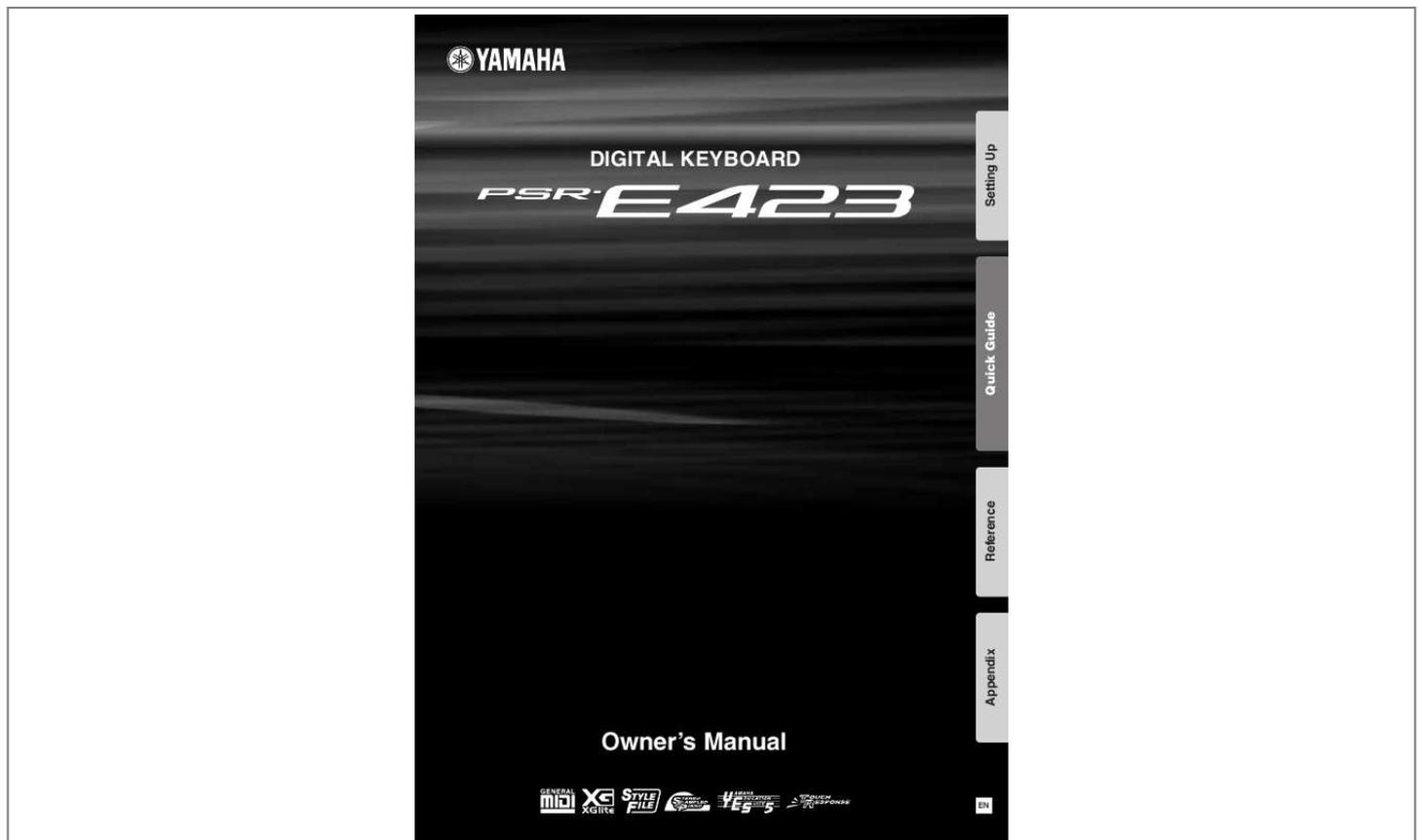




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA PSR-E423. You'll find the answers to all your questions on the YAMAHA PSR-E423 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA PSR-E423
User guide YAMAHA PSR-E423
Operating instructions YAMAHA PSR-E423
Instructions for use YAMAHA PSR-E423
Instruction manual YAMAHA PSR-E423



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Manual abstract:

For longer extension cords, consult a local electrician. This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product. Battery Notice: This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. @@@@This product may also use "household" type batteries. Some of these may be rechargeable. @@@@Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture. Warning: Do not attempt to disassemble, or incinerate any battery.

Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information. Disposal Notice: Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

SPECIFICATIONS SUBJECT TO CHANGE: The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units. This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods 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 consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs. Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended. **NAME PLATE LOCATION:** The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model NOTICE: Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service. Serial No. **ENVIRONMENTAL ISSUES:** Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following: Purchase Date 92-BP (bottom) **PLEASE KEEP THIS MANUAL FCC INFORMATION (U.S.A.) 1.**

IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements.

Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product. 2. **IMPORTANT:** When connecting this product to accessories and/ or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions.

Failure to follow instructions could void your FCC authorization to use this product in the USA. 3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does * This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON" please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s. In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable. If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620 The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries. (class B) 2 Owner's Manual **OBSERVERA!** Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den är ansluten till vägguttaget, även om själva apparaten har stängts av. Entsorgung leerer Batterien (nur innerhalb Deutschlands) Leisten Sie einen Beitrag zum Umweltschutz.

