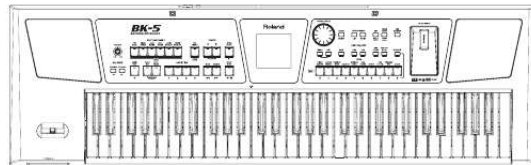




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND BK-5. You'll find the answers to all your questions on the ROLAND BK-5 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ROLAND BK-5**  
**User guide ROLAND BK-5**  
**Operating instructions ROLAND BK-5**  
**Instructions for use ROLAND BK-5**  
**Instruction manual ROLAND BK-5**



**BK-5**  
BACKING KEYBOARD  
Owner's Manual

**Roland**



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**Manual abstract:**

-- Increase the separation between the equipment and receiver. -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -- Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Unauthorized changes or modification to this system can void the users authority to operate this equipment. @@US (Proposition 65) 65) For C.A. @@@@ Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug. For the USA For the USA DECLARATION OF CONFORMITY Compliance Information Statement BK-5 Backing Keyboard r ENGLISH Owner's

Manual ENGLISH Thank you and congratulations on your choice of the Roland BK-5 Backing Keyboard.

To ensure that you obtain the maximum enjoyment and take full advantage of the BK-5's functionality, please read this owner's manual carefully. About this manual You should first read the chapter "Before you start using the BK-5" on p. 16. It explains how to connect the AC adaptor and turn on the power. This

Owner's Manual explains everything, from the BK-5's basic operations to more advanced functions.

ENGLISH Conventions in this manual . . . . In order to explain the operations as clearly as possible, this manual uses the following conventions: Text enclosed in square brackets [ ] indicates the name of a button or knob. Example: the [MENU] button. Paragraphs that begin with "NOTE" are cautionary statements that you must read. Paragraphs that begin with "MEMO" contain useful information that may come in handy. The numbers of pages that you can turn to for additional or related information are given like this: (p.

\*\*). The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., include newer sounds), so what you actually see in the display may not always match what appears in the manual. Before using this instrument, carefully read "Using the unit safely" on p. 4 and "Important notes" on p. 6. Those sections provide information concerning the proper operation of the BK-5. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, the manual should be read in its entirety.

The manual should be saved and kept on hand as a convenient reference. ENGLISH Copyright © 2011 ROLAND EUROPE. All rights reserved. No part of this publication may be reproduced in any form without the written permission of Roland Europe S.p.a. Roland and GS are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries. Backing Keyboard BK-5 Using the unit safely Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. \* Material damage refers other adverse effects respect to the home furnishings, as well animals or pets. to damage or caused with and all its to domestic The symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger. The symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle.

In the case of the symbol at left, it means that the unit must never be disassembled. The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the powercord plug must be unplugged from the outlet. · Do not open (or modify in any way) the unit or its AC adaptor.

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..... · Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. · This unit, in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss.

Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist. ....

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..... · Never allow foreign objects (e.g.

, flammable material, coins, pins) or liquids (e.g., water or juice) to enter this unit. Doing so may cause short circuits, faulty operation, or other malfunctions.

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· Never install the unit in any of the following locations. · Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are · Damp (e.g., baths, washrooms, on wet floors); or are · Exposed to steam or smoke; or are · Subject to salt exposure; or are · Humid; or are · Exposed to rain; or are · Dusty or sandy; or are · Subject to high levels of vibration and shakiness. ...

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... · Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when: · The AC adaptor, the power-supply cord, or the plug has been damaged; or · If smoke or unusual odor occurs · Objects have fallen into, or liquid has been spilled onto the unit; or · The unit has been exposed to rain (or otherwise has become wet); or · The unit does not appear to operate normally or exhibits a marked change in performance. ....

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

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

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*..... · In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.*



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

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· Protect the unit from strong impact. (Do not drop it!) ....

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... · Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards! .....

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

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· 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 unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire. .

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..... · Using the BK-5 near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this instrument or move it further away from the source of interference. · This device may interfere with radio and television reception. Do not use it in the vicinity of such receivers.

· Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off. · Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law. · Do not use this unit for purposes that could infringe on a copyright held by a third party. Roland assumes no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

About audio files · Audio files in the following formats can be played back: · WAV format · 16-bit linear · Sampling rate of 44.1kHz · Stereo/mono · mp3 files: · MPEG-1 Audio Layer 3 · Sampling frequency: 8/11.025/12/16/22.05/24/32/44.1/48kHz · Bit rate: 32/40/48/56/64/80/96/112/128/160/192/224/256/ 320kbps, VBR (variable bit rate) Supported Standard MIDI Files · Format 0/1 · . . . . Company names and product names mentioned in this document are trademarks or registered trademarks of their respective owners. MPEG Layer-3 audio compression technology is licensed from Fraunhofer IIS Corporation and THOMSON Multimedia Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. Copyright © 2003 by Bitstream, Inc.

All rights reserved. Bitstream Vera is a trademark of Bitstream, Inc. MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL group. 7 Backing Keyboard BK-5 Features 2.

