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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND FR-18 DIATONIC. You'll find the answers to all your questions on the ROLAND FR-18 DIATONIC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Roland

FR-18
diatonic



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.

@@@ Patent No. 6.946.594.

ENGLISH Owner's Manual *ENGLISH* Thank you and congratulations on your choice of the Roland FR-18 diatonic V-Accordion. The FR-18 diatonic is an amazingly versatile electronic instrument that can emulate the sounds of a vast array of diatonic accordions. Its major advantage is that it allows you to change sounds, keyboard layouts (tablatures) and key note without changing instruments. Apart from the financial benefit, this also means that you can use your familiar playing style and techniques while covering a host of different musical genres. To ensure that you obtain the maximum enjoyment and take full advantage of your FR-18 diatonic, please read this owner's manual carefully.

ENGLISH About this manual You should first read the chapter "Before you start playing" on p. 15. It explains how to connect the AC adaptor or install batteries and turn on the power. This owner's manual explains everything, from the basic functions of the FR-18 diatonic 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 PROG.] button. · Paragraphs that begin with "NOTE" are cautionary statements that you must read. · The numbers of pages that you can turn to for additional or related information are given like this: (p. **). Before using this instrument, carefully read "USING THE UNIT SAFELY" on p. 5 and "Important notes" on p. 9. Those sections provide information concerning the proper operation of the FR-18 diatonic. 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 © 2011 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. V-Accordion FR-18 diatonic Features 1. Features Adjustable keyboard layout (tablature) and key note The FR-18 diatonic grants you the possibility to easily configure your favorite keyboard layout. You can choose from among 12 factory tablatures.

Changing the instrument's tonality is also possible, so that you can play in any key with your FR-18 diatonic. There are 12 different musical keys that can be selected at the press of a button. · possibility to choose among a variety of sounds. · you can play with headphones, i.e.

without disturbing your neighbors or family. · tuning stability over time and wear resistance of all mechanical parts. · reduced overall weight. Superb performance flexibility The FR-18 diatonic allows you to control external MIDI-compatible instruments. The treble 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 accordion simulations The FR-18 diatonic contains sounds that were obtained by sampling popular traditional acoustic diatonic accordions. This diatonic V-Accordion allows you to switch from a traditional Italian "Organetto" to a typical "Tex-Mex" sound without changing instruments, for instance. Different tuning systems and scales are also available. Sophisticated bellows response You will love the instrument's fast response, high sensitivity and detection accuracy of opening/closing movements of the bellows, which have become possible thanks to a new bellows pressure sensing circuitry. A bellows resistance regulator knob allows you to adjust the bellows' inertia to your preference. Orchestral sounds 8 orchestral sounds are available and can be used in combination with traditional diatonic accordion sounds--complete with full bellows articulation, and unique keyboard modes (Solo, Dual). In addition, the FR-18 diatonic provides 3 orchestral bass and orchestral chord sounds for the bass and chord sections. Save your settings (User Programs) to a USB memory You can save your settings (User Programs) by connecting an optional USB memory to the FR-18 diatonic's USB port, allowing you to use them on another FR-18 diatonic, or to share your settings with other FR-18 diatonic users. Virtual Tone Wheel organ sounds The FR-18 diatonic allows you to play amazing organ parts in almost the same way as an organ player using the treble section.

Every organ sound features a Rotary effect (both slow and fast). Drum sounds You can also use the FR-18 diatonic to play simple drum parts with your left hand (bass and chord sections). Useful accessory The FR-18 diatonic has a compartment for optional rechargeable Ni-MH (AA-type) batteries, so that you don't need to connect it to a wall outlet. Consider purchasing such batteries (you will need 8) when performing on stage. Sound expansion The FR-18 diatonic provides two internal memory banks that allow you to add new sounds. PBM (Physical Behavior Modeling) The FR-18 diatonic is based on Roland's sound generation technology called "PBM" (Physical Behavior Modeling) whose sonic result is very close to the sound of traditional diatonic accordions. *r 4* The digital advantage The FR-18 diatonic includes all functions and sounds of a traditional diatonic instrument, thus conveying a truly natural feel and sound. Yet it also provides the advantages only an electronic musical instrument can give you: · you can play using any desired keyboard layout (tablature) and in any key. V-Accordion FR-18 diatonic *r* USING THE UNIT SAFELY 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.