Verbrauchte Batterien oder Akkumulatoren dürfen nicht in den Hausmüll. Sie können bei einer Sammelstelle für Altbatterien bzw. Sondermüll abgegeben werden. Informieren Sie sich bei Ihrer Kommune. (battery) **ADVARSEL:** Netspændingen til dette apparat er IKKE afbrudt, så længe netledningen sidder i en stikkontakt, som er tændt -- også selvom der er slukket på apparatets afbryder. **VAROITUS:** Laitteen toisiopiiriin kytketty käyttökäytin ei irroita koko laitetta verkosta. (standby) The serial number of this product may be found on the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft. Model No. Serial No.

(bottom) **COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)** Responsible Party : Yamaha Corporation of America Address : 6600 Orangethorpe Ave.



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, Buena Park, Calif. 90620 Telephone : 714-522-9011 Type of Equipment : Digital Keyboard Model Name : PSR-E423 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. See user manual instructions if interference to radio reception is suspected.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (FCC DoC) Information for Users on Collection and Disposal of Old Equipment and used Batteries These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC. By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union] If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information. [Information on Disposal in other Countries outside the European Union] These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal. Note for the battery symbol (bottom two symbol examples): This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved. (weee_battery_eu_en) Owner's Manual 3 PRECAUTIONS PLEASE READ CAREFULLY BEFORE PROCEEDING * Please keep this manual in a safe place for future reference. WARNING Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, shortcircuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following: Power supply/AC power adaptor · Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it. · Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.

· Use the specified adaptor (page 86) only. Using the wrong adaptor can result in damage to the instrument or overheating. · Check the electric plug periodically and remove any dirt or dust which may have accumulated on it. Battery · Always replace all batteries at the same time. Do not use new batteries together with old ones. · Do not mix battery types, such as alkaline batteries with manganese batteries, or batteries from different makers, or different types of batteries from the same maker, since this can cause overheating, fire, or battery fluid leakage. · Do not tamper with or disassemble batteries. · Do not dispose of batteries in fire. · Do not attempt to recharge batteries that are not intended to be charged. · Keep batteries away from children.

· If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns. · Always make sure all batteries are inserted in conformity with the +/- polarity markings. Failure to do so might result in overheating, fire, or battery fluid leakage.

· When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument to prevent possible leakage of the battery fluid. Do not open · This instrument contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be lost or destroyed. Always turn the power off when the instrument is not in use.

Even when the [](Standby/On) switch is in the "Standby" position, electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet. Make sure to discard used batteries according to local regulations. NOTICE To avoid the possibility of damage to the product, data or other property, follow the notices below. Handling and Maintenance · Do not use the instrument in low-quality automatic accompaniment based on a wide range of chord types. 6 Owner's Manual About this Owner's Manual and Data List

This manual consists of four main sections: "Setting Up," "Quick Guide," "Reference," and "Appendix." Also, a separate "Data List" is provided. Owner's Manual (this book) Setting Up Quick Guide Reference Please read this section first. This section explains how to use the basic functions. Refer to this section while playing the instrument.

This section explains how to make detailed settings for the instrument's various functions. This section includes troubleshooting information and specifications. Appendix Data List Voice List, MIDI Data Format, etc. MIDI Reference The MIDI Reference section contains MIDI related information. The MIDI Reference is available for downloading from the Yamaha Manual Library at: <http://www.yamaha.co.jp/manual/> Included Accessories The package includes the following items. Please check that you have them all. · Owner's Manual · Music rest · Accessory CD-ROM · Data List · My Yamaha Product User Registration * The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.

Music Rest Insert the music rest into the slots as shown. Owner's Manual 7 Special Features Creating New Sounds Page 22 By adjusting just two knobs you can add varying degrees of distortion, "sweetness," or other characteristics to a sound to change it subtly or drastically.



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Parameters that can be assigned to the knobs include effect, filter, envelope generator and more. You can create new sounds in real time! Arpeggio Function Page 20 Similar to the arpeggio functions provided on some synthesizers, this function automatically produces arpeggios (broken chords) when you simply play the appropriate notes on the keyboard. A variety of arpeggios can be produced by changing your fingering or the arpeggio type.

Performance assistant technology Page 37 Play along with a song on the instrument's keyboard and produce a perfect performance every time ... even if you play wrong notes! All you have to do is play on the keyboard--alternately on the left- and right-hand ranges of the keyboard, for example--and you'll sound like a pro as long as you play in time with the music. Play a Variety of Instrument Voices Page 16 The instrument voice that sounds when you play the keyboard can be changed to violin, flute, harp, or any of an extensive range of voices.

You can change the mood of a song written for piano, for example, by using violin to play it instead. Experience a whole new world of musical variety. Play Along with Styles Page 27 Want to play with full accompaniment? Try the auto-accompaniment Styles. The accompaniment styles provide the equivalent of a full backing band covering a wide variety of styles from waltzes to 8-beat to euro-trance ... and much more. Select a style that matches the music you want to play, or experiment with new styles to expand your musical horizons. EuTrance 042 8 Owner's Manual Contents About this Owner's Manual and Data List ..

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.....59 Setting Up Setting Up Setting Up Be sure to do the following operations BEFORE turning on the power. Power Requirements Although the instrument will run either from an optional AC adaptor or batteries, Yamaha recommends use of an AC adaptor whenever possible. An AC adaptor is more environmentally friendly than batteries and does not deplete resources.

Setting Up Using an AC Power Adaptor 1 Make sure that the [J(Standby/On) switch of the instrument is in the "Standby" position. WARNING · Use the specified adaptor (page 86). The use of other adaptors may result in irreparable damage to both the adaptor and the instrument. 2 Connect the AC adaptor to the power supply jack. 3 Plug the AC adaptor into an AC outlet.