Features The BK-5 is a professional keyboard designed to provide everything the entertaining artist and serious amateur musician needs on stage, in the studio, or at home. All-in-one arranger instrument The BK-5 is a superb instrument that uses Roland's latest technology for professional-grade sounds and 128 notes of polyphony. Performance List function This function allows you to save nearly all of the BK-5's settings for each song and/or rhythm you will be using during your performances. The list that contains these settings can be saved to a USB memory and loaded from there whenever the need arises. High-quality rhythms Your BK-5 comes loaded with over 300 stunning accompaniments ("rhythms") that cover a variety of musical genres for various geographic areas (including Eastern Europe, Latin-America and Asia). Each rhythm comprises 4 intros, 4 main accompaniments, 4 endings, 3 "Up" and 3 "Down" fills. Possibility to create new rhythms and to edit existing ones The Rhythm Composer function allows you to create new rhythms and to edit (i.e. change) existing ones, and then save them as "User Rhythms" to a USB memory. Four suitable settings for each rhythm (One Touch) For each rhythm, the Roland team has prepared four sets of suitable tones, effects and other settings that can be loaded for the realtime parts (One Touch function).

Multi-effects for rhythms or Standard MIDI files and real-time parts With a view to obtaining the highest possible sound quality, the BK-5 contains two dedicated multieffects processors (MFX A and B) for the Standard MIDI Files and rhythms you play back. In addition, there is one MFX processor for the

*real-time parts (Upper 1, Upper 2, Lower). USB-based Standard MIDI Files and rhythm player The BK-5 plays Standard MIDI Files and rhythms directly from a connected USB memory. Composite Video Out The BK-5's VIDEO OUTPUT socket can be connected to an external screen, allowing your audience or fellow musicians to follow the lyrics and chord symbols (only SMF files) of the songs you perform. You can also view digital pictures in the .jpg format you took yourself. USB-based audio player and audio recorder The BK-5 contains an audio player function that allows you to play back mp3 and WAV files directly from a connected USB memory. The BK-5 also allows you to record your performances. The resulting WAV files (audio) can be played back on the BK-5 itself.*



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16 NTA parts (Note-to-Arranger) The BK-5 provides up to 16 MIDI parts dedicated to Arranger control via MIDI ("Note-to-Arranger").

Three real-time parts The BK-5 comes with three MIDI parts (Upper 1, Upper 2, Lower) that can be played in real time. 16 Song parts The BK-5 also provides 16 Song parts, which are used for Standard MIDI File playback but can also be controlled via MIDI (a computer connected to the MIDI IN socket or the COMPUTER USB port). This allows you to use the BK-5 as a 16-part multi-timbral MIDI tone generator. r 8 Song and Rhythm Makeup Tools for Standard MIDI Files and rhythms These tools allow you to modify songs in no time without knowing the MIDI commands normally used to perform such changes.

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Panel description Front panel C D E F G H I JK L MN O A B A Pitch Bend/Modulation lever You can raise or lower the pitch by moving this lever to the left or right. Push the lever away from yourself to apply modulation (normally vibrato) to the sound. PHONES 1 & 2 sockets This is where you can connect one or two pairs of optional headphones (Roland RH-series). Doing so switches off the internal speakers. VOLUME knob Use this knob to set the BK-5's global output volume (all signals transmitted to the speakers and OUTPUT sockets). The setting of this knob also determines the volume in the headphones you may connect. RHYTHM FAMILY buttons These buttons are used to select the family of the next rhythm you want to use. Pressing one of these buttons calls up a list of all rhythms contained in the selected family. Pressing and holding this button locks the currently selected rhythm (see p. 54).

TAP TEMPO button Pressing this button several times allows you to change the current rhythm's or song's tempo to the value calculated from the speed at which the button is pressed. Pressing and holding this button locks the current tempo setting (see p. 54). F TEMPO buttons These buttons can be used to decrease or increase the tempo of the currently selected rhythm or song. Pressing them together recalls the rhythm's or song's stored tempo value. NOTE B C You can also use the [TAP TEMPO] button E to set the desired tempo. G SYNC START button This button is used to activate or switch off the BK-5's Sync Start or Sync Stop function. If it is on, rhythm playback can be started or stopped by simply playing a note or chord on the keyboard. See also page 27. While a song file is selected, this button stops playback.

D H BALANCE buttons These buttons allow you to set the balance between the rhythms and songs (BACKING) and the real-time parts (PART). E 11 Backing Keyboard BK-5 Panel description I AUDIO REC button This button is used to start audio recording of your performance. This function records everything the BK-5 transmits to its OUTPUT sockets (audio signals you play back and audio versions of the MIDI parts you control). See page 52. This button is also used to select the Rhythm Composer function (see p.

