



# **Owner's Manual**

GUITAR AMPLIFIER

# **JAZZ CHORUS**

JC-22

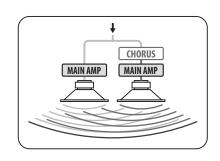
#### Main Features

The JC-22 is a 30 W stereo-input/output guitar amp featuring a transparently clean tone that faithfully expresses the true character of your guitar.

- Its unique stereo-input design lets you connect a stereo effect unit to the front panel and enjoy a stereo effect using just a single amp.
- A beautifully dimensional space chorus effect is produced by spatial mixing (allowing the direct sound and effect sound to mix in the air).
- In addition to a 3-band tone-stack EQ, it also provides a bright switch, giving you a rich palette of tone settings.
- With two independent power amps and two custom-designed 6.5-inch speakers, the JC-22 delivers a stereo effect.
- The enclosure is designed for strength and durability, made of hardened fiberboard and equipped with corner protectors.
- If a separately sold footswitch is connected, you can turn chorus and reverb on/off with your foot.

#### Dimensional space chorus

This uses two completely independent amps and speakers; one amp and speaker output the direct sound that is sent from the guitar, while the other amp and speaker output a sound that is subtly pitch-modulated. These two sounds are mixed in the air, creating a softly spacious three-dimensional effect that is warm, deep, and natural-sounding.



# **USING THE UNIT SAFELY**

Before using this unit, carefully read "IMPORTANT SAFETY INSTRUCTIONS" (inside front cover), "USING THE UNIT SAFELY" (p. 2), and "IMPORTANT NOTES" (p. 3). After reading, keep the document(s) including those sections where it will be available for immediate reference.

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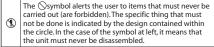
#### INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices

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

About the Symbols

warn deter	△symbol alerts the user to important instructions or ings.The specific meaning of the symbol is rmined by the design contained within the triangle. In ase of the symbol at left, it is used for general ons, warnings, or alerts to danger.
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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

# **!** WARNING

#### Make sure that the power cord is grounded

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.

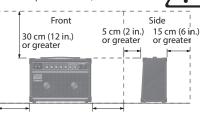


# To completely turn off power to the unit, pull out the plug from the outlet

Even with the power switch turned off, this unit is not completely separated from its main source of power. When the power needs to be completely turned off, turn off the power switch on the unit, then pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

# Secure a sufficient amount of space at the setup location

Since this unit normally emits a slight amount of heat, make sure to secure sufficient space around it, as shown below.



#### Do not disassemble or modify by yourself

Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.



#### Do not repair or replace parts by yourself

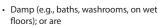
Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."



# **!** WARNING

# Do not use or store in the following types of locations

 Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heatgenerating equipment); or are



- · Exposed to steam or smoke; or are
- · Subject to salt exposure; or are
- Exposed to rain; or are
- · Dusty or sandy; or are
- Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.

#### Do not place in an unstable location

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



# Connect the power cord to an outlet of the correct voltage

The unit should be connected to a power supply only of the type described as marked on the rear side of unit.



#### Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.



# Do not bend the power cord or place heavy objects on it

Otherwise, fire or electric shock may result.



#### Avoid extended use at high volume

Use of the unit at high volume for extended periods of time may cause hearing loss. If you ever experience any hearing loss or ringing in the ears, you should immediately stop using the unit and consult a specialized physician.



# **!** WARNING

# Do not allow foreign objects or liquids to enter unit; never place containers with liquid on unit

Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.





# Turn off the unit if an abnormality or malfunction

Immediately turn the unit off, remove the power cord from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" when:



- The power cord has been damaged; or
- · If smoke or unusual odor occurs: or
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

#### Be cautious to protect children from injury

Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.



#### Do not drop or subject to strong impact

Otherwise, you risk causing damage or malfunction.



# Do not share an outlet with an unreasonable number of other devices

Otherwise, you risk overheating or fire.



#### Do not use overseas

Before using the unit in overseas, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."