CAUTION · Unplug the AC Power Adaptor when not using the instrument, or during electrical storms. 2 AC power adaptor 3 AC outlet For battery operation the instrument requires six 1.5V "AA" size, LR6 or equivalent batteries. (Alkaline batteries are recommended.) When battery power becomes too low for

proper operation, make sure to replace all batteries, following the precautions listed below.

If necessary, also make sure to save all important User data (see pages 50, 77). CAUTION · Be sure to install the batteries in the same direction, maintaining the correct polarity (as shown). Incorrect battery installation may result in heat, fire and/or leaking of corrosive chemicals. · When the batteries run down, replace them with a complete set of six new batteries. NEVER mix old and new batteries. Do not use different kinds of batteries (e.g. alkaline and manganese) at the same time. · If the instrument will not be used for an extended period of time, remove the batteries to prevent possible fluid leakage. Using Batteries 1
Open the battery compartment cover located on the instrument's bottom panel.

2 Insert the six new batteries, being careful to follow the polarity markings on the inside of the compartment. 3 Replace the compartment cover, making sure that it locks firmly in place. NOTE NOTICE · Use only manganese or alkaline batteries for this instrument. Other types of batteries (including rechargeable batteries) may exhibit a sudden drop in power when the batteries are low, possibly resulting in a loss of flash memory data. · Please use the power adaptor when transferring data to flash memory. Batteries (including rechargeable types) can be drained rapidly by this type of operation. If the batteries do become drained during a data transfer, both the data being transferred and the data currently in the transfer destination will be lost.



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· Connecting the AC power adaptor automatically supplies power from the adaptor and overrides battery power, even when batteries are installed. 10
Owner's Manual Setting Up Make all necessary connections below BEFORE turning the power on. Any pair of stereo headphones with a 1/4" stereo phone
plug can be plugged in here for convenient monitoring.

The speakers are automatically shut off when a plug is inserted into this jack. The PHONES/OUTPUT jack also functions as an external output. You can
connect the PHONES/OUTPUT jack to a keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's
output signal to that device. WARNING · Avoid listening with the headphones at high volume for long periods of time; doing so may not only result in ear
fatigue, it may be damaging to your hearing. The sustain function lets you produce a natural sustain as you play by pressing a footswitch.

A Yamaha FC4 or FC5 footswitch plugged into this jack can be used to switch sustain on and off. NOTE · The sustain function does not affect split voices. ·
Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power. · Do not press the footswitch while turning the
power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.

CAUTION · To prevent damage to the speakers, set the volume of the external devices at the minimum setting before connecting them. Failure to observe
these cautions may result in electric shock or equipment damage. Also, be sure to set the volumes of all devices at their minimum levels and gradually raise
the volume controls while playing the instrument to set the desired listening level. Turning the Power On The [](Standby/On) switch turns the power to the
instrument on () or standby (). Turn down the volume by turning the [MASTER VOLUME] control to the left and press the [](Standby/On) switch to turn on
the power. Press the [](Standby/On) switch again to turn the power off. While playing the keyboard, adjust the volume level by using the [MASTER
VOLUME] control. CAUTION · Even when the switch is in the "STANDBY" position, electricity is still flowing to the instrument at the minimum level. When
you are not using the instrument for a long time, make sure you unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the
instrument. Owner's Manual 11 Setting Up Connecting Headphones (PHONES/OUTPUT Jack) Connecting a Footswitch (SUSTAIN Jack) Panel Controls and
Terminals Front Panel Song List (Data List) Style List (Data List) Display (page 15) f 12 Owner's Manual r Setting Up e i ! 1 r t y o u GrandPno ! 0 ! 2 ! 4 0 0 1
0 0 1 q w ! 3 ! 5 @ 7 @ 6 Front Panel q [](Standby/On) switch.

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· page 11 w LIVE CONTROL [ASSIGN] button

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..page 22 [A] and [B] knobs

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.page 22 e [MASTER VOLUME] control

..... page 11 r [DEMO/BGM] button ...

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.....page 31 t [PERFORMANCE ASSISTANT] button.....

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.....page 37 y [EASY SONG ARRANGER] button...

...page 41 u [FUNCTION] button

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...page 70 i LESSON START [WAITING] button.....

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...page 33 [YOUR TEMPO] button

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....page 35 [MINUS ONE] button.....

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... pages 14, 16 !7 CATEGORY [] and [] buttons.. pages 14, 70 Panel Controls and Terminals Music Database List (Data List) Voice List (Data List) !6 !8 !9 @0 @1 @2 !7 @3 @4 @5 Rear Panel @8 @9 #0 #1 Rear Panel !8 !9 @0 @1 @2 @3 @4 @5 [SONG] button

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...page 30 [STYLE] button ..

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page 26 [MUSIC DATABASE] button

.....page 40 [VOICE] button ...

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.... page 16 Number buttons [0][9], [+] and [-] buttons .

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. page 14 [PORTABLE GRAND] button

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. page 17 REGIST MEMORY [MEMORY/BANK], [1], [2] buttonspage 48 VOICE CONTROL [SPLIT] button ...

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.... pages 18, 56 [DUAL] button

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. pages 18, 56 [HARMONY] button

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.....page 57 [TOUCH] button ...

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.....page 56 PITCH BEND wheel.

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.....page 54 Drum Kit.

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It also includes a range of indicators that show the on/off status of a range of functions. Notation Displays the melody and chord notes of a song when the Song Lesson function is in use, or the notes of chords you specify when the Dictionary function is in use. At other times the notes you play on the keyboard are displayed. NOTE BEAT number and MEASURE Indicates the beat number in a mea001 sure during the Metronome function. Indicates the current measure during playback of a song or style, and the currently set Tempo value for the song or style.

