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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND FR-3XB. You'll find the answers to all your questions on the ROLAND FR-3XB in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ROLAND FR-3XB
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Roland

FR-3X



Owner's Manual



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Manual abstract:

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

This equipment requires shielded interface cables in order to meet FCC class B Limit. For Canada For Canada NOTICE This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. AVIS For the UK For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. NEUTRAL BLUE: 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. The technology used in the FR-3x is covered by U.

S. Patent No. 6.946.594.

r **ENGLISH ENGLISH** Owner's Manual **ENGLISH** Introduction Thank you and congratulations on your choice of the Roland FR-3x V-Accordion. To ensure that you obtain the maximum enjoyment and take full advantage of the FR-3x's functionality, please read this owner's manual carefully. About this manual You should first read the chapter "Before you start playing" (p. 15) of the owner's manual. It explains how to connect the AC adaptor or install batteries and turn on the power. This Owner's Manual explains everything, from the FR-3x's basic operations to more advanced functions. Conventions in this manual In order to explain the operations as clearly as possible, this manual uses the following conventions: · Text enclosed in square brackets [] indicates the name of a button or knob. Example: the [USER PROGRAM] button. · Lines that begin with "NOTE " are cautionary statements that you must read. · The numbers of pages that you can turn to for additional, related information are given like this: (p.

**). The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual. Before using this instrument, carefully read "Using the unit safely" (p. 7) and "Important notes" (p. 9). Those sections provide information concerning the proper operation of the FR-3x. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, the manual should be read in its entirety.

The manual should be saved and kept on hand as a convenient reference. **ENGLISH** Copyright © 2010 ROLAND EUROPE. All rights reserved. No part of this publication may be reproduced in any form without the written permission of Roland Europe S.p.

a. Roland is either a registered trademark or a trademark of Roland Corporation in the United States and/or other countries. FR-3x V-Accordion Contents I.

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· Immediately turn the power off, remove the AC adaptor 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 AC adaptor, 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.



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.. · *Make sure you always have the FR-3x placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.*

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..... · *Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock. ..*

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· 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 FR-3x.

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

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. · Protect the FR-3x from strong impact. (Do not drop it!) ...

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..... · *Do not excessively twist or bend the power cord, or place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits.*

Damaged cords are fire and shock hazards!

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... 7 FR-3x V-Accordion Features · Do not force the FR-3x'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.

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..... · Before using the FR-3x in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. ..

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.... · Batteries must never be recharged, heated, taken apart, or thrown into fire or water.

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· Never expose batteries to excessive heat such as sunshine, fire or the like. · If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions. · Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity. · Avoid using new batteries together with used ones. In addition, avoid mixing different types of batteries. · Remove the batteries whenever the unit is to remain unused for an extended period of time. · If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries.

To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes. · Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc. .

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..... · *Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.*

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..... · *The unit and the AC adaptor should be located so its location or position does not interfere with their proper ventilation.*
· *Keep the included button caps in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.*

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.. · *Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.*

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.... · Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (see p. 15).

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.. · Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

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.... 8 V-Accordion r Important notes 2.

Important notes In addition to the items listed under "Using the unit safely" on p. 7, please read and observe the following: 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. · The AC adaptor will begin to generate heat after long hours of consecutive use.

This is normal, and is not a cause for concern. · The use of the supplied AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the rechargeable Ni-MH type. · When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to speakers or other devices. · 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. Repairs and data · Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs. Important data should always be backed up on a USB memory or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data.

However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland Europe S.p.a. assumes no liability concerning such loss of data. Precautions for batteries (not supplied) · The temperature range for use of the batteries depends on the battery type being used. Please see the documentation that came with the batteries. · Do not use or store batteries at high temperature, such as in strong direct sunlight, in cars during hot weather or directly in front of heaters.



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This may cause battery fluid leakage, impaired performance and shorten the batteries' service life. · Do not splash fresh or saltwater on a battery or allow the terminals to become damp. This may cause heat generation and formation of rust on the battery and its terminals.

· If newly purchased batteries exhibit rust, generate heat or seem abnormal in any other way, do not use them. Take them back to your dealer. · Keep the batteries out of reach of babies or small children. · Be sure to carefully instruct any person on the proper way of handling a battery. · Never dispose of the battery in a fire.

