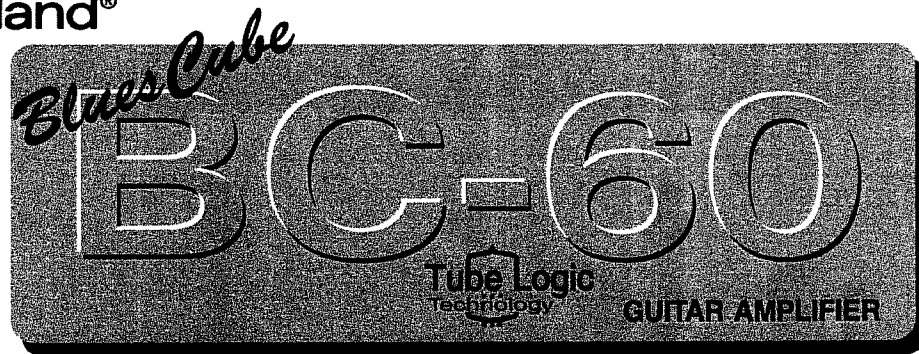


Roland®



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Owner's Manual

ALL MANUALS ARE NOT THE SAME

Congratulations!

You've made the right choice. The Blues Cube 60 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 60, 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 tolex-covered beauties) to black-face panels as well as a slew of blues-breaking British amps, all of them highly desirable. Results conclusively showed that a great amp not only has distinctive warm tones but must also be super-responsive 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, semipro 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 60, spurring a new development like the *Tube Logic Technology* (*).

This includes a unique RECTIFEX circuit that simulates two rectifier types — the classic tube rectifier and the modern diode rectifier. It also simulates their effects on attack and picking nuances.

The Blues Cube 60 brings out every aspect of your guitar.

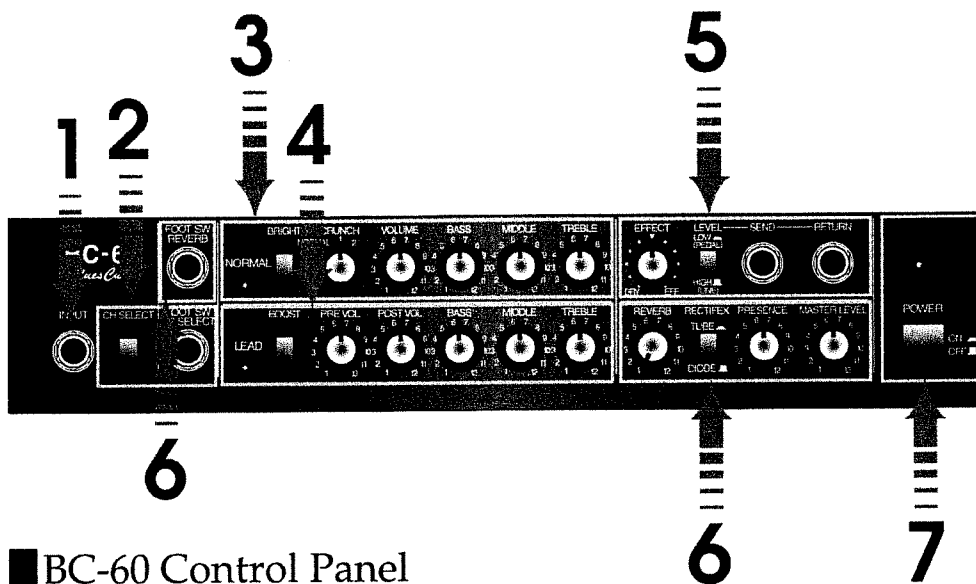
* *Tube Logic Technology*

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 ohm 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