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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.

· Do not open (or modify in any way) the unit or its AC adaptor.

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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. · The FR-18 diatonic, 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 allow any objects (e. g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the FR-18 diatonic.

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

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69 r 8 V-Accordion FR-18 diatonic r Important notes 2. Important notes In addition to the items listed under "USING THE UNIT SAFELY" on p. 5, 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. · 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. 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. · Keep the batteries out of reach of babies or small children. · 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.

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.



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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. · 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.

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. · 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. Maintenance · For everyday cleaning wipe the FR-18 diatonic 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. 9 V-Accordion FR-18 diatonic Important notes Storage devices that can be connected to the FR-18 diatonic's USB port · The FR-18 diatonic 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. Before using external USB memories · When connecting a USB memory, firmly insert it all the way into the FR-18 diatonic's USB port. · Do not touch the pins of the FR-18 diatonic's USB port or allow them to become dirty. · While using an external USB memory, 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. · 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-18 diatonic's USB port. · Do not apply excessive force to the connected USB memory or the FR-18 diatonic's USB port.

· Never connect your USB memory to the FR-18 diatonic via a USB hub. · Never insert or remove a USB memory while this unit's power is on. Doing so may corrupt the unit's data or the data on the USB memory. · Carefully insert the USB memory all the way in--until it is firmly in place. Notice · 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. r 10 V-Accordion FR-18 diatonic r A first look at your FR-18 diatonic 3. A first look at your FR-18 diatonic Let us first take a look at how the FR-18 diatonic is organized and how it is operated.

The sections of your FR-18 diatonic Let's briefly look at the various "sections" of your instrument, as that will help you understand how your FR-18 diatonic works. Bellows Bellows resistance regulator Your FR-18 diatonic 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). Bellows resistance regulator. Press and turn to select the bellows' resistance. Bass and chord section B A Treble section Air buttons: press to purge remaining air after playing. A Treble section (right-hand manual) B This section is normally used for playing the melody. It is velocity sensitive. Bass and chord section (left-hand manual) This section is normally used to play the accompaniment. The FR-18 diatonic's bass and chord section is velocity sensitive. Bellows The bellows is an extremely important part of any accordion.

The movement of the bellows indeed lends expression and dynamics to the sound. The bellows of the FR-18 diatonic is so accurate and responsive that you have perfect control over your performance. The bellows' inertia can be set with the resistance regulator and air button. It is 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.



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· Press either of the two air buttons (1, 2) to purge the remaining air from the bellows and close it without sound. C 11 V-Accordion FR-18 diatonic Panel descriptions 4. Panel descriptions Treble control panel B C F G I L A D E H J K M Note: In addition to their main function (top legend), most buttons and registers shown here have a second (sometimes even a third) function (bottom legend), that is usually available in Function mode (see p. 41).

A USB MEMORY port The USB MEMORY port allows you to connect an optional USB memory to the FR-18 diatonic. It can be used to save and load User Programs, to load User Sets as well as new sounds and new tablatures. NOTE · the desired Orchestral/Organ sound (total 12). · (FUNCTION mode) the desired preset parameter value, User Program settings. G ORCHESTRA/ORGAN button H This button allows you to turn the Orchestral/Organ sounds on/off.

USER PROGRAM/DEC button This button allows you: · to turn the User Program On/Off. · (FUNCTION mode) to decrease parameter values.

DRUMS/DEFAULT button This button allows you: · to switch the Drums function (page 30) on and off. · (FUNCTION mode) to recall the saved setting for the selected parameter. TABLATURE/INC button This button allows you: · to select your desired tablature.