Never heat it. Doing so may melt the insulation, damage the gas release vents or protective devices, cause combustion through chemical reaction with generated hydrogen, ejection of battery fluid, bursting or fire. · Do not use batteries with the positive (+) and negative (-) terminals reversed, as this may drain the batteries or cause abnormal chemical reactions. · Do not strike or drop the batteries. Strong impact can cause leakage of battery fluid, heat generation, bursting or fire.

· Never try to connect several batteries in parallel as this may cause leakage of battery fluid, heat generation, bursting or fire. · Do not alter or remove protective mechanisms or other parts. Never disassemble the batteries. · If any fluid from a battery comes in contact with the eyes, flush the eyes immediately, washing them thoroughly with clean water from a tap or other source and consult a doctor. Strong alkaline fluid can damage the eyes and lead to permanent loss of eyesight. · If skin or clothing comes in contact with any fluid from the battery, wash the area immediately with clean water from a tap. Battery fluid can cause skin damage. · When a battery is no longer usable, dispose of it in accordance with all applicable local laws and regulations. · If a battery leaks fluid, changes color or shape or changes in any other way, do not use it, otherwise it may cause heat generation, bursting or fire. 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. · 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. · Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit. · 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. · Do not allow objects to remain on top of the keyboard. This can be the cause of malfunction, such as keys ceasing to produce sound. · 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. Maintenance · For everyday cleaning wipe the FR-3x 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 instrument 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 · Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory to a USB memory. · Unfortunately, it may be impossible to restore the contents of data that was stored on a USB memory once it has been lost. Roland Europe S.p.a. assumes no liability concerning such loss of data. 9 FR-3x V-Accordion Important notes · 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. · To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night). · 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. · Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable. Liability and copyright · The FR-3x's audio player is designed to allow you to reproduce material to which you have copyright, or material which the copyright owner has granted you permission.

Accordingly, the reproduction of music or other copyrighted material without permission of the copyright owner avoiding technical prohibiting features of second-generation and later copying, like SCMS or other solutions, constitutes copyright infringement and may incur penalties even in case such reproduction is for your own personal use and enjoyment (private use). Consult a copyright specialist or specialized publications for more detailed information on obtaining such permission from the copyright holders. · Do not use the FR-3x for purposes that could infringe on a copyright held by a third party. Roland assumes no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit. About audio files · Audio files in the following formats can be played back: · WAV format · 16-bit linear · Sampling frequency: 44.



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1kHz · Stereo/mono · mp3 files: · MPEG-1 Audio Layer 3 · Sampling frequency: 44.1kHz · Bit rate: 32/40/48/56/64/80/96/112/128/160/192/224/256/ 320kbps, VBR (variable bit rate) Battery handling · Incorrect handling of batteries, rechargeable batteries, or a battery charger can cause leakage, overheating, fire, or explosion. Before use, you must read and strictly observe all of the precautions that accompany the batteries, rechargeable batteries, or battery charger. When using rechargeable batteries and a charger, use only the combination of rechargeable batteries and charger specified by the battery manufacturer.

Storage devices that can be connected to the FR-3x's USB port · The FR-3x allows you to connect commercially available USB memories.

You can purchase such devices at a computer store, a digital camera dealer, etc. · Use USB memory sold by Roland. We cannot guarantee operation if any other USB memory is used. Notice · MPEG Layer-3 audio compression technology is licensed from Fraunhofer IIS Corporation and THOMSON Multimedia Corporation. · Roland and V-Accordion are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries. ·

MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology

Properties Limited (TPL). Roland has licensed this technology from the TPL Group. · All product names mentioned in this document are trademarks or registered trademarks of their respective owners. Before using external USB memories · When connecting a USB memory, firmly insert it all the way into the FR-3x's USB port. · Do not touch the pins of the FR-3x's USB port or allow them to become dirty.

· While using an external storage device, please observe the following points when handling it: · To prevent damage from static electrical charges, discharge any static electricity that might be present in your body before handling a USB memory. · Do not touch the terminals with your fingers or any metal object. ·

Do not bend or drop a USB memory, or subject it to strong impact. · Do not leave a USB memory in direct sunlight or in locations such as a closed-up automobile. · Do not allow a USB memory to become wet. · Do not disassemble or modify your external USB memory. · When connecting a USB memory, position it horizontally with the FR-3x's USB port and insert it without using excessive force. The USB port may be damaged if you use excessive force when inserting a USB memory. · Do not insert anything other than a USB memory (e.g.