The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.

No naked flame sources such as lighted candles should be placed on the apparatus.



Use the apparatus in moderate climates.



# **CAUTION**

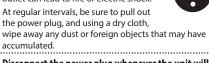
# When disconnecting the power cord, grasp it by the

To prevent conductor damage, always grasp the power cord by its plug when disconnecting it.



#### ...... Periodically clean the power plug

An accumulation of dust or foreign objects between the power plug and the power outlet can lead to fire or electric shock.



#### Disconnect the power plug whenever the unit will not be used for an extended period of time

Fire may result in the unlikely event that a breakdown occurs.



# !\ CAUTION

#### Route all power cords and cables in such a way as to prevent them from getting entangled

Injury could result if someone were to trip on a cable and cause the unit to fall or topple.



#### Avoid climbing on top of the unit, or placing heavy obiects on it

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



#### Never connect/disconnect a power plug if your hands are wet

Otherwise, you could receive an electric shock





## **CAUTION**

#### Before cleaning the unit, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk receiving an electric shock.



#### Whenever there is a threat of lightning, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk causing malfunction or receiving an electric shock.

•••••



#### Disconnect all cords/cables before moving the unit

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

# **IMPORTANT NOTES**

#### **Power Supply**

Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.

#### **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 unit may interfere with radio and television reception. Do not use this unit in the vicinity of such
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

#### Maintenance

· Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

#### **Additional Precautions**

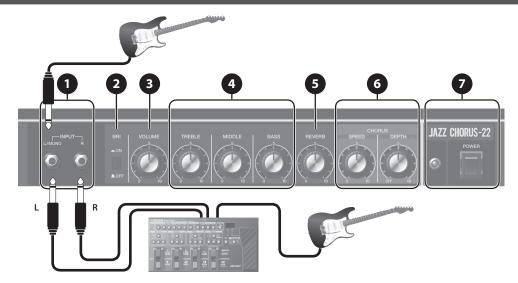
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- · When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.
- · Do not use connection cables that contain a built-in resistor.

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# **Panel Descriptions**

# Front Panel



1 INPUT jacks

Connect your electric guitar or effect unit here. If you're connecting a guitar directly, or a monaural effect unit, connect it to the L/MONO jack. If you connect a stereo-output effect unit to these jacks, you'll obtain a stereo effect with the left and right speakers of the JC-22.

- \* If you connect your guitar to the R jack, the sound is heard only from the right speaker.
- 2 [BRI] (Bright) switch

Brightens the mid- and high-frequency range, making the sound more crisp.

3 [VOLUME] knob

Adjusts the overall volume.

4 [TREBLE] / [MIDDLE] / [BASS] knobs

Adjust the volume of the high-, mid-, and low-frequency ranges respectively.

- 5 [REVERB] knob
  - Adjusts the reverb depth.
- 6 CHORUS

The JC-22 features dimensional space chorus effects.

#### [SPEED] knob

Adjusts the modulation speed of chorus.

#### [DEPTH] knob

Adjusts the modulation depth of chorus. If this is set to "OFF," chorus is not applied.

7 [POWER] switch

Turns the power of the JC-22 on/off. When the power is on, the indicator is lit.

# Turning the Power On/Off

- Make sure that the JC-22's [VOLUME] knob and the volume of the devices connected to the JC-22 are set to 0.
  - \* Before connecting your instrument to the JC-22's INPUT jacks, set the [VOLUME] knob to the minimum setting (far left).
- 2. Turn on the JC-22.
  - \* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.



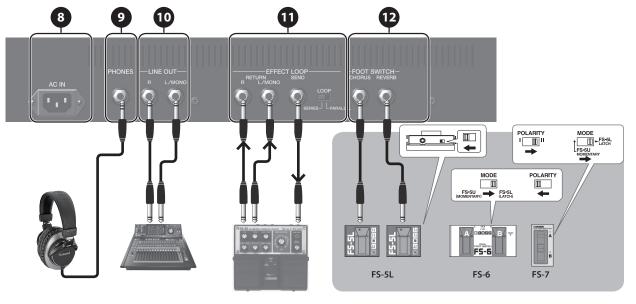
- 3. Turn on the power of the connected devices.
- 4. Adjust the volume levels for the devices.