· (FUNCTION mode) to increase parameter values. KEY/DEMO button This button allows you: · to select the Key note in which you want to play your music · to listen to the FR-18 diatonic's demo songs (press and hold the button). POWER button Press this button to switch FR-18 diatonic on (the button lights) and off (the button goes dark). NOTE Use a USB memory sold by Roland. We cannot guarantee operation if any other USB memory is used. B ORCH. BASS button This button allows you to switch orchestral bass mode on/off. When it is on, the bass section plays the selected orchestral sound. ORCH. CHORD button This button allows you to turn the orchestral chord mode on/off.

When it is on, the chord section plays the selected orchestral sound. LEFT REGISTER button This button is used to assign the three bass registers (the large gray registers) either to the BASS (light off) or to the CHORD (light on) section. See p. 28 for details. It also allows you to check the battery status (page 34). FUNCTION/SET register This register allows you: · to recall one of the 12 diatonic accordion types (accordion SETs). There are 4 families. · (FUNCTION mode) to access "hidden" parameter and MIDI functions, such as: editing settings and MIDI parameters changing octaves (page 27) Treble registers (1-4)

The Treble section provides 4 switches ("registers") allowing you to select: · a diatonic accordion type (12 accordion types divided over 4 families "accordion sets"). · the desired accordion sound of the selected accordion family. I C D J K E L r F 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.

M VOLUME knob This knob allows you to set the overall volume. 12 V-Accordion FR-18 diatonic r Bass control panel Bass control panel N O N Bass registers These switches allow you to select the desired bass and chord sounds. These registers do not illuminate. They include the following types (footages) for accordion sounds: Bass registers Register 1 2 3 Bass 8' 16', 8', 4' 16', 8' Chord 8', 4' 8', 4' 8', 4' O Bass and chord buttons These 18 button keys are used to play: · bass notes and chords (like on an acoustic diatonic accordion). · orchestral bass and orchestral chord sounds; · drum sounds; · They are velocity-sensitive. 16/8' Full Chord 16/8' Chord 3rd The bass registers are also used to select orchestral sounds for the bass or chord section. 13 V-

Accordion FR-18 diatonic Panel descriptions Battery compartment P P Battery compartment This is where you install 8 commercially available rechargeable AA-type Ni-MH batteries (see p. 16). Connection panel A A DC IN socket This is where you need to connect the supplied power adapter (PSB-1U).

Note that you can also purchase 8 rechargeable AA-type Ni-MH batteries and use the FR-18 diatonic without the adapter. MIDI OUT/IN socket This socket can be used to connect the FR-18 diatonic to an external MIDI device to receive or transmit MIDI data. When the "MIDI OUT/IN" parameter (see p. 50) is set to "In", the FR-18 diatonic doesn't play: it only receives MIDI messages. USB MIDI port This port can be connected to a USB port of your computer (see p. 48). Please use a commercially available USB cable. OUTPUT L/MONO (TREBLE) & R/MONO (BASS) sockets These sockets can be connected to an amplifier, a mixing console or a commercially available wireless system. If you use both connectors, the FR-18 diatonic'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) signals.

If you only use one audio cable (connected to the "L" or "R" socket), the FR-18 diatonic's output is mono. B C D E E PHONES socket This is where you can connect the supplied earphones or optional stereo headphones (Roland RH-series). Doing so does not mute the OUTPUT sockets. NOTE B When using the supplied earphones, do not set the volume too high (i.e. past "12 o'clock") to avoid distortion. C r D Important handling notes · After connecting any cable to the FR-18 diatonic, be sure to never place it on the side when not using it. · Always let FR-18 diatonic stand on its rubber feet (and in the corresponding direction) to avoid damaging the plugs. · Always handle and move the FR-18 diatonic with care and pay special attention to the cable slack to avoid damaging or bending the cables. · If you place the FR-18 diatonic on your lap, ensure that the audio and adaptor cables run between your legs (not sideways) to avoid damaging or bending the cables.

14 V-Accordion FR-18 diatonic r Before you start playing 5. Before you start playing Getting ready to play The FR-18 diatonic is an electronic instrument that requires some form of electrical power. This chapter explains how to power your V-Accordion using the supplied adaptor or 8 commercially available rechargeable batteries (AA type Ni-MH). Consider purchasing such batteries when performing on stage. In addition, since the FR-18 diatonic has no loudspeakers inside, you will learn how to connect it to an external amplification system.

