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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND FR-7X. You'll find the answers to all your questions on the ROLAND FR-7X 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-7X
User guide ROLAND FR-7X
Operating instructions ROLAND FR-7X
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Instruction manual ROLAND FR-7X

Roland®

FR-7X



Owner's Manual



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Manual abstract:

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. 8. @@9. @@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. 1. 2. 3.

4. 5. 6. 7. 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.

The technology used in the FR-7x is covered by U.S. Patent No. 6.946.594. r ENGLISH ENGLISH Owner's Manual Congratulations on purchasing the Roland FR-7x V-Accordion. The FR-7x is the first instrument of its kind to provide powerful digital modeling technology in a traditional, immediately familiar, accordion design and with performance functions and authentic sounds. It combines the familiar sounds and nuances of a traditional accordion with the versatility of a modern digital musical instrument. The FR-7x furthermore contains an audio recorder function and a USB port that can be used to play back audio files on the connected storage device.

It is equipped with speakers and a battery pack for mobile use, while it can also be connected to an amplification system if desired. To get the most out of the FR-7x and to ensure many years of trouble-free service, we urge you to read through this Owner's Manual thoroughly. 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. ENGLISH ENGLISH Before using this instrument, carefully read "USING THE UNIT SAFELY" (p. 4) and "Important notes" (p. 6). Those sections provide information concerning the proper operation of the FR-7x.

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. Copyright © 2009 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. FR-7x V-Accordion USING THE UNIT SAFELY 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 other adverse effects respect to the home furnishings, as well animals or pets.

to damage or caused with and all its to domestic 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 powercord plug must be unplugged from the outlet. · Connect the mains plug of this model to a mains outlet with a protective earthing connection.

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· Do not open or modify the unit or its DC power supply (FBC-7). · The FR-7x, 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.

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..... · 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. ..

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· Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the FR-7x.

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..... · Never install the unit in any of the following locations. · Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are · 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.

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... · 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 FR-7x; or · The unit has been exposed to rain (or otherwise has become wet); or ·
The FR-7x does not appear to operate normally or exhibits a marked change in performance.

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..... · Make sure you always have the FR-7x 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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.... · 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-7x.

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... · Protect the FR-7x from strong impact. (Do not drop it!) · The FR-7x should only be connected to a power supply of the type described in the operating instructions, or as marked on the rear panel of the FBC-7.



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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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· Do not force the FR-7x'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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.... · Do not excessively twist or bend the power cord, nor 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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..... 4 V-Accordion r USING THE UNIT SAFELY · If used improperly, the battery pack may explode or leak and cause damage or injury.
In the interest of safety, please read and observe the following precautions (see p. 6). · Remove the battery pack whenever the unit is to remain unused for an extended period of time. · Before using the FR-7x 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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..... · *The battery pack must never be heated, taken apart, or thrown into fire or water.*

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... · *Used battery packs 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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.. · Do not put anything that contains water (e.g., flower vases) on the FR-7x.

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. · Keep any screws you may remove and related parts in a safe place out of children's reach, so there is no chance of them being swallowed accidentally. .

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.. · Neve prevent malfunctions and/or damage to speakers or other devices. · Although the LCD and LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power 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. · Do not allow objects to remain on top of the or pedal board. This can be the cause of malfunction, such as keys ceasing to produce sound. · 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.

Maintenance · For everyday cleaning wipe the FR-7x with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth. · Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation. Repairs and data · Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory, or once it has been lost. Roland Corporation assumes no liability concerning such loss of data.

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. · Never strike or apply strong pressure to the display. · When connecting / disconnecting all cables, grasp the connector itself--never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements. · A small amount of heat will

radiate from the unit during normal operation. · To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. 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). · Use only the specified expression pedal (EV-series; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit. · 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. 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.

· 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. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. 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 rubber, vinyl, or similar materials to remain on the unit for long periods of time. Such objects can discolor or otherwise harmfully affect the finish. Precautions for the included battery · The temperature range for use of the battery pack is as follows.



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Using them outside this range may impair battery performance and shorten battery service life.