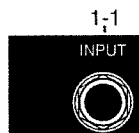
- ✓ Two-channel configuration — NORMAL channel and LEAD channel, each with a dedicated circuit for independent sound characteristics. Switching channels can also be done using an optional footswitch.
- ✓ The NORMAL channel delivers clean sound perfect for traditional jazz or country or a warm, crunch sound optimized for blues and rock by switching on CRUNCH.
- ✓ The LEAD channel features two volume knobs (PRE VOL and POST VOL) along with a BOOST switch for screaming high gain that is well-suited for rock blues and metal.
- ✓ Each channel has its own three-band tone control that is tuned to complement that channel's sound character.
- ✓ The active PRESENCE knob — usually available only on high-end units — works on the signal within the power section and adds lustrous highs to the sound even at maximum distortion.
- ✓ The newly developed RECTIFEX circuit emulates two different power amp rectifiers to offer a choice of rectification characteristics, very desirable when using distorted sound.
- ✓ Just like in vintage amps with reverb, an "Accutronics" spring reverb unit offers that authentic twangy reverb that's so much a part of a classic guitar sound.
- ✓ The built-in heavy-duty 12" speaker is 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 60W R.M.S.
- ✓ For external effects, a versatile effects loop lets you connect anything from effects pedals to professional studio rack units. The LEVEL select switch and effect/dry ratio control offer incredible versatility.

NAMES OF THINGS AND WHAT THEY DO



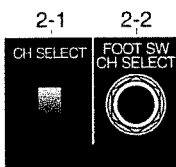
■ BC-60 Control Panel

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

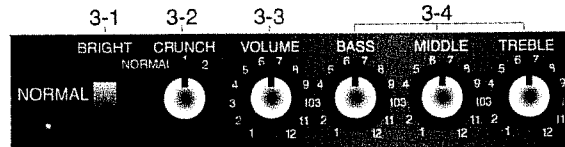


Switch between the NORMAL channel and LEAD channel with the CH SELECT switch (2-1). The channel selected is indicated by green for NORMAL and red for LEAD. Connecting an optional footswitch to the CH SELECT FOOT SW jack (2-2) lets you switch instantly. The optional BOSS FS-5L has an indicator to let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

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

* Switching channels can cause a slight noise.

3. Normal Channel



The CRUNCH mode switch (3-2) lets you create sounds from clean, distortion-free types to those slightly overdriven. The Crunch mode emulates the crunch sound of an overdriven power amp right in the preamp stage, preserving picking nuances and distortion that tapers off naturally as you back off on the guitar volume. Use this switch to select the desired amount of distortion and channel VOLUME (3-3) to set level.

Crunch modes:

Normal Produces clean, distortion-free sound for jazz or country, as well as ideal rhythm guitar sound for funk.

Crunch-1 For a slightly overdriven classic blues guitar sound as well as rock 'n' roll rhythm guitar.

Crunch-2 Delivers overdriven sound with lots of warmth and sustain for rock blues and classic 70's rock.

* Regard the above table just as a rough guide, because distortion can change with your guitar pickup's output level as well as guitar volume setting.

Blues Cube

The Blues Cube 60's three-band tone control circuit (3-4) is a passive design, so it can deliver natural guitar sound.

Repeated listening tests showed our passive circuit was comparable to an active equalizer and allowed a wider array of sounds to be created. Putting the BRIGHT switch (3-1) on provides the brilliant highs of vintage tweeds and blackface panel amps.

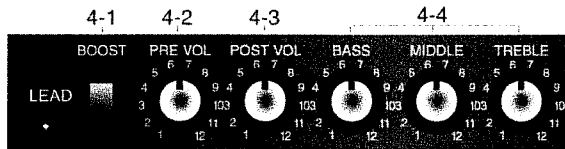
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Roland R&D Tip:

The Blues Cube 60 will provide natural overdrive sound even when the power amp is cranked up, and has been designed with that purpose in mind. For a sharp sound without any booniness, turn the BASS control to a low setting and turn up MIDDLE. For emphasizing guitar harmonics, you can also turn up PRESENCE (6-4).

.....

4. Lead Channel



The PRE VOL knob (4-2) has a wide enough range to produce crunch to hard distortion. And this comes with plenty of sustain and feedback, so you won't need over-the-top distortion even if you're after a slash metal sound.

Even with hard distortion, you still get good picking response that enhances your playing. And even at low guitar volume settings, the sound stays natural.