Before switching off the power, lower the volume on each of the devices in your system and then TURN OFF the devices in the reverse order to which they were switched on.

\* If you need to turn off the power completely, first turn off the unit, then unplug the power cord from the power outlet. Refer to "To completely turn off power to the unit, pull out the plug from the outlet" (p. 2).

# **Nederlands**

# Rear Panel



# 8 AC IN jack

Connect the included power cord.

\* Use only the power cord that was included with the unit.

# **PHONES** jack

Connect headphones here.

\* If a plug is inserted in this jack, no sound will be output from the JC-22's own speaker.

# 10 LINE OUT jacks

Connect these to your PA system or recorder.

You can use this in conjunction with an external PA system, or to record your performance via direct line while monitoring the sound from the JC-22's speaker.

If you're using a monaural connection, connect your equipment to the L/MONO jack.

\* If chorus is on and you connect the line out in stereo, the dimensional space chorus effect (L: direct sound, R: effect sound) is obtained.

# **EFFECT LOOP SEND/RETURN jacks**

Connect an external effect device.

Connect the SEND jack to the input of your external effect device, and connect the output of your external effect device to the RETURN iack.

If you connect a stereo effect unit, the stereo effect is obtained using the JC-22's left and right speakers. If you're connecting a monaural effect unit, connect it to the L/MONO jack.

- \* If you connect only the R jack, sound is not output from the speakers, the LINE OUT jacks, and the PHONES jack.
- \* The sound that is input from the RETURN jacks is not affected by front panel controls 2-4. If you want controls 2-4 to affect this sound, connect your equipment to the front panel INPUT (L/MONO, R) jacks.
- To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any

#### [LOOP] switch

When "PARALLEL" is set, the external effects sound and the direct sound are mixed.

When "SERIES" is set, only the external effects sound is played.

\* When "SERIES" is set, there will be no sound if the volume of your external effect device is turned down or if it is powered-off.

→ For details on the EFFECT LOOP SEND/RETURN jacks and the [LOOP] switch, refer to "Block Diagram" at the end of this manual.

# **FOOT SWITCH jacks**

If a separately sold footswitch (BOSS FS-5L, FS-6, FS-7) is connected, you can turn chorus and reverb on/off with your foot.

- \* The JC-22 is compatible with latch-type footswitches (FS-5L, FS-6, FS-7). If you're using an FS-6 or FS-7, set the mode of A and B to FS-5L (LATCH).
- \* If you're using an FS-6 or FS-7, connect a 1/4" plug (monaural) to
- If you're using the A&B jack of the FS-6, use a stereo 1/4" plug ↔ two 1/4" monaural plugs (sold separately: PCS-31L, etc.).