, wire, coins, other types of device) into the USB port. Doing so will damage the FR-3x's USB port. · Do not apply excessive force to the connected USB memory or the FR-3x's USB port. · Never connect your USB memory to the FR-3x via a USB hub. r 10 V-Accordion r A first look at your FR-3x 3.

A first look at your FR-3x Let us first take a look at how the FR-3x is organized and how it is operated. The sections of your FR-3x Let's briefly look at the various "sections" of your instrument, as that will help you understand how your V-Accordion works. Bellows Bellows resistance regulator Your FR-3x is equipped with a bellows resistance regulator and air button that allows you to specify the bellows' inertia (the force needed to push and pull it). Bass and chord section Treble section Treble section (right-hand manual) This section is normally used for playing the melody. The FR-3x's treble section is velocity sensitive.

Bass and chord section This section is normally used to play the accompaniment. There are two general categories: one is called "Stradella", and the other "Free Bass". The FR-3x allows you to use either type. The "Stradella" system, also called the "standard bass system" uses the first 2 (or 3) button rows to play bass notes. The remaining button rows are used to play chords. If you select the "Free Bass" system, all buttons are used to play single bass notes. The FR-3x's bass and chord section is velocity sensitive. Bellows The bellows is an important part of the accordion. The movement of the bellows indeed lends expression and dynamics to the sound. Several techniques are available, one of which is called "bellows shake" (rapid opening and closing movements).

The bellows' inertia can be set with the resistance regulator and air button. Bellows resistance regulator. Press and turn to select the bellows' resistance. Air button. Press to purge remaining air after playing. Located next to one of the bellows clips and mounted onto the air button (which allows you to release remaining air from the bellows without producing sound). · Press the wheel and rotate it clockwise to select a stronger inertia. · Press the wheel and rotate it counterclockwise to select a lighter inertia. · Press the air button to purge the remaining air from the bellows after closing it. 11 FR-3x V-Accordion Panel descriptions 4.

Panel descriptions Treble control panel A POWER button Press this button to switch the V-Accordion on (the button lights) and off (button dark). NOTE NOTE By pressing and holding any register, you can switch off the treble or Treble Orchestra and Organ section. Press another register to switch it back on. If you need to turn off the power completely (when using the supplied AC adaptor), first turn off the [POWER] switch, then disconnect the AC adaptor's plug from the wall outlet. G ORGAN/ORCHESTRA register Pressing [ORGAN/ORCHESTRA] followed by one of the treble registers recalls an orchestral or organ sound.

This register has two additional functions: · To activate the demo song function: press and hold [ORGAN/ORCHESTRA]. · To select other functions: press and hold [ORGAN/ ORCHESTRA] and press one of the treble registers [4]~[0]. B SORDINA switch This MELLOW/BRIGHT switch allows you to switch the simulation of the wooden resonance chamber on ("BRIGHT") and off ("MELLOW"). C VOL knob This knob allows you to set the V-Accordion's overall volume. D BAL knob This knob allows you to set the balance between the Bass/Chord and the Treble sections.

H REVERB knob Use this knob to set the level of the reverb effect (see p. 22). E SET register This register is used to recall one of 25 Sets from one of the 10 Set families: press the [SET] register and one of the 10 treble registers. The [SET] register has three additional functions: · To edit function and MIDI parameters: press and hold [SET]. · To change octaves: press and hold [SET] and press [1/OCT] or [2/OCT+]. · To activate Bass-to-Treble mode: press and hold [SET] and press [3] BS TO TREB.



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I CHORUS knob Use this knob to set the level of the chorus effect (see p. 22). *J* USER PROGRAM button This button is used to recall one of 10 User Programs: first press [USER PROGRAM] and then one of the treble registers. *r* F Treble registers The Treble section contains 10 registers that allow you to select accordion, orchestral and organ sounds, Sets and User Programs.

12 V-Accordion *r* Bass control panel Bass control panel *K* Bass registers These switches allow you to select the desired bass sound. NOTE *L* Bass and chord buttons These 120 buttons are used to play bass notes and chords (they are velocity-sensitive). They also allow you to play drum sounds. By pressing and holding any register, you can switch off the Bass (or Free Bass) section. Press another register to switch it back on. *M* Bellows resistance and air button This wheel allows you to specify the bellows' inertia (the force needed to push and pull it). See page 11. By pressing it you can purge the air that still remains in the bellows after playing. *N* Display *N* CHORD/ BASS FREE BS TREBLE The display keeps you informed about the FR-3x's status and helps you locate the functions you may wish to set. ORCHESTRA *13* FR-3x V-Accordion Panel descriptions Battery compartment and USB port *O* P O Battery compartment This is where you install 10 commercially available rechargeable AA-type Ni-MH batteries (see p.

