Roland®

FR-2 FR-2





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For EU Countries—

This product complies with the requirements of European Directive EMC 89/336/EEC. Dieses Produkt entspricht der europäischen Richtlinie EMC 89/336/EEC. Ce produit est conforme aux exigences de la directive européenne EMC 89/336/EEC.

Questo prodotto è conforme alle esigenze della direttiva europea EMC 89/336/EEC.

Este producto cumple con la directrice EMC 89/336/EEC de la CE.

Dit product beantwoordt aan de richtlijn EMC 89/336/EEC van de Europese Unie.

-For the USA -

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

- For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

— For the U.K. –

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

Thank you for purchasing the Roland FR-2/FR-2b V-Accordion. The FR-2/FR-2b is an amazingly versatile electronic instrument that can emulate the sounds of a vast array of accordions. The major advantage of the FR-2/FR-2b is that it allows you to change sounds without changing instruments. Apart from the financial benefit (the FR-2/FR-2b costs only a fraction of all emulated originals), this also means that you can use your familiar playing style and techniques while covering a host of different musical genres.

Before using this instrument, carefully read the "Important notes" (p. 5). They provide information concerning the proper operation of the FR-2/FR-2b. Be sure to keep this manual in a safe place for future reference.

This manual applies to two instruments: FR-2 (the keyboard version) FR-2b (the button version)



This product must be disposed of separately at your local waste recycling centre. Do not dispose of in household waste bin.

The technology used in the FR-2 and FR-2b is covered by U.S. Patent No. 6.946.594.

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1. Features

PBM (Physical Behavior Modeling)

The FR-2/FR-2b 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.

Super realistic accordion simulations

The FR-2/FR-2b provides 8 memories called "Sets", with 10 treble registers and 5 bass & chord registers. All sounds it produces were obtained by sampling popular traditional acoustic accordions. Different tuning systems are also available.

Orchestral sounds

6 orchestral sounds are available for use instead of the traditional accordion sounds. The FR-2/FR-2b also provides 5 orchestral bass and chord sounds for the Bass and Chord sections.

The digital advantage

The V-Accordion includes all functions and sounds of a traditional accordion, thus conveying a truly natural feel and sound. Yet it also provides the advantages only an electronic musical instrument can give you:

reduced overall weight;

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- possibility to choose among a wide variety of sounds;
- 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.

Superb performance flexibility

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.

Useful accessory

The FR-2/FR-2b has a compartment for optional AA-type batteries. Consider purchasing such batteries (you will need 8) when performing on stage.

• All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

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	G and <u>CAUTION Notices</u>	Abou	t the Symbols
	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.		The Δ 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.
	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.	3	The \bigcirc 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.
* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.	æ	The \bullet symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.	
	ALWAYS OBSERVE		
<u>/</u> WAF	RNING		 Do not allow any objects (e.g., flammable material, coins, p liquids of any kind (water, soft drinks, etc.) to penetrate th
	ad the instructions below and the		FR-2b.
n (or modify in any v	vay) the unit or its AC adaptor.		• Batteries must never be recharged (one-way batteries), he taken apart, or thrown into fire or water.
hen this manual pro to so). Refer all servio	vides specific instructions direct-		 In households with small children, an adult should provide vision until the child is capable of following all rules essen the safe operation of the FR-2/FR-2b. Protect the FR-2/FR-2b from strong impact.
r	About A WARNING A WARNING CAUTION A CAUTION A CAUTI	About A WARNING and CAUTION Notices WARNING Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. CAUTION Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets. CAUTION Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets. Material serverse Material damage referse	▲ WARNING Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. ▲ CAUTION Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets. ▲ WARYS OBSERVE THE I ▲ WARYS OBSERVE THE I ▲ WARYS OBSERVE THE I ▲ Invariant the instructions below and the inval. In (or modify in any way) the unit or its AC adaptor. mpt to repair the FR-2/FR-2b or replace parts within then this manual provides specific instructions direct-

- Never use or store the FR-2/FR-2b in places that are:
 - 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
 - Humid; or are

- · Exposed to rain; or are
- Dusty; or are
- Subject to high levels of vibration.
- When not in use, do not place the FR-2b or FR-2 vertically due to instability. If placed in the vertical position on the floor/stage, ensure that it leans against a stable vertical surface e.g. a wall or a heavy musical instrument.
- The FR-2/FR-2b's adaptor should only be connected to a power supply of the type described in the operating instructions or as marked on the adaptor's label.



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

- Do not excessively twist or bend the adaptor 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!
- Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.



 This instrument, 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 FR-2/FR-2b and consult an audiologist.



- Immediately turn the power off, remove the adaptor from the outlet and request servicing by your retailer, the nearest Roland Service Center or an authorized Roland distributor, as listed on the "Information" page when:
 - The adaptor's cord or the plug has been damaged; or
 - Objects have fallen into or liquid has been spilled onto the FR-2/FR-2b; or
 - The unit has been exposed to rain (or otherwise has become wet); or
 - The unit does not appear to operate normally or exhibits a marked change in performance.
- Do not force the adaptor to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords-the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the

insulation on the cord to heat up and eventually melt through.

· Before using the FR-2/FR-2b in a foreign country, consult with your retailer, the nearest Roland Service Center or an authorized Roland distributor, as listed on the "Information" page.



 The FR-2/FR-2b should be located so that its location or position does not interfere with its proper ventilation.



- Always grasp only the plug on the power-supply cord when plugging into or unplugging from, an outlet or this unit.
- At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the FR-2/FR-2b is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

Rolano

- If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions.
 - Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity.
 - Avoid using new batteries together with used ones. In addition, avoid mixing different types of batteries.
 - Remove the batteries whenever the unit is to remain unused for an extended period of time.
- Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed out of the reach of children.
- Never climb on top of, nor place heavy objects on the FR-2/ FR-2b.

- If you need to move the FR-2/FR-2b, take note of the precautions listed below. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.
 - Disconnect the adaptor.
 - Disconnect all cords coming from external devices.

ging into or unplugging from, an outlet or this unit.

• Before cleaning the FR-2/FR-2b, turn off the power and unplug the adaptor from the outlet.

• Never handle the adaptor or its plugs with wet hands when plug-

- Whenever you suspect the possibility of lightning in your area, disconnect the adaptor from the outlet.
- Should you remove screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

2. Important notes

In addition to the items listed under "Using the unit safely" on p. 4, please read and observe the following:

Power supply

- Do not connect the FR-2/FR-2b 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.
- Do not use this instrument on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting the FR-2/FR-2b to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Although the LEDs are dark when the POWER switch is off, this does not mean that the unit has been completely disconnected from the power source. To turn off the power completely, first turn off the power switch (VOLUME knob), then unplug the power cord from the wall outlet. For this reason, the outlet to which you connect the power cord's plug should be one that is within easy reach.

Placement

- Using the FR-2/FR-2b 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 the FR-2/FR-2b in the vicinity of such receivers.
- Do not place the FR-2/FR-2b near devices that produce a strong magnetic field (e.g., loudspeakers).
- Install the FR-2/FR-2b on a solid, level surface.
- 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, 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. Also, do not allow lighting devices that are normally placed 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.

- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.
- Do not allow rubber, vinyl or similar materials to remain on the instrument for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not put anything that contains water (e.g., flower vases) on the instrument. 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.
- Do not allow objects to remain on top of the keyboard or buttons. This
 can be the cause of malfunction, such as keys or buttons ceasing to produce sound.
- Do not paste stickers, decals or the like on this instrument. Peeling these
 off, particularly when strong adhesives have been used, can damage the
 instrument's exterior finish (the stickers provided with this instrument
 feature a weak adhesive).

Maintenance

- For everyday cleaning wipe the FR-2/FR-2b 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 benzene, thinner, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Repairs and data

 Please be aware that all data contained in the instrument's memory may be lost when it is sent for repairs. 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. Roland assumes no liability concerning such loss of data.

Additional precautions

- When moved from one location to another where the temperature and/ or humidity is very different, water droplets (condensation) may form inside the FR-2/FR-2b. Damage or malfunction may result if you attempt to use the FR-2/FR-2b in this condition. Therefore, before using the FR-2/ FR-2b, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Please be aware that the memory contents can be irretrievably lost as a result of a malfunction or the improper operation of the instrument.
- Use a reasonable amount of care when using the instrument's buttons, other controls and jacks/connectors. Rough handling can lead to malfunctions.

- When connecting/disconnecting 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 instrument during normal operation. This is perfectly normal.
- To avoid disturbing your neighbors, try to keep the instrument's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially late at night).
- When you need to transport the instrument, package it in the box (including padding) that it came in. Otherwise, you will need to use equivalent packaging materials or a flightcase.
- · Use Roland cables to make audio connections. If using some other make of connection cable, please note the following precautions. 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.

Precautions for optional batteries

- 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.
- If newly purchased batteries exhibit rust, generate heat or seem abnormal in any other way, do not use them. Take them back to your dealer.
- · Keep the batteries out of reach of babies or small children.
- Be sure to carefully instruct any person on the proper way of handling a battery.
- · Never dispose of the battery in a fire. Never heat it. Doing so may melt the insulation, damage the gas release vents or protective devices, cause combustion through chemical reaction with generated hydrogen, ejection of battery fluid, bursting or fire.
- Do not use batteries with the positive (+) and negative (-) terminals reversed, as this may drain the batteries or cause abnormal chemical reactions.
- Do no strike or drop the batteries. Strong impact can cause leakage of battery fluid, heat generation, bursting or fire.
- Never try to connect several batteries in parallel as this may cause leakage of battery fluid, heat generation, bursting or fire.
- Do not alter or remove protective mechanisms or other parts. Never disassemble the batteries.
- If any fluid from a battery comes in contact with the eyes, flush the eyes immediately, washing them thoroughly with clean water from a tap or other source and consult a doctor. Strong alkaline fluid can damage the eyes and lead to permanent loss of eyesight.
- If skin or clothing comes in contact with any fluid from the battery, wash the area immediately with clean water from a tap. Battery fluid can cause skin damage.
- When a battery is no longer usable, dispose of it in accordance with all applicable local laws and regulations.
- If a battery leaks fluid, changes color or shape or changes in any other way, do not use it, otherwise it may cause heat generation, bursting or fire.