# Main Specifications

# Roland JC-22: Guitar Amplifier

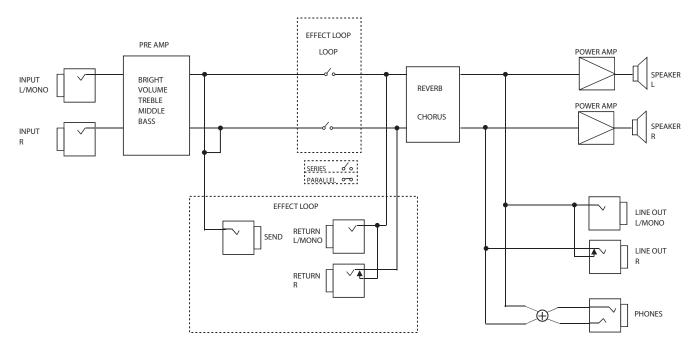
Rated Power Output	30 W					
	INPUT L/MONO, R jacks: -10 dBu (1 M Ω)					
Nominal Input Level	EFFECT RETURN L/MONO, R jacks: -10 dBu (22 k $\Omega$ )					
	EFFECT RETURN L/MONO only: -10 dBu (11 kΩ)					
Speakers	16 cm (6.5 inches) x 2					
	[POWER] switch					
	[BRI] (Bright) Switch					
	[VOLUME] knob					
Controls	[TREBLE] knob					
	[MIDDLE] knob					
	[BASS] knob					
	[REVERB] knob					
	[SPEED] knob					
	[DEPTH] knob					
	[EFFECT LOOP] switch					
Indicator	POWER					
	INPUT L/MONO, R jacks: 1/4-inch phone type					
	LINE OUT L/MONO, R jacks: 1/4-inch phone type					
	PHONES jack: Stereo 1/4-inch phone type					
Connectors	FOOT SWITCH (CHORUS, REVERB) jacks: 1/4-inch phone type					
	EFFECT LOOP SEND jack: 1/4-inch phone type					
	EFFECT LOOP RETURN L/MONO, R jacks: 1/4-inch phone type					
	AC IN jack					
Power Consumption	43 W					
Dimensions	461 (W) x 239 (D) x 338 (H) mm 18-3/16 (W) x 9-7/16 (D) x 13-5/16 (H) inches					
Weight	12 kg 26 lbs 8 oz					
Accessories	Owner's manual					
	Power cord					
Options (sold separately	y) Footswitch (BOSS FS-5L, FS-6, FS-7)					

<sup>\* 0</sup> dBu = 0.775 Vrms

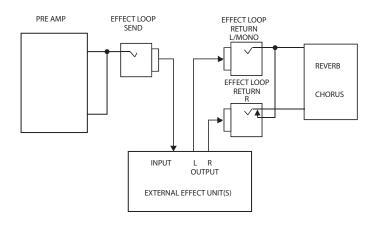
<sup>\*</sup> This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

# Block Diagram

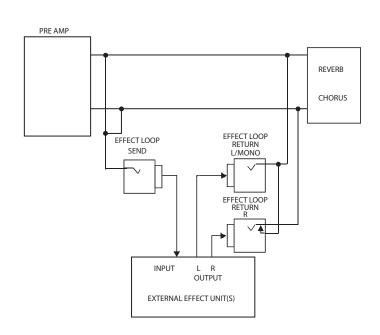
# JC-22 Block Diagram



#### **EFFECT LOOP (series)**



# EFFECT LOOP (parallel)



#### Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

#### **AFRICA**

#### REUNION

MARCEL FO-YAM Sarl 25 Rue Jules Hermann,

Chaudron - BP79 97 491 Ste Clotilde Cedex REUNION ISLAND TEL: (0262) 218-429

#### **SOUTH AFRICA** Paul Bothner(PTY)Ltd.

Royal Cape Park, Unit 24 Londonderry Road, Ottery 7800 Cape Town, SOUTH AFRICA TEL: (021) 799 4900

#### ASIA

#### **CHINA** Roland Shanghai Electronics Co.,Ltd.

5F. No.1500 Pingliang Road, Yangpu Shanghai 200090, CHINA TEL: (021) 5580-0800

# Roland Shanghai Electronics Co.,Ltd. (BEIJING OFFICE)

Toll Free: 4007-888-010

3F. Soluxe Fortune Building 63 West Dawang Road, Chaoyang Beijing, CHINA TEL: (010) 5960-2565/0777 Toll Free: 4007-888-010

#### HONG KONG

Tom Lee Music 11/F Silvercord Tower 1

30 Canton Rd Tsimshatsui, Kowloon, HONG KONG TEL: 852-2737-7688

# Parsons Music Ltd.

8th Floor, Railway Plaza, 39 Chatham Road South, T.S.T, Kowloon, HONG KONG TEL: 852-2333-1863