Use (discharging): 0~50°C, Storage: 20~30°C, Charging: 0~40°C. · Do not use or store a battery pack at high temperature, such as in strong direct sunlight, in cars during hot weather or directly in front of heaters. This may cause battery fluid leakage, impaired performance and shorten the battery's service life. ·

Do not charge a battery pack while it is cold (below 0°C) or outside when it is freezing. This may cause battery fluid leakage, impaired performance and shorten the battery's service life. · Do not splash fresh or saltwater on a battery pack or allow the terminals to become damp. This may cause heat generation and formation of rust on the battery pack and its terminals. r 6 V-Accordion r Important notes · Use only the supplied FBC-7 to charge the FR-7x's battery pack. Failure to follow proper charging procedures may cause excessive current flow, loss of control during charging, leakage of battery fluid, heat generation, bursting or fire. · For the procedure for charging the FR-7x's battery pack, please read page 59.

· Do not connect the battery pack directly to a power outlet or insert it into a cigarette lighter socket in a car. High voltage may cause excessive current flow, leakage of battery fluid, heat, bursting or fire. · If a newly purchased battery pack exhibits rust, generates heat or seems abnormal in any other way, do not use it. Take it back to your Roland dealer. · The battery pack is supplied with residual charge only, so be sure to fully charge the battery pack with the supplied FBC-7 before using the FR-7x.

· Keep the battery pack out of reach of babies or small children. Ensure that babies or small children cannot remove a battery pack from the FBC-7 while it is being charged. · Be sure to carefully instruct any person on the proper way of handling a battery pack. · Never dispose of the battery pack 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 remove the outer tube from a battery pack or damage it. · Do not strike or drop the battery pack. Strong impact can cause leakage of battery fluid, heat generation, bursting or fire. · Do not alter or remove protective mechanisms or other parts. Never disassemble the battery pack. · The positive (+) terminal section of the battery is equipped with a gas release vent. Never deform this section or cover it. Do not obstruct the release of gas as this could result in leakage of battery fluid, heat generation, bursting or fire. · Do not overcharge the battery pack by exceeding the predetermined charging period of the FBC-7 or indicator.

Never recharge a battery pack that is already fully charged. This could result in leakage of battery fluid, heat generation, bursting or fire. · If the battery pack is not fully charged after the predetermined charging period has elapsed, stop the charging process. Prolonged charging could result in leakage of battery fluid, heat generation, bursting or fire. · If any fluid from a battery pack 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 pack, wash the area immediately with clean water from a tap. Battery fluid can cause skin damage. · When a battery pack is no longer usable, dispose of it in accordance with all applicable local laws and regulations. · If the battery pack 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.

Storage devices that can be connected to the FR-7x's USB port · The FR-7x allows you to connect commercially available storage devices, like USB Flash memory, and hard disks. 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. Before using external USB storage devices · When connecting a USB storage device, firmly insert it all the way into the FR-7x's USB port.

· Do not touch the pins of the FR-7x'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 storage device. · Do not touch the terminals with your fingers or any metal object. · Do not bend or drop a USB storage device, or subject it to strong impact. · Do not leave a USB storage device in direct sunlight or in locations such as a closed-up automobile.

· Do not allow a USB storage device to become wet. · Do not disassemble or modify your external USB storage device. · When connecting a USB storage device, position it horizontally with the FR-7x'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 storage device. · Do not insert anything other than a USB storage device (e.g., wire, coins, other types of device) into the USB port. Doing so will damage the FR-7x's USB port. · Do not apply excessive force to the connected USB storage device or the FR-7x's USB port. · Never connect your USB storage device to the FR-7x via a USB hub.

Liability and copyright · The law prohibits the unauthorized recording, public performance, broadcast, sale, distribution, etc., of a work (musical works, visual works, broadcasts, live performances, etc.) whose copyright is owned by a third party. Roland assumes no responsibility for any infringement of copyright that you may commit using the FR-7x. · The FR-7x'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. 7 FR-7x V-Accordion Important notes About audio files · Audio files in the following formats can be played back: · WAV format · 16-bit linear · Sampling rate of 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) Copyrights · MPEG Layer-3 audio compression technology is licensed from Fraunhofer IIS Corporation and THOMSON Multimedia Corporation.