3. Connect the AC adaptor to the FR-18 diatonic's DC IN jack. Connecting the AC adaptor 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.



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To a wall outlet 1. 2.

Turn the [VOLUME] knob all the way towards the small dot to minimize the volume. Connect the included power cord to the AC adaptor. The indicator will light once you plug the AC adaptor into a wall outlet. Place the AC adaptor so that the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. 4. Plug the power cord into a power outlet. Now that the FR-18 diatonic 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-18 diatonic with batteries, see "Installing and removing batteries" on p. 16.

NOTE If the FR-18 diatonic is to remain unused for an extended period of time, unplug the adaptor. *NOTE* To the FR-18 diatonic's DC IN connector AC adaptor Power cord To a wall outlet 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. "Securing the adapter and/or MIDI cable" on p. 19. Indicator *NOTE* Depending on your region, the included power cord may differ from the one shown above. *NOTE* Be sure to use only the AC adaptor supplied with the unit (PSB-1U). 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. 15 V-Accordion FR-18 diatonic Before you start playing Installing and removing batteries Your FR-18 diatonic has a compartment into which you can install 8 optional rechargeable AA-type Ni-MH batteries (not supplied). You can therefore play your instrument without connecting the supplied adapter.

NOTE Actual battery life varies according to usage conditions, the quality of the batteries and the number of charging cycles. Energy saving function *NOTES* This unit has an Auto Power Off function, which automatically switches off the power after a certain amount of time has passed without any buttons being operated. You can disable the Auto Power Off function. For more about the Auto Power Off function, refer to "Auto Power Off" on p. 46.

1. 2. Switch off the FR-18 diatonic. Remove the cover from the FR-18 diatonic's battery compartment by pressing the two tabs and lifting the cover. 3. Insert 8 rechargeable AA-type batteries into the compartment, taking care to orient them in accordance with the "+" and "-" indications. 4. Close the FR-18 diatonic's battery compartment. Note about rechargeable batteries Certain batteries can be recharged several times before they need to be replaced with a new ones. Note that it is normal for the batteries to last increasingly shorter as time goes by. At the end of their life cycle, they may only last one hour, for example. But that is a gradual process. Battery duration New or fully charged batteries should last about 5.5 hours (for 2000mAh Ni-MH batteries) during continuous operation. *NOTE* Though it is perfectly possible to use rechargeable batteries, be aware that they cannot be recharged simply by leaving them in the FR-18 diatonic's compartment and connecting the adapter.

You will need an external charging unit. *r NOTE* We recommend using rechargeable AA-type Ni-MH batteries. *NOTE* When replacing batteries, be sure to insert them correctly (ensure correct polarity). *NOTE* Remove the batteries whenever FR-18 diatonic is to remain unused for an extended period of time. 16 V-Accordion FR-18 diatonic *r* Connecting the FR-18 diatonic to an amplifier, mixer, etc. Connecting the FR-18 diatonic to an amplifier, mixer, etc. The FR-18 diatonic needs to be connected to an amplification system. If you are using optional batteries and need to connect the FR-18 diatonic to a PA system or mixer, we recommend using a commercially available wireless system to avoid having to use excessively long signal cables. You can also use the supplied earphones or a pair of optional headphones (Roland RH-series). *NOTE NOTE* You can also use a pair of headphones (Roland RH-series).

Attaching the straps Proceed as follows to attach the straps to your FR-18 diatonic: 1. Unpack the straps. The FR-18 diatonic 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: 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. *NOTE* When using the supplied earphones, do not set the volume too high (i.e. past "12 o'clock") to avoid distortion. 1. 2. 3.

Turn the [VOLUME] knob all the way towards the small dot to minimize the volume. Switch off all devices. Connect the FR-18 diatonic's OUTPUT jacks to the inputs of your external device. 2. Put the FR-18 diatonic on a stable surface as shown in the illustration below. Left holder ring OUTPUT L/MONO (Treble) + R/MONO (Bass) INPUT L+R 3. Slide the upper end (with the velcro strip) of one strap through the left holder ring (see the illustration). Use either a long signal cable (10m or more) or a commercially available wireless system (recommended). Please choose unbalanced (mono) cables with 1/4" jacks at one end (for the FR-18 diatonic). The connectors at the other end need to match the input sockets of the device to which you are connecting the FR-18 diatonic.