#### INDIA

Rivera Digitec (India) Pvt. Ltd. 411. Nirman Kendra Mahalaxmi

Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011, INDIA

TEL: (022) 2493 9051

#### **INDONESIA**

**PT. Citra Intirama** Ruko Garden Shopping Arcade

Unit 8 CR, Podomoro City Jl.Letjend. S.Parman Kav.28 Jakarta Barat 11470, INDONESIA TEL: (021) 5698-5519/5520

#### **KAZAKHSTAN** Alatau Dybystary

141 Abylai-Khan ave, 1st floor, 050000 Almaty, KAZAKHSTAN TEL: (727) 2725477 FAX: (727) 2720730

#### KORFA

**Cosmos Corporation** 

27, Banpo-daero, Seocho-gu, Seoul, KOREA TEL: (02) 3486-8855

#### MALAYSIA

Roland Asia Pacific Sdn. Bhd. 45-1, Block C2, Jalan PJU 1/39, Dataran Prima, 47301 Petaling

Jaya, Selangor, MALAYSIA TEL: (03) 7805-3263

#### MYANMAR

THAW AND ZIN FAMILY CO., LTD. 4061-4062, Taw Win Center

Level-3, Yangon, MYANMAR TEL: 09 31010744 / 09 5061300

## **PHILIPPINES**

G.A. Yupangco & Co. Inc. 339 Gil J. Puyat Avenue

Makati, Metro Manila 1200. PHILIPPINES TEL: (02) 899 9801

#### **SINGAPORE**

Swee Lee Service Centre 12 Jalan Kilang Barat #01-00 Singapore 159354 TEL: (+65) 6376 6141

#### **TAIWAN**

ROLAND TAIWAN ENTERPRISE CO., LTD.

9F-5, No. 112 Chung Shan North Road Sec. 2 Taipei 104, TEL: (02) 2561 3339

#### THAILAND

Theera Music Co., Ltd. 100-108 Soi Verng Nakornkasem, New Road, Sumpantawong, Bangkok 10100, THAILAND

#### TEL: (02) 224-8821 **VIET NAM**

VIET THUONG CORPORATION 386 CACH MANG THANG TAM ST. DIST.3, HO CHI MINH CITY, VIET NAM TEL: (08) 9316540

#### CARIBBEAN

#### **BARBADOS**

**A&B Music Supplies LTD** 12 Webster Industrial Park Wildey, St.Michael, BARBADOS TEL: (246) 430-1100

#### **CURACAO**

Zeelandia Music Center Inc. Orionweg 30

Curacao, Netherland Antilles TEL: (305) 5926866

#### **DOMINICAN REPUBLIC**

Instrumentos Fernando Giraldez Calle Roberto Pastoriza #325 Sanchez Naco Santo Domingo, DOMINICAN REPUBLIC TEL: (809) 683 0305

#### MARTINIQUE

Musique & Son Z.I.Les Mangle

97232 Le Lamentin, MARTINIQUE F.W.I. TEL: 596 596 426860

#### TRINIDAD

AMR Ltd

Ground Floor Maritime Plaza Barataria TRINIDAD W.I. TEL: (868) 638 6385

#### CENTRAL/SOUTH **AMERICA**

#### ARGENTINA

Instrumentos Musicales S.A.

Av.Santa Fe 2055 (1123) Buenos Aires, ARGENTINA TEL: (011) 4508-2700

#### RRA7II

Roland Brasil Ltda.

Rua San Jose, 211 Parque Industrial San Jose Cotia - Sao Paulo - SP, BRAZIL TEL: (011) 4615 5666

## CHILE

Audiomusica SpA Av. Chile España 393

Ñuñoa Santiago, CHILE TEL: (+56) 2 2384 20 00

#### COLOMBIA

CENTRO MUSICAL S.A.S.

