, the manual should be saved and kept on hand as a convenient reference.





ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS QUVRIR

CAUTION: 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.
- 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.
- The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat
- 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.
- 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.-

WARNING: THE APPARATUS MUST BE EARTHED

INPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. GREEN-AND-YELLOW: EARTH, 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 GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol 1 or coloured GREEN or GREEN-AND-YELLOW.

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.

For Europe



This product complies with the requirements of European Directive 89/336/EEC.

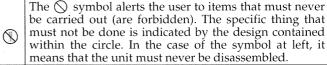
USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About AWARNING and ACAUTION Notices

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.		
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.		
	* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.		

About the Symbols



The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

MARNING

 Before using this unit, make sure to read the instructions below, and the Owner's Manual.



• Do not open or perform any internal modifications on the unit.



 Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.



 Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged.



• In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.



Protect the unit from strong impact.
 (Do not drop it!)



• Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.



• Before using the unit in a foreign country, consult with your dealer, or qualified Roland service personnel.

A CAUTION

 Always grasp only the plug on the power-supply cord when plugging into, or unplugging from an outlet.



• Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



 Never climb on top of, nor place heavy objects on the unit.



 Never handle the power cord or its plug with wet hands when plugging into, or unplugging from, an outlet.



 Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.



• Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 7).



• Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.



• The unit is very heavy, so care should be taken not to drop it on your feet when moving it.



ALL MANUALS ARE NOT THE SAME

Congratulations!

You've made the right choice.

The Blues Cube is the happy result of using Roland's technological expertise to obtain the best possible sound from your electric guitar.

But to get the most out of your Blues Cube, you should go through this manual.

You don't need to keep most amp manuals. But this one will explain important stuff about what makes a great sounding amp and how to get that killer tone.

OUR DESIGN PHILOSOPHY

An electric guitar doesn't come alive until it's plugged in. Your amp can actually be considered part of the instrument.

In fact, it's almost like the body of a great acoustic, contributing greatly to the final sound. Even a vintage guitar can't give you all it's got if you use a mediocre amp.

We wanted to produce an amp that would simply sound great, so we went back to amplifier basics to rediscover exactly what great guitar sound is and what a great guitar amp is all about.

We analyzed vintage amps from the 50's and 60's, from tweeds to blondes (white P.V.C. covered beauties) to blackface panels as well as a slew of bluesbreaking British amps, all of them highly desirable.

Results conclusively showed that a great amp not only has distinctive warm tones but must also be superresponsive to sound and distortion variations according to a player's picking dynamics and/or guitar volume control.

Many people were involved in our research. Studio pros, vintage amp collectors, semipros and general electric guitar enthusiasts all were part of our listening panels.

Then our engineers and amp designers used leading-edge analog technology to get all the best qualities we were hearing from these amps into the Blues Cube, spurring a new development like the *Tube Logic Technology* (*).

The Blues Cube brings out every aspect of your guitar.

* Tube Logic Technology

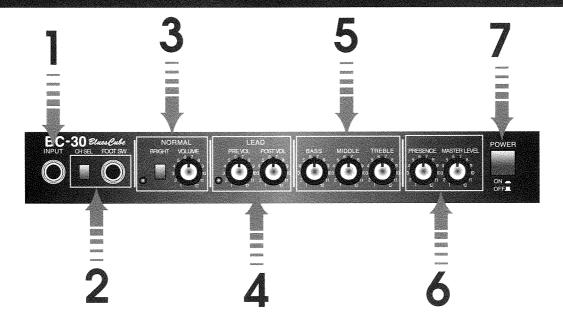
Tube Logic Technology reproduces the sound of various well-known vintage amps, based on scientific analysis and repeated hearing sessions. Not only the typical tube amp characteristics such as warm tones and a creamy overdriven sound, but also practical factors that make it possible to recreate other tube-like characteristics such as playing feel. These "feel factors" were logically analyzed and found to include, for instance, that an 8 Ω speaker's impedance fluctuates according to the volume and voice range, affecting the frequency response of a tube's power amp stage as well as a pre-amp stage having high-impedance signal path and nonlinear amplitude curve.

Tube Logic technology can faithfully emulate such characteristics that are important in producing good guitar sounds, but previously didn't have much attention paid to them.