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.135 V-Accordion r Features 2. Features Battery-powered instrument with built-in speakers Though the FR-7x is a fully electronic instrument, you do not need to connect it to an amplifier in order to produce sounds. Its onboard amplification system is powerful enough for small venues, restaurants, etc.

Furthermore, the FR-7x comes with a rechargeable battery pack (Ni-Mh) so that you do not need to connect it to a wall outlet.

Audio player and recorder on a connected USB storage device The FR-7x provides an audio player function that can play back mp3 and WAV files on a connected USB storage device. You can also record your performances as WAV files. Intuitive user interface The FR-7x comes with an organic LED display for instant and clear visual feedback thanks to a new graphic interface. PBM (Physical Behavior Modeling) The FR-7x V-Accordion is based on Roland's sound generation technology called "PBM" (Physical Behavior Modeling) whose sonic result is very close to the sound of traditional accordions. The digital advantage The V-Accordion includes all functions and sounds of a traditional accordion, thus conveying a really natural feel and sound. Yet it also provides the advantages only an electronic musical instrument can give you: reduced overall weight; possibility to choose among a wide variety of sounds; you can create and customize the accordion timbres (program your own sounds); you can choose among various bass button operation modes (Minor 3rd Free Bass, 5th, Bayan, North Europe, Finnish); tuning stability over time and wear resistance of all mechanical parts; you can sound in a different key than the one you are playing in (transpose function); you can play with headphones, i.e. without disturbing your neighbors or family. The V-Accordion allows you to control external MIDI-compatible instruments. The treble keyboard and chord/bass buttons are velocity-sensitive, while the bellows controller provides more articulation possibilities than any other MIDI keyboard, MIDI wind instrument, etc.

, you may know. Super realistic sounds All sounds the FR-7x produces were obtained by sampling the most popular traditional acoustic accordions, allowing

you to switch from an Italian jazz accordion to German folk, French musette or a historic bandoneon sound without changing your technique. Different tuning systems are also available. The FR-7x is also equipped with orchestral sounds that can be used in combination with traditional accordion sounds complete with full bellows articulation and unique keyboard modes (Solo, Dual, High and Low as well as "M" variants of these modes). The orchestral sounds can be freely assigned to the desired register for optimum flexibility. You can also assign other orchestral sounds to the registers. Tonewheel organ sounds Thanks to its tonewheel organ sound engine, the FR-7x allows you to play amazing organ sounds like an organ player by using the treble (TW Upper), chord (TW Lower) and bass (TW Pedal) sections. Superb performance flexibility Drum sounds You can also use the FR-7x to play simply drum parts with you left hand by assigning drums and percussion sounds to the bass and chord buttons. Sound expansion The FR-7x provides two internal memories that allow you to add new sounds. Sophisticated bellows response Faster response and higher sensitivity and precision plus detection of bellows opening/closing with new bellows pressure sensing circuitry.

A bellows resistance regulator knob allows you to adjust the bellows' inertia to your preference. 11 FR-7x V-Accordion © Panel descriptions 3. Panel descriptions Treble control panel A B C B E L F G H A DATA/ENTER knob This knob allows you to scroll through and select menu pages, and to modify parameter values. It also allows you to start/stop an external MIDI device (see p. 93). B UP/DOWN buttons On the main page, [UP] and [DOWN] allow you to select 9 important functions. When the menu is displayed, [UP] and [DOWN] are used to scroll menu pages. C EXIT/JUMP button The [EXIT≠JUMP] button allows you to return to the main page.



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After selecting a menu function, briefly pressing [EXIT÷JUMP] takes you back to a higher level. Press it again to return to the main page.

By holding down [EXIT÷JUMP] while the main page is displayed, you activate the JUMP function (see p. 62). D MENU/WRITE button This button allows you to select the FR-7x's MENU environment where you can set and view all available functions. By holding down [MENU÷WRITE], you activate the WRITE function, which allows you to save your settings. E VOLUME knob This knob allows you to set the V-Accordion's overall volume. F BALANCE knob This knob allows you to set the balance between the Bass and the Treble sections. Turn it towards "BASS" to decrease the Treble section's volume. Turn it towards "TREBLE" to decrease the Bass section's volume. G SET buttons These two buttons allow you to choose among 80 accordion Sets. Each Set contains suitable settings for all sections (accordion, orchestral/tonewheel organ, drums).