Parque Industrial del Norte Bodega 130 GIRARDOTA - ANTIOQUIA, COLOMBIA TEL: (454) 57 77 EXT 115

#### **COSTA RICA**

JUAN Bansbach Instrumentos Musicales

Ave.1. Calle 11, Apartado 10237, San Jose, COSTA RICA TEL: 258-0211

#### **ECUADOR**

Mas Musika

Rumichaca 822 y Zaruma Guayagui - ECUADOR TEL: (593-4) 2302364

#### **EL SALVADOR**

OMNI MUSIC

Juan Pablo II, Edificio No.4010 San Salvador, EL SALVADOR TEL: 262-0788

#### **GUATEMALA**

Casa Instrumental
Calzada Roosevelt 34-01,zona

11 Ciudad de Guatemala, GUATEMALA TEL: (502) 599-2888

#### **HONDURAS** Almacen Pajaro Azul S.A. de C.V.

BO Paz Barahona 3 Ave.11 Calle S.O San Pedro Sula, HONDURAS TEL: (504) 553-2029

#### NICARAGUA

Bansbach Instrumentos Musicales Nicaragua

Altamira D'Este Calle Principal de la Farmacia 5ta. Avenida 1 Cuadra al Lago.#503 Managua, NICARAGUA TEL: (505) 277-2557

#### **PANAMA** SUPRO MUNDIAL, S.A.

Boulevard Andrews, Albrook, Panama City, REP. DE PANAMA TEL: 315-0101

#### **PARAGUAY** WORLD MUSIC

Jebai Center 2018, Centro CIUDAD DE ESTE, PARAGUAY TEL: (595) 615 059

#### **PERU**

Audiomusica Peru SAC

Av.Angamos Oeste 737 Piso 3 Miraflors

Lima, PERU TEL: (+57) 1 2557005

#### URUGUAY

**Todo Musica S.A.** Francisco Acuna de Figueroa

C.P.: 11.800 Montevideo, URUGUAY TEL: (02) 924-2335

#### **VENEZUELA** Instrumentos Musicales

Allegro, C.A.

Av.las industrias edf. Guitar import #7 zona Industrial de Turumo Caracas, VENEZUELA TEL: (212) 244-1122

#### **EUROPE**

#### BELGIUM/FRANCE/ HOLLAND/ LUXEMBOURG

Roland Central Europe N.V. Houtstraat 3, B-2260, Oevel (Westerlo) BELGIUM TEL: (014) 575811

#### **BOSNIA AND HERZEGOVINA**

Mix-AP Music

78000 Banja Luka, Veselina Maslese 3, BOSNIA AND HERZEGOVINA TEL: 65 403 168

## CROATIA

ART-CENTAR Degenova 3.

HR - 10000 Zagreb, CROATIA TEL: (1) 466 8493

#### **EUROMUSIC AGENCY**

K. Racina 1/15 HR - 40000 CAKOVEC, CROATIA Tel: 40-370-841

#### **CZECH REPUBLIC** CZECH REPUBLIC DISTRIBUTOR s.r.o

Pod Bání 8 180 00 Praha 8, CZECH REP. TEL: 266 312 557

#### DENMARK/ESTONIA/ LATVIA/LITHUANIA

Roland Scandinavia A/S Skagerrakvej 7, DK-2150 Nordhavn, DENMARK TEL: 39166200

## FINLAND

Roland Scandinavia As, Filial Finland

Vanha Nurmijarventie 62 01670 Vantaa, FINLAND TEL: (0) 9 68 24 020

#### **GERMANY/AUSTRIA**

ROLAND Germany GmbH. Adam-Opel-Strasse 4, 64569 Nauheim, GERMANY TEL: 6152 95546-00

#### GREECE/CYPRUS

STOLLAS S.A. Music Sound Light 155, New National Road Patras 26442, GREECE TEL: 2610 435400

#### HUNGARY

Roland East Europe Ltd. 2045. Törökbálint, FSD Park 3. ép., HUNGARY TEL: (23) 511 011

