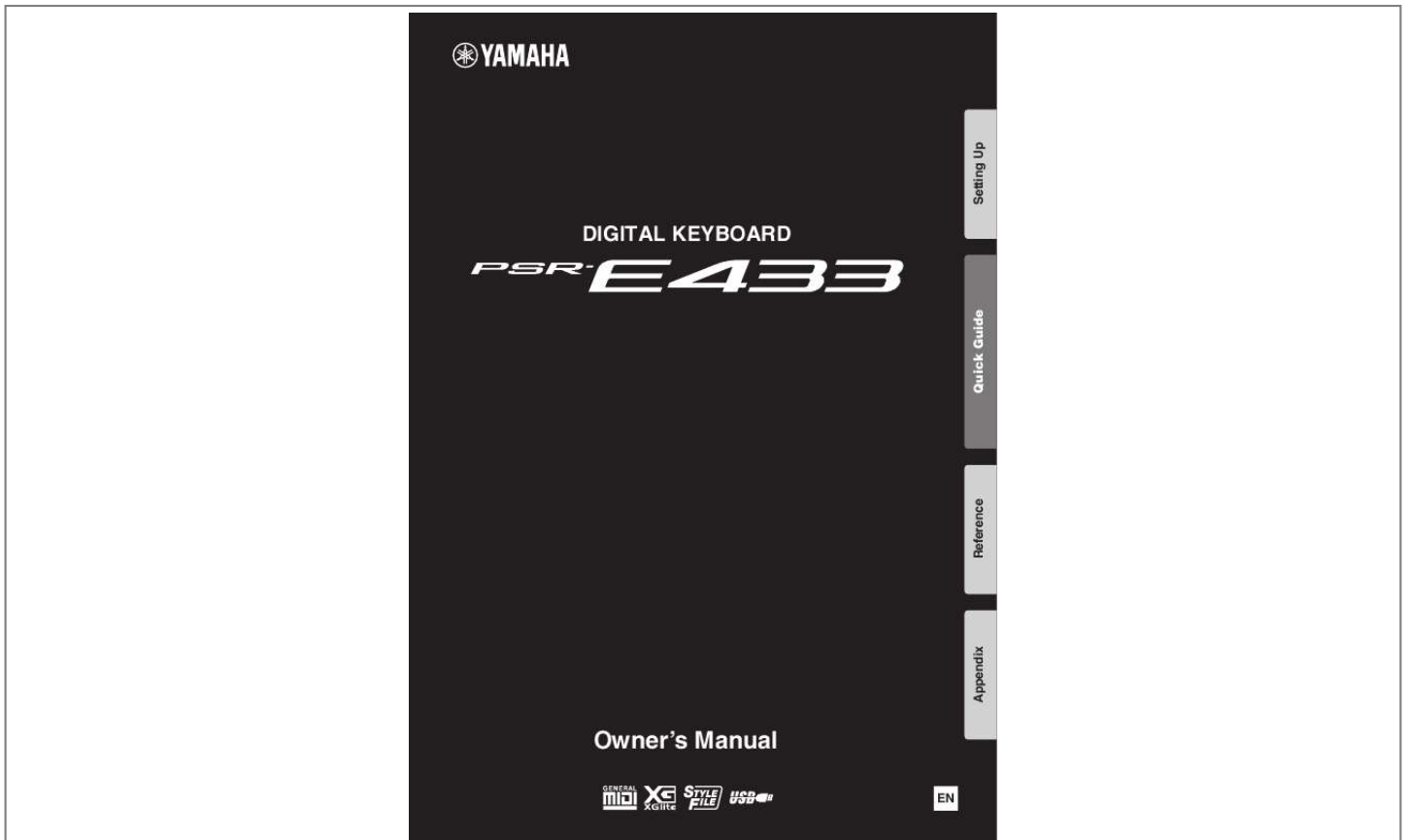




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA PSR-E433. You'll find the answers to all your questions on the YAMAHA PSR-E433 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-E433
User guide YAMAHA PSR-E433
Operating instructions YAMAHA PSR-E433
Instructions for use YAMAHA PSR-E433
Instruction manual YAMAHA PSR-E433



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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 PSR-E433 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 name plate of this product may be found on the bottom of the unit. The serial number of this product may be found on or near the name plate. 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.