81). J BASS INV button This button is used to switch the Bass Inversion function on and off (page 29). K AUTO FILL IN button This button is used to activate

the Auto Fill-In function, which causes a transition to be played before selecting the new rhythm variation (which is selected with the VARIATION buttons). L VARIATION 1/2/3/4 buttons These buttons are used to select a rhythm "Variation", i.e. a simpler or more complex arrangement of the selected rhythm. M INTRO button When you activate this button, rhythm playback starts with a musical introduction whose complexity depends on which VARIATION button currently lights (there are four different introductions per rhythm). After selecting a song file, this button allows you to rewind. NOTE You can also press this button during rhythm playback. N ENDING button When you activate this button, rhythm playback stops with a musical ending whose complexity depends on which VARIATION button currently lights (there are four different ending phrases per rhythm). After selecting a song file, this button allows you to fast-forward. O START/STOP button This button allows you to start and stop rhythm playback. If you select a song, it starts and temporarily stops (pause) song playback. Q R a ST b UV cd W X e Y P Z f P Display S PERFORMANCE LIST button This button calls up the Performance List (page 45). T PERFORMANCE WRITE button The main function of this button is to save Performance settings.

Depending on the selected display page, it can also be used to save rhythms and songs. U KEY button This button calls up the BK-5's transposition function. Its settings can be applied to rhythms, Songs and the 3 real-time parts (UPI, UP2, LWR). r This display shows information related to your operation.



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**Q CURSOR/VALUE dial** This dial can be used to move the cursor in the display, to select parameters and to set values. **R ENTER/SELECT button** Press this button to confirm your selection or deselection of the display item where the cursor is. **12 Backing Keyboard BK-5 r Front panel** If the button's indicator doesn't light, the rhythm, Songs and the 3 real-time parts use their normal pitch. Pressing and holding this button locks the key (see p. 54). **V TRACK MUTE/CENTER CANCEL button** This button lets you mute the accompaniment parts of the selected rhythm, so that only the bass and drum parts are played back.

It also lets you mute the melody part of the selected MIDI File, or attenuate the vocal part at the center of an audio file (WAV or mp3), allowing you to sing or play that part yourself. Pressing and holding this button calls up a display page where you can select the Standard MIDI File or rhythm part(s) that you don't want to hear. **W USB MEMORY button** Press this button to call up a list of the files stored on the USB memory connected to the BK-5's USB MEMORY port. **X USB MEMORY port** Connect an optional USB memory here. Note: Roland does not recommend using USB hubs, irrespective of whether they are active or passive.

Please connect only one USB memory to this port. **NOTE d MELODY INTELL button** This button is used to add an automatic countermelody (second or third voice) to your solos or melodies. Pressing and holding it calls up a display page where you can view the "Melody Intelligent" parameter. **e NUMERIC button** Press this button if you want to use the TONE buttons **f** to enter numeric values (see p. 25).

**f TONE buttons (Tone selection)/[0]~[9] (numeric buttons)** These buttons allow you to select Tones by category (page 24). You can also use them to input numeric values. To do so, first activate the NUMERIC button **e**. Pressing and holding any of these buttons locks the Tone (page 54). Use USB memory sold by Roland. We cannot guarantee operation if any other USB memory is used. **Y MENU button** This button allows you to open the BK-5's menu page where you can view and select all available functions. Press it together with the [EXIT] button to listen to the BK-5's demo songs. **Z EXIT button** This button is used to return to a higher menu level. Press and hold it to return to the BK-5's main display page.

**a SPLIT button** This button is used to activate Split mode. While its indicator lights, notes played to the left of the C4 on a keyboard trigger the LWR part. Notes to the right of the split point, on the other hand, trigger the UP1 and UP2 parts. See "Using Split mode" on p. 43. **b PART LWR and UP2 buttons** These buttons are used to switch the real-time parts (Lower and Upper2) on and off. **NOTE** The Upper1 part (UP1) is always active and cannot be switched off. **c ONE TOUCH button** This button is used to enable the recall of One Touch memories. Pressing and holding it calls up a display page where you can edit and save One Touch memories. **NOTE** Use the TONE buttons [1]~[4] to select or deselect a One Touch memory (see p.

31). **13 Backing Keyboard BK-5 Panel description** Rear panel **A B C DEF G HI A USB COMPUTER port** Use a USB cable to connect the BK-5 to your computer via this connector (page 17). **B AUDIO INPUT (STEREO) mini jack** This mini jack allows you to connect the audio outputs of an external signal source (CD/mp3 player, synthesizer, etc.). **C AUDIO OUTPUT R & L/MONO sockets** These sockets transmit all audio signals the BK-5 generates as well as the signals you input to the BK-5.

**NOTE E PEDAL HOLD socket** An optional Roland DP-series or BOSS FS-5U footswitch connected to this socket can be used to hold the notes of the real-time parts. (The MELODY INTELL part can also be sustained in this way.) This function is also referred to as "sustain" or "damper". **F PEDAL SWITCH/EXPRESSION socket** Connect a separately available pedal switch (Roland DP-series), a separately available foot switch (BOSS FS-5U) or a separately available expression pedal (Roland EV-5) to this jack (page 18). **G MIDI IN & OUT sockets** You can connect MIDI devices to these sockets (page 17).