(pages 45, 53) Chord Display Indicates the name of the chord currently being played back, or the name of the chord being played on the keyboard. (page 27) Track Display Information related to the song tracks is shown here. (pages 32, 44, 68) · Any notes occurring below or above the staff are indicated by "8va" in the notation. · For a few specific chords, not all notes may be shown in the notation section of the display. This is due to space limitations in the display.

TOUCH Indicates that Touch response is turned on. (page 56) HARMONY Indicates that Harmony is turned on. (page 57) DUAL Indicates that the Dual voice is turned on. (page 18) SPLIT Indicates that the Split voice is turned on. (page 18) ARPEGGIO Indicates that the Arpeggio is turned on. (page 20) Performance assistant technology Indicates that performance assistant technology is turned on. (page 36) ACMP ON Indicates that Accompaniment is turned on. (page 27) SYNC STOP Indicates that SYNC STOP is turned on. (page 61) GrandPno 001 001 Beat Display Indicates the current style or song beat with flashing arrows. (page 31) Knob Assign Display This display allows you to visually confirm parameters assigned to the knobs.

(page 22) Owner's Manual Try Playing a Variety of Instrument Voices Quick Guide In addition to piano, organ, and other "standard" keyboard instruments, this instrument has a large range of voices that includes guitar, bass, strings, sax, trumpet, drums and percussion, sound effects ... a wide variety of musical sounds. Select and Play a Voice--MAIN This procedure selects the main voice you will play on the keyboard. 1 Quick Guide Press the [VOICE] button. The voice number and name will be displayed. Voice name GrandPno 001 Voice number Appears when the Voice mode is engaged. 2 Select the voice you want to play. While watching the displayed voice name rotate the dial.

The available voices will be selected and displayed in sequence. The voice selected here becomes the main voice. For this example select the "141 Flute" voice. NOTE · You can also select the voice using the CATEGORY [] and [] buttons after pressing the [VOICE] button. (page 14) Flute 141 Select 141 Flute Preset Voice Types 001183 184198 (Drum Kit) 199238 Instrument Voices Various drum and percussion sounds are assigned to individual keys, via which they can be played.

Details on assigning instruments to keys are provided in the Drum Kit List of the separate Data List. Arpeggio voices for arpeggio performance. 16 Owner's Manual r f Try Playing a Variety of Instrument Voices 3 Play the keyboard. NOTE · Voice Settings (page 55) Try selecting and playing a variety of voices.

Play the Grand Piano Voice When you just want to play piano, all you have to do is press one convenient button. Press the [PORTABLE GRAND] button. The "001 Grand Piano" voice will be selected. NOTE · When you press the [PORTABLE GRAND] button all settings other than touch sensitivity are turned off. The dual and split voices will also be turned off, so only the Grand Piano voice will play over the entire keyboard. Owner's Manual 17 Quick Guide Try Playing a Variety of Instrument Voices Play Two Voices Simultaneously--DUAL Once you press the [DUAL] button to turn the dual function on, a second voice will sound that will play in addition to the main voice when you play the keyboard. The second voice is known as the "dual" voice. Two voices will sound at the same time. Flute Quick Guide 18 Owner's Manual 141 Appears when dual voice is on Press the button a second time to turn the dual voice function off. A suitable dual voice is automatically selected when you turn on this function, but you can easily select a different dual voice (page 56). Play Different Voices with the Left and Right Hands--SPLIT Once you press the [SPLIT] button to turn the split function on, you can play different voices to the left and right of the keyboard "split point" The main and dual voices can be played to the right of the .

split point, while the voice played to the left of the split point is known as the "split voice" The split . point setting can be changed as required (page 63). Split point Split voice Main voice and dual voice Flute 141 Appears when split voice is on Press the button a second time to turn the split voice function off. A suitable split voice is automatically selected when you turn on this function, but you can easily select a different split voice (page 56). Try Playing a Variety of Instrument Voices Using the Metronome The instrument features a built-in metronome (a device that keeps an accurate tempo) that is convenient for practicing. Press the [METRONOME] button to start the metronome. To stop the metronome, press the [METRONOME] button again. Tempo 090 Current Tempo value Owner's Manual 19 Quick Guide If you want to adjust the metronome tempo, press the [TEMPO/TAP] button to call up the Tempo setting in the display, then you can use the dial to set the tempo. You can also set the tempo using the number buttons on the front panel. NOTE · You can set the time signature (page 53).

Creating Arpeggios The arpeggio function lets you create arpeggios (broken chords) by simply playing the required notes on the keyboard. For example, you could play the notes of a triad--the root, third, and fifth--and the arpeggio function will automatically create a variety of interesting arpeggio-type phrases. By changing the arpeggio type and the notes you play it is possible to create a wide range of patterns and phrases that can be used for music production as well as performance. Use the Arpeggio Function 1 Press the ARPEGGIO [ON/OFF] button to turn the arpeggio function on. The indicator lights when the Arpeggio function is on.

NOTE Quick Guide 20 · When you select a voice number between 199 and 238 the arpeggio function will automatically be turned on. NOTE 2 · Play a key to the left of the keyboard split point because the arpeggio function applies only to the split voice when you select a voice between 229 and 238. Play a note or notes on the keyboard to trigger Arpeggio playback. The sound of the arpeggio produced will change according to the number of notes you play and the area of the keyboard you play in.



