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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND CUBE-20XL. You'll find the answers to all your questions on the ROLAND CUBE-20XL in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Roland

## Owner's Manual

Guitar Amplifier

# CUBE 20XL

Owner's Manual

English

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Mode d'emploi

Francis

Manuale dell'utente

Italiano

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**Manual abstract:**

@@2. 3. 4. 5. 6. 7. 8. 9. Read these instructions. Keep these instructions.

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with a dry cloth. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions. @@Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.

If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the manufacturer. 12. Unplug this apparatus during lightning storms or when unused for long periods of time. 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the U.K. **IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. BLUE: NEUTRAL BROWN: LIVE** As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug. Owner's Manual Guitar Amplifier · Compact size that's perfect for anything from at-home practice to rehearsing in the studio, and is conveniently portable. Switchable between two channels: JC CLEAN and LEAD (p. 4) Deutsch Nederlands Português Español Italiano Français · Channel switching can be done via optional foot switch. The "LEAD" offers six different COSM pedal effects (p.

4) · The LEAD channel provides six types of pedal effects, including ACOUSTIC SIM, OVERDRIVE, DISTORTION, METAL, METAL STACK, and the original EXTREME effect, giving you sounds for a broad range of styles. Composite Object Sound Modeling (COSM) is Roland's innovative and powerful sound modeling technology. COSM analyzes the many factors that make up the original sound, such as the electrical and physical characteristics of the original, and then produces a digital model that can reproduce the same sound. Effects include EFX/SOLO and an independent DELAY/REVERB (p. 5) · Onboard EFX section includes 5 types of digital effect, CHORUS, FLANGER, PHASER, TREMOLO, and HEAVY OCTAVE.

· Foot switch (optional) can be used to switch EFX/SOLO on and off (p. 5). Power Squeezer function (p. 5) · This allows you to obtain a good tonal balance even at low volume, letting you enjoy powerful sound even when you're at home. A tuner function is included (p.

7) · This feature allows you to tune your guitar while the instrument is connected to the CUBE-20XL. · The tuning reference function sounds a reference pitch for your tuning convenience. Equipped with an AUX IN jack, which is convenient for your practice sessions (p. 5) · Use this to play along with sounds from CD players and digital audio players. Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (inside front cover), "USING THE UNIT SAFELY" (p. 2), and "IMPORTANT NOTES" (p. 3). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

Copyright © 2010 ROLAND CORPORATION All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION Roland is a registered trademark of Roland Corporation in the United States and/or other countries. English 20-watt output, high-performance, DSP guitar amp with built-in 20 cm (8-inch) speaker USING THE UNIT SAFELY About WARNING and CAUTION Notices About the Symbols The symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger. The symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled. 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. 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. \* 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. ALWAYS OBSERVE THE FOLLOWING WARNING Do not open or perform any internal modifications on the unit.

Protect the unit from strong impact. (Do not drop it!) Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. Never install the unit in any of the following locations. · Damp (e.

g., baths, washrooms, on wet floors); or are · Exposed to steam or smoke; or are · Subject to salt exposure; or are · Humid; or are · Exposed to rain; or are · Dusty or sandy; or are · Subject to high levels of vibration and shakiness. 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. The unit should be connected to a power supply only of the type described as marked on the rear side of unit. Do not excessively twist or bend the power cord, nor place heavy objects on it.



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Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards! This unit, 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 immediately stop using the unit, and consult an audiologist.

Do not place containers containing liquid 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. Immediately turn the power 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" page when: · The power-supply cord or the plug has been damaged; or · If smoke or unusual odor occurs · 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. 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. **WARNING** 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 retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. **CAUTION** The unit should be located so that its location or position does not interfere with its proper ventilation. Always grasp only the plug on the power-supply cord when plugging into, or unplugging from an outlet.

At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire. 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. 6). Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. The cooling vents on either side of the unit may become hot, so take care to avoid burns. Do not remove the speaker grille and speaker by any means. Speaker not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.

**2 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 (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. 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. · Before connecting thinly affect the finish. · Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish. · Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally. · Do not put anything that contains water (e.g., flower vases) on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.

· The product names mentioned in this document are trademarks or registered trademarks of their respective owners, and are not related to Roland Corporation. In this manual, these names are used because it is the most practical way of describing the sounds that are simulated using COSM technology. 3 Nederlands Português Español Italiano Français Trademarks Deutsch English Panel Descriptions Control Panel 8 9 10 11 12 15 16 17 1 1. INPUT Jack Connect your electric guitar here. 4 2 3 5 6 7 13 14 LEAD Channel 5.

**Type Switch** You can select from the following six types. When the tuner function is on, you can use this to select the name of the string to be tuned (p. 7). Type **ACOUSTIC SIM OVERDRIVE DISTORTION METAL METAL STACK EXTREME** Description This original amp model gives you a dynamic acoustic guitar sound using a standard electric guitar. Natural distortion sound similar to that obtained by turning an amp's volume up completely. Harder distortion than **OVERDRIVE**. Even harder and heavier than **DISTORTION**, which can get long sustained notes. Very fat sound of a Heavy Metal full amp stack. High-gain sound delivering thick lows and intense distortion while still preserving the sound's clear definition. 2.