H Treble/Orchestra registers The Treble section contains 14 registers (switches) + ORCHESTRA selector that allow you to select the desired sound. Note: In ORCHESTRA mode registers [1]~[13] provide access to two sounds (A/B). To select a "B" sound, press the corresponding register twice. Note: By pressing and holding any register, you can switch off the Treble section. Press another register to switch it back on. I D J K M I POWER button Press this button to switch the V-Accordion on (the button lights) and off (button dark). Note: The FR-7x is automatically switched off after 10 minutes of inaction to save battery power. This can be changed, however (see p. 92). Be aware that any unsaved changes are lost when the FR-7x is switched off by that function.

r J SORDINA switch This ON/OFF switch allows you to switch the simulation of the wooden resonance chamber on and off. K DELAY knob The FR-7x contains three digital effects that can be used simultaneously. This knob is used to set the level of the delay (echo) effect (see p. 85). L CHORUS knob Use this knob to set the level of the chorus effect (see p.

83). M REVERB knob Use this knob to set the level of the reverb effect (see p. 82). 12 V-Accordion r Treble control panel Bass control panel N O N Bass registers These switches allow you to select the desired bass mix. Note: By pressing and holding any register, you can switch off the Bass (or Free Bass) section.

Press another register to switch it back on. P O 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. P Bellows resistance and air button This wheel allows you to specify the bellows' inertia (the force needed to push and pull it). See page 21. By pressing it you can purge the air that still remains in the bellows after playing. Display and master bar Q Master bar In most cases, this bar (which you can press) recalls a treble register you specify. In Dual, High or Low mode, however, it allows you to switch the Orchestra section on and off. On the button-type model, the Master bar can also be used for Aftertouch messages. R Display This organic LED display shows information related to your operation.

Q R 13 FR-7x V-Accordion ® Treble control panel Battery compartment and USB port S Battery compartment This is where you install the supplied battery pack (see p. 16). T USB port cover The FR-7x's USB port allows you to connect a USB storage device. It can be used to record your playing, to play back audio files (MP3 and WAV) and to save and load settings. Note: Use USB memory sold by Roland. We cannot guarantee operation if any other USB memory is used. S T Connection panel W U U TO FBC-7 socket Use the supplied cable to connect this socket to the supplied FBC-7 power supply/footswitch unit/battery charger. V 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-7x's output is stereo. If you only use one jack (connected to the "L" or "R" socket), the FR-7x's output is mono.

V Note: If you don't plan to use a commercially available wireless system, consider connecting the FR-7x to the FBC-7 when you need to connect it to an external amplifier. Note: Connecting jacks to these sockets does not mute the internal speakers. W PHONES socket This is where you can connect optional stereo headphones (Roland RH-series). Connecting a pair of headphones mutes the internal speakers. Connection panel of the FBC-7 A B C D E F r A POWER ON switch Press it to switch the FBC-7 on and off.

Note: This switch only switches on the FBC-7. To switch on the FR-7x, use its [POWER] button. B AC connector This is where you need to connect the supplied power cable. See also page 18. C MIDI THRU/OUT/IN sockets Use these sockets to connect the FR-7x to external MIDI gear (see p. 107). D OUTPUT R/MONO & L/MONO sockets Connect these sockets to an external amplifier or mixing console. For stereo operation, be sure to connect both jacks. 14 V-Accordion r Treble control panel E EXPRESSION PEDAL socket This is where you can connect an optional EV-series expression pedal (see p. 58). F TO V-ACCORDION socket Use the supplied 19-pin cable to connect this socket to your FR-7x. Note: See also "Using the FBC-7" on p. 58 for additional functions of the FBC-7. 15 FR-7x V-Accordion ® Before you start using the FR-7x 4. Before you start using the FR-7x Installing the battery pack The FR-7x comes with a rechargeable battery pack that is needs to be installed when you first unpack the FR-7x.