16). *P* USB port The FR-3x's USB port allows you to connect a USB memory. It can be used to play back audio files (mp3 and WAV) and to save and load settings. NOTE Use a USB memory sold by Roland. We cannot guarantee operation if any other USB memory is used.

Connection panel *R* Q S T Q DC IN socket This is where you need to connect the supplied power adapter (PSB-7U). Note that you can also purchase 10 rechargeable AA-type Ni-MH batteries and use the FR-3x without the adapter. NOTE On the FR-3x, connecting jacks to these sockets does not mute the internal speakers. NOTE *R* MIDI OUT/IN socket *r* This socket can be used to receive or transmit MIDI data. Using these sockets and switching off the FR-3x's speakers (see "Speaker Mode" on p.

55) allows you to save battery power. *S* OUTPUT L/MONO (TREBLE) & R/MONO (BASS) sockets These sockets can be connected to an amplifier, a mixing console or a wireless system. If you use both connectors, the FR-3x's output is stereo. In that case the signals of the Treble section is transmitted to the L/MONO socket, while the R/MONO socket transmits the bass (and chord) signal. If you only use one jack (connected to the "L" or "R" socket), the FR-3x's output is mono. *T* PHONES socket This is where you can connect stereo headphones (Roland RH-25, RH-50, RH-200 or RH-300). NOTE Connecting a pair of headphones mutes the internal speakers. *14* V-Accordion *r* Before you start playing 5. Before you start playing Getting ready to play The FR-3x is an electronic instrument that requires some form of electrical power. This chapter explains how to power your FR-3x using the supplied adaptor or 10 commercially available rechargeable batteries (AAtype Ni-MH).

In addition, you will learn how to connect your FR-3x to an external amplification system. NOTE Connecting the AC adaptor NOTE Be sure to use only the AC adaptor supplied with the unit (PSB-7U). Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock. 3. To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections. Connect the AC adaptor to the FR-3x's DC IN jack. 1. Turn the [VOL] knob all the way towards the small dot to minimize the volume. To a wall outlet 4.

2. Connect the included power cord to the AC adapter. The indicator will light once you plug the AC adapter into a wall outlet. To the FR-3x's DC IN connector AC adaptor Plug the power cord into a power outlet. Now that the FR-3x is connected to a wall outlet, you can continue with the section "Switching the power on and off" on p.

21. To use the FR-3x with batteries, see "Installing and removing batteries" on p. 16. NOTE If the FR-3x is to remain unused for an extended period of time, unplug the adaptor. Power cord To a AC outlet NOTE Indicator Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards.

NOTE To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the AC adaptor jack, anchor the power cord. See "Securing the adapter and/or MIDI cable" on p. 20. Depending on your region, the included power cord may differ from the one shown above. NOTE We recommend that you keep batteries installed in the unit even if you'll be powering it with the AC adaptor. That way, you'll be able to continue a performance even if the cord of the AC adaptor gets accidentally disconnected from the unit. 15 FR-3x V-Accordion Before you start playing Installing and removing batteries Your FR-3x has a compartment that contains a special holder unit into which you can install 10 rechargeable AA-type Ni-MH batteries (not supplied). You can therefore play your instrument without connecting the supplied adapter. 4. Use the tab to pull the battery case out of the compartment and turn the case around.

1. 2. Switch off the FR-3x. Remove the cushion located between the treble keyboard and the bellows. The battery case is connected to the FR-3x by means of a cable with a padded connector strip. You can disconnect the cable from the battery case by pulling off the padded connector strip. 3. Remove the cover from the FR-3x's battery compartment by pressing the two tabs and lifting the cover. This is unnecessary if you manage to install (or remove) the batteries without disconnecting the connector strip. 5.

Insert 10 rechargeable AA-type Ni-MH batteries into the compartment (5 on either side), taking care to orient them in accordance with the "+" and "-" indications. You should now see a tab that allows you to remove the battery case: 6. Insert the battery case with the 10 (5 + 5) batteries into the compartment. Close the FR-3x's battery compartment and re-install the cushion. NOTE *r* 7.

Though it is perfectly possible to use rechargeable batteries, be aware that they cannot be recharged simply by leaving them in the FR-3x's compartment and connecting the adapter. You will need an external charging unit. 16 V-Accordion *r* Battery charge indication NOTE We recommend using rechargeable AA-type Ni-MH batteries.