For screaming distortion, switch BOOST (4-1) to "ON" to get very high gain distortion. The POST VOL knob (4-3) can be used to balance the different volume levels of the NORMAL and LEAD channels.

The LEAD channel also includes a three-band tone control (4-4) which is designed to be most effective in the post-distortion stage to enhance distortion sound.

And in combination with the heavy-duty speaker, the Blues Cube 60 sounds more like a four 12" speaker stack, depending on the tone setting.

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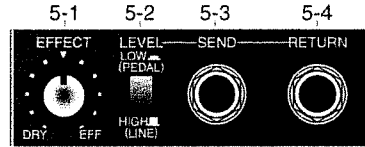
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Roland R&D Tip:

Having the BOOST switch "ON" or "OFF" produces different distortion and tonal characteristics. You can use BOOST to complement the tone control and PRESENCE (6-4) to create an even wider variety of lead sounds.

.....

5. Effects Loop



Connect any desired effects units by inserting them between the SEND jack (5-3) and RETURN jack (5-4). A Lo-Z send signal reduces noise.

If you're using professional studio grade units, set the LEVEL switch (5-2) to its "HIGH" position of line level. The "LOW(PEDAL)" position is optimized for using guitar effect pedals.

The EFFECT knob (5-1) lets you select your desired effect-to-dry sound ratio to match the effects units in use. Practical settings using typical effects units are shown below.

	Effects that output both the dry sound and effected sound.	Effects that can output only the effected sound by cutting the dry sound.
Effects Type Example	Equalizer Chorus Guitar multi effect etc.	Delay Reverb etc.
Setting of BC-60	<p>Set the effect level balance knob all the way down to the "EFFECT" position.</p>	<p>Adjust for desired balance between the dry sound and effected sound.</p>

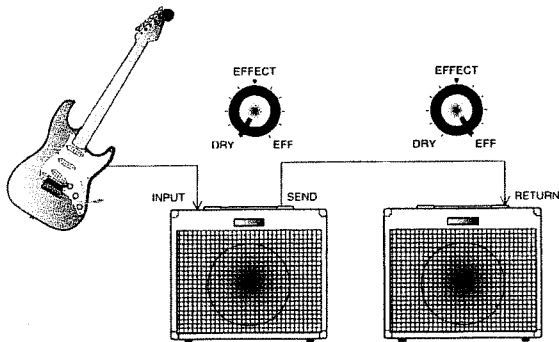
* Setting EFFECT all the way to "EFFECT" cuts the Blues Cube 60's internal signal path, therefore producing no sound. Set EFFECT to the center position when no effects are connected.

Blues Cube

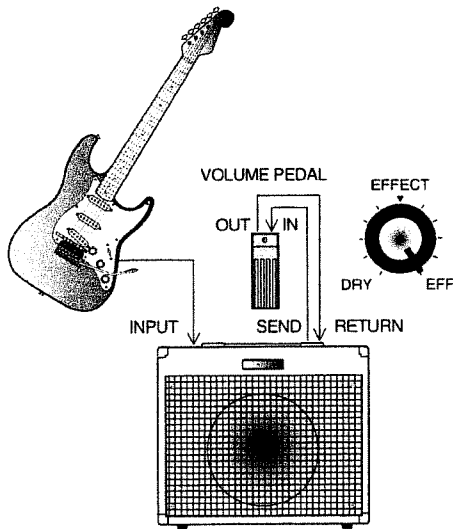
Effects loops aren't only for effects:

- The SEND jack can also be a handy line out for stacking amps or use with a tuner.

The RETURN jack can also be used as an input for the power amplifier section, the EFFECT level balance knob functioning as the input level control.



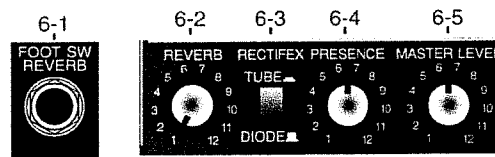
- If you want volume control after distortion is applied in the preamp stage, just connect a volume pedal (optionally available; BOSS FV-300L, FV-50L) in the loop.