**[SELECT] Switch** Switches between the **JC CLEAN** and **LEAD** channels. You can confirm which channel is selected by checking which red indicator is lit. (**JC CLEAN**: left; **LEAD**: right). Channels can be switched using optional **BOSS FS-5U** or **FS-6** foot switches. 3. **[TUNER] Switch** Use this when you want to tune your guitar. When you turn on the switch, it will light red, and you'll be able to use the Tuner function. For more detailed information, refer to "Using the Tuner Function" (p. 7). **JC CLEAN Channel** This is a model of Roland's famous **JC-120 Jazz Chorus** guitar amplifier.

The ultra-clean, ultra-flat sound offers a smooth feel. This amp is ideal for creating sounds in combination with a multi-effects device.



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4. [VOLUME] Knob Adjusts the JC CLEAN channel volume. 6.

[GAIN] Knob Adjusts the LEAD channel's distortion level. 7. [VOLUME] Knob Adjusts the LEAD channel volume. 4 EQUALIZER 8. [BASS] Knob Adjusts the tone quality of the lower range.

13. [POWER SQUEEZER] Switch The switch lights in red when the power squeezer function is on; the switch is unlit when the power squeezer is off. Switching on the Power Squeezer function allows you to reduce the amp's output to 2 watts. Switching this on allows you to produce a sound that preserves the same tone and balance at an output of 2 watts, for volume levels that are more suitable for the average home. \* The Power Squeezer function affects only sounds input through the INPUT jack. It has no effect on sounds input via the AUX IN jack. 9. [MIDDLE] Knob Adjusts the tone quality of the midrange. 10. [TREBLE] Knob Adjusts the tone quality of the upper range.

EFX/SOLO (Effects/Solo) 11. [EFX/SOLO] (Effects/Solo) Knob Turn this knob to CHORUS, FLANGER, PHASER, TREMOLO, or HEAVY OCTAVE to select the corresponding effect, or to SOLO. Turn the knob to adjust the amount of effect applied. The ON indicator lights up when EFX is turned on, and goes out when EFX is turned off. You can also turn EFX on and off using optional foot switches Graduations for CHORUS, FLANGER, PHASER, TREMOLO, SOLO, HEAVY OCTAVE on a panel are for reference. Be sure to check the sound as you adjust the effects. Type CHORUS FLANGER PHASER TREMOLO Description In this effect, a slightly detuned sound is added to the original sound, giving the sound greater breadth and fullness. This creates a flanging effect that creates a sort of spinning sensation with the sound. This effect adds a variable phaseshifted signal to the direct sound, giving the sound a swirling character. Tremolo is an effect that creates a cyclic change in volume.

This applies a boost effect to the original sound. By using a foot switch to turn SOLO on/off individually for the JC CLEAN and LEAD channels, you can vary the volume and distortion of your sound. This adds sound lowered by an octave to the original sound. Since you can play chords even when using this effect, you can use it to fatten the sound of your chordal playing as well. 14.

@@@ Turn the knob to adjust the amount of effect applied. @@@ Turn the knob to adjust the reverb level. 17.

@@ However, the speaker and RECORDING OUT/PHONES output is monaural. @@@@ Adjust the volume levels for the devices. 5.

@@ Refer to Power Supply (p. 3). 1. @@ Turn on all the devices connected to the CUBE-20XL's input jacks (INPUT jack and AUX IN jack). 3. Turn on the CUBE-20XL. \* Always make sure to have the volume level turned down before switching on power.

Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction.

\* 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. 6 Using the Tuner Function CUBE-20XL is equipped with a tuner function. In addition to manual tuning, you can also use it as a chromatic tuner. When tuning manually, the sound of the guitar will be output from the speaker and from the RECORDING OUT/PHONES jack. In chromatic tuner mode, sound will not be output from the speaker nor from the RECORDING OUT/PHONES jack. When tuning manually, you can press the [SELECT] switch to activate a tuning reference tone. Chromatic Tuning If you press the [TUNER] switch for one full second or more, the [TUNER] switch flashes and the unit becomes usable as a "chromatic tuner," which automatically determines the name of the note closest to the one played. Once in the Chromatic Tuner mode, no sound is played from the speaker or the RECORDING OUT/PHONES jack.

1. Press and hold the [TUNER] switch for at least one second. [TUNER] switch flashes and CUBE-20XL enters the chromatic tuner mode. 2. Play a single note on the open string that you want to tune.

Tune the string until the green indicator lights. Use manual tuning when the strings are substantially out of tune (such as after changing strings). In manual tuning mode, you can tune while listening to the sound of your guitar through the speakers or headphones. The volume can be adjusted with the JC CLEAN's [VOLUME] knob. If you don't want the sound of your guitar to be output from the speakers or headphones, set the JC CLEAN's [VOLUME] knob to 0.

When using manual tuning, you can press the [SELECT] switch to sound a tuning reference tone at the pitch selected by the Type switch. 1. Press the [TUNER] switch. CUBE-20XL enters the Tuner mode and the [TUNER] switch lights up. 1. Press the [TUNER] switch. CUBE-20XL enters the Tuner mode and the [TUNER] switch lights up. \* The reference pitch is A=440 Hz. This cannot be changed. 2.