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NOTE Connecting the FR-3x to an amplifier, mixer, etc. The FR-3x is equipped with an internal speaker system and thus does not need to be connected to an amplifier at all.

There may be times, however when using an external amplification system is more convenient. NOTE When replacing batteries, be sure to insert them correctly (ensure correct polarity). NOTE Remove the batteries whenever the FR-3x is to remain unused for an extended period of time. Battery charge indication If, while using batteries, the "bAt" message appears in the display, the remaining battery power is low. Replace the batteries at your earliest convenience. A flashing "bAt" message means that you need to replace the batteries right away (or use the supplied adaptor). NOTE If you are using optional batteries and need to connect the FR-3x to a PA system or mixer, we recommend using a commercially available wireless system to avoid having to use excessively long signal cables. NOTE To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections. 1. 2.

3. Turn the [VOL] knob all the way towards the small dot to minimize the volume. Switch off all devices. Connect the FR-3x's OUTPUT jacks to the inputs of your external device. The battery charge indication is only an approximation. Battery duration New or fully charged batteries should last about 9 hours (for 2000mAh Ni-MH batteries) during continuous operation while the internal speakers are off (see "Speaker Mode" on p. 55), or 5 hours while the speakers are on. NOTE Actual battery life varies according to usage conditions, the quality of the batteries and the number of charging cycles. Energy saving function The FR-3x contains an energy saving function that switches the instrument off when it is left unattended for more than 10 minutes. You may therefore have to switch it on again from time to time.

You can specify how long the FR-3x should wait before powering off automatically. See "Auto Power Off" on p. 55. OUTPUT L/MONO (Treble) + R/MONO (Bass) INPUT L+R Use either a long signal cable (10m or more) or an optional wireless system (recommended). Please choose unbalanced (mono) cables with 1/4" jacks at one end (for the FR-3x).

The connectors at the other end need to match the input sockets of the device to which you are connecting the FR-3x. NOTE If you use a commercially available wireless transmitter, the FR-3x's output signals may distort. In that case, change the FR-3x's output level (see "Output Level Attenuation" on p. 55).

NOTE If your amplifier is monaural, you only need to connect the L/MONO socket.

NOTE You can also use a pair of headphones (Roland RH-25, RH-50, RH-200 or RH-300). 17 FR-3x V-Accordion Before you start playing Important remark After connecting any cable to the FR-3x, be sure to never place it on the side when not using it. · Always stand the V-Accordion on its rubber feet (and in the corresponding direction) to avoid damaging the plugs. · Always handle and move the FR-3x with care and pay special attention to the cable slack to avoid damaging or bending the cables. · If you place the FR-3x on your lap, ensure that the audio and adapter cables run between your legs (not sideways) to avoid damaging or bending the cables. Attaching the straps Proceed as follows to attach the straps to your FR-3x: 1. Unpack the straps. The FR-3x comes with two straps, each with two ends: the upper end is fitted with a velcro strip and the clip, the lower end is not. See the illustration below: 2. Put the FR-3x on a stable surface as shown in the illustration below.

3. Slide the upper end (with the velcro strip) of one strap through the left holder ring (see the illustration). r 4. Attach the strap's upper part to the velcro layer below it. 18 V-Accordion r Bass strap 5. Close the security clip to ensure that the strap cannot come loose. 9. Turn the strap end around and insert it into the lower eyelet, then pull it tight. 6. Repeat steps 3~5 for the other strap.

The upper strap ends should look as follows: NOTE You may want to adjust the length first to suit your preference. 10. Slide the plastic clip over the loose and long lower strap ends to secure the strap. 7. Slide the lower end of one strap through the right holder ring as shown.

11. Repeat steps 7~9 for the other lower strap end. Bass strap The FR-3x's bass strap (used to move the bellows in and out) is made of fabric and fitted with a velcro strip that allows you to adjust its slack. 8. Slide the strap end through the upper eyelet of its plastic buckle (see the illustration).

19 FR-3x V-Accordion Before you start playing Securing the adapter and/or MIDI cable Proceed as follows to ensure that the adapter cable or a MIDI cable doesn't come loose while you are playing. 3. Reinstall the cushion, taking care to secure the adapter cable and/or MIDI cable you have just installed. 1.