Roland R&D Tip:

If you use digital multiple effects, the direct signal might also undergo A/D and D/A conversion, causing some loss of your guitar's original tonality. If you use effects units like these, we recommend controlling the balance between the effected signal and dry signal using the Blues Cube 60's EFFECT level balance knob.

6. Master Control



The Blues Cube 60 has a U.S. made "Accutronics" three-spring reverb unit just like classic American reverb amps. Adjust REVERB knob (6-2) for the desired amount. Reverb can be switched on and off with an optional foot-switch plugged into to the REVERB footswitch jack (6-1).

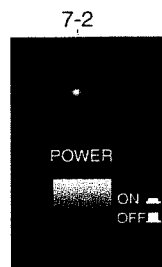
Roland's brand new proprietary circuit RECTIFEX switch (6-3) is the first of its kind, simulating two completely different rectifiers — the classic tube rectifier and the modern diode rectifier. Switch back and forth, checking out the different compression, attack and picking nuances which result. The differences are much more prominent when using an overdrive sound.

Roland R&D Tip:

RECTIFEX effects relate to the Blues Cube 60's "feel" and are subtle. Take some time to really check this feature out, and you'll appreciate just how amazing this technological breakthrough is!

The active PRESENCE (6-4) control works on the power amp stage to produce effects that are different from tone controls or equalizers to add lustrous highs to the sound, even with hard distortion. MASTER LEVEL (6-5) controls the total sound level of the Blues Cube 60.

7. Power Switch



The POWER switch (7-1) switches the unit on or off. Set it to "ON" and the pilot light (7-2) illuminates.

Experience a new world of guitar sound!

.....

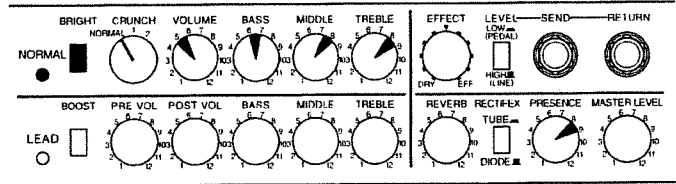
TONE SETTINGS

A. COUNTRY

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

BRIGHT
"ON"

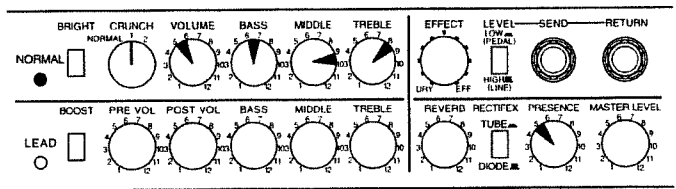
CH: NORMAL



B. TRADITIONAL BLUES

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

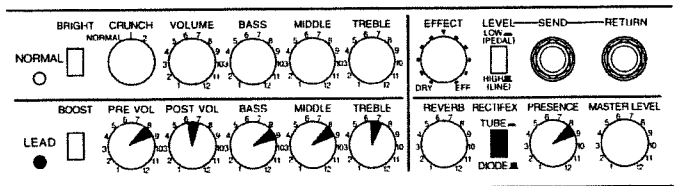
CH: NORMAL



C. ROCK BLUES

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

CH: LEAD

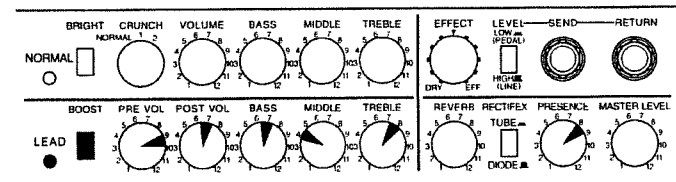


RECTIFEX
"TUBE"

D. HARD ROCK

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

CH: LEAD



BOOST
"ON"

IMPORTANT NOTES

In addition to the items listed under Safety Precautions on page 7, 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

- Do not subject the unit to temperature extremes (eg., direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas, or areas that are subject to high levels of vibration.
- 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 benzine, thinner, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions



- Protect the unit from strong impact.
- Do not allow objects or liquids of any kind to penetrate the unit. In the event of such an occurrence, discontinue use immediately. Contact qualified service personnel as soon as possible.
- 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.
- Should a malfunction occur, or if you suspect there is a problem, discontinue use immediately. Contact qualified service personnel as soon as possible.
- To avoid the risk of electric shock, do not open the unit.
- 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.