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(bottom) COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE) Responsible Party : Yamaha Corporation of America Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620 Telephone : 714-522-9011 Type of Equipment : Digital Keyboard Model Name : PSR-E433 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) PSR-E433 Owner's Manual 3 Table of Contents Special Features

.....
.....
.....
.....

.....
.....
.....
.....5 Compatible Format and Functions ..

.....
.....
.....
.....

...8 About the Manuals

.....
.....
.....

.....
.....
.....
.....

..9 Included Accessories

.....
.....
.....

.....
.....
.....

.....9 Reference Handy Performance Features 33 Setting Up Quick Guide Reference Appendix Setting Up Panel Controls and Terminals Setting Up 10 12 Power Requirements...

.....
.....
.....
.....

.....
.....
.....

..12 Connecting Headphones or External Audio Equipment...13 Connecting a Footswitch to the SUSTAIN jack

.....13 Selecting a Reverb Type..

.....
.....
.....

.....
.....
.....
.....33 Selecting a Chorus Type....

.....
.....
.....
.....
.....
.....33 Pitch Controls--Transpose .

.....
.....
.....
.....34 Pitch Controls--Tuning ..

.....
.....
.....
.....
.....
.....34 Pitch Controls--the PITCH BEND wheel ..

.....
.....34 Calling up Optimum Panel Settings
.....
.....

.....
.....34 Changing the Touch Sensitivity of the Keyboard ...

.....
.....35 Selecting an EQ Setting for the Best Sound

.....
.....35 Voice Settings 36 Basic Operations 14 Turning the Power On/Off

.....
.....
.....
.....
.....14 Auto Power Off Function ...

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....14 Selecting Operations

.....
.....
.....
.....
.....
.....
.....14 Selecting a Dual Voice .

.....
.....
.....

.....
.....
.....
.....

36 Selecting a Split Voice

.....
.....
.....

.....
.....
.....

.36 Voice Editing

.....
.....
.....
.....

.....
.....
.....

.....36 Parameters Assigned to the Knobs Arpeggio Settings 37 39 Display Items 15 Quick Guide Try Playing a Variety of Instrument Voices 16 Synchronizing an Arpeggio to Song/Style/Pattern Playback--Arpeggio Quantize ...

.....
.....
.....
.....

..39 Holding the Arpeggio Playback via the Footswitch

39 Styles (Auto Accompaniment) and Patterns 40 Selecting a Main Voice.....

.....
.....

.....
.....
.....

.16 Playing the "Grand Piano"

.....
.....
.....

.....
.....
.....

..16 Layering a Dual Voice ...

.....
.....

.....
.....
.....

.....16 Playing a Split Voice in the Left Hand area .

.....
.....
.....

.....17 Using the Metronome .

.....
.....

.....
.....
.....
.....
.....
.....

...32 Initialization

.....
.....
.....
.....
.....
.....

.....

.32 4 PSR-E433 Owner's Manual Special Features Creating New Sounds Page 21 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. 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, ce on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet.

Then have the instrument inspected by qualified Yamaha service personnel. · Never insert or remove an electric plug with wet hands. If you notice any abnormality · When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. (If you are using batteries, remove all batteries from the instrument.) Then have the device inspected by Yamaha service personnel.

- The power cord or plug becomes frayed or damaged. - It emits unusual smells or smoke. - Some object has been dropped into the instrument. - There is a sudden loss of sound during use of the instrument. Fire warning · Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire. DMI-5 1/2 6 PSR-E433 Owner's Manual CAUTION Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following: Power supply/AC power adaptor · Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet. · When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.

Pulling by the cord can damage it. · Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms. Connections · Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. · Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level. Handling caution Location · Do not place the instrument in an unstable position where it might accidentally fall over. · Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them. · When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level.

When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.



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· Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over. · Do not insert a finger or hand in any gaps on the instrument.
· Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure. · Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors. · Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed. Always turn the power off when the instrument is not in use. Even when the [] (Standby/On) switch is in standby status (display is off), 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 malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below. **Handling and Maintenance** · Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise. · Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° 40°C, or 41° 104°F.

) · Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard. **Saving data** · Some data items (page 32) are automatically saved as backup data in the internal memory even if you turn the power off. Saved data may be lost due to malfunction or incorrect operation. Save important data to external device such as a USB flash memory (page 51). **Information About copyrights** · Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use. · This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. **DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.**

About functions/data bundled with the instrument · Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original. **About this manual** · The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument. · The company names and product names in this manual are the trademarks or registered trademarks of their respective companies. **DMI-5 2/2 PSR-E433 Owner's Manual 7 Setting Up Compatible Format and Functions Setting Up 8 GM System Level 1** "GM System Level 1" is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GM-compatible tone generator, regardless of manufacturer. The GM mark is affixed to all software and hardware products that support GM System Level.

XGlite As its name implies, "XGlite" is a simplified version of Yamaha's high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects. **USB** USB is an abbreviation for Universal Serial Bus. It is a serial interface for connecting a computer with peripheral Devices.

It allows "hot swapping" (connecting peripheral devices while the power to the computer is on). **STYLE FILE** The Style File Format is Yamaha's original style file format which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types. **PSR-E433 Owner's Manual About the Manuals Included Documents Owner's Manual (this book) · Setting Up Please read this section first. · Quick Guide** This section explains how to use the basic functions. Refer to this section while playing the instrument. · **Reference** This section explains how to make detailed settings for the various functions of the instrument. · **Appendix** This section includes troubleshooting information and specifications. **Data List** Contains various important preset content lists such as those of Voices, Styles, Patterns and Effects. **Online Materials (from Yamaha Manual Library)** **MIDI Reference** Contains MIDI related information such as MIDI Data Format and the MIDI Implementation Chart. **MIDI Basics (only in English, French, German and Spanish)** Contains basic explanations about MIDI.

Computer-related Operations Includes instructions on connecting this instrument to a computer, and operations related to transferring song data. To obtain these manuals, access the Yamaha Manual Library, enter "PSR-E433" or "MIDI Basics" to the Model Name box, then click [SEARCH]. **Yamaha Manual Library** <http://www.yamaha.co.jp/manual/> **Online Materials (for Yamaha Online members)** **Song Book (only in English, French, German and Spanish)** Contains music scores for the preset Songs (excluding the Demo Songs) of this instrument. After completing the user registration at the website below, you can download this Song Book free of charge. **Yamaha Online Member** <https://member.yamaha.com/myproduct/regist/> You will need the **PRODUCT ID** on the sheet ("Online Member Product Registration") packaged with this manual in order to fill out the User Registration form.

Included Accessories · Owner's Manual (this book) · Data List · AC Power Adaptor*1 · Music Rest · Online Member Product Registration*2 *1: May not be included depending on your particular locale. Check with your Yamaha dealer. *2: The **PRODUCT ID** on the sheet will be needed when you fill out the User Registration form.



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Music Rest Insert the music rest into the slots as shown. PSR-E433 Owner's Manual 9 Setting Up This instrument has the following documents and instructional materials.

Panel Controls and Terminals Setting Up Display (page 15) Front Panel Setting Up GrandPno 001 001 q e tyui !2 r o !3 !0 !1 @3 w Front Panel q w e r [MASTER VOLUME] control

.Page 14 PITCH BEND wheel.....

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.Page 34 [] (Standby/On) switch

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.Page 14 LIVE CONTROL section [ASSIGN] button

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..Page 21 [A] and [B] knobs

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.Page 21 [DEMO] button.....

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.....Page 24 [LESSON] button.

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...Page 26 [REC] button

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....Page 28 [METRONOME] button.

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.....Page 18 TEMPO section [TAP] button .

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..Page 42 [-] and [+] buttons ...

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.Page 42 [PORTABLE GRAND] button

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.Page 16 !1 VOICE CONTROL section [SPLIT] button.....

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..... Page 17 [DUAL] button

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Page 24 [STYLE] button

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..Page 22 [VOICE] button

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.....Page 16 [MUSIC DATABASE] button .

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.Page 22 [CATEGORY] buttons....

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...Page 14 [REGIST MEMORY] buttons ..
.....
.....Page 31 [FUNCTION] button .

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.....Page 48 @2 Number buttons [1][9], [-/NO], [0/EXECUTE] and [+ /YES] buttons .

.... Page 14 @3 Drum illustrations for the Drum Kit.... Page 16 Each of these indicates the drum or percussion instrument assigned to the corresponding key for "Standard Kit 1." Rear Panel @4 USB terminals USB TO HOST terminal*.