Unclip the indicated part of the cushion at the back of the FR-3x. The cushion is attached with several clips. You only need to unclip the part shown in the illustration below. When finished, the FR-3x should look as follows: Note the guide next to the right clip closest to the connection panel. 4. Reverse these steps to remove and disconnect the adapter when you want to stop playing.

2. Connect the small plug of the AC adaptor cable to the FR-3x's DC IN socket and wind the cable around the guide: You can also connect the MIDI cable to the MIDI OUT/ IN socket and wind it around the guide like the adapter cable. r 20 V-Accordion r Switching the power on and off Switching the power on and off NOTE Turning off the power 1. Turn the [VOL] knob all the way towards the small dot to minimize the volume. If you connected the FR-3x to an amplifier, etc., set its volume to the minimum value as well. 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. 2. Press the FR-3x's [POWER] button (its indicator goes dark).

Turning on the power 1. Turn the [VOL] knob all the way towards the small dot to minimize the volume. See "Adjusting the volume and balance" on p. 22. If you connected the FR-3x to an amplifier, etc.

, set its volume to the minimum value as well. 2. To switch the FR-3x on, press and hold down its [POWER] button until the display shows "Fr3". The [POWER] button lights. Using headphones The FR-3x has one jack for plugging in headphones.

This allows you to play without having to worry about bothering others around you, even at night. Fr3 NOTE 1.



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Plug the headphones into the [PHONES] jack located on the FR-3x's connection panel. 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. 3. Turn the [VOL] knob clockwise to set the volume to an appropriate level. NOTE Use stereo headphones. Please use only Roland headphones. Headphones from other manufacturers may be unable to provide sufficient volume.

NOTE The FR-3x's speakers are switched off when you connect headphones. 4. 2. Adjust the volume of the receiving audio device (if connected). Use the FR-3x's [VOL] knob to adjust the headphone volume. Cautions when using headphones · To prevent damage to the cord's internal conductors, avoid rough handling. When using headphones, mainly try to handle either the plug or the headset. 21 FR-3x V-Accordion Before you start playing · Your headphones may be damaged if the volume of a device is already turned up when you plug them in. Minimize the volume before you plug in the headphones. · Excessive input will not only damage your hearing, but may also strain the headphones.

Please enjoy music at an appropriate volume. Adjusting the chorus and reverb effects The FR-3x contains two digital effects: Chorus and Reverb. The chorus effect gives the impression that several instruments of the same type are playing at the same time (it is similar to detuning several reeds of a register). The reverb effect gives the impression that you are playing in a concert hall, a church or a room. It adds "depth" to the sound.

Adjusting the volume and balance Here is how to adjust the volume on your FR-3x. NOTE 1. Rotate the [CHORUS] knob to adjust the level of the chorus effect. If headphones are connected, the [VOL] knob controls the listening level. 1.

Use the [VOL] knob to set the desired volume. CHORUS Adjust this setting while playing the FR-3x and moving the bellows to produce sound. The chorus level you select (0~127) is briefly shown in the display. 2. Adjust the volume while you play the FR-3x and move the bellows to produce sound. Turning the [VOL] knob clockwise increases the volume, turning it counterclockwise decreases it. Rotate the [REVERB] knob to adjust the level of the reverb effect. 2.

Use the [BAL] knob to adjust the volume balance between the bass/chord and treble sections. REVERB Adjust this setting while playing the FR-3x and moving the bellows to produce sound.

The reverb level you select (0~127) is briefly shown in the display. 3. r Turn the [CHORUS] or [REVERB] knob all the way towards the small dot if you don't need the effect in question. NOTE Turning it towards "BASS" decreases the treble section's volume. Turning it towards "TREBLE" decreases the bass/chord section's volume. The selected balance setting ("t1"~"t63", "0", "b1"~ "b63") is briefly shown in the display. See p. 47 for how to select a different chorus or reverb type. 22 V-Accordion r How to read the display How to read the display The FR-3x's display keeps you informed about the FR-3x's status and helps you locate functions you may wish to set. The display can show up to three alphanumeric characters, either with or without a dot.

The main page contains the following information: 423 . Digit First Second Third Explanation Refers to the bass register you are currently using. The digit in the middle refers to the Chord/Free Bass register you are currently using. Refers to the treble register you are currently using. A dot to the right of a digit has the following meaning: Status Dark Lit Flashes Explanation You are using an accordion sound.

You are using an orchestral sound. You are using an organ sound. In addition to the above, the display also shows information that refers to the selected function. Messages (information) are displayed only temporarily. 23 FR-3x V-Accordion Listening to the demo songs 6.