Use the Type switch to select the string that you want to tune. Knob Position 6E 5A 4D 3G 2B 1E Description Open sixth string (E) Open fifth string (A) Open fourth string (D) Open third string (G) Open second string (B) Open first string (E) 3. Use the JC CLEAN channel's [VOLUME] knob to adjust the volume. 4. Press the [SELECT] switch. The reference tone will sound at the pitch of the string selected by the Type switch. 5. Play a single note on the open string that you want to tune. Play an open string or a harmonic, and tune your guitar to match the reference tone. 6.

When you have finished tuning, press the [TUNER] switch once again. Italiano \* The reference pitch is A=440 Hz. This cannot be changed. 3. Use the JC CLEAN channel's [VOLUME] knob to adjust the volume.

4. Play a single note on the open string that you want to tune. Flat Sharp Pitch is correct Lights red Lights green Lights red \* The red indicator flashes if the pitch is substantially out of tune. \* Press the [SELECT] switch, and you'll hear a reference tone of the pitch selected by the Type switch. (This is the Tuning Fork function.

) 7 Nederlands 5. When you have finished tuning, press the [TUNER] switch once again. Português Español Tune the string until the green indicator lights. Français Deutsch 2. Use the Type switch to select the string that you want to tune. English Manual Tuning Using the Tuning Fork Function Sample Settings EXTREME This is an extreme sound with intense distortion. This is a high-gain sound that packs a lot of punch in the low end, while delivering a great deal of edge in the upper range. You can obtain variations in the sound by moving the [MIDDLE] knob. If you turn on HEAVY OCTAVE, you can achieve an even greater sense of distortion in the low end. [SELECT] switch : LEAD Space Clean This is a transparent sound using spacial effects.

Select the JC CLEAN amp, modeled on the Roland JC-120, then add chorus and long delay.



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Using this setting with a guitar equipped with single coil pickups makes great sounding arpeggios and chord strumming. Depending on the phrase being played, it can be effective to set the delay sound's delay time slightly slower than the phrase's tempo. [SELECT] switch : JC CLEAN Power Grunge This produces a raging distortion sound that is very trebly and roughly textured. Setting the [GAIN] knob to prevent excessive distortion of the guitar sound results in a straight guitar sound with brilliant harmonics and powerful chord sounds. You can also add the FLANGER to produce a sound with a powerful swirling effect, much like the sound from a jet. Additionally, using the guitar's front pickup and raising the [GAIN] and [MIDDLE] knobs results in a fat lead sound with long sustain. [SELECT] switch : LEAD Alternative Metal The perfect sound for heavy, sharp riffs. Select the high-gain METAL STACK, then use the equalizer to boost the low end even more. Used with a humbucking pickup in the rear position, it results in an extreme distortion effect.

Plus, you can add a long delay to use this as a lead sound with great sustain. Adding a short delay produces a doubling sound like that from two performers playing the same phrases simultaneously. [SELECT] switch : LEAD 8 Setting Memo [SELECT] switch : [SELECT] switch : [SELECT] switch : 9 Netherlands [SELECT] switch : Português Español Italiano Français Deutsch English Specifications CUBE-20XL Rated Power Output Nominal Input Level Speakers 20 W INPUT (JC CLEAN channel) AUX IN 20 cm (8 inch) [POWER] Switch [SELECT] Switch [TUNER] Switch [POWER SQUEEZER] Switch Controls <JC CLEAN Channel> <LEAD Channel> <EQUALIZER> <EFX/SOLO> <DELAY/REVERB> Indicators Connectors Power Consumption Dimensions Weight Accessories [VOLUME] Knob Type switch (ACOUSTIC SIM, OVERDRIVE, DISTORTION, METAL, METAL STACK, EXTREME), [GAIN] Knob, [VOLUME] Knob [BASS] Knob, [MIDDLE] Knob, [TREBLE] Knob [EFX/SOLO] Knob (CHORUS, FLANGER, PHASER, TREMOLO, SOLO, HEAVY OCTAVE) [DELAY/REVERB] Knob (DELAY, REVERB, SPRING) -10dBu/1M -10dBu JC CLEAN Channel, LEAD Channel, EFX/SOLO, TUNER, POWER SQUEEZER INPUT Jack, AUX IN Jack, FOOT SW Jack (SELECT, EFX/SOLO), RECORDING OUT/PHONES Jack 24 W 385 (W) x 240 (D) x 385 (H) mm 15-3/16 (W) x 9-1/2 (D) x 15-3/16 (H) inches 9 kg / 19 lbs 14 oz Owner's Manual \* 0 dBu = 0.775 Vrms \* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice. 10 Information AFRICA EGYPT Al Fanny Trading O ce 9, EBN Hagar Al Askalany Street, ARD El Golf, Heliopolis, Cairo 11341, EGYPT TEL: (022)-417-1828 When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

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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. Unauthorized changes or modification to this system can void the users authority to operate this equipment.

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