Battery handling

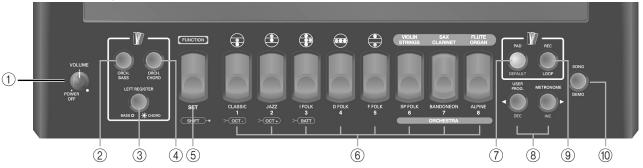
• Incorrect handling of batteries, rechargeable batteries, or a battery charger can cause leakage, overheating, fire, or explosion. Before use, you must read and strictly observe all of the precautions that accompany the batteries, rechargeable batteries, or battery charger. When using rechargeable batteries and a charger, use only the combination of rechargeable batteries and charger specified by the battery manufacturer.

Strap holder precaution

• Never unscrew the strap holder rings to avoid damaging the FR-2/FR-2b's plastic housing, which eventually compromises overall stability and safety.

3. Panel descriptions

Treble control panel



$\textcircled{1} \quad \text{VOLUME knob}$

This knob allows you to set the V-Accordion's overall volume. Turn it all the way to the left ("POWER OFF") to switch the FR-2/FR-2b off. Turn it towards the right to switch it on.

② ORCH BASS button

This button is used to switch the ORCHESTRAL BASS section on and off.

③ LEFT REGISTER button

This button is used to assign the 5 Bass registers to the BASS (light off) or CHORD section (light on). See page 13 for details.

④ ORCH CHORD button

This button is used to switch the ORCHESTRAL CHORD section on and off.

5 FUNCTION/SET register

This register has three functions: after pressing <u>SET</u> (it lights blue), you can use the Treble registers to select one of the following Sets: The Sets have been programmed at the factory and cannot be changed.

1	CLASSIC	5	F FOLK
2	JAZZ	6	SP FOLK
3	I FOLK	7	BANDONEON
4	D FOLK	8	ALPINE

By pressing and holding [FUNCTION/SET], you gain access to "hidden" parameters and MIDI functions.

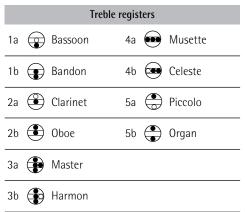
Press it together with register 1 or 2 to change octaves.

When you select **Set 5**, **"F FOLK"**, the footages change as follows. This is not printed on the front panel, so please refer to the table below:

Treble registers (Set 5)				
1a 🕞 Bassoon	4a 🐽 Mr Gus			
1b 😱 Jazzy	4b 🗪 Sw Valse			
2a 💽 Arnold	5a 🐽 SOS Muset			
2b 🕞 Beguine	5b 🐽 Av Muset			
3a 🚯 4 Voix				
3b 😧 4 Voix SW				

6 Treble registers (1~8)

The Treble section provides the following 5 switches ("registers") that allow you to select various accordion footages.



Each register 1~5 allows you to select two registrations. When you select an accordion registration, the corresponding register lights green.

Registers 6~8 can be used to select the following orchestral sounds (various musical instruments that are not related to the accordion):

6a	Violin	8a	Flute
6b	Strings	8b	Organ
7a	Sax		
7b	Clarinet		

Each register 6~8 allows you to select two sounds. When you select an orchestral sound, the corresponding register lights yellow.

⑦ PAD/DEFAULT button

This button is used to switch the PAD function (see p. 16) on and off. While FUNCTION mode is active (see p. 18), this button allows you to recall the factory setting for the selected parameter.

③ USER PROG/DEC and METRONOME/INC buttons The USER PROG button allows you to activate/switch off the FR-2/FR-2b's memory function (see p. 22). In FUNC-TION mode, this button is used to decrease the value of the selected parameter. The <u>[METRONOME]</u> button is used to switch the FR-2/ FR-2b's metronome on and off (see p. 14). In FUNCTION mode, this button is used to increase the value of the selected parameter.

9 REC/LOOP button

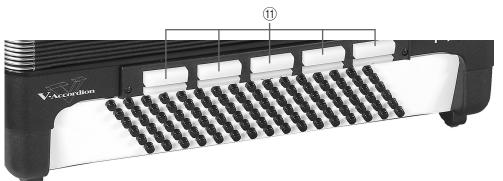
This button is used to record a short drum/percussion phrase and to play it back repeatedly (see p. 17).

10 SONG/DEMO button

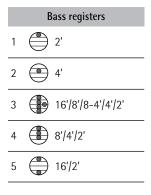
This button allows you to switch to SONG mode where you can practice your left- or right-hand playing using one of the 16 internal songs (the FR-2/FR-2b plays the part of the other hand). See page 15.

Press and hold this button to listen to the FR-2/FR-2b's demo songs.

Bass control panel



① Bass registers (lower row) and pads (upper row) The lower switches allow you to select the desired bass mix (and chord). They include the following accordion footages:



Note: Each register is assigned to only one registration or sound (unlike the treble registers).

The FR-2/FR-2b allows you to play:

- accordion chord and bass sounds (like on an acoustic accordion);
- accordion bass lines with orchestral chords (but no accordion chords);
- accordion chord parts with orchestral bass notes (but no accordion bass notes).

That explains why the bass registers' assignments sometimes depend on the status of the <u>LEFT REGISTER</u> button. See p. 12 for details.

The bass registers are also used to select orchestral sounds for the Bass or Chord section.

The row closest to the bellows can be used to play drum and percussion sounds (PAD function, see p. 16).



Connection panel



12 DC IN socket

This is where you can connect the supplied power adaptor (PSB-1U). Note that you can also purchase 8 optional batteries and use the FR-2/FR-2b without the adaptor.

(13 MIDI OUT/IN socket

This socket can be used to receive or transmit MIDI data. Its function depends on the setting of the "MIDI Out/In" parameter (see p. 21).

Note: After selecting the "MIDI IN" setting, you will hear nothing when you play on the FR-2/FR-2b's keyboards: it will only respond to MIDI messages received from an external device.

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-2/FR-2b's output is stereo. In that case the signal of the Treble section is transmitted to the L/MONO socket, while the R/MONO socket transmits the bass (and chord) signal. If you only use one jack (connected to the "L" or "R" socket), the FR-2/ FR-2b's output is mono.

15 PHONES socket

This is where you can connect stereo headphones (Roland RH-A30, RH-200s or RH-300). Doing so does not mute the OUTPUT sockets.

Important remark

After connecting any cable to the FR-2/FR-2b, be sure to never place it on the side when not using it.

- Always stand the V-Accordion on its rubber feet (and in the corresponding direction) to avoid damaging the plugs.
- Always handle and move the FR-2/FR-2b with care and pay special attention to the cable slack to avoid damaging or bending the cables.
- If you place the FR-2/FR-2b on your lap, ensure that the audio and adaptor cables run between your legs (not sideways) to avoid damaging or bending the cables.

Personalizing your FR-2/FR-2b

The artwork you see behind the treble registers (above the Roland logo) can be replaced either with one of the six sheets supplied with the FR-2/FR-2b or with a graphic you create yourself. To do so, proceed as follows:

 Use a coin to loosen the two screws holding the "traforo" cover:



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-2/ FR-2b.

- (3) Remove the sheet from underneath the traforo cover and insert another one.
 You can either insert one of the supplied sheets or create your own artwork. If you prefer to create your own, 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: 364mm (L) x 92.9mm (H).
- (4) Secure the traforo cover by tightening the two screws using a coin.

4. Setting up

Connections

The FR-2/FR-2b has a compartment for 8 optional AA-type batteries. Consider purchasing such batteries when performing on stage.

Using the OUTPUT sockets

The FR-2/FR-2b needs to be connected to an amplification system. If you are using optional batteries and need to connect the FR-2/FR-2b to a PA system or mixer, we recommend using a wireless system to avoid having to use excessively long signal cables.

You can also use a pair of headphones (Roland RH-30A, RH-200, RH-200S or RH-300).

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.



Switching the power on and off

The power-on procedure depends on whether or not you are using optional batteries.

Note: If you decide to use rechargeable AA batteries, be aware that they cannot be recharged simply by leaving them in the FR-2/FR-2b's compartment and connecting the adaptor. You will need an external charging unit.

Note: 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.

If you are using the supplied adaptor

- (1) Connect the supplied adaptor to the FR-2/ FR-2b's DC IN socket.
- (2) Connect the adaptor to a wall outlet that meets the specifications (see p. 28).



The adaptor should

only be connected to a power source of the type marked on its label. For details on the power consumption, please refer to page 28.

(3) Turn down the output volume of the receiving audio device.

You can also simply switch it off.

- (4) Connect the FR-2/FR-2b's OUTPUT sockets to the external audio device (amplifier, mixing console, etc.).
- (5) Turn the FR-2/FR-2b's <u>VOLUME</u> knob ① from the "POWER OFF" position towards the right.
- (6) Switch on the receiving audio device.
- (7) Start playing.

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.

-To switch off you system-

- (8) Turn down the output volume of the receiving audio device or switch it off.
- (9) Turn the FR-2/FR-2b's VOLUME knob ① all the way to the left ("POWER OFF").

If you are using batteries

The FR-2b needs to be connected to an amplification system of some sort (unless you want to use headphones).

- (1) Install the required batteries into the FR-2/FR-2b's compartment (see p. 27).
- (2) Turn down the output volume of the receiving audio device.

You can also simply switch it off.

(3) Connect the FR-2/FR-2b's OUTPUT sockets to the external audio device using two 1/4" guitar cables. **Note:** You can also connect headphones to the PHONES socket, in which case you do not need to establish an audio connection.

- (4) Turn the FR-2/FR-2b's VOLUME knob (1) from the "POWER OFF" position towards the right.
- (5) Switch on the receiving audio device.
- (6) Start playing.
 - -To switch off your system-
- (7) Turn down the output volume of the receiving audio device, or switch it off.
- (8) Turn the FR-2/FR-2b's <u>VOLUME</u> knob all the way to the left ("POWER OFF").