You can also decide to use the FBC-7 instead (see "Connecting the FR-7x to the supplied FBC-7"). (1) Set the FR-7x upright as shown in the illustration below. (2) Prepare a coin. (3) Remove the cushion located between the Treble keyboard and the bellows. (9) Close the FR-7x's battery compartment and reinstall the cushion. Note: Be sure to tighten the two screws all the way to establish firm contact between the compartment cover and the instrument. Otherwise, you won't be able to use your FR-7x. Connecting the FR-7x to the supplied FBC-7 Your FR-7x comes with an FBC-7 footswitch unit that doubles as power supply for your V-Accordion and also allows you to recharge a battery pack. If the rechargeable battery pack is installed, you can also play your instrument without connecting it to the FBC-7. Note: See "About the FBC-7" on p.

58 for details about using the FBC-7. (1) Connect the supplied 19-pin cable to the FR-7x. Turn the ring to lock the jack and secure the connection (4) Use the coin to loosen the two screws of the battery pack compartment cover. Holes Protrusions (5) Remove the cover from the FR-7x's battery pack compartment. Note: While the compartment cover is open, the FR-7x cannot be switched on.



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The 19-pin cable can only be connected in one way, so you can't go wrong. Just be sure to align the protrusions on the jack with the corresponding holes on the FR-7x's socket. (2) Connect the other end of the 19-in cable to the FBC-7. (6) Pull out the battery connection cable on the right side. (7) Connect the FR-7x's cable to the battery pack and insert the battery pack into the FR-7x's compartment.

Connecting the FBC-7 to a wall outlet This is only necessary if you connected the FR-7x to the FBC-7. 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) Connect the FBC-7's AC INLET socket to a wall outlet. r To a wall outlet (8) Arrange the strip on the battery pack in such a way that it will not prevent you from installing the battery pack compartment cover. 16 V-Accordion r Other connections Other connections The FR-7x can be used without any connections to either an amplification system or the FBC-7 power supply/battery charger unit. Connecting the FR-7x to an amplification system If you are using the supplied rechargeable battery pack and need to connect the FR-7x to a PA system or mixer, we recommend using a commercially available wireless system to avoid using excessively long signal cables. The FR-7x is equipped with an internal speaker system and therefore does not need to be connected to an amplifier at all. You can also use a pair of headphones (Roland RH-series). See "Listening through headphones" on p. 19.

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). The FR-7x's sounds have been arranged in such a way as to provide a natural stereo image. If you connect the V-Accordion to a mixing console, set the PAN control of the input to which the OUTPUT L socket (treble section) is connected to "11 o'clock". Set the PAN control of the channel to which the OUTPUT R socket (bass & chord section) is connected to "3 o'clock" to preserve this balance. Something like this: T B/C . This setting can be changed, however (see p. 90). Note: The FR-7x's OUTPUT sockets are also available if you connect the FR-7x to the FBC-7. Never connect them to any of the FBC-7's sockets. Note: If you use a commercially available wireless transmitter, the FR-7x's output signals may distort.

In that case, change the FR-7x's output level (see p. 92). Connecting the FR-7x to the supplied FBC-7 and an amplification system If you prefer not to use the supplied battery pack, you need to connect the V-Accordion to the FBC-7 using the supplied cable. That cable powers the FR-7x, transmits pedal messages and sends the FR-7x's audio signals to the OUTPUT L/MONO & R sockets on the FBC-7. While using the FBC-7, there is no real need to connect the OUTPUT sockets on the FR-7x to an external amplifier.

Connect the FR-7x as shown in the illustration. See also "Connecting the FR-7x to the supplied FBC-7" on p. 16. Note: This connection is required if you wish to take advantage of the FR-7x's MIDI functions (see p. 107).

INPUT L+R To a suitable wall outlet Use the supplied 19-pin cable. OUTPUT L/MONO + R/MONO Note: Do not forget to connect the FBC-7's AC socket to a suitable wall outlet. 17 FR-7x V-Accordion ® Switching the power on and off Switching the power on and off The power-on procedure depends on whether you are using a battery pack or the FBC-7 Foot Pedal/DC Power/ Battery Charger Unit. Important notes · Before connecting the FR-7x to an amplification system, be sure to switch off both the FR-7x and the external device. · Connect the FR-7x's OUTPUT sockets to the line input(s) of your amplifier or mixer. · After establishing the connections, first switch on the FR-7x, then the amplifier or mixer. If the FR-7x is connected to the FBC-7 Once the connections have been completed, turn on the 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. Turning the power on (1) Connect the FR-7x to the FBC-7 using the supplied 19-pin cable (see p. 16).