NOTE Be sure to read "Important handling notes" on p. 14. *NOTE* If your amplifier is monaural, you only need to connect the L/MONO socket. *NOTE* 4. Attach the strap's upper part to the velcro layer below it. If you use a commercially available wireless transmitter, the FR-18 diatonic's output signals may distort. In that case, change the FR-18 diatonic's volume setting. 17 V-Accordion FR-18 diatonic Before you start playing 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-18 diatonic'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).



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r 18 V-Accordion FR-18 diatonic r Securing the adapter and/or MIDI cable 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. Your FR-18 diatonic comes with an adapter and an attachment strip that allows you to secure the adapter cable and optional MIDI as well as audio cables to the right strap. 4. Keep winding the attachment strip around the strap until your assembly looks as follows: 1. Prepare the adapter cable and the attachment strip as follows: 5. Reverse these steps to remove and disconnect the adapter and/or MIDI and audio cables when you want to stop playing. Be sure to attach the strip before the ferrite core on the adapter cable.

If you like, you can also add the MIDI cable and audio cables to this assembly. 2. Secure the attachment strip as shown in the illustration, making sure that the ferrite core cannot slide out of the loop. 3. Hold the adapter cable close to the right strap and wind the attachment strip around it as shown. The strip is fitted with a Velcro layer that holds it in place. 19 V-Accordion FR-18 diatonic Before you start playing Personalizing your FR-18 diatonic The artwork you see behind the treble registers (above the Roland logo) can be replaced either with one of the sheets supplied with the FR-18 diatonic or with a graphic you create yourself. To do so, proceed as follows: 4. Secure the traforo cover by tightening the two screws using the supplied hexagonal wrench. 1.

Use the supplied hexagonal wrench to loosen the two screws holding the "traforo" cover: There is one screw on either side. Be careful not to turn the screws too far--they should remain in the traforo cover. 2. After loosening both screws, you can open the traforo cover: NOTE Be careful not to scratch the housing of your FR-18 diatonic. 3.

Remove the sheet from underneath the traforo cover and insert another one. While creating your own sheet, pay attention to the following: · You can use your color printer and a graphic program to create your own artwork. · Be sure to use paper or rather thin media--cardboard is usually too thick. · For a professional look, be sure to prepare a sheet with the following dimensions: 297mm (L) x 89mm (H). r 20 V-Accordion FR-18 diatonic r Switching the power on and off Switching the power on and off Once the connections have been completed (see p.

17), 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. NOTE This unit has a function that automatically switches off the power after a certain amount of time has passed without any buttons being operated. You can disable this function. See "Auto Power Off" on p. 46. 2. Press the FR-18 diatonic's [POWER] button (its indicator goes dark). Turning on the power 1. Turn the [VOLUME] knob all the way towards the small dot to minimize the volume.

2. To switch the FR-18 diatonic on, press its [POWER] button. Using headphones The FR-18 diatonic has a socket for plugging in headphones. This allows you to play without having to worry about bothering others around you, even at night. The [POWER] button lights. 3. 4. 1. Switch on the external amplifier, mixing console, etc. Turn the [VOLUME] knob clockwise to set the volume to an appropriate level.

Plug the headphones into the [PHONES] jack located on the FR-18 diatonic's connection panel. 5. Adjust the volume of the receiving audio device. NOTE Turning off the power 1. Turn the [VOLUME] knob all the way towards the small dot to minimize the volume.

If you connected the FR-18 diatonic to an amplifier, etc., set its volume to the minimum value as well. NOTE Use stereo headphones. Please use only Roland headphones. Headphones from other manufacturers may be unable to provide sufficient volume.