Listening to the demo songs

One of the most striking aspects of your V-Accordion may be that it can play all by itself! It contains a series 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-2/FR-2b. See "Switching the power on and off" on p. 10.
- (2) Press and hold the <u>SONG/DEMO</u> button (10). Playback starts automatically with the first demo song (there are 16 demo songs in all). At the end of the first song, the FR-2/FR-2b starts playing songs 2, 3 etc. You can also directly jump to the song you're interested in:
- (3) Use the <u>USER PROG/DEC</u> and <u>METRONOME/INC</u> buttons (8) to select the demo song you want to listen to.
- Use the VOLUME knob (1) to change the volume if it is too loud or too soft.
 Note: All demo songs are copyright ©2007 by Roland Europe. Public performance or recording of these songs is prohibited.
- (5) Press <u>SONG/DEMO</u> (10) again to leave demo song mode.

Touring the FR-2/FR-2b's sections

Bellows resistance regulator

Your FR-2/FR-2b is equipped with a bellows resistance regulator knob that allows you to specify the bellows' inertia (the force needed to push and pull it).



Bellows resistance regulator. 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). Setting it allows you to choose a lighter or stronger inertia. Choose the setting that feels most comfortable for you.

Bass strap

The FR-2/FR-2b'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:



Treble section

The Treble section can be played using the 34-key "piano" keyboard (FR-2) or the 82 treble buttons (FR-2b).

The sound it produces is determined by the register (1~8) you pressed last. This section can be used as "accordion" or to play an orchestral sound.



- Connect the FR-2/FR-2b to an amplifier and switch it on. See p. 10.
- (2) Grab the FR-2/FR-2b, press a Treble register and start playing on the keyboard. Though the FR-2/FR-2b is an electronic musical instrument, it only produces sound when you move

the bellows. **Note:** When the FR-2/FR-2b is controlled via MIDI, there is no need to move the bellows.

- (3) Press the SET register (5) (it flashes blue).
- (4) Press one of the registers 1~8 6 to select a Set memory.

The SET button goes dark.

Note: If you don't press any register while the <u>SET</u> register flashes in blue, it will go dark again after a while. If you pressed the <u>SET</u> register by accident, press it again so that it goes dark. **Note:** See also the note about Set 5 on page 7.

- (5) Play a few notes to audition the sound.
- (6) Press one of the registers 1~5 to select another register. See page 7.
- (7) Press the same register again to select the "b" sound.

Press it yet again to revert to the "a" sound. Each time you press a different register, the FR-2/ FR-2b will automatically select the "a" sound

(8) If you think the sound is too loud or too soft, you can change the setting of the <u>VOLUME</u> knob (1).

■Using the FR-2/FR-2b's digital effects

While playing on the Treble keyboard, you may have noticed that the accordion sounds are enhanced by effects (probably reverb). The FR-2/FR-2b contains 2 digital effects:

Reverb: This effect creates the impression that you are playing in a concert hall, a church or a room. It adds "depth" to the sound.

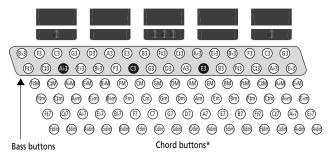
Chorus: This effect creates the impression that several instruments of the same type are playing at the same time. You can change the type and the level settings of these two effects (see p. 19). Those settings apply to all sections and all Sets.

Bass section



The buttons in this section allow you to play *both* bass notes *and* chords. 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 highlighted rows. The remaining buttons are used to play chords.

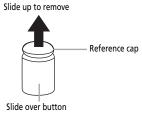
At the factory, three caps are installed on the black buttons in the following illustration. Feel free to remove them and to slide them over other buttons if that feels more comfortable.



(*) This can be changed to 3 bass and 3 chord rows. See "Bass & Chord Mode" on p. 23.

Here is what the caps look like:

Olanc



The overall sound the Bass section produces is determined by the register you activated last. This section can be used as "accordion", to play orchestral sounds, or both.

- Connect the FR-2/FR-2b and switch it on. See page 10.
- (2) Grab the FR-2/FR-2b, press and pull down a register and start playing on the Bass (button) keyboard.

When you only use the accordion sounds (i.e. while the <u>ORCH BASS</u> (2) and <u>ORCH CHORD</u> (3) buttons are dark), the bass and chord buttons use the same register, because they belong to the same accordion section.

(3) If you think the sound is too loud or too soft, you can change the setting of the <u>VOLUME</u> knob (1).

Using the orchestral sounds

Your FR-2/FR-2b contains PCM sounds (samples) of various instruments that are not related to accordion sounds. Those sounds allow you to expand your musical endeavours.

The FR-2/FR-2b's Orchestra functionality comprises three sections: one for the Treble keyboard (called "Orchestra"), another for the Bass buttons (first two rows, called "ORCH BASS"), and a third for the chord buttons (remaining rows, called "ORCH CHORD").

You can specify for each section whether or not the orchestral sounds should be used instead of the accordion sounds.

Orchestral sounds for the Treble section

Note: Only one orchestral sound can be selected at any one time.

 Press one of the registers 6~8 once or twice (it lights red). The "b" sounds can be selected by pressing the corresponding register twice. See page 7 (or the front panel) for the available sounds.



(2) Play a few notes on the Treble keyboard.

Switching off the Orchestra part

To return to a state where only the Treble accordion section sounds:

(3) Press one of the registers 1~5 6 once or twice (it lights green).

Orchestral sounds for the Bass section

The orchestral bass part can be used instead of the Bass section (thus replacing the accordion sound assigned to the bass rows). **It only applies to the bass rows** (the ones closest to the bellows) and has no effect on the chord buttons.

- (1) Press the ORCH BASS (2) button (it must light).
- (2) Check whether the LEFT REGISTER ④ button is dark. If it is not, press it.
- (3) Use the Bass registers to select the desired sound (the register you press lights green).

ORCH BASS sounds				
1	Acoustic	4	Fretless	
2	Bowed*	5	Tuba Mix	
3	Fingered			

Note: The dynamics of sounds marked with an asterisk (*) can only be controlled by bellows movements. Those sounds are not velocity sensitive.

Switching off the Orchestra Bass part

(4) Press the ORCH BASS button again to return to normal Bass mode.

Orchestral sounds for the Chord section

The orchestral chord part can replace the accordion sound played by the chord rows of the button keyboard. **It only applies to the chord rows** and has no effect on the bass buttons.

- (1) Press the ORCH CHORD (3) button (it lights).
- (2) Check whether the LEFT REGISTER ④ button lights. If it doesn't, press it.
- (3) Use the Bass registers to select the desired sound.

ORCH CHORD sounds				
1*	St. Strings*	4*	St. Orch Brass*	
2*	Chorus Organ*	5*	Choir*	
3	Steel Guitar			

Note: The dynamics of sounds marked with an asterisk (*) can only be controlled by bellows movements. Those sounds are not velocity sensitive.

While ORCH CHORD mode is active, you can assign a different accordion register to the bass rows by pressing [LEFT REGISTER] (it must be dark) and the desired Bass register.

Switching off the ORCH CHORD part

(4) Press the ORCH CHORD button again to return to normal Chord mode.

Using two different sounds for the Bass button keyboard

The FR-2/FR-2b allows you to assign one orchestral sound to the bass rows of the button keyboard, and another to the chord rows, or to play one orchestral sound (bass or chords) and one accordion sound via the bass keyboard. Use the <u>ORCH BASS</u> (2) and <u>ORCH CHORD</u> (3) buttons to activate (button lights) or switch off (button dark)

orchestral mode for the bass and/or chord rows.

To assign a different orchestral sound (or accordion register) to one of the two parts, you must assign the bass registers to the desired section.

This is usually done automatically, but you can also use the LEFT REGISTER ④ button to switch between the two.

If <u>LEFT REGISTER</u> lights, you can select an accordion register or orchestral sound for the **chord** rows of the bass keyboard.

If it is **dark**, you can select an accordion register or orchestral sound for the **bass** rows of the bass keyboard.

Note: The <u>LEFT REGISTER</u> button has no function when neither the <u>ORCH BASS</u> nor the <u>ORCH CHORD</u> button lights.

5. Other practical functions

Switching off sections you don't need

If, for some reason, you do not want one of the currently active parts to respond to your playing, you can switch it off: This may apply to any of the following combinations and mute the corresponding keys or buttons (where applicable):

Treble or Orchestra	+	Bass + Chord
Treble or Orchestra	+	ORCH BASS + Chord
Treble or Orchestra	+	ORCH BASS + ORCH CHORD

Treble or Orchestra + Bass + ORCH CHORD

 To switch off a section you do not want to hear, hold down any single register for a while.
 Use a register in the Treble section to mute the Treble or

Orchestra part; use a Bass register to mute the bass, chord, or any of the associated orchestral parts.

(2) To switch a muted section back on, briefly pressing and puling down any of the associated registers.

Using the metronome

Your FR-2/FR-2b contains a metronome that may come in handy when you are practising new pieces, or during your accordion classes. You can set the time signature, the tempo and the level.

Setting the time signature

To set the time signature, proceed as follows:

- Before changing this value, it might be a good idea to switch the metronome on by pressing the <u>METRONOME/INC</u> (8) button (it lights).
- (2) Press and hold the SET register until it starts flashing. The Treble keyboard can now be used to select the desired function.
- (3) Press the F2 key or button number "10". See p. 18 for the location. The SET (5) register flashes rapidly, and the Treble keyboard can once again be used to play notes.



(4)	Use registers 1~8 6 to select one
	of the following settings.

	Metronome time signature				
1	1/4	5	5/4		
2	2/4	6	6/4		
3	3/4	7	6/8		
4●	4/4	8	9/8		

Note: Press the PAD/DEFAULT (7) button or register [4] to return to the factory setting of the currently selected parameter.

(5) Press the SET ⑤ register once (so that it flashes slowly) and proceed with the next parameter. (Press the <u>SET</u> register twice to leave the FR-2/FR-2b's FUNCTION mode.)