If you can/want to use only one channel on your external amplifier, connect the L/MONO socket to its input. For optimum sound quality, we recommend working in stereo, though. **H POWER switch** Turns the power on/off (page 20). With the factory settings, the BK-5's power will automatically be switched off 30 minutes after you stop playing or operating the BK-5. If the BK-5's power has been turned off automatically, you can use the [POWER] switch to turn the BK-5 back on. If you don't want the power to turn off automatically, set the "Auto Off" parameter to "OFF" (page 69). **I DC IN socket** Connect the supplied PSB-7U AC adapter here (page 16). **D VIDEO OUTPUT socket** Connect this socket to the appropriate input of your TV or external display. **NOTE** The signal format (PAL or NTSC) and aspect ratio are selectable (page 67). **r 14 Backing Keyboard BK-5 r Shortcut list 4.**

**Shortcut list** Pressing and holding the following buttons (or button combinations) allows you to directly jump to a related parameter page, which is faster than selecting the page in question via the BK-5's menu. Some of these buttons activate a lock function (page 54). Press and hold **RHYTHM FAMILY** buttons **Function** Locks the rhythm to keep it from changing when you select another Performance memory. Locks the tempo setting to keep it from changing when you select another Performance memory. After activating record standby mode (the indicator flashes), pressing and holding this button will cancel that mode (use it if you don't want to record after all). Locks the key setting to keep it from changing when you select another Performance memory. Opens the "Rhythm Track Mute" or "Song Track Mute" page. Opens the display page that shows which Tone is currently selected for the Lower part. Opens the display page that shows which Tone is currently selected for the Upper2 part. Simultaneously pressing the [LWR] and [UP2] buttons (without holding them) opens the display page where you can set the volume of the Upper1, Upper2 and Lower parts.

Opens the "One Touch Edit" page. Opens the "Melody Intelligence" page. In some cases, this opens the "Help" page. Locks the Tone to keep it from changing when you select another Performance memory. Opens the "Split" page.

Pressing and holding this button takes you back to the main page, no matter where you currently are. **TONE buttons** **15 Backing Keyboard BK-5** Before you start using the BK-5. Before you start using the BK-5 **Connecting the AC adaptor** 1. 2. Turn the [VOLUME] knob all the way to the left to minimize the volume.

Connect the included power cord to the AC adapter. The indicator will light once you plug the AC adaptor into a wall outlet.



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AC adapter Power cord Connecting the BK-5 to an amplifier, mixer, etc. The BK-5 contains speakers and therefore doesn't need to be connected to an external amplifier. You can, however, connect the BK-5's OUTPUT sockets to an external amplifier (Roland KC-series) or the audio inputs of an external instrument (digital piano, etc.). NOTE To an AC outlet Indicator To prevent malfunction and equipment failure, always turn down the volume and turn off all units before making any connections. Place the AC adapter so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. NOTE 1. 2.

3. Depending on your region, the included power cord may differ from the one shown above. Turn the [VOLUME] knob all the way to the left to minimize the volume. Switch off all devices. Connect the BK-5's OUTPUT jacks to the inputs of your external device. Connecting the BK-5 to an amplifier 3. Connect the AC adaptor to the BK-5's DC IN jack. BK-5's rear panel INPUT L + R 4. Plug the power cord into a power outlet. The indicator will light once you plug the AC adaptor into a wall outlet NOTE OUTPUT R + L/MONO Be sure to use only the AC adaptor supplied with the unit (PSB-7U).

Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock. NOTE For the connection to an amplifier, please choose unbalanced (mono) cables with 1/4" plugs at one end (for the BK-5). The connectors at the other end need to match the input sockets of the device to which you are connecting the BK-5. NOTE If you won't be using the BK-5 for an extended period of time, disconnect the power cord from the electrical outlet.

r When connection cables with resistors are used, the volume level of equipment connected to the audio inputs may be low. If this happens, use connection cables that do not contain resistors. 16 Backing Keyboard BK-5 r Connecting a MIDI device Connecting a MIDI device The BK-5 can transmit and receive performance data when connected to an external MIDI device, which enables the two devices to control each other's performance. For example, one device can play or switch sounds on the other device: MIDI stands for "Musical Instrument Digital Interface." It is a universal standard for exchanging musical performance data among electronic musical instruments and computers.

The BK-5's MIDI connectors allow it to transmit performance data to, and receive such data from other devices. You can use the BK-5 in a wide range of ways by connecting external devices to these connectors. Connecting the BK-5 to your computer If you use a USB cable (commercially available) to connect the COMPUTER port located on the BK-5's rear panel to the USB port of your computer, you'll be able to do the following things. · Use the BK-5 as a sound module. · By transferring MIDI data between the BK-5 and your sequencer software, you'll be able to enjoy a wide range of possibilities for music production and editing. 1. Connection example Before making connections with other devices, you must turn down the volume of all devices and turn off the power to avoid malfunctions or speaker damage. Playing the BK-5's sounds from your MIDI sequencer Use a standard USB cable (AB-type connectors, commercially available) to connect the BK-5 to your computer as shown below. USB cable Computer USB port BK-5 MIDI sound module/ sequencer Using the BK-5 to play your MIDI sound module 2. Refer to the Roland website for system requirements.