Listening to the demo songs The FR-3x contains several demo songs. Here is how to play back those demo songs and fully appreciate the sounds contained in the FR-3x. 1. 2. Switch on the FR-3x. See "Switching the power on and off" on p. 21. (4) Use the [VOL] knob to change the volume if it is too loud or too soft.

NOTE Press and hold the [ORGAN/ORCHESTRA] register until the display looks as follows: All demo songs are copyright ©2010 by Roland Europe S.p.

a. Public performance or recording of these songs is prohibited. d01 Playback starts automatically with the first demo song (there are 33 demo songs in all).

At the end of the first song, the FR-3x starts playing songs "2", "3" etc. You can also directly jump to the song you're interested in: 5. Press [ORGAN/ORCHESTRA] again to leave demo song mode. 3. Use treble registers [1] and [2] (VALUE ®) to select the demo song you want to listen to. r 24 V-Accordion r Using Sets 7. Using Sets The FR-3x is a "virtual" accordion.

It recreates the sounds of various accordion instruments and can even generate orchestral sounds (like trumpet, flute, etc.), organ and drum sounds. Recalling a Set is similar to switching to a different accordion. User Set 4 NOTE Most of these settings can be saved. GLOBAL Metronome Reverb Chorus Level Touch :: Set 3 Set 2 Set 1 If you hold down [SET] for more than 2 seconds without pressing another register, the FR-3x switches to PARAMETER mode.

In that case, press [SET] again to leave that mode, then repeat step 1. 2. Press one of the treble registers [1]~[0] to select the Set family. Treble 1~14 Bass & Chord Orchestra Orch. Bass Orch.

Chord 1~7 1~7 1~10 1~7 Free Bass 1~7 Organ 1~10 Orch FB 1~7 The FR-3x contains 25 Sets divided over 10 families. 9 Set families have been programmed at the factory ("CLASSIC"~"ETHNIC", see the legends above the treble registers), while one family ("USER") can be used to load User Sets from an optional USB memory. Each Set family may comprise several Sets (see "Factory Sets" on p. 69). Recalling a Set immediately changes the settings of the sections presented on p. 26 and configures the treble and bass registers. 12 Set selection is handled in the following way: · If the Set family you select is the same as the one you have been using so far, the FR-3x selects the next Set within that family. Example: Pressing [1] CLASSIC while the display shows "11" selects Set memory "12" (still within the "CLASSIC" family). To go from Set "11" to Set "14", you therefore need to press register [1] three times after pressing [SET]. · If you select a different Set family, the FR-3x switches to the newly selected Set family and recalls the last memory you selected within that family.



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NOTE Selecting Sets To select the desired Set, proceed as follows: 1. Press the [SET] register. 11 For the User Set memories, the display shows a "U" and the number of the selected User Set (1~4). There are four User Sets. NOTE See the table on page 69 for the factory-programmed Sets. NOTE The number of the selected Set flashes in the display. The first digit from the left refers to the Set family, the second to the Set memory within that family. If, after pressing [SET] once, you do not press a treble register, the display returns to the main page after a while. In that case, press [SET] again and proceed with step 2.

While the USER PRG indicator below the display lights, it is impossible to select Sets.

25 FR-3x V-Accordion Selecting and playing sounds 8. Selecting and playing sounds Treble section The Treble section can be played using the 37-key "piano" keyboard or the 92 treble buttons. The sound it produces is determined by the register [1]~[0] you pressed last. This section can be used to play accordion, orchestral and organ sounds. In some cases, the display shows a dot to the right of the treble register number.

Here is what that means: Dot status Explanation Dark Lit Flashes You are using an accordion sound. You are using an orchestral sound. You are using an organ sound. 4. Play a few notes to check whether you have selected the correct sound family (accordion, orchestral or organ).

Do not forget to move the bellows in order to hear the notes you are playing. If you did not select the correct sound family, return to step 3. Selecting sounds for the right hand This section explains how to select accordion, orchestral and organ sounds for the treble section (right hand). On p. 27, you will learn how to combine accordion notes with an orchestral or organ sound. Sounds are selected using treble registers [1]~[0]. To select an orchestral or organ sound, you first need to press [ORGAN/ORCHESTRA], and then a treble register. 5. Press one of the 10 treble registers ([1]~[0]) to select the desired sound. The rightmost digit in the display changes and indicates the number of the sound you have just selected.