■Setting the tempo

We'll assume that you are still in "FUNCTION" mode (SET) (5) flashes slowly). To set this parameter at a later stage, press and hold the SET register until it starts flashing slowly.

 Press the E2 key (i.e. the lowest E) or button "9". See p. 18 for the location.

The **SET** register now flashes rapidly, and the Treble keyboard can once again be used to play notes.

Note: You can also select this parameter by pressing and holding the $\fbox{METRONOME/INC}$ (8) button.

(2) Use registers 1~8 6 to select one of the following suggested values.

	Metronome tempo				
1	Largo (40 BPM)	5	Moderato (120 BPM)		
2	Larghetto (60 BPM)	6	Allegro (144 BPM)		
3	Adagio (72 BPM)	7	Presto (192 BPM)		
4●	Andante (96 BPM)	8	Prestissimo (208 BPM)		

Alternatively, use the DEC or INC (8) button to decrease or increase the value in steps of "1".

You can also press and hold these buttons to quickly select a significantly higher or lower value. The setting range is $J = 20 \sim 250$.

Note: Press the PAD/DEFAULT (7) button or register (4) to return to the factory setting of the currently selected parameter.

(3) Press the SET (5) register once (so that it flashes slowly and proceed with the next parameter.
 (Press the SET register twice to leave the FR-2/FR-2b's FUNCTION mode.)

Setting the metronome level

Here's how to set the desired metronome level to ensure that it is neither too loud, nor too soft. We'll assume that you are still in "FUNCTION" mode (SET flashes slowly). To set this parameter at a later stage, press and hold the SET register until it starts flashing slowly.

- Press the (black) F#2 key (i.e. the lowest F#) or button "11". See p. 18 for the location.
- (2) Use registers 1~4 to select one of the following settings.

Metronome level						
1	Off	3● Medi	um			
2	Low	4 High				

Note: Press the $\fbox{PAD/DEFAULT}$ button to return to the factory setting.

(3) Press the <u>SET</u> (5) register twice to leave the FR-2/ FR-2b's FUNCTION mode.

Using the metronome

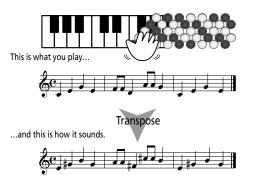
After setting the metronome parameters to your liking, you can start using the metronome:

- (4) Press the METRONOME/INC (8) button (it lights) to start the metronome.
- (5) Press it again to switch the metronome back off.

Pitch-related functions

Transpose function

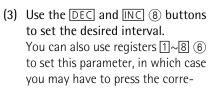
The FR-2/FR-2b contains a Transpose function that allows you to change the key of the music you are playing. The advantage of this system is that you can play a song in E major (for example), while using the fingering of the C major scale (for example). This may come in handy when you are used to playing a given song in one key and suddenly need to play it in a different key. Let's look at an example:



(1) Press and hold the SET (5) register until it starts flashing.

The Treble keyboard can now be used to select the desired function.

Press the A1 key or button "3". See
 p. 18 for the location.
 The SET (5) register now flashes
 rapidly, and the Treble keyboard can
 once again be used to play notes.





sponding register twice to obtain the setting marked with an "*" in the table below. The "*" symbol represents sharp signs (#) and is indicated by the FR-2/FR-2b by means of a flashing register. If a Treble register flashes, you therefore know that you are transposing to a "black" key.

Transpose						
1*	-6	F#		5●	0	С
2	-5	G	-	5:*:	1	C#
2**	-4	G#	-	6	2	D
3	-3	А	-	6:4:	+3	D#
3**	-2	A#	-	7	+4	E
4	-1	В	-	8	+5	F

The setting range is $-6\sim0\sim5$ (where "0" means that no transposition is used). The value refers to the interval. This can be calculated as follows:

- In what key do you want to play? (This is your "0" value.)
 Example→ C major
- What key does the song use? Example→ E major
- How many semitones do you need to "shift" the notes? Example \rightarrow [C#, D, Eb, E]= 4 up, so register [7].
- (4) Press the SET register twice to leave the FR-2/FR-2b's FUNCTION mode.

Note: This parameter is reset when you switch off the FR-2/FR-2b.

Transposing the Treble keyboard in octave steps

The parameter discussed here allows you to transpose the Treble accordion or Orchestra section one octave up or down.

(5) Simultanesouly press the SET (5) and 1 (+, one octave down) or 2 (-, one octave up) register.

Musette Detune

You probably know that an accordion's 8' Treble register may consist of 2 or even 3 reeds that are usually tuned apart to provide a richer sound (accordionists call it the "musette effect"). One reed is tuned slightly above, the other slightly below the correct pitch (and the third, if available, is tuned "properly").

Tuning those reeds is a specialist job and usually not performed by accordion players themselves.

On the FR-2/FR-2b, however, "tuning" the "reeds" (that do not really exist) is a matter of pressing a few buttons.

There are, in fact, more options than can be selected with the 8 registers: Dry, Classic, F-Folk, American L, American H, Nord Eur, German L, D-Folk L, Italian L, German H, Alpine, Italian H, D-Folk H, French, Scottish.

Note: This parameter is saved automatically for every register that contains the 8' footage.

Song function

Your FR-2/FR-2b contains 8 popular accordion songs that have been prepared for educational purposes. The left- and right-hand parts are on separate tracks, which allows you to mute one part (left or right hand) to play it yourself. The FR-2/FR-2b will play the other part.

Note: The Song function is not available while "Bellows Curve" on p. 20 is set to "Fixed Low", "Fixed Med" or "Fixed High".

Selecting a song

The FR-2/FR-2b contains the following educational songs:

1	Can Can	5	Oh Susanna
2	Cielito Lindo	6	Red River Valley
3	Ninna nanna	7	Little Brown Jug
4	Carnevale di Venezia	8	Furusato

(1) Briefly press the SONG/DEMO (1) button.

(2) Press and hold the <u>SONG/DEMO</u> button.

- (3) It flashes, and the register assigned to the last song you selected lights.
- (4) Use registers 1~8 to select the desired song (see the table above).
- (5) Move the bellows.

The first movement of the bellows starts the song after a short while, subsequent moves allow you to control the song's volume (expression).

Playback stops at the end of the song. To stop it before the end of the song...

- (6) Press the <u>SONG/DEMO</u> button again to leave the Song function.
- (7) Select a different song or proceed with the following: Note: The metronome is not available while the Song function is used.

Muting a part

The real purpose of the FR-2/FR-2b's Song function is to encourage you to play along with the FR-2/FR-2b. To do so, you need to mute (switch off) the song part you want to play yourself.

- (1) Select the song you want to play (see above).
- (2) Mute either the Treble or the Bass keyboard.

Muting the right-hand part:	Press and hold any treble register (1~8)
Muting the left-hand part:	Press and hold any bass register (1~5).

Note: You can only mute one part at a time.

(3) Move the bellows.

The first movement of the bellows starts the song, subsequent moves allow you to control the song's volume (expression).

This time, the FR-2/FR-2b only plays the part you didn't switch off. You can change registers (or sounds) for the section you are playing. It is also possible to use an orchestral sound instead of an accordion register.

Note: The PAD function is also available during Song playback.

- (4) To switch the muted part back on, press and hold any Treble or Bass register.
- (5) Press the <u>SONG/DEMO</u> button again to leave the Song function.

PAD function

Your FR-2/FR-2b contains a drum part that can be played in real-time and/or controlled by the PAD recorder. There are 8 sets of 5 drum and percussion sounds. Those sounds can be played in real-time using the 5 pads above the bass registers, using the bass and chord buttons (only 2 sounds of each PAD set), by the PAD recorder function or via MIDI (channel 10).

Playing drum sounds

■Playing drum sounds with the bass registers

- (1) Briefly press the PAD ⑦ button.
- (2) Press and hold the PAD (7) button until it starts flashing.

(3) Use Treble registers 1~8 6 to select the desired PAD set (i.e. a collection of 5 sounds).

set	•	-			
PAI	D Set 1 (Folk)	PAD	Set 5 (Pop)		
1	Snare Ghost	1	Pop Stick		
2	Snare Tambourine	2	Snare		
3	Bass Drum/HiHat	3	Bass Drum		
4	Conga Op	4	HiHat Closed		
5	Conga Slap	5	HiHat Open		
PAI) Set 2 (Jazz)	PAD	Set 6 (Orchestra)		
1	Bass Drum	1	Snare Roll		
2	Jazz Snare/Pedal HiHat	2	Concert Snare/ OpenTriangl		
3	Ride Cymbal	3	Concert BD		
4	Tom Hi	4	Concert Cym.		
5	Tom Lo	5	Timpani		
PAI	PAD Set 3 (Tarantel)		PAD Set 7 (TR-909)		
1	Tamorra 3	1	Techno Kick		
2	Tamorra 1	2	TR-909 Snare/909 Clap		
3	Tamorra 2	3	TR-909 Kick/ Tambourine		
4					
	Conga Op	4	909 Tom Op		
5	Conga Op Conga Slap	4 5	909 Tom Op 909 Tom Lo		
5	5 1	5	· · · · · · · · · · · · · · · · · · ·		
5	Conga Slap	5	909 Tom Lo		
5 PAI	Conga Slap D Set 4 (Latin)	5 PAD	909 Tom Lo		
5 PAI 1	Conga Slap O Set ④ (Latin) Pandeiro 4	5 PAD 1	909 Tom Lo Set 🖲 (Ethnic) Big Gong		
5 PAI 1 2	Conga Slap D Set (1) (Latin) Pandeiro 4 Pandeiro 5	5 PAD 1 2	909 Tom Lo Set 🖲 (Ethnic) Big Gong Udo Long/Tabla Na		
5 PAI 1 2 3	Conga Slap D Set [4] (Latin) Pandeiro 4 Pandeiro 5 Pandeiro 3/Bass Drum	5 PAD 1 2 3	909 Tom Lo Set (8) (Ethnic) Big Gong Udo Long/Tabla Na Req Dum/Timl Paila		

The numbers refer to the pads you need to press. The correspondence is a follows.