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.....Page 50 USB TO DEVICE terminal ..

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....Page 51 @5 SUSTAIN jack .

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... Page 13 @6 PHONES/OUTPUT jack.....

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.. Page 13 @7 Power supply jack...

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.... Page 12 * For connecting to a computer.

For details, refer to "Computerrelated Operations" (page 9). When connecting, use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used. !4 !5 !6 !7 !8 !9 @0 @1 PSR-E433 Owner's Manual 11 Setting Up Setting Up 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. Installing the batteries 1 Make sure that the power of the instrument is off (display is blank, except for notation staff). 2 Open the battery compartment cover located on the instrument's bottom panel. Setting Up Using an AC Power Adaptor 1 Make sure that the power of the instrument is off (display is blank, except for notation staff). WARNING · Use the specified adaptor (page 61) only.

Using the wrong adaptor can result in damage to the instrument or overheating. 3 Insert the six new batteries, being careful to follow the polarity markings on the inside of the compartment. 2 Connect the AC adaptor to the power supply jack. 3 Plug the AC adaptor into an AC outlet. CAUTION · When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet. 4 Replace the compartment cover, making sure that it locks firmly in place. NOTICE · Connecting or disconnecting the power adaptor with batteries installed may turn the power off, resulting in loss of data being

recorded or transferred at the time.

2 AC power adaptor 3 AC outlet When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries with new ones or already-recharged ones. NOTE · This instrument cannot charge the batteries. Use only the specified charger device when charging. Using Batteries This instrument requires six "AA" size, Alkaline (LR6)/Manganese (R6) batteries, or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries).

The Alkaline batteries or rechargeable NiMH batteries are recommended for this instrument, since other types may result in poorer battery performance.

WARNING · When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging. · Power will be automatically drawn from the AC adaptor if an AC adaptor is connected while batteries are installed in the instrument. 12 PSR-E433 Owner's Manual Setting Up Setting the battery type After installing the new batteries then turning the power on, make sure to set the Battery Type to Rechargeable type or not. For details, refer to page 50. NOTICE · Failure to set the Battery Type may shorten the amount of the battery life. Make sure to set the Battery Type correctly. Checking the power status on the display Power source on the display You can confirm the power source at the left corner of the display. Only one of these is shown. GrandPno When is shown, the power is supplied from the AC power adaptor. When is shown, the power is supplied from the batteries. When the AC power adaptor is connected with the batteries installed, the power is supplied from the AC power adaptor and the indication is shown. 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. CAUTION · Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician. · Before connecting the instrument to other electronic components, set all volume levels to the minimum, then turn off the power for all components. Remaining battery power indication You can confirm the approximate amount of remaining battery power at the top left of the display. Indicates that the power will be turned off immediately.



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When rechargeable batteries are used, this icon flashes before the power is turned off. Indicates that remaining power is insufficient for operation. Before the power runs out, replace all the batteries with new ones, or fully recharged ones (when using rechargeable types).

Note that the instrument may not work properly, including unusually soft volume and poor sound quality when remaining power becomes low. Indicates that the remaining power is sufficient. NOTICE · When the instrument's sound is output to an external device, first turn on the power to the instrument, then to the external device. Reverse this order when you turn the power off. Connecting a Footswitch to the SUSTAIN jack You can produce a natural sustain as you play by pressing an optional Footswitch plugged into the [SUSTAIN] jack.

NOTE · The sustain function does not affect split voices (page 17). · 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. PSR-E433 Owner's Manual 13 Setting Up Connecting Headphones or External Audio Equipment Basic Operations Turning the Power On/Off Turn down the MASTER VOLUME control to "MIN" then press the [] (Standby/On) switch to turn on the power.

While playing the keyboard, adjust the MASTER VOLUME control. To turn off the power, press the [] (Standby/On) switch again for a second. · When the instrument is not operated for a specified period of time while connected to an external device such as an amplifier, speaker or computer, make sure to follow the instructions in the Owner's Manual to turn off the power to the instrument and the connected devices, in order to protect the devices from damage. If you do not want the power to turn off automatically when a device is connected, disable Auto Power Off. Setting Up Selecting Operations Before operating the instrument, it may be helpful to familiarize yourself with the basic controls below that are used to select items and change values. Dial Decrease Increase Rotate the dial clockwise to increase the value, or counterclockwise to decrease the value. Number buttons Use the Number buttons to directly enter an item or value. For numbers that start with one or two zeroes, the first zeroes can be omitted. Example: Selecting Voice 003, Bright Piano. CAUTION · When using a power adaptor, even when the power is off, a small amount of electricity is still being consumed by the instrument.