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NOTE · When an FC4 or FC5 footswitch is connected to the SUSTAIN jack is pressed, the Arpeggio will continue to play after the note is released (page 59). When the split function is on, the arpeggio applies to the split voice. The arpeggio applies to the main and dual voices when the split function is off. Arpeggios cannot be played using the split and main/dual voices simultaneously. 3 When you have finished playing with the arpeggio function, press the ARPEGGIO [ON/OFF] button to turn it off. Owner's Manual Creating Arpeggios Changing the Arpeggio type The most suitable arpeggio type is automatically selected when you select a voice, but you can easily select any other arpeggio type. 1 Press the ARPEGGIO [TYPE] button. "ARP Type" will appear in the display for a few seconds, then the name of the current arpeggio type will appear in the display. DownOct 02 Quick Guide NOTE The currently selected arpeggio type 2 Rotate the dial to select the desired arpeggio type. A list of the available arpeggio types is provided in the Arpeggio List of the separate Data List. You can save the instrument's settings at this point and then recall them at any time you want to repeat your performance (page 48).

You can also record your performance (page 43). Please note that the arpeggio sound for the split voice cannot be recorded. · No arpeggio will sound if you turn the arpeggio function on while playing notes on the keyboard. Owner's Manual 21 Create Original Sounds The two knobs located in the lower left area of the panel can be used to add variations to the sound being played, transforming the sound in a variety of musical ways. Filter, envelope generator, and other effects can be assigned to the two knobs as required. In this section we'll explain how effects can be assigned to the knobs, and provide a few tips for their use. Assigning Effects to the Knobs Repeatedly press the [ASSIGN] button to sequentially select the five effect combinations provided: z x c v b z ... etc.

The currently selected combination is shown in the display. NOTE · The assignable knob effects are pre-programmed in the pairs listed above. It is not possible to assign different effect combinations. NOTE Quick Guide · zc affect the main and dual voices only. Split voices will not be affected.

*Styles and songs will also not be affected. vb affect styles only. GrandPno 001 001 z Filter Filter Cutoff Filter Resonance Filter effects shape sound by allowing only a specified range of frequencies to pass and/or by producing a resonance peak at the filter's "cutoff" frequency. Filter effects can be used to create a range of synthesizer-like sounds. * Filter effects can sometimes cause distortion in the bass frequencies.*

Level Cutoff Frequency Knob A adjusts the filter's cutoff frequency, and therefore the brightness of the sound. Frequency Frequencies in this range are cut off. Frequencies in this range are passed. Level Resonance Frequency Knob B adjusts the amount of resonance applied at the filter's cutoff frequency. Increasing the resonance emphasizes the frequencies at the cutoff frequency, and thus "strengthens" the perceived effect of the filter. 22 Owner's Manual Create Original Sounds x Effect Reverb Chorus Send Level Send Level Reverb reproduces the acoustic ambience of a concert hall or club, while chorus produces a layered "multi-instrument" effect. Knob A adjusts the depth of the reverb effect, and Knob B adjusts the depth of the chorus effect. c EG (Envelope Generator) Attack Time Release Time Envelope Generator effects determine how the level of the sound varies over time. You can make the attack faster for a more percussive sound or slower for a violin-like sound, for example. Or you can lengthen or shorten the sustain to most ideally match the music.

Level Sustain Level ATTACK DECAY RELEASE Time Key Played Key Released Knob A adjusts attack time (the amount of time it takes the sound to reach maximum level when a key is played). Knob B adjusts release time (the amount of time it takes for the sound to decay to silence after a key is released). v Style Filter Filter Cutoff Filter Resonance In this case the knobs apply the filter effect to the style being played. Knob A and Knob B have the same functions as for "z Filter" described on the preceding page. b Style Tempo Tempo No Effect Knob A adjusts the tempo of the style and arpeggios. Rotating the knob clockwise increases the tempo while rotating it counterclockwise decreases the tempo. The knob's center position produces the initial default tempo. Owner's Manual 23 Quick Guide Create Original Sounds Using the Knobs 1 2 Quick Guide Select the voice you want to play on the keyboard. For this example we want to use a synth-lead type voice, so select "147 SquareLd" (Square-wave Lead). NOTE · Try Playing a Variety of Instrument Voices (page 16) Press the [ASSIGN] button as many times as necessary to select "z FILTER" ("z" will appear in the display).

SquareLd 147 "z" appears here. Knob A can now be used to adjust the filter cutoff frequency, and Knob B can be used to adjust the resonance. 3 Rotate Knob B to its maximum setting (all the way to the right), then play with the right hand while operating Knob A with the left hand. Filter Cutoff Filter Resonance Rotating the knob to the right while the volume is set to a high level can result in distortion. If this occurs, reduce the volume level.

If you select a different keyboard voice the knobs will be reset and the ideal settings for the selected voice will be automatically recalled. In the same way, if the "v STYLE FILTER" effect is selected, the knobs will be reset if a different style is selected. If you create an original setting you like, it might be a good idea to save it in the instrument's Registration Memory (page 48) so you can recall the same settings again at any time. You can also record performances using original sounds you've created (page 43). Changing the knob settings does not immediately change the sound.

Newly assigned effects will only change the sound when the knobs are first operated after the new effect has been selected. 24 Owner's Manual Create Original Sounds The chart below lists some interesting ways to use the various effects that can be assigned to the knobs. Some Ideas for Using the Knobs Number/Effect z FILTER Try This Select a synth-type lead or pad voice (see the Voice List of the separate Data List). Turn Knob B all the way up and operate Knob A while playing for some spacey, floating 1980's effects. Select a voice that sounds as though it already has reverb and chorus effects applied, and turn Knob A and Knob B all the way down to hear the "direct" sound of the voice.