Note: The numbers shown in the illustration above do not appear on the pads themselves. They have been added for your reference.

- (4) Press the pads to play a drum part. You'll notice that the pad you press briefly lights.
- (5) Press the PAD button again to leave PAD mode.

Playing drum sounds with the bass and chord buttons

Though restricted to sounds **2 and 3** of each PAD set, the following is even more professional. You can assign sound "3" (see above) of the selected PAD set to the bass rows, and the "2" sound to the chord rows. That way, each bass note will be accompanied by a bass drum sound (usually), and each chord by a snare drum hit.

Feel free to use your other hand to play the remaining PAD sounds (by pressing the Bass registers).

Adding drum sounds to your bass notes and chords

- (1) Briefly press the PAD (7) button.
- (2) Press and hold the PAD button until it starts flashing.
- (3) Use Treble registers 1~8 to select the desired PAD set (i.e. a collection of 5 sounds). See the table above.
- (4) Press and hold Treble register 1 6 until it starts flashing.
- (5) Start playing bass notes and chords. Each button press also triggers the "3" sound (bass rows) or the "2" sound (chord rows) of the selected PAD set.
- (6) Press and hold Treble register 1 again to "remove" the drum sounds from the bass and chord buttons without leaving PAD mode.

The PAD sounds can still be played using the Bass registers.

(7) Press the PAD button again to leave PAD mode.

■Playing only drum sounds via the bass and chord buttons

- (1) Briefly press the PAD (7) button.
- (2) Press and hold the PAD button until it starts flashing.
- (3) Use Treble registers $1 \approx 8$ to select the desired PAD set (i.e. a collection of 5 sounds). See the table on p. 16.
- (4) Press and hold Treble register 2 6 until it starts flashing.
- (5) Start playing bass notes and chords. Each button now only triggers the "3" sound (bass rows) or the "2" sound (chord rows) of the selected PAD set.
- (6) Press and hold Treble register 2 again to "remove" the drum sounds from the bass and chord buttons without leaving PAD mode. The buttons can now again be used to play the bass and

chord sections. The PAD sounds can still be played using the Bass registers.

(7) Press the PAD button again to leave PAD mode.

Recording short drum patterns

The FR-2/FR-2b allows you to record a drum pattern by playing it in one of the ways described above. The recorded pattern is repeated over an over ("Loop" function).

- (1) Briefly press the PAD (7) button (it lights green). The recording function is only available in PAD mode. See p. 16 for how to select a different PAD set, if necessary. Note: The metronome is not available while the PAD function is used.
- (2) Press and hold the REC/LOOP (9) button until it starts flashing.
- (3) Press a Bass register or button in the bass or chord button row (if the Bass buttons are set to play two drum sounds). Recording starts automatically.

- (4) Press REC/LOOP when it's finished. The REC/LOOP (9) button lights steadily and your pattern is played back automatically in a loop.
- (5) Use the Treble and Bass keyboards to play a song to the drum pattern.
- (6) Press [REC/LOOP] again to stop the drum pattern. Press it yet again to restart the drum pattern.
- (7) Switch off the PAD button to leave the FR-2/FR-2b's PAD mode.

Note: The pattern is preserved until you replace it with another pattern. It is lost when you switch off the FR-2/FR-2b.

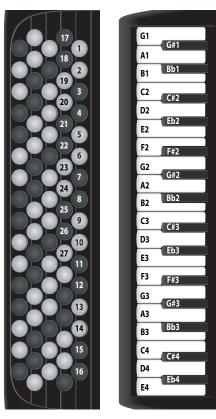
6. Editing FUNCTION settings

The FR-2/FR-2b provides a series of specialized parameters that may come in handy when you need to fine-tune the FR-2/FR-2b's response to your playing style. Some of these settings can be saved to the FR-2/FR-2b's User Programs (see p. 22).

Selecting the desired function

(1) Press and hold the <u>SET</u> (5) register until it starts flashing.

The Treble keyboard can now be used to select the desired function. If you own an **FR-2b**, please refer to the following illustration for the Treble buttons you need to press (depending on the selected Treble mode, the buttons may be assigned to different notes). For the sake of convenience, the note names of the keyboard version are also shown.



(2) Press the indicated key or Treble button.

(Key names with a "#" symbol refer to black keys.)

The <u>SET</u> register now flashes rapidly, and the Treble keyboard can once again be used to play notes.

 (3) Use registers 1~8 6 to select one of the suggested values. There may be fewer than 8 registers for the parameter you select.

Alternatively, use the DEC or INC button to select the desired turning. Sometimes, there are more options than can be selected with the 8 registers.

You can also press and hold these buttons to quickly select a significantly higher or lower value. Each time you select a setting that is also assigned to a register, the register in question lights.

Note: Press the <u>PAD/DEFAULT</u> (7) button or the register flagged with a "•" in the discussion below to return to the factory setting of the currently selected parameter.

(4) Press the SET register twice to leave the FR-2/FR-2b's FUNCTION mode.

If you want to set another FUNCTION parameter, press SET once (it flashes slowly), followed by the desired key, then proceed with step (3) above.

 \rightarrow In the following, the messages at the right edge of the gray bars have the following meaning:

"OK": Can be saved in the Global area (common to all Sets). "POW": Reset when you switch off the FR-2/FR-2b.

Parameters

Master Tune	[G1]/[1]	ОК
415~440~466 (Hz)	Default setting: 440	

This parameter allows you to change the FR-2/FR-2b's overall tuning. The factory default, "440", represents the reference pitch used by all electronic musical instruments. The settings you can select with the registers are:

4●	440			
4●	440			
3	432	7	466	
2	424	6	457	
1	415	5	448	

OK

Musette Detune[G#1]/[2]Dry, Classic, F-Folk, American L,
American H, Nord Eur, German L,
D-Folk L, Italian L, German H,
Alpine, Italian H, D-Folk H, French,
ScottishDefault setting: Dry

This parameter allows you to choose the system used for detuning the 8' reeds of the selected register. The settings you can select with the registers are:

	Musette Detune						
1	Classic	5	Italian L				
2	American L	6	D-Folk L				
3	Nord Eur	7	French				
4	Alpine	8	Scottish				

Roland

Transpose	[A1]/[3]	POW
-6~0~5	Default setting: 0	

This parameter allows you to transpose all sections of the FR-2/ FR-2b, so as to play in one key and sound in another. The settings you can select with the registers are:

	Transpose							
1*	-6	F#		5•	0	С		
2	-5	G	-	5**	1	C#	_	
2*	-4	G#	-	6	2	D	_	
3	-3	А	-	6:#:	+3	D#	_	
3*	-2	A#	-	7	+4	E	_	
4	-1	В	-	8	+5	F	_	
							-	
reble/Bass	& Chord	Balance	[[31]/[4]			POV	

b1~63,0, t1~63

Default setting: 0

This parameter is used to set the balance between the Treble and Bass sections. When you select "b1" (register ①), the Treble section is inaudible, while pressing register ⑦ ("t1") means that the Bass section is no longer audible. The settings you can select with the registers are:

1	b60	5	t20
2	b40	6	t40
3	b20	7	t60
4●	0		

Orchestra Level	[C2]/[5]	OK
Pad Sound Level	[C#2]/[6]	OK
Orchestra Bass Level	[D2]/[7]	OK
Orchestra Chord Level	[D#2]/[8]	OK

-40~Std~40

Default setting: Std

These parameters allow you to set the level of the ORCHESTRA, BASS or CHORD orchestral sound, or of the PAD function for a better balance with the other available sections. In that case, you can change its volume: The settings you can select with the registers are (for both parameters):

1	-40	5	+13
2	-27	6	+13
3	-13	7	+40
4●	0		

Metronome Tempo	[E2]/[9]	OK
20~250	Default setting: 120	

This parameter allows you to set the metronome tempo. The settings you can select with the registers are:

1	Largo (40 BPM))	5	Moderato (120 BPM)
2	Larghetto (40 BPM)	6	Allegro (144 BPM)
3	Adagio (72 BPM)	7	Presto (192 BPM)
4•	Andante (96 BPM)	8	Prestissimo (208 BPM)

ľ	Metronome Time Sign	[F2]/[10]	OK

1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8, 9/8 Default setting: 4/4

This parameter allows you to set the metronome's time signature. The settings you can select are:

2	2/4	6	6/4
		0	0/4
3	3/4	7	6/8
4●	4/4	8	9/8

Metronome Level	[F#2]/[11]	ОК	
Off, Low, Medium, High	Default setting: Medium		

This parameter allows you to change the metronome's level when it is too loud or too soft. See page 14 for details.

1	Off	3•	Medium	
2	Low	4	High	

Reverb Level	[G2]/[12]	OK
0~127	Default setting: 48	

This parameter allows you to set the volume of the reverb effect with respect to the accordion and/or orchestral sounds. It applies to all sections that are currently switched on. The settings you can select with the registers are:

1	0 (no reverb)	5	64	
2	16	6	80	
3	32	7	96	
4●	48	8	127	

Reverb Type	[G#2]/[13]	OK
Room 1. 2 Hall 1. 2 Plate Delay	Default setting: Plate	

Room 1~3, Hall 1~2, Plate, Delay, Default setting: Plate *Panning Dly*

This parameter allows you to specify what kind of effect the Reverb processor should generate. The available options are:

1 Room1 2 Room2 3 Room3	These reverbs simulate the reverberation of a room. They provide a well-defined spacious reverberation.
4 Hall1 5 Hall2	These types simulate the reverberation of a concert hall with a deeper reverberation than the Room reverbs.
6 Plate ●	This effect type simulates a plate reverb (a studio device using a metal plate to simulate natural Reverb).
7 Delay	This is a conventional delay that produces echo effects.
8 PanningDly	This is a special delay in which the delayed sounds move left and right. It is effective when you are listening in stereo.

(The numbers between [] refer to the Treble registers.)