Roland website: <http://www.roland.com/> As an alternative, you can connect the BK-5's MIDI OUT and MIDI IN sockets to a MIDI interface and connect the latter to your computer. NOTE Certain instruments, like an FR-3x V-Accordion, only have one MIDI socket whose function (IN or OUT) needs to be set with one of its MIDI parameters. To control the BK-5 from such an instrument, you need to set the latter to transmit MIDI messages (OUT). If the computer doesn't 'see' the BK-5 Normally, you don't need to install a driver in order to connect the BK-5 to your computer. However, if some problem occurs, or if the performance is poor, using the Roland original driver may solve the problem. For details on downloading and installing the Roland original driver, refer to the Roland website: <http://www.roland.com/> Specify the USB driver you want to use, and then install the driver.

For details, refer to "USB Driver" on p. 69. Caution · To avoid the risk of malfunction and/or damage to external speakers, always turn the volume all the way down and switch off the power on all devices before you make any connections. · Only MIDI data can be transmitted and received via USB. Audio data for a song recorded on the BK-5 cannot be transmitted or received.

· Switch on the power to the BK-5 before you start up the MIDI application on your computer. Never turn the BK-5's power on/off while your MIDI application is running. MIDI channels MIDI provides sixteen channels, numbered 1~16. Even if two MIDI devices are connected, you won't be able to select or play sounds on the other device unless both devices are set to the same MIDI channel. The BK-5 is capable of receiving on all channels, 1~ 16.

17 Backing Keyboard BK-5 Before you start using the BK-5 Connecting a television set Video cable (Commercially available) Connecting an optional footswitch, hold pedal or expression pedal Footswitch or expression pedal, hold pedal The BK-5 provides a PEDAL SWITCH/EXPRESSION jack to which you can connect an optional footswitch (Roland DP-series or BOSS FS-5U) or an expression pedal (Roland EV-series). BK-5 rear panel Television VIDEO OUTPUT NOTE Before you make connections to other devices, you must turn down the volume of all devices and turn off their power to prevent malfunctions or damage to your speakers. Optional footswitch (Roland DP-series, BOSS FS-5U) 1. 2. 3. 4. 5. 6. Switch off the BK-5 and the television set you'll be connecting. Connect the BK-5 to your television set.

Use a video cable (commercially available) to connect the BK-5's VIDEO OUTPUT jack to the television set. Optional footswitch (Roland DP-series, BOSS FS-5U) --or-- Optional expression pedal (Roland EV-series) Switch on the BK-5 (see p. 20). Switch on your television set. (As necessary) Specify the television output format (see p. 67). Specify the aspect ratio for your television set. The aspect ratio is the proportional relationship between the width and height of the screen. See page 67. If you connect a footswitch, you can select the function it should perform (page 69).

By default, the footswitch will control the "Start/Stop" function.



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The BK-5 also provide a HOLD socket to which you can connect a damper pedal or footswitch (Roland DP-series or BOSS FS-5U) that allows you to hold (sustain) the notes of the real-time parts you play. NOTE Use only the specified expression pedal (Roland EV-series, sold separately) or pedal switch (Roland DP-series, BOSS FS-5U). By connecting any other expression pedal or footswitch, you risk causing malfunction and/or damage the unit. r 18 Backing Keyboard BK-5 r Connecting a portable audio player You can connect a portable audio player or any other line-level source to the AUDIO INPUT (STEREO) socket.

The input level of the audio source you connect can be set with the "Audio In Level" parameter on the MENU Global Utility page (page 68). · Use headphones fitted with a stereo 1/4" phone plug. Installing the music rest 1. Install the music rest as shown in the illustration. AUDIO OUT You can also attenuate the vocal or solo part at the center of the stereo image of the audio signals being received.

See "Audio In Center Canc" on p. 68. NOTE When moving the BK-5, be sure to remove the music rest as a safety precaution. NOTE Listening through headphones You can use headphones to enjoy the BK-5 without disturbing those around you, such as at night. Do not apply excessive force to the music rest. NOTE The music rest is not designed to accept the placement of laptops or other heavy objects. 1. Plug the headphones into the PHONES 1 or 2 socket located on the left side of the BK-5's front panel. Doing so switches off the BK-5's speakers. 2.

Use the BK-5's [VOLUME] knob to adjust the headphone volume. Cautions when using headphones · To prevent damage to the cord's internal conductors, avoid rough handling. When using headphones, mainly try to handle either the plug or the headset. · Your headphones may be damaged if the volume of a device is already turned up when you plug them in. Minimize the volume before you plug in the headphones. · Excessive input will not only damage your hearing, but may also strain the headphones. Please enjoy music at a reasonable volume. 19 Backing Keyboard BK-5 Before you start using the BK-5 Turning the power on/off 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. 4.

Use the [VOLUME] knob to adjust the volume. Turning the power off 1. Turn the [VOLUME] knob all the way to the left to minimize the volume. NOTE Turning the power on 1. Turn the [VOLUME] knob all the way to the left to minimize the volume.