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You can then turn the Knob A and Knob B settings up to add extra impact and richness to the voice. x EFFECT c EG v STYLE FILTER Select style 42, Euro Trance. Turn accompaniment on and start style playback (pages 2628). Set Knob B to about 3 o'clock, and Knob A to about 8 o'clock. The overall sound of the style should be a bit muffled, with the drums emphasized for solid rhythmic impact.

Play a style and/or arpeggio and use Knob A to adjust the tempo. b STYLE TEMPO Owner's Manual 25 Quick Guide Select a piano voice, and turn Knob B all the way up and Knob A to about the 3 o'clock position. This should give you a majestic, organ-like sound. The attack time is quite long so play the keys and hold them to let the sound come in fully. Ideal for slow pieces. Playing Styles This instrument has an auto accompaniment feature that produces accompaniment (rhythm + bass + chords) in the style you choose to match chords you play with your left hand. You can select from 174 different styles covering a range of musical genres and time signatures. In this section we'll learn how to use the auto accompaniment features. Select a Style Rhythm Most styles includes a rhythm part. You can select from a wide variety of rhythmic types--rock, blues, Euro trance, and many, many more.

Let's begin by listening to just the basic rhythm. The rhythm part is played using percussion instruments only. 1 Press the [STYLE] button. The style number and name will appear in the display. Style Name Quick Guide 26 BritRock 001 Style Number This icon appears when a style number and name is displayed. 2 Select a style. Use the dial to select the style you want to use. A list of all the available styles is provided in the Style List of the separate Data List. NOTE · You can also use the style files provided on the supplied CD-ROM (page 64). EuTrance 042 3 Press the [START/STOP] button.

The style rhythm will start playing. Press the [START/STOP] button a second time when you want to stop playback. NOTE · Style numbers 150, 162174 have no rhythm part and therefore no rhythm will play if you use them for the above example. For these styles first turn auto accompaniment on as described on page 27, press the [START/ STOP] button, and the accompaniment bass and chord parts will begin playing when you play a key to the left of the keyboard split point. Owner's Manual Playing Styles Play Along with a Style You learned how to select a style rhythm on the preceding page. Here we'll see how to add bass and chord accompaniment to the basic rhythm to produce a full, rich accompaniment that you can play along with. 1 2 Press the [STYLE] button and select the desired style. For this example select the "042 Euro Trance" style. Turn automatic accompaniment on. Press the [ACMP ON/OFF] button.

Pressing this button a second time will turn automatic accompaniment off. EuTrance 042 This icon appears when automatic accompaniment is on. When automatic accompaniment is on ... The area of the keyboard to the left of the split point (54 : F#2) becomes the "auto accompaniment range" and is used only for specifying the accompaniment chords. Split point (page 63) Auto accompaniment range 3 Turn sync start on. Press the [SYNC START] button to turn the sync start function on. Eutrance 042 Flashes when sync start is on. When sync start is on, the bass and chord accompaniment included in a style will start playing as soon as you play a note to left of the keyboard split point.

Press the button a second time to turn the sync start function off. Owner's Manual 27 Quick Guide Playing Styles 4 Start playing. Style playback will begin as soon as you play a chord in the accompaniment range of the keyboard. Try playing the chord progression shown below. Split point NOTE · Chords (page 29) · Looking Up Chords Using the Chord Dictionary (page 65) Auto accompaniment range F C G Am Quick Guide This is a simple-but-effective chord progression.

EuTrance 042 001 Indicates the chord currently being played in the accompaniment range of the keyboard. 5 Stop playing. Press the [START/STOP] button to stop style playback when you're done. You can also stop playing by pressing the [INTRO/ENDING/rit.] button so that an appropriate ending pattern will play and then style playback will stop.

You can switch style "sections" to add variety to the accompaniment. Refer to "Pattern Variation (Sections)" on page 60. 28 Owner's Manual Playing Styles Chords For users who are new to chords, this chart features common chords. Since there are many useful chords and many different ways to use them musically, refer to commercially available chord books for further details. indicates the root note. Major Minor Seventh Minor Seventh Major Seventh C Cm C7 Cm7 CM 7 D Dm D7 Dm7 DM 7 C F Fm F7 Fm7 FM7 G Gm G7 Gm7 GM7 A Am A7 Am7 AM 7 B Bm B7 Bm 7 BM 7 · Inversions can be used as well as in "root" position--with the following exceptions: , m7 m7b5, 6, m6, sus4, aug, dim7 7b5, 6(9), sus2 , · Inversion of the 7sus4 and m7(11) chords are not recognized if the notes are omitted. · sus2 chords are indicated by the root name only. Easy Chords This method lets you easily play chords in the accompaniment range of the keyboard using only one, two, or three fingers. For root "C" C Cm C7 Cm 7 To play a major chord Press the root note () of the chord. To play a minor chord Press the root note together with the nearest black key to the left of it.

To play a seventh chord Press the root note together with the nearest white key to the left of it. To play a minor seventh chord Press the root note together with the nearest white and black keys to the left of it (three keys altogether). Owner's Manual 29 Quick Guide E Em E7 Em7 EM7 Playing Songs With this instrument the term "song" refers the data that makes up a piece of music. You can simply enjoy listening to the 30 internal songs, or use them with just about any of the many functions provided--the performance assistant technology feature, lessons, and more. The songs are organized by category. In this section we'll learn how to select and play songs, and briefly describe the 30 songs provided. Select and Listen to a Song 1 Quick Guide Press the [SONG] button. The song number and name will be displayed. You can use the dial to select a different song. Nocturne 011 The currently selected song and number are displayed 2 Select a song.

Select a song after referring to the Song List in the separate Data List. Use the dial to select the song you want to listen to. NOTE ForElise 012 The song displayed here can be played · You can also play songs you have recorded yourself (User Songs) or songs that have been transferred to the instrument from a computer in the same way that you play the internal songs.