FEATURES

- ✓ Two-channel configuration— NORMAL channel and LEAD channel, each with a dedicated circuit for independent sound characteristics. Switching channels can also be accomplished using an optional footswitch.
- ✓ The NORMAL channel delivers clean sound designed for traditional jazz or country or a warm, crunch sound optimized for blues and rock.
- ✓ Adding to a three-band tone control, the LEAD channel features two volume knobs (PRE VOL and POST VOL) for screaming high gain that is well-suited for rock blues and metal.
- ✓The active PRESENCE knob only available on high-end units, works on the signal within the power section, adding lustrous highs to the sound even at maximum distortion.
- ✓The built-in heavy-duty speakers (BC-30; 12" X 1, BC-30/210; 10" X 2) are a direct result of intensive research into famous guitar amp speaker units, such as the "Blue" and British "Greenback" speakers. And with the power amplifier section going into soft clipping, the speaker will deliver an SPL much higher than its rated 30W R.M.S.

NAMES OF THINGS AND WHAT THEY DO



BC-30, BC-30/210 Control Panel

1. Input



An ultra Hi-Z INPUT jack (1-1) makes sure the vintage single coil pickup sound is at its best.

2. Channel Select



Switch between the NORMAL channel and LEAD channel with the CH SELECT switch (2-1). The channel selected is indicated by green for NORMAL and red for LEAD. Connecting an optional footswitch to the CH SELECT FOOT SW jack (2-2) lets you switch instantly. The optional BOSS FS-5L has an indicator to let you visually confirm it on the footswitch.

3. Normal Channel



The Normal Channel lets you create sounds from clean, distortion-free type to slight overdrive. Use the channel VOLUME (3-2) to set your level. Using the BRIGHT switch (3-1) provided the brilliant highs of vintage tweeds and blackface panel amps.

4. Lead Channel



The PRE VOL knob (4-1) has a wide enough range to produce crunch to hard distortion. Since it provides ample sustain and feedback, you won't need over-the-top distortion even if you're after a heavy metal sound. With hard distortion you still get superior picking response that enhances your playing. At low guitar volume settings the sound stays natural. The POST VOL knob (4-2) can be used to balance the different volume levels of the NORMAL and LEAD channels.

^{*} If a footswitch is used, the front panel CH SELECT switch will not operate.

^{*} Switching channels can cause a slight noise.

5. Three Band Tone Control



The Blues Cube's three-band tone control circuit (5-1) is a passive design delivering natural guitar sound. Repeated listning tests showed that our passive circuit was comparable to an active equalizer and allowed for a wider array of sounds.

6. Master Control



The active PRESENCE (6-1) control works on the power amp stage to produce effects that are different from tone controls or equalizers. This adds brilliant highs to the sound, even with hard distortion.

MASTER LEVEL (6-2) controls the total sound level of the Blues Cube.

7. Power Switch



The POWER switch (7-1) switches the unit on or off.

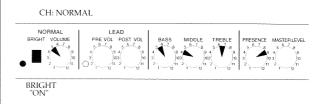
- * Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.
- * This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Experience a new world of guitar sound!

TONE SETTINGS

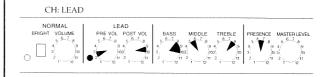
A. COUNTRY

BRIGHT switch and PRESENCE control add extra presence to clean guitar sound.



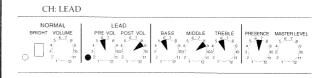
B. TRADITIONAL BLUES

Crunchy light distortion sound similar to typical overdriven tube amp tone.



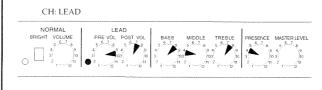
C. ROCK BLUES

Straight rock guitar sound often used by late 60's and 70's blues-based rock guitarists.



D. HARD ROCK

Big stack amp-like sound with a lot of bottom emulated by cutting the mid range tone control.



IMPORTANT NOTES

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.
- When connections are complete, turn on the other devices, then turn this unit on last in order to prevent the malfunction and/or damage to speakers.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

Maintenance

• 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

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting/disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