Also connect the FBC-7 to a wall outlet. (2) Press the FBC-7's [POWER] button to switch it on. If you are using the battery pack (without the FBC-7) Note: Only use the battery pack that either came with your FR-7x or that you purchased from your Roland dealer. Using other batteries can severely damage the FR-7x or FBC-7. Roland assumes no responsibility for damages caused by batteries that have not been explicitly approved. Such damages are not covered by Roland's warranty regulations. Note: When operating on battery power the main page displays a battery icon that informs you about the remaining power (three bars means the battery pack is fully charged). The message "LOW BATTERY. PLEASE RECHARGE!" will be displayed when battery power gets too low. Replace or recharge the battery pack as soon as possible (see p.

59). The POWER ON indicator on the FBC-7's top panel lights red. Turning the power on (1) Turn the [VOLUME] knob all the way to the left to minimize the volume. (2) Press the FR-7's [POWER] button to switch it on (it lights). (3) Turn the FR-7x's [VOLUME] knob all the way to the left to minimize the volume. (4) Press the FR-7x's [POWER] button (it lights) to switch it on. (3) Adjust the volume to an appropriate level. The icon in the display means that the FR-7x is powered by the FBC-7. (5) If connected, switch on your amplification system. (6) Adjust the volume to an appropriate level.

Note: 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. r Turning the power off (1) Turn the [VOLUME] knob all the way to the left to minimize the volume. (2) Press the [POWER] button again so that it goes dark. Note: Expected battery life under continuous use: Ni-MH: 8 hours. This figure will vary depending on the actual conditions of use. 18 V-Accordion r Turning the power off Turning the power off (1) Turn the FR-7x's [VOLUME] knob all the way to the left to minimize the volume. (2) If connected, switch off your external amplification system. (3) Press the FR-7x's [POWER] button to switch it off (it goes dark). Listening through headphones You can use headphones to enjoy the FR-7x without disturbing those around you, such as at night.

(1) Plug the optional headphones into the PHONES socket located on the FR-7x's connection panel. Note: The FR-7x's speakers are switched off when you connect headphones. The display and the [POWER] button will go dark and the power will turn off.



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(4) Press the FBC-7's [POWER/ON] button to switch it off. (2) Use the FR-7x's [VOLUME] 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. · 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. Note: If you need to turn off the power completely, first turn off the [POWER/ON] button, then unplug the power cord from the power outlet. 19 FR-7x V-Accordion ® Listening to the demo songs 5. Listening to the demo songs The FR-7x contains indeed several of demo songs that illustrate its wide variety of sounds and applications. Here is how to listen to the demo songs: (1) Switch on the FR-7x.

See "Switching the power on and off" on page 18. The display now looks more or less as follows: (3) Use the SET [] [] buttons to select another demo song. (4) Use the [VOLUME] knob to change the volume if it is too loud or too soft. (5) Press [EXIT÷JUMP] (or again SET [] and [] simultaneously) to leave demo mode. Let us agree to call this page the "main page".

(2) Simultaneously press and hold the SET [] [] buttons to jump to the following display page: Note: All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws. Note: No data for the music that is played will be output from MIDI OUT. Playback starts automatically with the first demo song (there are 35 demo songs in all). See the table on page 126. r 20 V-Accordion r Basic operation of the FR-7x 6. Basic operation of the FR-7x Let us first take a look at how the FR-7x is organized and how it is operated. The FR-7x is far more powerful than even the finest accordion collection, yet the Roland engineers have done their utmost to allow even casual musicians to take advantage of its power. · In accordion mode, it recalls a treble register of your choice (see "9.8 Master Bar Recall" on p.

86). · In orchestra mode, it switches the ORCHESTRA part on and off. Only for the button-type model: The FR-7x's Master bar has two functions: · Pressing it gently allows you to set aftertouch values (on the piano-type model, aftertouch is generated by the keyboard). · Press it more forcefully (at the end of the stroke) to use it in the same way as on the piano-type model (see above). The sections of your FR-7x Let's briefly look at the various "sections" of your instrument, as that will help you understand how your V-Accordion works. Bellows Master bar Bass section Treble section Registers of the bass, chord and orchestral bass/chord sections Practical information Bellows resistance regulator Your FR-7x 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). Treble section (right-hand manual) This section is normally used for playing the melody. There are two keyboard types: a piano keyboard and a button type. The FR-7x's treble section is velocity sensitive and also provides aftertouch. Note: On the button-type model, aftertouch messages are generated with the Master bar.