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The songs are organized by category. The songs in this category have been created to give you an idea of the advanced capabilities of this instrument. These songs features some of the instrument's many useful voices. Use these songs to experience some of the instrument's advanced features: song number 9 for the easy song arranger, and songs 10 and 11 for the performance assistant technology feature. These piano solo pieces are ideally suited for use as lesson songs. A selection of piano ensemble songs that are also well suited for use as lesson songs. When you need to practice backing (accompaniment) patterns, these are the songs to do it with.

Songs you record yourself. Songs transferred from a computer (page 76) 30 Owner's Manual Playing Songs 3 Listen to the song. Press the [] (START/STOP) button to begin playback of the selected song. You can stop playback at any time by pressing the [] (START/STOP) button again. NOTE Score data for the 30 internal songs are provided in the Songbook on the CD-ROM. The exceptions are songs 1 11 and 30. The scores for songs 9 to 11 are provided in the separate Data List. 012 The arrow marks in the beat display flash in time with the rhythm of the song or style. Play Songs in Sequence Press the [DEMO/BGM] button to play Songs 001008 in sequence. Playback will repeat continuously, starting again from the first Song (001).

You can select a song by using the [+] button after pressing the [DEMO/BGM] button. The [-] button can be used to go back to the beginning of the selected song. You can stop playback at any time by pressing the [DEMO/BGM] button. You can also specify the repeat playback of all preset songs or songs transferred from a computer. The specified songs can also be played in random order (page 66). Owner's Manual 31 Quick Guide ForElise Playing Songs Song Fast Forward, Fast Reverse, and Pause These are just like the transport controls on a cassette deck or CD player, letting you fast forward [] (FF), rewind [] (REW) and pause [] (PAUSE) playback of the song. NOTE When an A-B repeat range is specified the fast reverse and forward function will only work within that range. REW Press the fast reverse button to rapidly return to an earlier point in the song. FF Press the fast forward button to rapidly skip ahead to a later point in the song. PAUSE Press the pause button to pause playback.

Quick Guide 32 Owner's Manual Select a Song For a Lesson Reference Yamaha Education Suite You can select song you like and use it for a left-hand, right-hand, or both-hands lesson. During the lesson you can play as slowly as you like, and you can even play wrong notes. Song playback will slow down to a speed you can handle. It's never too late to start learning! The practice methods: Lesson 1--Waiting Lesson 2--Your Tempo Lesson 3--Minus One Learn to play the correct notes. Learn to play the correct notes with the correct timing.

Learn to play the correct notes at the correct timing along with the song. Lesson 1--Waiting In this lesson, try playing the correct notes. Play the note shown in the display. The song will wait until you play the right note. 1 2 Select a song for your lesson.

Select a song from the Piano Solo, Piano Ensemble category! For this example try selecting the "012 ForElise". Turn off playback of the part you wish to practice. The preset songs have separate left- and right-hand parts. The right-hand part is selected by the [RIGHT](1) button and the left-hand part is selected by the [LEFT](2) button. You can turn the left- and right-hand parts on or off as required in order to practice the corresponding part (the part that is turned off) on the keyboard. You can practice both parts when both the left- and right-parts are turned off. NOTE Song numbers 10 and 11 are function demos for performance assistant. The lesson function cannot be used with them. You can also use songs (only SMF format 0) transferred from the computer and saved to flash memory. (pages 7577) NOTE You can turn parts on or off, even during playback.

Pressing the part buttons toggles part playback on and off. Turn off playback of the part you wish to practice. When you press one of the buttons to turn playback off, the corresponding part indicator in the display turns off and playback of that part is muted. (When you first select a song, both the "1" and "2" parts indicators will light, indicating that both parts are on.) ForElise 012 Right-hand lesson Left-hand lesson Both-hands lesson Track 1 is unlit Track 2 is unlit Track 1 and 2 are unlit Owner's Manual 33 Reference Select a Song For a Lesson 3 Start Lesson 1. Press the [WAITING] button to start Lesson 1. Notation Waiting r1 Keyboard Display 007 In this case "r1" indicate that right-hand lesson 1 has been selected. Play the note shown in the display. When you play the correct note, the next note you need play is shown. The song will wait until you play the correct note.

4 Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [] (START/ STOP) button. You can also stop the Lesson mode by pressing the [WAITING] button. See How You've Done NOTE Excellent Very Good Good OK ~~~~~~ ~~~~~~ ~~~~~~ ~~~~~~ When the lesson song has played all the way through your performance will be evaluated in 4 levels: OK, Good, Very Good, or Excellent. "Excellent!" is the highest evaluation.

The evaluation feature can be turned off via the FUNCTION Grade item (page 72). Reference 34 After the evaluation display has appeared, the lesson will start again from the beginning. Once you've mastered Lesson 1, move on to Lesson 2. Owner's Manual Select a Song For a Lesson Lesson 2--Your Tempo Learn to play the correct notes with the correct timing. Song playback tempo will vary to match the speed you are playing at.

The song will slow down when you play wrong notes, so you can learn at your own pace. 1 2 Select the song and part you want to practice (steps 1 and 2 on page 33). Start Lesson 2. Press the [YOUR TEMPO] button to start Lesson 2. Notation YourTemp r2 Keyboard Display 007 In this case "r2" indicate that right-hand lesson 2 has been selected. Play the note shown in the display. Try to play the notes at the correct timing. As you learn to play the right notes at the right timing the tempo will increase until eventually you'll be playing at the song's original tempo. 3 Once you've mastered Lesson 2, move on to Lesson 3. Owner's Manual 35 Reference Stop the Lesson mode.