2. Use the FR-18 diatonic's [VOLUME] knob to adjust the headphone volume. 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. 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 V-Accordion FR-18 diatonic 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.

r 22 V-Accordion FR-18 diatonic r Listening to the demo songs 6. Listening to the demo songs The FR-18 diatonic contains a series of demo songs that illustrate its wide variety of sounds and applications. Here is how to listen to those demo songs and fully appreciate the sounds contained in your diatonic V-Accordion: 1. 2. Switch on the FR-18 diatonic. See "Switching the power on and off" on p. 21. 4. 5. Press and hold the [KEY/DEMO] button, which will start flashing yellow.

Use the [VOLUME] knob to change the volume if it is too loud or too soft. Press [KEY/DEMO] again to leave demo song mode. NOTE During demo song playback, the FR-18 diatonic's keyboards cannot be used. NOTE All demo songs are copyright by Roland Europe. Public performance or recording of these songs is prohibited.

NOTE No data for the music that is played will be output from the MIDI OUT/IN socket. Playback starts automatically with the first demo song. There are 8 demo songs in all. At the end of the first song, the FR-18 diatonic starts playing songs 2, 3 etc. You can also directly jump to the song you're interested in:

NOTE You can find the complete list of demo songs in the Appendix on page 60.

3. Press [DEC]/[INC] to select the demo song you want to listen to. 23 V-Accordion FR-18 diatonic Using Sets 7. Using Sets The FR-18 diatonic 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. The FR-18 diatonic contains 12 Sets divided over 4 families. 3 Set families have been programmed at the factory ("FOLK", "ETHNIC", "WORLD"--see the legends below the treble registers) and cannot be changed. One family ("USER") can be used to load User Sets from an optional USB memory.

Each Set family may comprise several Sets (see below). Recalling a Set immediately changes the settings of the sections presented on p. 25 and configures the treble and bass registers. Family 1 FOLK 1-1 Folk 1-2 Classic 1-3 Tradition 2 ETHNIC 2-1 Organetto Accordion Sets (red) (green) (yellow) (red) 2.



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Press one of the treble registers [1]~[4] to select the Set family. 2-2 Diatonic Folk (green) 2-3 SP Folk 3 WORLD 3-1 Alpine 3-2 Cajun 3-3 Tex Mex 4 USER 4-1 User Set 4-2 User Set 4-3 User Set (yellow) (red) (green) (yellow) (red) (green) (yellow) [Bandoneon]* [D-Folk]* [Concertina]* 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-18 diatonic selects the next Set within that family.

Example: To go from Set "1-1" to Set "1-3", you therefore need to press register [1] twice after pressing [SET]. Each Set inside a family (1, 2, 3) has a dedicated color: 1= red, 2= green, 3= yellow · If you select a different Set family, the FR-18 diatonic switches to the newly selected Set family and recalls the last memory you selected within that family. NOTE If you hold down [SET] for more than 2 seconds without pressing another register, the FR-18 diatonic switches to Function mode. In that case, press [SET] again to leave that mode, then repeat step (1).

[*] These Sets are supplied from the factory, but they can be replaced by the user. 1. Press the [SET] register. It lights blue. r NOTE If you do not press a treble register after having pressed [SET] once, Set selection is cancelled after a while.

24 V-Accordion FR-18 diatonic r Selecting and playing sounds 8. Selecting and playing sounds Treble section The Treble section can be played using the 37 treble buttons on the right-hand side. The sound it produces is determined by the register [1]~[4] you pressed last. This section can be used to play accordion, orchestral and organ sounds. NOTE If you wish a different accordion treble sound, press one of the 4 treble registers [1]~[4].

You can choose among eight available sounds, by pressing a treble register either once (green) or twice (red). NOTE The FR-18 diatonic has 12 different button layouts. If it seems to sound the wrong notes, see "Changing the configuration of the keyboards (Tablature)" on p. 33 for how to select a different button layout. At power-on, the FR-18 diatonic selects the key of G. See "Changing the key note of the keyboard" on p. 32 for how to select a different key. 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. 26, you will learn how to combine accordion notes with an orchestral or organ sound.