Bass section This section is normally used to play the accompaniment. It always uses buttons. There are two general categories: one is called "Stradella", and the other "Free Bass". The FR-7x 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 chords. The FR-7x's bass 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 regulation and air button. Master bar On a traditional accordion, the Master bar recalls the "Master" register. The FR-7x allows you to use the Master bar more flexibly: 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). Each position corresponds to a lighter (turn towards "MAX") or stronger (turn towards "MIN") inertia. Press the wheel and rotate it to choose the setting that feels most comfortable for you.

The air button allows you to purge the remaining air from the bellows after closing it (pressing it in). 21 FR-7x V-Accordion ® About the main page Bass strap The FR-7x's bass strap, which is used to move the bellows in and out, is made of leather. Its slack can be adjusted according to your preference by rotating the adjuster (see the illustration). Turn it to one side to tighten the bass strap, and to the other to loosen it. Adjuster About the main page With the exception of the display and the additional buttons and knobs, the FR-7x looks and feels like a conventional accordion. The display contains important clues about the settings that are currently in effect. What's shown in the display depends on the function you select. When you switch on the FR-7x, or if you press the [EXIT÷JUMP] button several times, the main page appears. In some cases, it may also reappear automatically after changing a parameter. The main page must be displayed whenever you wish to play the FR-7x without changing any of its "internal" settings.

A typical main page display looks like this: A B C Bass strap D E F G The exact contents of the display depend on the Set that is currently selected and on how the various sections and performance functions are set. The A~H fields, however, are always there: A Orchestra mode B Name and number of the currently selected Set C Battery level/power source indicator Shows whether the FR-7x is working on the battery pack or connected to the FBC-7. If you are working with the battery pack, this field also indicates the remaining battery power. D Selected Orchestra register A bold line below the Orchestra register number means that a sound of group "B" is selected (see "Orchestral sounds for the treble section" on p. 29).

E Selected Treble register F Bass, Free Bass, Orchestra Bass, Orchestra Chord, Orchestra Free Bass register Only one of the two available Bass sections (Free Bass or Bass) can be active at any one time.



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G Link symbols These symbols mean that the Orchestra (upper entry) and Bass registers change whenever you select a different Treble register (page 68). The Bass Link function also applies to the Orchestra Chord section (or the Orchestra Free Bass section). H Part Select indicator This indications tells you whether the Treble keyboard plays the accordion or orchestral sound. Note: The information shown in the display may change when you rotate a knob or press a button.

In such cases, however, the main page reappears after a few seconds. H r 22 V-Accordion r Using Sets 7. Using Sets The FR-7x 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. The sections discussed on page 21 contain several functions you can set. Let us agree to call those functions "parameters". Each section has its own parameters. You can save your settings and recall them whenever you need them. The various sections are combined into "Sets".

That way, you only need to select one memory (the Set) in order to save and recall the settings of all sections. Set 80 (1) Use the SET [][®] buttons on the FR-7x or the SET ([1], [2]) footswitches on the FBC-7 (if it is connected to the FR-7x) to select the desired Set. COMMON Reverb Chorus Delay Name Icon Master Bar Set 3 Set 2 Set 1 Treble 1~14 Bass 1~7 Free Bass 1~7 Orch. Chord 1~7 Orch. Bass Orchestral 1~7 1~26 There are about 40 Set memories that already contain useful settings right out of the box. But you can replace them with your own settings. (And if 80 Sets are not enough, you can archive and load new sets using a USB memory). Sets are like the trunk of a car that contains several accordion instruments (bandoneon, musette, etc.). The instruments themselves can be recalled via the registers.