You can stop the Lesson mode at any time by pressing the [] (START/ STOP) button. You can also stop the Lesson mode by pressing the [YOUR TEMPO] button.



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Select a Song For a Lesson Lesson 3--Minus One Here's where you can perfect your technique. The song will play at the normal tempo, minus the part you have chosen to play. Play along while listening to the song. 1 2 Select the song and part you want to practice (steps 1 and 2 on page 33). Start Lesson 3. Press the [MINUS ONE] button to start Lesson 3. Notation MinusOne r3 Keyboard Display 007 In this case "r3" indicate that right-hand lesson 3 has been selected. Play the note shown in the display.

3 Reference Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [] (START/ STOP) button. You can also stop the Lesson mode by pressing the [MINUS ONE] button. Practice Makes Perfect--Repeat and Learn Use this feature when you want to start again just ahead of a section on which you made a mistake, or to repeatedly practice a section you find difficult. Press the [] (REPEAT & LEARN) button during a lesson.

The song location will move back four measures from the point at which you pressed the button, and playback will begin after a one-measure count-in. Playback will continue up to the point at which you pressed the [] (REPEAT & LEARN) button, and then jump back four measures and repeat again after a count-in. This process will repeat, so all you have to do is press the [] (REPEAT & LEARN) button when you make a mistake in order to repeat practice of that section until you get it right. Press the button again to return to the normal lesson mode. NOTE · You can change the number of measures the Repeat and learn function jumps back by pressing a number button [1][9] during repeat playback.

36 Owner's Manual The Easy Way to Play Piano This instrument includes a performance assistant technology feature that lets you play along with a song and sound like a great pianist (even though you might be making lots of mistakes)! In fact, you can play any notes and still sound good! So even if you can't play piano and can't read a note of music, you can have some musical fun. It's never too late to start learning! Using the Performance Assistant technology Try out the performance assistant technology using the preset song "Ave Maria." 1 2 Select a song. Press the [SONG] button, and the song number and name will be displayed. You can use the dial or other selection controls to select a different song. For this example try selecting the "010 Ave Maria". Press the [PERFORMANCE ASSISTANT] button. The indicator lights when the performance assistant technology feature is on. NOTE · Select and Listen to a Song (page 30) Press the [PERFORMANCE ASSISTANT] button to turn the function on or off. 3 Press the [] (START/STOP) button.

Song playback will begin. The basic pattern will repeat. Listen to four measures while memorizing the basic pattern. It's your turn to play the part from the fifth measure. Owner's Manual 37 Reference The Easy Way to Play Piano 4 Play on the keyboard. Before After Play the score on the left along with the accompaniment using both hands. You can even play the same keys over and over: C, E, G, C, E, G, C, E. Performance assistant technology will make sure that the notes will come out as if they were played according to the score on the right. Keep playing, and performance assistant technology will continue to "correct" the notes that you play. You can stop song playback at any time by pressing the [] button.

[] (START/STOP) NOTE · The score for Ave Maria is provided in the separate Data List. 5 Press the [PERFORMANCE ASSISTANT] button to turn the performance assistant technology feature off. Reference Next try playing the Chopin Nocturne. 1 2 The procedure is the same as that described for playing Ave Maria on page 37. Select "011 Nocturne".

Listen to eight measures, then begin playing from the ninth measure. Play the keys shown in the illustration. Keep playing F, A and C with your left hand and the correct notes will sound as the song proceeds. When you get used to playing the left hand part, refer to step 2 on the next page and try adding the right-hand part. NOTE · The score for Nocturne is provided in the separate Data List.

38 Owner's Manual The Easy Way to Play Piano 3 Press the [PERFORMANCE ASSISTANT] button to turn the performance assistant technology feature off.

Next try playing a different preset song. 1 The procedure is the same as that described for playing Ave Maria on page 37. Select any song. To use the performance assistant technology feature it is necessary to play a song that includes chord data. Select a song that includes chord data, referring to the Song List in the separate Data List. Play freely referring to the description below. NOTE 2 · Songs transferred to the instrument from a computer can also be used with the performance assistant technology as long as they include the required chord data. If a song includes the required data, the chords are shown on the right side of the display. To begin, try to feel the rhythm of the song.

Then, with your hands spread as shown in the illustration, simply play the keyboard alternately with your left and right hands (any notes will do). You will get even better results if you match your left-hand rhythm to the rhythm of the chord indicator in the display. Sounds like you're playing the right notes! Play alternately with the left and right hands. Next try the three playing methods illustrated below. Different ways of playing produce different results. Play with the left and right hands at the same timing--type 1. Play with the left and right hands at the same timing--type 2. Play alternately with the left and right hands--type 3. Play 3 notes at once with your right hand. Play 1 note at a time with your right hand (for example: index finger middle finger ring finger). Play 3 notes at once with your right hand. Once you get a feel for it, try playing chords with your left hand and a melody with your right ... or any other combination.

3 Press the [PERFORMANCE ASSISTANT] button to turn the performance assistant technology feature off. Owner's Manual 39 Reference How does it sound? You'll get acceptable results no matter where you play thanks to performance assistant technology! Play Using the Music Database You want to play music in your favorite style, but you're not sure how to select the best voice and style for the type of music you want to play ... simply select the appropriate style from the Music Database.

The panel settings will automatically be adjusted for the ideal combination of sounds and style! 1 Press the [MUSIC DATABASE] button. Jude Hey 001 A Music Database name will appear in the display. 2 Select a Music Database. Referring to the Music Database List in the separate Data List, use the dial to select a music database.



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