#### **IRELAND**

**Roland Ireland** E2 Calmount Park, Calmount Avenue, Dublin 12. Republic of IRELAND TEL: (01) 4294444

#### ITALY

Roland Italy S. p. A. Viale delle Industrie 8,

20020 Arese, Milano, ITALY TEL: (02) 937781

#### MACEDONIA

MK MJUZIK

Bratstvo Edinstvo 9 2208 Lozovo, MACEDONIA TEL: 70 264 458

#### **MONTENEGRO**

MAX-AP Žrtava Fašizma 73, 85310 Budva,

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#### NORWAY

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Lilleakerveien 2 Postboks 95 Lilleaker N-0216 Oslo, NORWAY

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#### **EGYPT**

Al Fanny Trading 9, EBN Hagar Al Askalany Street, ARD E1 Golf, Heliopolis, Cairo 11341, EGYPT TFI: (022)-417-1828

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MOCO INC. Jadeh Makhsous Karaj (K-9), Nakhe Zarin Ave. Jalal Street, Reza Alley No.4 Tehran 1389716791, IRAN TEL: (021)-44545370-5

ISRAFL Halilit P. Greenspoon & Sons Ltd. 8 Retzif Ha'alia Hashnia St.

#### Tel-Aviv-Yafo ISRAEL TEL: (03) 6823666 JORDAN

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EASA HUSAIN AL-YOUSIFI & SONS CO. Al-Yousifi Service Center P.O.Box 126 (Safat) 13002, KUWAIT TEL: 00 965 802929

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Chahine S.A.L. George Zeidan St., Chahine Bldg., Achrafieh, P.O.Box: 16-5857 Beirut LEBANON TEL: (01) 20-1441

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AL-EMADI TRADING & CONTRACTING CO.
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## SAUDI ARABIA

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Top Music S de RL de CV Mesones 13 Local B Col Centro Del Cuauhtemoc Mexico D.F. CP 06080, MEXICO

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For Australia TEL: (02) 9982 8266

For New Zealand TEL: (09) 3098 715

As of Nov. 1, 2015

#### **For EU Countries**



- This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.
- Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.
- Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.
- Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali riffuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai riffuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- Est símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.
- Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.
- Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.
- Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.
- Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

- Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.
- Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousiätteiden mukana.
- Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.
- See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.
- Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.
- Το σύμβολο αυτό υποδηλώνει ότι στις χώφες της Ε.Ε. το συγκεκομμένο ποοϊόν ποέπει να συλλέγεται χωφιστά από τα υπόλοιπα οικιακά αποφοίμματα, σύμφωνα με όσα ποοβλέπονται σε κάθε περιοχή. Τα ποοϊόντα που φέφουν το συγκεκομμένο σύμβολο δεν ποέπει να αποφοίττονται μαζί με τα οικιακά αποφοίμματα.

For China -

# 有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于2007年3月1日以后本公司所制造的产品。

#### 环保使用期限



此标志适用于在中国国内销售的电子信息产品,表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内,产品中所含的有害物质不致引起环境污染,不会对人身、财产造成严重的不良影响。

环保使用期限仅在遵照产品使用说明书,正确使用产品的条件下才有效。

不当的使用,将会导致有害物质泄漏的危险。

#### 产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素						
司(件)名(外)	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)	
外壳 (壳体)	×	0	0	0	0	0	
电子部件(印刷电路板等)	×	0	×	0	0	0	
附件(电源线、交流适配器等)	×	0	0	0	0	0	

- 〇:表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
- ×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。 因根据现有的技术水平,还没有什么物质能够代替它。

# 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment requires shielded interface cables in order to meet FCC class B limit.

Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- For Canada

CAN ICES-3 (B)/NMB-3 (B)

- For Korea

#### 사용자 안내문

기종별	사용자 안내문
B 급 기기	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며,
(가정용 방송통신기자재)	모든지역에서 사용할 수 있습니다.

For C.A. US (Proposition 65)

#### **WARNING**

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

**(**E