8 ShortDly FB

Cho	orus l	_evel		[/	\2]/[14]	ОК
0~127			Default setting: 16			
witł to a	n res Il seo	pect to the	accordior are currer	n and/c ntly sw		e chorus effect unds. It applies settings you
	1	0 (no cho	orus)	5	64	
	2•	16		6	80	
	3	32		7	96	
	4	48		8	127	
	Chorus Type			-	42]/[15]	OK
		1~4, FBack (elay, Short D		, D	efault setting:	Short Delay
				5		dding richness. ble options are
				entional chorus ss and depth t		
5	5 FBack Chr This is a c and a soft				with a flanger d.	-like effect
6					that sounds s king off or lan	
[7]				delay with a short delay time.		
ப		/		aciayi	and a shore ac	lay time.

Bellows Curve	[B2]/[16]	OK
Fixed Low [1], Fixed Med [2],	Default setting: Standard	ł

Fixed Low [1], Fixed Med [2], Default setting: Standard Fixed High [3], X-Light [4], Light [5], Standard [6], Heavy [7], X-Heavy [8]

This parameter allows you to adapt the FR-2/FR-2b's expressive potential to your playing style. If you think the sounds don't respond the way you would like them to, try another curve that better "translates" your movements.

There are three "**Fixed**" curves that always use the same value, no matter how hard or lightly you push/pull the bellows (no dynamic control). "Low" means that a low value is used, "Med" represents a medium value and "High" a high value.

The remaining settings do depend on the strength with which you push/pull the bellows, but in different ways: "Light" means that you do not need to push/pull hard to achieve a meaningful effect. "X-Light" requires even less strength (the "X" stands for "extra"). "Standard" refers to a normal response. "Heavy" provides a greater variety of nuances and "X-Heavy" is even more detailed. It would be a good idea to select each curve without the "Fixed" addition, play a few notes, select the next curve, etc. until you find the response that feels just right.

Note: The "Song function" on p. 15 is not available while this parameter is set to "Fixed Low", "Fixed Med" or "Fixed High".

Button Light Brightness	[C#4]/[25]	POW
Day, Night	Default setting: Day	

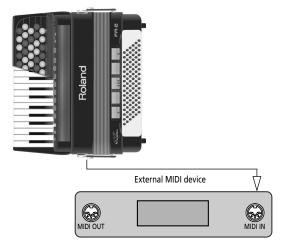
This parameter allows you to change the brightness of the button lights. Use register $\boxed{1}$ to select the "day" setting (bright), and register $\boxed{2}$ to select "night" (darker).

7. MIDI parameters (FUNCTION group)

This is a short delay with many repeats.

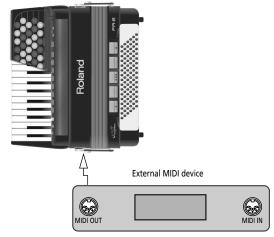
Your FR-2/FR-2b can also transmit or receive MIDI data. In this section, we'll look at what MIDI is and does and which MIDI functions are available on the FR-2/FR-2b. **IMPORTANT REMARK**: The FR-2/FR-2b has only one MIDI socket that can be used to either send ("OUT") or receive ("IN") MIDI data.

Connect the FR-2/FR-2b as follows to **transmit** MIDI data to an external device:



Then, set the "MIDI OUT/IN" parameter (see p. 21) to "Out".

Connect the FR-2/FR-2b as follows to **receive** MIDI data from an external device:



Set the "MIDI OUT/IN" parameter (page 21) to "In".

About MIDI

You can use your FR-2/FR-2b with other MIDI-compatible instruments, sequencers and computers to record your performances in the same way as keyboard players, drummers, guitarists, etc., have been doing for a while.

All MIDI-compatible sound sources allow you to use the FR-2/FR-2b's Treble and Bass keyboards for playing sounds the FR-2/FR-2b does not provide.

This is possible thanks to a common language for musical applications, which is called "**Musical Instrument Digital Interface**", or "**MIDI**" for short. MIDI has a lot in common with the internet: you can link one or several instruments to one another via a cable (but you don't need a telephone line).

You can also use the FR-2/FR-2b as "master keyboard", i.e. an instrument that transmits MIDI messages to a device (or software program) that can record MIDI messages. Such a device or program is called a "sequencer".

MIDI can simultaneously transmit and receive messages on 16 channels, so that up to 16 instruments (or parts of a module or synthesizer) can be controlled. Nowadays, most instruments –like your FR-2/FR-2b– are multitimbral, which means that they can play several musical parts with different sounds. This requires the use of several MIDI channels. The FR-2/FR-2b, for instance, has several accordion and orchestral sections that can be played simultaneously. They can transmit and receive on different channels.

The FR-2/FR-2b's sections use the following MIDI channels:

Part	Channel
Treble	1
Bass	2
Chord	3
Orchestra (Treble)	4
Orchestra Bass	5
Orchestra Chord	6
Pad sounds (see p. 16)	10
Basic channel (for selecting Sets)	13

MIDI parameters

The MIDI parameters belong to the FUNCTION environment. The setting procedure is therefore the same. See p. 18 for details.

Note: The FR-2/FR-2b's MIDI channels cannot be changed.

Treble Octave Tx	[C3]/[17]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the Treble section up to three octaves up or down. This can be used for songs where an accordion register of the Treble section (for example) should be doubled by a piccolo flute played by an external module whose notes would be far too low if they were used as is. Each MIDI note has a unique number. This parameter allows you to add (or subtract) 12 ("1" octave), 24 ("2"

octaves) or 36 ("3" octaves) to (from) the note numbers generated by your playing. The settings you can select are:

1	-3	5	+1	
2	-2	6	+2	
3	-1	7	+3	
4●	0			

Note: "TX" means that this parameter only applies to the note messages transmitted to external devices. Messages the FR-2/FR-2b receives from another device are not affected by it.

Orchestra Octave TX	[D3]/[18]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the Orchestra section. The settings are the same as above.

Bass Octave TX	[E3]/[19]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the bass buttons up to three octaves up or down. The settings are the same as above.

Chord Octave TX	[F3]/[20]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the chord buttons up to three octaves up or down. The settings are the same as above.

Orchestra Bass Octave TX	[G3]/[21]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the ORCH BASS part. The settings are the same as above.

Orchestra Chord Octave TX	[A3]/[22]	OK
-3~0~3	Default setting: 0	

This parameter allows you to transpose the Note-on messages transmitted by the ORCH CHORD part. The settings are the same as above.

Bellows Expression TX	[B3]/[23]	OK
Off, On	Default setting: Off	

The strength/speed with which the bellows is pressed or pulled influences the sound – which corresponds to an acoustic accordion's response. This effect can be translated into a MIDI message most external instruments understand.

If you want to use the bellows for expressive purposes, switch this parameter on (register 2). If you don't (because the external instrument is too sensitive and therefore changes its volume too often), switch it off (register 1).

MIDI Out/In	[C4]/[24]	POW
Out, In	Default setting: Out	

This parameter allows you to set the function of the FR-2/FR-2b's MIDI socket. Select "Out" (register 1) if you want to play on the FR-2/FR-2b's keyboards and transmit the MIDI data generated by your playing to an external device.

If you select "In" (register $\boxed{2}$) here, the FR-2/FR-2b's sound source can no longer be played via its keyboards.

Note: See p. 21 for the MIDI channels the FR-2/FR-2b's parts use.

Program Change TX	[D4]/[26]	OK
Off, On	Default setting: Off	

This is a MIDI filter, i.e. a parameter that allows you to specify whether or not the given MIDI type should be transmitted. "TX", as you know, is short for "transmission". This means two things: (1) the filter only applies to program changes *sent* by the FR-2/FR-2b, and (2) it is only meaningful when the "MIDI Out/In" parameter is set to "Out".

Program change messages are used to select sounds or memories on the receiving instrument simply by recalling another sound (or memory) on the transmitting instrument. The FR-2/FR-2b transmits program changes when you select Sets (on the Basic Channel) and registers (on the MIDI channel assigned to the section for which you are selecting a different register). Select "Off" if you don't need that.

All of the FR-2/FR-2b's registers transmit program change/bank select clusters when pressed. And when you set the "MIDI Out/In" parameter to "IN", the FR-2/FR-2b also receives those messages.

Arranger Control[E4]/[27]OKOff, OnDefault setting: Off

This parameter specifies which MIDI note numbers are sent by the Chord row buttons. You may have noticed that the chords generated by the FR-2/FR-2b (and indeed any accordion) are incomplete, because players are expected to supply the bass notes via the bass rows.

That information is fine if the resulting MIDI events you record with a sequencer are sent back to the FR-2/FR-2b. But if you want to control an arranger keyboard (like Roland's E-series), the "patchy" chord information may cause the music style patterns to play in the wrong key.

If you experience such problems, switch this parameter on (register [2]). To record chord information that will be sent back to the FR-2/FR-2b at a later stage (with the bass notes sent on channel 2), however, switch this parameter off (register 1).

Note: The chord notes are transmitted on MIDI channel 3.

8. Saving your settings (User Program)

Your FR-2/FR-2b contains 8 memories where you can store the FUNCTION settings listed below. Working with those memories has the advantage that you can recall frequently used settings at the press of a button. The User Program settings also include the "address" of the last Set you selected. The following settings are saved to the User Programs:

Set	Number (1~8)
	Register
Treble section	Balance (with Bass section)
	Octave setting
Orchestra	Register
section	Octave setting
Bass section	Register
Dass section	Balance (with Treble section)
Chord section	Register
	On/Off*
Orchestral Bass	Register
	Level
	On/Off*
Orchestral Chord	Register
Chora	Level
Reverb	Туре
Kevero	Level
<u>Chamma</u>	Туре
Chorus	Level
	On or off
PAD	Selected set
	Volume

[*] Mutually exclusive with corresponding accordion (or orchestral) setting.

Saving the current settings

V Roland

Here is how to save the current settings of the eligible parameters (see above) to the desired User Program memory.

- (1) Select the Set whose number should be memorized.
- (2) Set everything the way you want it to be when you recall the User Program you want to save.
- (3) Press and hold the USER PROG button until it starts flashing. The Treble register corresponding to the last User Program you selected flashes red.
- (4) Press the Treble register
 (1)~8 (6) of the User Program memory where you want to save your settings. Both the selected register and the USER PROG button light steadily.