Never switch off the BK-5 while playback or recording is running or while data are being read from, or written to, an external USB memory. 2. 3. Switch off your external amplification system if you are using one. Press the BK-5's [POWER] switch.

The display will go dark and the power will turn off. NOTE Before turning the BK-5 on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the BK-5 on/off. However, this is normal and does not indicate a malfunction. NOTE If you need to turn off the power completely, first turn off the [POWER] switch, then unplug the power cord from the power outlet. Refer to "Connecting the AC adaptor" on p. 16. 2. Press the [POWER] switch to turn on the power. Energy saving function NOTE The BK-5 has an Auto Off function, which automatically switches off the power after a certain amount of time has passed without any buttons being operated.

Shortly before the BK-5 shuts down automatically, the display starts counting down the seconds. If you want to keep using the BK-5 at this stage, press any button. You can also disable the "Auto Off" function. For more about the Auto Off function, refer to p. 69. When the BK-5 is turned off by the "Auto Off" function, the [POWER] button's position doesn't change, which means that you need to press it once, wait a few seconds, then press it again to switch the BK-5 back on. The power will turn on, an opening message will appear in the BK-5's screen, and then the main page will appear. After a brief interval, the BK-5 will be ready to produce sound. r 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.

3. Switch on your amplification system or connect a pair of headphones (see p. 19). 20 Backing Keyboard BK-5 r Demo of the BK-5 Demo of the BK-5 Your BK-5 contains a demo that introduces all of its highlights. It might be a good idea to try it out now.

The demo is self-explanatory, so we'll just show you how to start and stop it. NOTE You will need to connect an external display to take advantage of the BK-5's demo function. See "Connecting a television set" on p. 18. 1.

Simultaneously press the [MENU] and [EXIT] buttons. The BK-5 plays back a song and the external display introduces the BK-5's features. 2. Press the [EXIT] button to leave the demo function. NOTE No data for the music that is played back will be output from MIDI OUT. NOTE All rights reserved.

Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws. 21 Backing Keyboard BK-5 Basic operation of the BK-5 6. Basic operation of the BK-5 About the display and cursor operation This section introduces the information that appears on the main page in the BK-5's display and how to navigate the menu. The setting field of the selected parameter is displayed in reverse.

Main page Current measure or remaining time Selected file type: Rhythm, .SMF, .WAV, .mp3 Recording time Name of the last chord you played Real-time part field: UP1, UP2, LWR. The black field refers to the selected realtime part. Selected sounds Time signature Tempo setting or time stretching Current "Key" setting Name of the selected rhythm (or loaded file) One Touch memory indication Lock status of these parameters Octave settings of the real-time parts. In our example, we want to assign a different Tone to the Upper1 (UP1) part. 3. 4. Rotate the [CURSOR÷VALUE] dial to change the value.

Press the [ENTER/SELECT] button again to deselect the "UP1" field. The parameter's setting field once again appears on a white background and the [CURSOR÷VALUE] dial can once again be used to select another parameter. Moving the cursor and setting parameter values The display cursor can only be moved to the fields that contain numeric values. Moving between windows Here is how to navigate the menu to select the setting you want to change. 1. Rotate the dial to move the cursor to the parameter whose value you want to change.



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1. Press [MENU] button. The display changes to: 2. Press the [ENTER/SELECT] button to confirm your selection.

r This page allows you to select the function group that contains the setting you want to change. NOTE In some cases, the [MENU] button may recall a special edit menu window instead of a main menu page. 2. Rotate the [CURSOR÷VALUE] dial to select the entry of the desired function group. 22 Backing Keyboard BK-5 r Basic operation of the BK-5 For this example, we will select "Global". 3. Press the [ENTER/SELECT] button to go to the "Global" function group. The display changes to: On this display page, "Display Contrast", "Display Brightness" and "Tuning" can be changed directly. The remaining entries provide access to additional display pages. 4.

Try to select other "Menu" functions by proceeding as follows: (a) Press the [EXIT] button once to return to the "Menu" page. (b) Rotate the [CURSOR÷VALUE] dial to select an entry, then press the [ENTER/SELECT] button to go to the corresponding function group or setting. (c) Press and hold the [EXIT] button to return to the BK-5's main page. The [EXIT] button stops flashing. 23 Backing Keyboard BK-5 Playing the BK-5's real-time parts 7. Playing the BK-5's real-time parts Your BK-5 contains three real-time parts that can be controlled via MIDI: UP1, UP2 and LWR. Feel free to use only UP1 or to control all three simultaneously. You can assign the desired sounds (or "Tones") to each of these parts. See page 119 for a list of the available sounds.

Switching the UP2 and LWR parts on and off The UP1 part is always active.

The UP2 and LWR parts, however, can be switched on or off. 2. 3. 1. Press the [UP2] or [LWR] button to switch the corresponding part (Upper2 or Lower) on (indicator lights) or off (indicator goes dark).