NOTE 1. 2. Switch on the FR-3x. See "Switching the power on and off" on p. 21. If you wish to select a treble accordion register, skip to step 5. NOTE See "Adjusting the volume and balance" on p. 22 if you need to change the volume or balance setting, and "Adjusting the chorus and reverb effects" on p. 22 for the effects settings. After switching on the FR-3x, the treble registers select accordion sounds.

Additional information about the accordion section The FR-3x allows you to select among 14 accordion sounds (even though there are only 10 treble registers). Four treble registers are assigned to two different sounds. These are shown in black in the illustration below. The little square in the reed configuration also alerts you to the fact that the registers in question (2, 5, 6 and 9) allow you to select two sounds: 3. Press the [ORGAN/ORCHESTRA] register once if you wish to select an orchestral sound, or twice to select an organ sound.

(If you press [ORGAN/ORCHESTRA] a third time, the treble registers once again allow you to select accordion sounds.) The number of the last sound you selected for that group (orchestra or organ) is indicated by the rightmost digit in the display. 443. Registers [2], [5], [6] and [9] allow you to select two different accordion sounds. r Pressing register [2], [5], [6] or [9] once selects the "A" sound.

Pressing it again selects the "b" sound. For these registers, the display briefly shows both the register number and an "A" or a "b". 26 V-Accordion r Additional information about the orchestral section The following accordion sounds are available: Treble registers NOTE 1 2a 2b 3 4 5a 5b Bassoon Bandon Cello Harmon Organ Accord Master 6a 6b 7 8 9a 9b 0 Tremolo Musette Violin This only switches off the section that is currently selected. Remember that the treble section can control both an accordion and an orchestral or organ sound. While in Orchestra mode, you thus only switch off (or activate) the orchestral/organ section. And while in accordion mode, you only switch off the treble accordion section. NOTE Oboe Clarinet Celeste Piccolo Even if you switch off the treble section, it still transmits MIDI messages. Using the Sordina The [SORDINA] switch allows you to attenuate the sound (make it softer) by selecting "MELLOW". On an acoustic accordion, this closes the wooden resonance chamber inside the instrument. The FR-3x simulates this effect electronically.

NOTE SORDINA MELLOW ON Additional information about the orchestral section The [ORGAN/ORCHESTRA] register allows you to use treble registers [1]~[0] to select from among 10 different orchestral sounds: ORCHESTRA sounds 1 2 3 4 5 Trombone Trumpet T Sax A Sax Clarinet 6 7 8 9 0 Harmonica Violin Flute El. Piano Strings The Sordina only applies to the treble section. Selecting the ORGAN/ORCHESTRA mode The orchestral or organ sound assigned to the treble section can be played in isolation or together with the treble accordion sound. There are several combinations: SOLO, DUAL, HIGH and LOW. Additional information about the organ sounds and the Rotary effect (organ section) The FR-3x allows you to recall 10 organ sounds with treble registers [1]~[0]. Pressing the register of the selected organ sound again allows you to switch between the fast and slow speeds of the Rotary effect. The

FR-3x contains the following organ sounds: Organ sounds 1. 2. Select an orchestral or organ sound. See "Selecting sounds for the right hand" on p. 26. Hold down the [ORGAN/ORCHESTRA] register and press treble register [7] to select "LOW/HIGH" or register [8] for "DUAL/SOLO". 1 2 3 4 5 Perc Jazz Jazz Ballad Full Organ Overdr Organ 6 7 9 0 Popular Organ Light Jazz Bossa Latin Light Latin Distort Organ 8 Switching off the treble section 1. To

switch off the treble section, press and hold any single register ([1]~[0]) for a while. The section in question must be assigned to the registers. See above for how to decide which section can be muted. NOTE 2. To switch the treble section back on, briefly press any of its registers. If you hold down [ORGAN/ORCHESTRA] for more than 2 seconds without pressing another register, the FR-3x switches to demo song mode. In that case, press [ORGAN/

ORCHESTRA] again to leave demo song mode, then repeat step 2.

27 FR-3x V-Accordion Selecting and playing sounds DUAL/SOLO mode (register [8]) Pressing register [8] while holding down [ORGAN/ ORCHESTRA] allows you to alternate between DUAL and SOLO modes. (After switching on the FR-3x, pressing this register once selects SOLO mode.) NOTE You can change the volume level of the orchestral or organ sound to create the desired mix between the treble accordion and the organ or orchestral sound.



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