(5) Press the USER PROG button again to leave this mode.

Recalling a User Program

Proceed as follows to recall a User Program you saved earlier:

- Press the USER PROG (8) button (it lights). The register of the last User Program you selected flashes yellow.
- (2) Press the Treble register (1~8) that is assigned to the User Program you want to use.
- (3) Press the USER PROG button again to leave this mode.

9. Changing your accordion's behavior

Here are two settings you'll probably change only once. But it's nice to know that it exists in case you let a fellow accordion player from another country play your FR-2/FR-2b.

Treble Mode (only on the FR-2b)

Like for the accordion instrument itself, there are different varieties of chromatic (button-type) instruments, with different Treble button layouts. Your FR-2/FR-2b can simulate them.

Please look at the illustrations on page 23 to identify the setting you need. Pay attention to the note names (all Cs appear on a grey background) and look at how they are arranged, then make your selection. The numbers next to the letters refer to the octave. The numbers below the note names represent the corresponding MIDI note numbers.

Here is how to select the desired setting:

- Switch off the FR-2/FR-2b by turning the VOLUME ① knob all the way to the left ("POWER OFF").
- (2) Hold down <u>SET</u> and one of the following registers while switching the FR-2/FR-2b back on to select the desired setting.

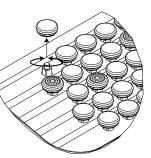


1•	C-Griff Europe	4	B-Griff Fin	
2	C-Griff 2	5	D-Griff 1	
3	B-Griff Bajan	6	D-Griff 2	

(3) Start playing.

(See pages 25 and 26 for the locations of the notes.)

You may have noticed that the Treble buttons are colored white (for notes without alteration) and black (notes with alteration, i.e. #/b). This coloring doesn't change when you select another system. (You can, however, unscrew the buttons and



install the in the right places so as to make the white and black buttons correspond to the notes being played.)

The FR-2/FR-2b is supplied with additional white and black buttons. The white buttons come in two varieties: normal buttons and knurled buttons. The latter are usually used to indicate the "C" and "F" notes.

Bass & Chord Mode

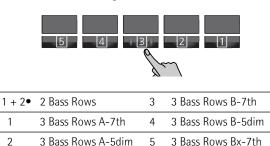
This parameter allows you to specify the number of button rows for playing bass notes. The default is 2 bass rows and 4 chord rows. By selecting "3 Bs Rows", you lose the "dim" chord buttons – but that may just be more convenient for you. See also the illustration on page 24.

There are four "3 Bs Rows" options: "A-7th" and "B-7th" mean that the 6th chord row plays seventh chords ("7") without the fifth. In the case of a C7 chord, you therefore hear C-E-B \flat (but not the G). "A-7th" and "B-7th" differ in the arrangement of the bass notes (see the illustration on page 24).

The "A-5dim" and "B-5dim" options mean that those seventh chords don't contain the root note. A C7 chord is sounded with the notes E-G-Bb (but not the C). "A-5dim" and "B-5dim" differ in the arrangement of the bass notes (see the illustration on page 24).

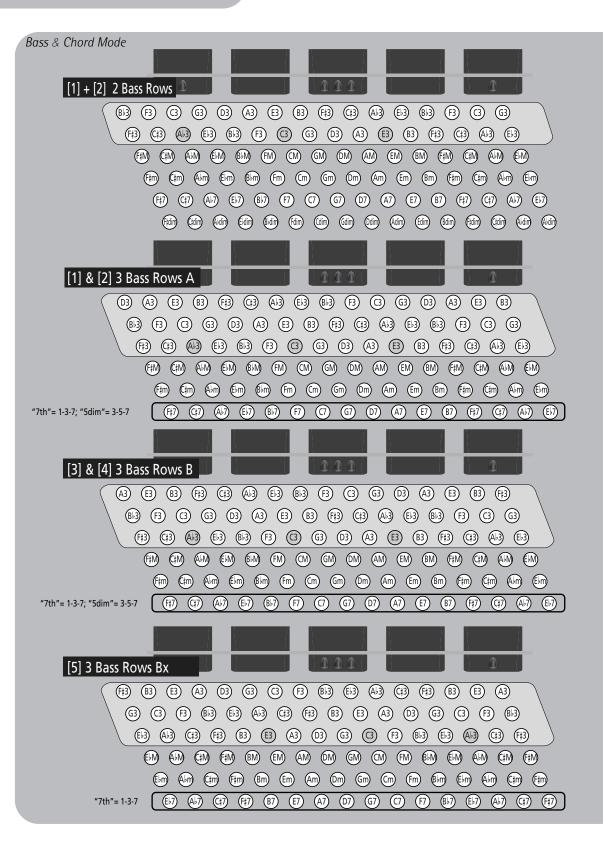
The **"Bx-7th**" option reverses the "B-7th" settings (from right to left).

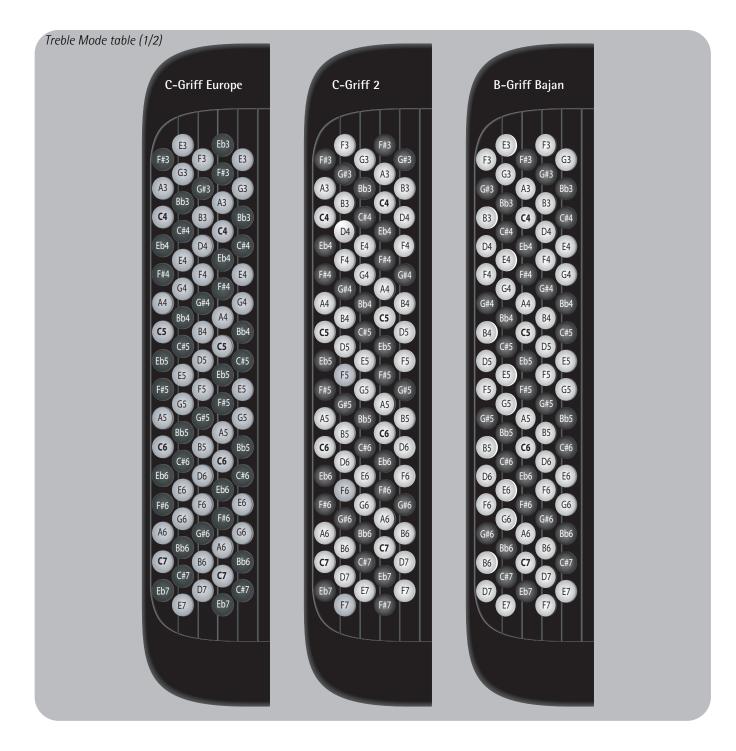
- Switch off the FR-2/FR-2b by turning the VOLUME ① knob all the way to the left ("POWER OFF").
- (2) Hold and pull down one or two of the following bass registers while switching the FR-2/FR-2b back on to select the desired setting.

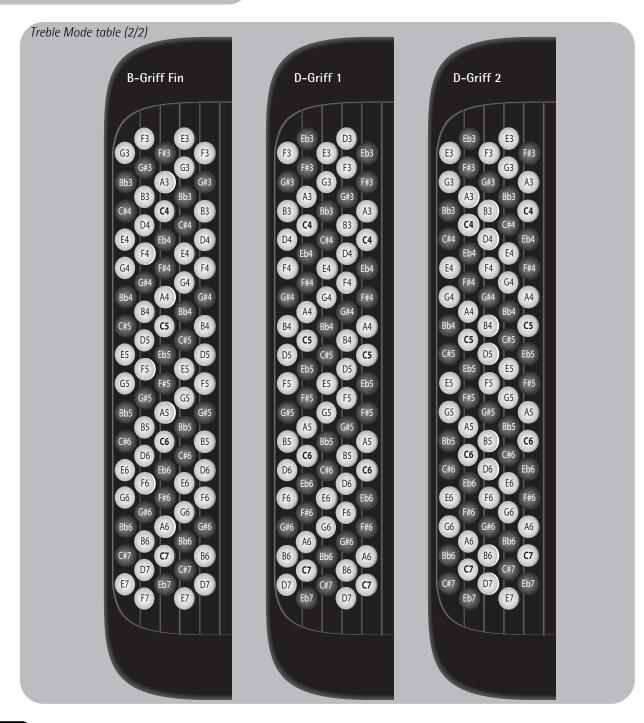


(3) Start playing.

(See the tables below for the locations of the notes.)







10. Restoring the factory defaults

You can reset the FR-2/FR-2b to its factory settings, which means that your own settings (including the User Programs) are replaced by the settings the FR-2/FR-2b contained when you first got it. We recommend using this function as sparsely as possible: your own settings cannot be archived externally, and there is no way to restore them after initializing the FR-2/FR-2b.

- (1) Switch off the FR-2/FR-2b by turning the VOLUME (1) knob all the way to the left ("POWER OFF").
- Hold down SET and Treble register (a) while switching the FR-2/ FR-2b back on.
 When all settings have been initialized, all Treble registers briefly flash in red.
 The FR-2/FR-2b now again sounds and behaves like when you first bought it.



6

11. Using optional batteries

Your FR-2/FR-2b has a compartment that contains a special holder unit into which you can install 8 optional AA-type batteries. You can therefore play your instrument without connecting the supplied adaptor.

Installing and removing batteries

The FR-2/FR-2b provides a battery compartment with a special holder unit into which 8 AA-type (R6) batteries can be installed.

By pressing \underline{SET} + register $\underline{\exists}$ (BATT), you can check the battery status. If all registers (the green and red ones) are lit, the batteries are fully charged. If only the red registers light, the remaining battery life is about 1 hour. (You may need to hold down \underline{SET} to check the battery status). If the \underline{PAD} button and only the last two ORCHESTRA registers light during this operation, the FR-2/FR-2b is powered by the supplied adaptor. If the \underline{REC} button lights, the batteries are used to power the FR-2/FR-2b.

Note: Please see page 6 for notes on battery handing.

- (1) Switch off the FR-2/FR-2b.
- (2) Remove the cover from the FR-2/FR-2b's battery compartment by pressing the two tabs and lifting the cover.