If the Tone you need belongs to another family (see p. 119), press another Tone button. Rotate the [CURSOR÷VALUE] dial to select the desired Tone, then press the [ENTER/SELECT] button to confirm your selection. 4. If you switch on one of these parts, the cursor on the main page automatically jumps to the "UP2" or "LWR" field.

If [UP2] and [LWR] are both switched off, the cursor jumps to the "UP1" field. Press [EXIT] to leave the Tone selection page. NOTE You can only listen to

Tones for the Upper2 or Lower part if the [UP2] or [LWR] button lights. NOTE Tones can also be selected by simply pressing the [NUMERIC] key and entering their number. Selecting Tones for the real-time parts On the BK-5, the sounds you can assign to the real-time parts are called "Tones". The BK-5 allows you to assign any of the available Tones to any of the three real-time parts. Tone selection always applies to the part (UP1, UP2, or LWR) whose field is currently displayed in reverse. Tones can be selected in two ways: 1. Selecting a Tone on the main page If the main page is not displayed, press and hold the [EXIT] button until it appears. The numbers and names of the Tones assigned to the three real-time parts are displayed in the lower half of the display: 1.

Using the [UP2] or [LWR] button to select Tones Press and hold the [UP2] or [LWR] button. The display now shows a list of Tones where the currently selected sound is displayed in reverse: The highlighted numeric field refers to the part whose Tone assignment can be changed. To select a different part, move the cursor to its numeric field and press the [ENTER/SELECT] button. r 2. Rotate the [CURSOR÷VALUE] dial to select the desired numeric field, then press the [ENTER/SELECT] button. 24 Backing Keyboard BK-5 r Selecting Tones for the real-time parts The numeric field is displayed in reverse. Using the 'Numeric' function to select Tones, Rhythms and Performances The "Numeric" function can be used to enter the number of the Tone, Rhythm or Performance memory you want to use, which is faster than scrolling with the [CURSOR÷VALUE] dial. This function is automatically activated when you call up a display or mode where using it makes sense. Below please find an example that shows you how to use the "Numeric" function for selecting Tones. 3.

Rotate the dial to select the desired Tone. If necessary, use the TONE buttons to select a different family. NOTE For Tone selection, it would be a good idea to check on the main page which real-time part is currently selected to ensure that you don't select a Tone for the wrong part. To select a different Tone for the Upper2 or Lower part, you can simply press and hold the [UP2] and [LWR] button while using the following procedure. The display now shows a page similar to the following: In the following example, we will assign a different sound to the Upper1 part.

1. You can also use the "Numeric" function (see below) to select the desired Tone. In that case, you need to confirm your selection by pressing the BK-5 button. Pressing the same TONE button several times allows you to select the first sound of the various categories within that family ("NaturalPiano" "Vintage EPI" "Clav-1"..

.) Press the button of the Tone family that contains the Tone you want to select ([PIANO/E.PIANO], for example). 4. Press [EXIT] to leave the Tone selection page. The display returns to the main page where the name of the newly selected Tone is shown. On the main page, you can also use the "Numeric" function to select Tones. The procedure is as follows: Use the [CURSOR÷VALUE] dial to select the numeric field of the part you wish to assign a different Tone to. Press the [NUMERIC] button (a pop-up window is displayed).

Use the [0]~[9] button to enter the number of the Tone you want to use. Press the [ENTER/SELECT] button to confirm. NOTE NOTE By pressing and holding one of these buttons, you activate the lock function for Tone selection, which means that Tones no longer change when you select Performance memories (page 54). The display changes to: (a) (b) (c) (d) You can also select the BK-5's Tones via MIDI. Be aware, however, that if the BK-5 receives a sound select cluster (bank select + program change message) for which there is no Tone, the display shows "---" instead of a Tone name and the real-time part in question no longer sounds. 25 Backing Keyboard BK-5 Playing the BK-5's real-time parts 2. Press the [NUMERIC] button to open the following window: 2. Press and hold the [NUMERIC] button to call up a pop-up window. The TONE buttons light. (Tone selection window) (Rhythm selection window) 3.

Press the TONE buttons that correspond to the figures you want to enter ([0]~[9]). For Tones, you can enter up to 4 digits. To select Tone 6, for instance, simply pressing the [6] button is enough (the display will show "0006").



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NOTE 3. Press the [EXIT] button (or press [NUMERIC] again) to return to the previous page.

Using the 'Help' function Whenever the display shows a "? hold NUMERIC" message, the BK-5 can provide some explanations about the parameters currently shown in the display. To view this information, proceed as follows: If you make a mistake, the quickest way to correct it is by pressing the [0] button four times (to enter "0000") and then restarting. For Rhythms and Performance memories, up to 3 digits can be entered. NOTE If you try to enter more digits than possible for the current item, a warning is displayed ("Tone doesn't exist"). 4.

Press the [ENTER/SELECT] button to confirm your entry. The "Numeric" pop-up disappears and the display jumps to the Tone (and family) you selected. 5. Press the [EXIT] button to return to the main page. 1. Select a page where the above field is displayed, then press and hold the [NUMERIC] button. Checking a Tone's or rhythm's MIDI address Tones and rhythms can also be selected via MIDI. To this effect, they use an "internal" address, which is not usually displayed. For MIDI applications involving sequencers or external controllers, knowing the "official" address may come in handy. The BK-5 has a handy system that provides this information instantly--there is thus no need to look up the MIDI address in the tables at the end of this manual.