There are 14 Treble registers, 7 Bass, Free Bass, Orchestra Chord, Orchestra Free Bass, and Orchestra Bass registers, and 26 Orchestra registers per Set. they allow you to change the footage combinations. At the factory, the FR-7x's Sets are programmed to allow you to decide whether you want to recall orchestral sounds, virtual organ sounds and/or drum sounds. Unlike its predecessor (the FR-7), the FR-7x allows you to assign any of the 49 orchestral sounds to whichever register you like (see p. 51).

Let us now look at how to select Sets, thereby recalling other accordion sounds, orchestral sounds (including tonewheel organ sounds) and drum sounds. To play orchestral sounds (violin, saxophone, trumpet, etc.), select Set 30. To play the FR-7x's outstanding tonewheel organ (TW) sounds, select Set 37. To play a drum part simply by pressing the bass and chord buttons in the bass section, select Set 36.

(2) Again press a SET [][®] button to select other sounds. Direct Set selection If you already know which Set you want to use, you can also select it directly: (1) While the main page is displayed, press and hold the SET [] or [®] button. (2) Use the treble registers [1]~[10] to enter the number of the desired Set. The [10] register is used to enter the number "0". To select Set "1", for instance, you need to press register [10], then register [1]. To select Set "37", first press register [3], then register [7]. Note: If you only press one register ([5], for example), the FR-7x automatically selects that Set after ±2 seconds. 23 FR-7x V-Accordion © Touring the FR-7x's accordion sections 8. Touring the FR-7x's accordion sections Let us now have a look at how to play the FR-7x's accordion sounds. These indications refer to the octaves (vertical direction,) and the number of slightly detuned reeds that are used (horizontal direction,).

The detuned reeds are only available for the central 8' footage. 8' 4' 2 2/3 ' 5 1/3 ' Treble section (right hand) The Treble section can be played using the 41-key "piano" keyboard (piano-type model) or the 92 treble buttons (button-type model). The sound it produces is determined by the register (1~ 14) you pressed last. This section can be used to play accordion sounds, orchestral sounds, or both. 8' 16' 8+' Black dots mean that the Cassotto function (see p. 66) is off, hollow dots mean that the Cassotto function is on. Here is what the registers and display indications mean (remember that the dots can either be black or white): Treble registers 1 Piano-type Button-type BASSOON BANDON CELLO HARMON ORGAN ACCORD VIOLIN 8 9 10 11 12 13 14 MASTER MUSETTE CELESTE TREMOLO CLARINET OBOE PICCOLO 2 Note: By pressing and holding any register, you can switch off the Treble section. (Even in that case, the Treble section continues to send MIDI commands.) Press another register to switch it back on. 3 4 5 6 7 (1) Connect the FR-7x (if necessary) and switch it on.

See pages 17 and 18. (2) Press a treble register and start playing on the "piano" keyboard or the treble buttons. The FR-7x only produces sound if you move the bellows. When you don't move the bellows, you hear nothing at all (like on an acoustic accordion). Note: When the FR-7x is controlled via MIDI, or when the "10.

2 Bellows Curves" parameter on p. 86 uses a "Fixed" setting, there is no need to move the bellows. On the main page, the number of the selected register appears in the TREBLE field: (3) Press one of the 14 registers to change the sound. The display briefly confirms your setting and indicates which footage you selected. r 24 V-Accordion r Using the Sordina (4) If you think the sound is too loud or too soft, change the setting of the [VOLUME] knob.

The FR-7x simulates this effect electronically. When you switch on the Sordina, the display briefly confirms your selection: Note: The Sordina only applies to the Treble section. Bass and chord section (left hand) The bass notes and chords section can be played via the "Stradella" buttons. (5) If you still can't hear the Treble notes, set the [BALANCE] knob to the center position. Bass buttons Chord buttons This knob is used to set the balance between the Treble and Bass registers. When it is turned all the way to BASS, the Treble section is inaudible. When you change the Balance setting, the display briefly confirms your setting: The chords use the (sound) register selected for the Bass section hence the name of this section. The "real" bass notes are assigned to the two circled rows. The remaining buttons are used to play chords. The sound the bass section produces is determined by the register you press.

This section can be used as "accordion", to play orchestral sounds, or both. (1) Connect the FR-7x (if necessary) and switch it on. See pages 17 and 18. (2) Grab the FR-7x, press a register and start playing on the bass (button) keyboard.



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