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-60

• Rated Power Output	60 W/8 ohm		
• Nominal Input Level	NORMAL Channel -27 dBm/680 k ohm LEAD Channel -65 dBm/680 k ohm		PRESENCE MASTER LEVEL POWER switch
• Speaker	V12-75 (30 cm/12 inches)	• Indicators	NORMAL Channel LEAD Channel PILOT lamp
• Controls	CHANNEL SELECT switch NORMAL Channel BRIGHT switch CRUNCH switch (Normal/1/2) VOLUME BASS MIDDLE TREBLE LEAD Channel BOOST switch PRE VOLUME POST VOLUME BASS MIDDLE TREBLE MASTER Controls EFFECT EFFECT LEVEL switch (HIGH +4dBm/LOW -20dBm) REVERB RECTIFEX switch	• Connectors	INPUT jack FOOT SWITCH jacks CHANNEL SELECT REVERB EFFECT SEND jack EFFECT RETURN jack
		• Power Supply	AC117V, 230V or 240V
		• Power Consumption	60 W/117 V 60 W/230 V 60 W/240 V
		• Dimensions	530 (W)x 293 (D)x 455 (H) mm 20-7/8(W)x11-9/16(D)x17-15/16(H)'
		• Weight	19.3 kg/42 lbs 9 oz
		• Accessory	Owner's Manual
		• Options	Foot Switches; Roland FS-1 BOSS FS-5L 0dBm=0.775 V rms

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



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.

WARNING: THE APPARATUS MUST BE EARTHED
IMPORTANT: 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  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.

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 BRAZIL
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

MEXICO

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

Guadalajara 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.

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Los Angeles, CA. 90040-3696,
U. S. A.
TEL: (0213) 685 5141

VENEZUELA

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

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

HONG KONG

**Tom Lee Music Co., Ltd.
Service Division**
22-32 Pun Shan Street, Tsuen
Wan, New Territories, HONG
KONG
TEL: 2415 0911

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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

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

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Swee Lee Company
BL.OCK 231,
Bain Street #03-23
Bras Basah Complex,
Singapore 0718
TEL: 3367886

CRISTOFORI MUSIC PTE

LTD
335, Joo Chiat Road SINGAPORE
1542
TEL: 3450435

TAIWAN

**Siruba Enterprise (Taiwan)
Co., LTD.**
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N.Road Sec.2 Taipei, TAIWAN,
R.O.C.
TEL: (02) 561 3339

THAILAND

Theera Music Co., Lt d.
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Bangkok 10100, THAILAND
TEL: (02) 2248821

BAHRAIN

Moon Stores
Bad Al Bahrain Road,
P.O.Box 20077
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

ISRAEL

**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
TEL: (06) 641200

KUWAIT

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

LEBANON

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
SUI.TANATE OF OMAN
TEL: 706 010

QATAR

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

SAUDI ARABIA

SAF Music Center
Al-Khobar 31952. P. O. Box 1366
SAUDI ARABIA
TEL: (03) 898 3311

Abdul Latif S. Al-Ghamdi

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

SYRIA

**Technical Light & Sound
Center**
Khaled Ebn Al Walid St.
P.O.Box 13520
Damascus - Syria
TEL: (011) 2235 384

TURKEY

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

U.A.E

**Zak Electronics & Musical
Instruments Co.**
Zabed Road, Al Sherouq Bldg.,
No. 14, Grand Floor DUBAI
U.A.E.
P.O. Box 8050 DUBAI, U.A.E
TEL: (04) 360715

EGYPT

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

MAURITIUS

Philanec Music Center
4th, Floor Noil, Happy World
House Sir William Newton Street
Port Luis MAURITIUS
TEL: 242 2986

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