SPECIFICATIONS

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

GUITAR AMPLIFIER: Blues Cube BC-30, BC-30/210

• Rated Power Output	30 W/8 Ω (BC-30, BC-30/210)	• Indicators	NORMAL Channel		
• Nominal Input Level	NORMAL Channel -27 dBm/680 kΩ		LEAD Channel		
• Speaker	LEAD Channel -55 dBm/680 kΩ V12-50 (30 cm/12 inches) X 1 (BC-30) V10-45 (25 cm/10 inches) X 2 (BC-30/210)	• Connectors	INPUT jack FOOT SWITCH jack CHANNEL SELECT		
• Controls	CHANNEL SELECT switch NORMAL Channel	• Power Supply	AC 117 V, 230 V or 240 V		
	BRIGHT switch	 Power Consumption 	30 W/117 V		
	VOLUME		30 W/230 V		
	LEAD Channel		30 W/240 V		
	PRE VOLUME POST VOLUME MASTER Controls		482 (W)x 261 (D)x 455 (H) mm (BC-30) 19 (W)x10-1/4 (D)x22-1/16 (H)" (BC-30)		
	Equalizer		555 (W)x 280 (D)x 557 (H) mm (BC-30/210)		
	BASS		21-7/8(W)x11 (D)x22-15/16 (H)" (BC-30/210)		
MIDDLE TREBLE PRESENCE MASTER LEVEL		• Weight	14.5 kg/32 lbs (BC-30) 19.6 kg/43 lbs 4 oz (BC-30/210)		
		• Accessory	Owner's Manual		
		• Options	Foot Swiches; BOSS FS-5L		
	POWER switch	•			

0 dBm=0.775 V rms

Information

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

ARGENTINA

Instrumentos Musicales S.A.

Florida 638 (1005) Buenos Aires ARGENTINA TEL: (01) 394 4029

BRAZIL

Roland Brasil Ltda.

R. Coronel Octaviano da Silveira 203 05522-010 Sao Paulo BRAZII TEL: (011) 843 9377

CANADA

Roland Canada Music Ltd. (Head Office)

5480 Parkwood Way Richmond B. C., V6V 2M4 CANADA TEL: (0604) 270 6626

Roland Canada Music Ltd. (Toronto Office)

Unit 2, 109 Woodbine Downs Blvd, Etobicoke, ON M9W 6Y1 CANADA TEL: (0416) 213 9707

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

La Casa Wagner de Guadalaiara s.a. de c.v. Av. Corona No. 202 S.J. Guadalajara, Jalisco Mexico C.P.44100 MEXICO TEL: (03) 613 1414

PANAMA

Productos Superiores, S.A. Apartado 655 - Panama 1 REP. DE PANAMA

TEL: 26 3322 U. S. A.

Roland Corporation U.S. 7200 Dominion Circle Los Angeles, CA. 90040-3696, TEL: (0213) 685 5141

VENEZUELA

Musicland Digital C.A. Av. Francisco de Miranda Centro Parque de Cristal, Nivel C2 Local 20 Caracas TEL: (02) 285 9218

AUSTRALIA

Roland Corporation Australia Ptv. Ltd. 38 Campbell Avenue Dee Why West. NSW 2099 AUSTRALIA

NEW ZEALAND

TEL: (02) 982 8266

Roland Corporation (NZ) Ltd.

97 Mt. Eden Road, Mt. Eden Auckland 3, NEW ZEALAND TEL: (09) 3098 715

HONG KONG

Tom Lee Music Co., Ltd. Service Division 22-32 Pun Shan Street, Tsuen Wan, New Territories, HONG

TEL: 2415 0911

KONG

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

KOREA

Cosmos Corporation Service Station

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

MALAYSIA

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

PHILIPPINES

G.A. Yupangco & Co. Inc. 339 Gil J. Puyat Avenue Makati, Metro Manila 1200, PHILIPPINES TEL: (02) 899 9801

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 TEL: 3450435

TAIWAN

Siruba Enterprise (Taiwan) Co., LTD.

Room, 5, 9fl, No. 112 Chung Shan N.Road Sec.2 Taipei, TAIWAN,

TEL: (02) 561 3339

THAILAND

Theera Music Co., Lt d. 330 Verng Nakorn Kasem, Soi 2, Bangkok 10100, THAILAND TEL: (02) 2248821

BAHRAIN

Moon Stores Bad Al Bahrain Road, P.O.Box 20072 State of BAHRAIN TEL: 211 005

IRAN

TARADIS

Mir Emad Ave. No. 15, 10th street P. O. Box 15875/4171 Teheran, IRAN TEL: (021) 875 6524

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Halilit P. Greenspoon & Sons Ltd.