You should now see a tab that allows you to remove the battery case:



(3) Use the tab to pull the battery case out of the compartment.

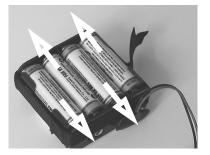


The battery case is connected to the FR-2/FR-2b by means of a cable with a padded connector strip. You can disconnect the cable from the battery case by pulling off the padded connector strip.



Note that this is unnecessary if you manage to install (or remove) the batteries without disconnecting the strip.

(4) Insert 8 AA-type (R6) batteries into the compartment (4 on either side), taking care to orient them in accordance with the "+" and "-" indications.



- (5) Insert the case with the 8 batteries into the compartment.
- (6) Close the FR-2/FR-2b'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.

12. Specifications

Keyboards

Right hand:	FR-2	34 piano-type keys, velocity sensi- tive (starting at a G key)
	FR-2b	82 buttons, velocity sensitive
Left hand:	FR-2/FR-2b	96 velocity-sensitive bass buttons

Bellows

Real pneumatic detection of bellows pressure (high-resolution pressure sensor)

Bellows resistance regulator

Sound source

Max polyphony: 64 voices Wave ROM: 16MB of waveforms Tones: 8 accordion Sets, each including: 10 Treble registers, 5 Bass registers, 5 Orchestra Bass registers, 5 Orchestra Chord registers, 6 Orchestra sounds Treble reed footages: 4 Bass reed footages: 5 Chord reed footages: 3

PBM (Physical Behavior Modeling)

Noises: stopping-reed growl, closing valve noise, left button noise Individual reed simulation: hysteresis threshold, Expression curve, pressure-variant filter, pressure-variant pitch deviation Reed sound wave switching: by bellows acceleration, by note repetition speed

Musette tuning

Micro tuning presets: 15 (Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish)

Effects

Reverb: 8 types, Chorus: 8 types

Panel controls

Knob: VOLUME/POWER

Registers: 5x Treble + 3x Orchestra, Set, 5x Bass Buttons: ORCH BASS, ORCH CHORD, LEFT REGISTER, PAD/ DEFAULT, REC/LOOP, SONG/DEMO, USER PROG/DEC, METRO-NOME/INC

Operation modes

Bass & Chord modes: 2 Bs Rows, 3 Bs Rows A-7th, 3 Bs Rows A-5dim, 3 Bs Rows B-7th, 3 Bs Rows B-5dim, 3 Bs Rows Bx Treble modes (FR-2b): C-Griff Europe, C-Griff 2, B-Griff Bajan, B-Griff Fin, D-Griff 1, D-Griff 2

Octave: Down (–), 0, Up (+) (for Treble and Orchestra) *PAD*: 8 drum/percussion sets, phrase recording function *SONG function*: 8 preset songs with selectable mute function for left- or right-hand part

Power supply

Supplied external adaptor or optional batteries

■ Power consumption 500mA

■ Expected battery life under continuous use: Ni-MH 2500mAh ±5 hours

This varies depending on the actual conditions of use. **Note:** Carbon and alkaline batteries should not be used.

Others

Connectors: HEADPHONE socket (stereo), OUTPUT sockets (stereo), MIDI socket (Out/In function adjustable via FUNCTION parameter)

Power supply: external AC adaptor (100~240V, universal) Dimensions (mm):

FR-2:	425.5 (H) x 471.5 (W) x 244.3 (D) mm
FR-2b:	388.4 (H) x 471.5 (W) x 247.2 (D) mm

Weight (without straps or optional batteries):

FR-2:	7.5kg
FR-2b:	7.5kg

Supplied accessories

External AC adaptor Owner's Manual Reference caps for the treble buttons (FR-2b) Straps Battery holder (pre-installed in compartment) Replaceable "traforo" covers: 6

Options

Accordion soft bag AA-type batteries (8) from third-party suppliers

Note: In the interest of product improvement, the specifications and/ or appearance of this unit are subject to change without prior notice.

13. Appendix

Demo Songs

#	SONG TITLE*	PERFORMED BY
01	Birdy Waltz	Ludovic Beier
02	Bal Musette	Ludovic Beier
03	Swingin' The Blues	Ludovic Beier
04	Forro de Janeiro	Ludovic Beier
05	Tango Dancers	Ludovic Beier
06	Eastern Wind	Ludovic Beier
07	Sax On The Phone	Ludovic Beier
08	Bossagroove 1	Marko Räsänen
09	Aada	Marko Räsänen
10	Bandofunk	Marko Räsänen
11	lida	Marko Räsänen
12	Finnish Waltz	Marko Räsänen
13	Hot And Brisk	Petri Ikkelä
14	Bezaubernder Sinaklia	Sergio Scappini
15	0 Sole Mi (Traditional)	Sergio Scappini
16	Edelweiss	Sergio Scappini

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PAD Sets

Set [🛛 (Folk) 0–4–8*	Note no.	Set [5 (Pop) 0–4–4	Note
1	Snare Ghost	39	1	Pop Stick	37
2	Snare	38	2	Snare	38
	Tambourine	54			
3	Bass Drum	36	3	Bass Drum	36
	HiHat	42			
4	Conga Op	63	4	HiHat Closed	42
5	Conga Slap	62	5	HiHat Open	46
Set 💈	2] (Jazz) 0–4–44	Note no.	Set [6 (Orchestra) 0–4–49	Note
1	Bass Drum	36	1	Snare Roll	25
2	Jazz Snare	38	2	Concert Snare/	38
	Pedal HiHat	32		OpenTriangl	81
3	Ride Cymbal	59	3	Concert BD	36
4	Tom Hi	47	4	Concert Cym.	59
5	Tom Lo	43	5	Timpani	41
Set 🗄	3 (Tarantel) 0–4–8	Note no.	Set [7 (TR-909) 0-4-31	Note
1	Tamorra 3	4	1	Techno Kick	35
2	Tamorra 1	2	2	TR-909 Snare	40
				909 Clap	39
3	Tamorra 2	3	3	TR-909 Kick/	36
				Tambourine	54
4	Conga Op	63	4	909 Tom Op	50
5	Conga Slap	62	5	909 Tom Lo	47
Set [4] (Latin) 0–4–8	Note no.	Set [8 (Ethnic) 0-4-50	Note
1	Pandeiro 4	13	1	Big Gong	45
2	Pandeiro 5	14	2	Udo Long	52
				Tabla Na	58
3	Pandeiro 3	12	3	Req Dum	55
	Bass Drum	36		Timl Paila	68
4	Hi Bongo	60	4	Conga Slide	78
5	Lo Bongo	61	5	Mut Pandeiro	79

[*] Drum Kit address. First digit= CC00, second digit= CC32, third digit= PC

MIDI Program change messages

			linessages	
BANK SELECT MSB CC00 LSB CC 32		PROGRAM CHANGE	SECTION	
			M CHANGE TX	
0		1~10	Treble Register	
0	0	1~5	Bass Register	
0	0	1~5	Orch Bass Register	
0	0	1~5	Orch Chord Register	
0	0	1~6	Orchestra Register	
0	0	1~8	Set	
0	-	LE REGISTER		
		1	Bassoon 😨	
	_	2	Bandon 😱	
_		3	Clarinet	
_		4	Oboe (#)	
_		5	Master (
	_	6	Harmon (
_	_	7	Musette 💭	
	_	8	Celeste	
_	_	9	Piccolo	
		10	Organ	
	ORCHES	STRA REGIST		
		1	String	
		2	Violin	
		3	Clarinet	
		4	Sax	
		5	Flute	
_				
		S REGISTER	Organ	
	DAO	1 1	2'	
		2	4' 🖳	
		3	16'/8'/8-4'/4'/2'	
		4	8'/4'/2'	
		5	16'/2'	
		ASS REGIST		
	OKCITE	1	Acoustic	
_		2	Bowed	
		2	Fingered	
		4	Fretless	
_		4 5	Tuba Mix	
_		HORD REGIS		
		10KD KEGIS	St. Strings	
		2	Chorus Organ	
		2	Steel Guitar	
_				
_	_	4	St. Orch Brass	
_		5	Choir	
		SET RX		
		1	CLASSIC	
_		2	JAZZ	
_		3	I FOLK	
_		4 D FOLK		
-		5	F FOLK	
		6	SP FOLK	
_	_	7	BANDONEON	
_	_	8	ALPINE	

MIDI Implementation Chart

[V-Accordion] Model: FR-2/FR-2b Date: July 2007 Version: 1.00

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1~16 1~16, Off	1~16 1~16, Off	7 Parts: 1= Treble, 2= Bass, 3= Chord, 4= Orchestra, 5= Orchestra Bass, 6= Orchestra Chord, 10= Pad, 1 Logical part: 13= Basic MIDI Channel for SET change
Mode	Default Message Altered	Mode 3	Mode 3	
Note Number	True Voice	0~127 *****	0~127 0~127	
Velocity	Note ON Note OFF	0 0	0 0	
After Touch	Key's Ch's	X X	X X	
Pitch Bend		Х	X	
Control Change	00,32 07 10 11 64 91 93	O X X O *1 X X X	O X X O X X X X	Bank Select Volume Panpot Expression Hold 1 Reverb Send Chorus Send
Program Change	True #	O 0~127	O 0~9	Recognized: 1~10: 1-6: Treble Registers 1-5 Bass registrs 1-5 Orchestra Bass 1-5 Orchestra Chord 1-6 Orchestra 1-8 Set
System Exclu	usive	0	0	
System Common	Song Position Pointer Song Sel Tune	x x x	X X X	
System Real Time	Clock Commands	X X	X X	
Aux Messages	All Sounds Off Reset All Controllers Local On/Off All Notes Off Active Sense Reset	X X X X O X	X X X X O X	
Notes		*1 O X is selectable *2 Recognized as M=1 even if M≠1		
Mode 1: OM	NI ON, POLY NI OFF, POLY	Mode 2: OMNI ON, MON Mode 4: OMNI OFF, MON		O: Yes X: No

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14. Information

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