A pop-up window similar to the following appears: 1. Select the Tone or Rhythm whose MIDI address you need to know. r 2. (Tone selection window) (Rhythm selection window) Press the [EXIT] button (or press [NUMERIC] again) to close the "Help" window. 26 Backing Keyboard BK-5 r Rhythm functions 8. Rhythm functions The BK-5 contains a function that plays back automatic accompaniments called "rhythms". This section explains how to take advantage of the BK-5's accompaniments. Volume balance between the backing and the real-time parts If the rhythm accompaniment is too loud or too soft with respect to the real-time parts you are using, you can change the balance with the [BACKING] and [KEYBOARD] buttons: Using rhythms The "interactive" aspect about the rhythms is that you can change the key of the accompaniment simply by playing different notes or chords. Additionally, you can select different variations (more or less complex arrangements) for the active rhythm. The BK-5 provides several buttons for this.

START/STOP When the [BACKING] or [KEYBOARD] button is pressed, the "BALANCE" pop-up window appears, showing the current setting: This button is used to start and stop rhythm playback. While a rhythm is running, the button's indicator flashes red on the first beat of each bar, and green on the remaining beats. NOTE You can also start (and stop) rhythm playback simply by playing on the keyboard. See the next function. (The Start/ Stop function can also be assigned to an optional footswitch.

) After about 3 seconds, the pop-up window disappears again. SYNC START About the rhythms The BK-5 can generate interactive accompaniments based on the rhythm you select. Each rhythm is a typical accompaniment for a given musical genre. The BK-5 comes with over 300 internal rhythms divided over 6 families (see the RHYTHM FAMILY section on the front panel). The melodic accompaniment parts of the selected rhythms follow the chords you play on the keyboard.

This button activates and switches off the "Sync Start" or "Sync Start/Stop" function. Pressing it several times allows you to select one of the following options: Function Sync Start [SYNC START] Explanation indicator Lights red Rhythm playback can be started by playing a note or chord. Press [START/STOP] to stop rhythm playback. 27 Backing Keyboard BK-5 Rhythm functions Function Sync Start/ Stop [SYNC START] Explanation indicator INTRO Lights green Rhythm playback can be started by playing a note or chord. Playback will stop when you release all keys. Dark Rhythm playback needs to be started and stopped using the [START/STOP] button (or the assigned optional footswitch). -- VARIATION [1], [2], [3], [4] Selects an introduction, which is usually used at the beginning of a song. You can, however, also select this pattern for other song sections. The behavior of the Intro pattern depends on when you press the [INTRO] button: [INTRO] Pressed before starting rhythm playback Behavior The indicator lights. When you start rhythm playback, the Arranger first plays a musical introduction.

(This pattern is played back only once). The indicator flashes to signal that the INTRO pattern will begin on the next downbeat. When the intro is finished, the BK-5 returns to the previously selected VARIATION pattern. These buttons are used to select the complexity (number of parts) of the rhythm's arrangement: VARIATION Pressed during rhythm playback Explanation The simplest accompaniment pattern. A good choice for the first of the songs you play. A slightly more complex pattern you may want to use for subsequent verses. This pattern would be a good choice for the first chorus. This is the most complex arrangement. Consider selecting it for the bridge or the final chorus sections of a song. [1] [2] [3] [4] There are, in fact, four different INTRO patterns, that can be selected using the VARIATION [1], [2], [3] and [4] buttons.

Again, the VARIATION buttons determine the complexity of the intro arrangement. ENDING Note that the VARIATION patterns are repeated (played back in a loop) until select a different pattern or stop rhythm playback. This button allows you to end your songs with a suitable closing section if you don't want to simply stop playback. The behavior of the Ending pattern depends on when you press the [ENDING] button: r [ENDING] Pressed before starting rhythm playback Behavior The indicator lights. When you start rhythm playback, the Arranger plays a musical ending.

At the end of the phrase, playback stops. 28 Backing Keyboard BK-5 r Selecting rhythms [ENDING] Pressed during rhythm playback Behavior The indicator flashes to signal that the ENDING pattern will begin on the next downbeat. When the ending is finished, rhythm playback stops. Selecting rhythms 1. Press a RHYTHM FAMILY button to select the rhythm family.

There are four different ENDING patterns, that can be selected using the VARIATION [1], [2], [3] and [4] buttons. Again, the VARIATION buttons determine the complexity of the arrangement. NOTE BASS INV By pressing and holding one of these buttons, you activate the lock function for rhythm selection, which means that rhythms no longer change when you select Performance memories (see p. 54). The display shows a list of the rhythms that belong to this family. If the currently selected rhythms belongs to the family whose button you pressed, its name is displayed in reverse and the indicator of the button you pressed lights: This button is used to switch the "Bass Inversion" function on or off.



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