Orchestral/Organ sounds Your FR-18 diatonic contains sounds of various musical instruments that are not related to accordion sounds. Those sounds allow you to expand your musical endeavours. The orchestral sound section available in your FR-18 diatonic comprises 8 sounds. Every accordion sound set is combined with an orchestral sound set whose 8 sounds are closely related to the musical genre in question. To select an orchestral sound: Accordion sounds

To make your selection: 1. Connect the FR-18 diatonic to an amplifier and switch it on. See "Switching the power on and off" on p. 21. 2. Press a treble register and start playing on the keyboard.

The following 8 accordion sounds can be assigned to the treble buttons using treble registers [1]~[4]: Treble Register 1 (pressed once) 1 (pressed again) 2 (pressed once) 2 (pressed again) 3 (pressed once) 3 (pressed again) 4 (pressed once) 4 (pressed again) Color Green Red Green Red Green Red Green Red Sound* 8', 8'+ 16', 8', 8'+ 16', 8' 16', 8', 4' 8', 8'+, 8' 16', 8', 8'+, 8', 4' 8', 4' 16', 4' 1. Press the [ORCHESTRA/ORGAN] button once. It lights red to signal that you have entered orchestral sound selection mode. 2. Use treble registers [1]~[4] to select the desired orchestral sound.

You can press each of them either once or twice to choose one of the two orchestral sounds available for each register (always starting from the first position). Treble Register 1 (pressed once) 1 (pressed again) 2 (pressed once) 2 (pressed again) 3 (pressed once) 3 (pressed again) 4 (pressed once) Color Green Red Green Red Green Red Green Sound* Strings Ac. Piano Oboe Flute1 Ac. Guitar Brass Fat Saw Lead [*] The accordion sounds that can be selected with the registers depend on the currently selected Set. The sounds shown above refer to Set 1.

See page 60 for a list of the sounds available for each Set. Though the FR-18 diatonic is an electronic musical instrument, it only produces sound when you move the bellows. 3. Play a few notes to audition the sound. 25 V-Accordion FR-18 diatonic Selecting and playing sounds Treble Register 4 (pressed again)

Color Red Sound* Poly Synth 3. [*] The orchestral sounds that can be selected with the registers depend on the currently selected Set. The sounds shown above refer to Set 1. @@@@ You can specify for each button whether it should play a bass note, a chord or neither. The chords use the (sound) register selected for the Bass section--hence the name of this section. The overall sound the bass and chord section produces is determined by the register you pressed last.

The bass and chord buttons can also be used to play accordion or orchestral sounds. If you hold down [SET] for more than 2 seconds without pressing another register, the FR-18 diatonic switches to Function mode. In that case, press [SET] again to leave that mode, then repeat step (2). Selecting accordion sounds for the left hand Here is how to select an accordion sound for the bass and chord section (left hand). Accordion sounds for the left hand can be selected using the 3 registers shown below. [3] [2] [1] 3. To transpose one octave up, hold down the [SET/SHIFT] register and press treble register [2] (OCT+). NOTE The numbers shown in the illustrations above and below do not appear on the registers themselves. They have been added for your reference.

1. Switch on the FR-18 diatonic. See "Switching the power on and off" on p. 21. NOTE After switching on the FR-18 diatonic, the bass registers select accordion sounds. 2.

Press one of the 3 bass registers (1~3) to select the desired sound. These registers do not illuminate. @@@@ 1. Switch on the FR-18 diatonic. See "Switching the power on and off" on p.

21. 2. Select Set 1. See "Using Sets" on p. 24. 3. Press the [ORCH. @2. @21. Select Set 1.

See "Using Sets" on p. @@CHORD] button lights red. The [ORCH. @@Piano Str & Choir Super Poly 1. @@@@ See p. @@@@CHORD] button again to exit ORCH. CHORD mode. The [ORCH. CHORD] button goes dark. @@@@The bass registers select orchestral chord sounds.

@@@@2. Press and hold a register in the Treble section ([1]~[4]) to mute the treble or Orchestra part. Press and hold a Bass register (1~3) to mute the Bass&Chord, Orchestra Bass, or Orchestra Chord part.



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