8 Retzif Ha'aliya Hashnya St. Tel-Aviv-Yafo ISRAEL TEL: (03) 6823666

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AMMAN Trading Agency Prince Mohammed St. P. O. Box 825 Amman 11118 JORDAN

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

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A. Chahine & Fils P.O. Box 16-5857 Gergi Zeidan St. Chahine Building, Achrafieh Beirut, LEBANON TEL: (01) 335799

OMAN

OHI Electronics & Trading Co. LLC P. O. Box 889 Muscat Sultanate of OMAN TEL: 706 010

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Badie Studio & Stores P.O.Box 62 DOHA QATAR TEL: 423554

SAUDI ARABIA

SAF Music Center AL-Khobar 31952, P. O. Box 1366 SAUDIARABIA TEL: (03) 898 331

Abdul Latif S. Al-Ghamdi Trading Establishment

Al-Tamini Commercial And Residential Center Al-Khobar Dharan Highway W/Hamood St. P. O. Box 3631 Al-Khober 31952 SAUDI ARABIA TEL: (03) 898 2332

Technical Light & Sound Center

Khaled Ebn Al Walid St. P.O.Box 13520 Damascus - SYRIA TEL: (011) 2235 384

Barkat Sanayi ve Ticaret Siraselvier Cad. Guney Ishani No. 86/6 Taksim, Istanbul TURKEY TEL: (0212) 2499324

U.A.E

Zak Electronics & Musical Instruments Co.

Zabeel Road, Al Sherooq Bldg., No. 14, Grand Floor DUBAI P.O. Box 8050DUBAI, U.A.E TEL: (04) 360715

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

MAURITIOUS

Philanne Music Center 4th, Floor Noll, Happy World House Sir William Newton Street Port Luis MAURITIOUS

REUNION

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

SOUTH AFRICA

That Other Music Shop (PTY) Ltd.

11 Melle Street (Cnr Melle and Iuta Street) Braamfontein 2001 Republic of SOUTH AFRICA TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.

17 Werdmuller Centre Claremont 7700 Republic of SOUTH AFRICA

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E. Dematte &Co.

TEL: (021) 64 4030

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

BELGIUM/HOLLAND/ **LUXEMBOURG**

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

CYPRUS

Radex Sound Equipment Ltd.

17 Diagorou St., P.O.Box 2046, Nicosia CYPRUS TEL; (02) 453 426 (02) 466 423

DENMARK

Roland Scandinavia A/S Langebrogade 6 Post Box 1937 DK-1023 Copenhagen K. DENMARK TEL: 32 95 3111

FRANCE

Guillard Musiques Roland ZAC de Rosarge Les Echets 01700 MIRIBEL FRANCE TEL: 7226 5060

Guillard Musiques Roland (Paris Office)

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

FINLAND

Roland Scandinavia As, Filial Finland

Lauttasaarentie 54 B Fin-00201 Helsinki, FINLAND P. O. Box No. 109 TEL: (0) 682 4020

GERMANY

Roland Elektronische Musikinstrumente Handelsgesellschaft mbH. Oststrasse 96, 22844 Norderstedt, GERMANY

GREECE

TEL: (040) 52 60090

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

HUNGARY

Intermusica Ltd. Warehouse Area 'DEPO' Pf.83 H-2046 Torokbalint, HUNGARY TEL: (01) 1868905

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

NORWAY

Roland Scandinavia Avd. Kontor Norge

Lilleakerveien 2 Postboks 95 Lilleaker N-0216 Oslo NORWAY TEL: 273 0074

POLAND

P. P. H. Brzostowicz Marian 61-502 Poznan, ul, Filarecka 11, TEL: (061) 332 665 03-624 Warszawa, ul. Blokowa32, TEL: (02) 679 44 19

PORTUGAL Caius - Tecnologias Audio e Musica, Lda. Rue de Catarina 131 4000 Porto, PORTUGAL

TEL: (02) 38 4456

RUSSIA PETROSHOP

Vershavskoe, Shosse, 27-1 Moscow, RUSSIA TEL: 095 901 0892

INVASK Limited

Lenina Str. 13-342 Krasnogorsk 143400 Moscow Region, RUSSIA TEL: 095 564 61 44

SPAIN

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

SWEDEN

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

SWITZERLAND

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

UNITED KINGDOM Roland (U.K.) Ltd., Swansea

Office Atlantic Close, Swansea Enterprise Park SWANSEA West Glamorgan SA7 9FL UNITED KINGDOM TEL: (01792) 702701

As of September, 4, 1995

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