When you are not using the instrument for a long time, make sure to unplug the AC power adaptor from the wall AC outlet. Auto Power Off Function To prevent unnecessary power consumption, this instrument features an Auto Power Off function that automatically turns the power off if the instrument is not operated for a specified period of time. The amount of time that will elapse before the power is automatically turned off is set by default to 30 minutes. To disable the Auto Power Off function: Turn off the power, then press the [] (Standby/On) switch to turn on the power while holding down the lowest key. Press number buttons [0], [0], [3]. [-] and [+] buttons Press the [+] button briefly to increase the value by 1, or press the [-] button briefly to decrease the value by 1. Press and hold either button to continuously increase or decrease the value in the corresponding direction. To set the time that elapses before Auto Power Off is executed: Press the [FUNCTION] button, press the CATEGORY [+] or [-] button several times until "Auto Power Off" appears then select the desired value. Settings: OFF, 5, 10, 15, 30, 60, 120 Default value: 30 NOTE Press briefly to decrease. Press briefly to increase.

· Generally, the data and settings are maintained even when the power is turned off. For details, see page 32. CATEGORY buttons Use these buttons to jump to the first Voice, Style, or Song in the next or previous Category, and call up the next or previous Function sequentially. NOTICE · Depending on the instrument status, the power may not turn off automatically, even after the elapse of the specified period of time. Always turn off the power manually when the instrument is not in use.

14 PSR-E433 Owner's Manual Display Items The display shows all the current settings of the Song, Style Pattern, Voice and other related functions. Power source status Indicates the source from which this instrument obtains power, AC power adaptor or batteries. (Page 13) Notation Normally this indicates the notes you play. When the Song Lesson function is used, this indicates the current notes and chord of playback. When the Dictionary function is used, this indicates the notes of the chord you specify.

NOTE USB connection status Appears when USB flash memory is connected to this instrument. (Page 51) · Any notes occurring below or above the staff are indicated by "8va. " · For a few specific chords, not all notes may be shown, due to space limitations in the display. GrandPno 001 001 On/off status This area indicates the on/off status of each function. Each indication is shown when the corresponding function is turned on. Beat Indicates the current beat of playback. (Page 24) Knob assignment Indicates the parameters currently assigned to the Knobs. (Page 21) Page 17 Page 16 Page 19 Page 20 Page 35 Page 22 Page 41 FUNCTION and MEASURE Indicates the Function number when the [FUNCTION] button is pressed, or the current Measure number during playback of a Song, Style or Pattern. Chord Indicates the chord which is being played on the keyboard (Page 22) or specified via Song playback. Track status Indicates the on/off status of the current Song, Style or Pattern.

(Pages 23, 28, 41) 001 PSR-E433 Owner's Manual 15 Setting Up 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, and even sound effects--giving you a wide variety of musical sounds. Selecting a Main Voice 1 Press the [VOICE] button. The Voice number and name will be shown. Voice name Playing the "Grand Piano" When you want to reset various settings to default and simply play a Piano sound, press the [PORTABLE GRAND] button. GrandPno 001 Voice number Appears after the [VOICE] button is pressed. The Voice number is set to 001 Grand Piano and all the settings such as Dual and Split are turned off automatically, with exception of the Touch Sensitivity (page 35). Quick Guide 2 Use the dial to select the desired Voice. Flute 148 Select 148 Flute Layering a Dual Voice In addition to the Main Voice, you can layer a different Voice over the entire keyboard as a "Dual Voice." 3 Play the keyboard.



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Pressing the [1/RIGHT] and [2/LEFT] buttons repeatedly will toggle the on/off status of each part, which can be shown on the display. For Elise 015 Right-hand lesson Left-hand lesson Both-hands lesson Track 1 is unlit Track 2 is unlit WAITING NOTE NOTE Track 1 and 2 are unlit · If you want to keep a steady playback tempo is maintained during Lesson 3: Waiting, set the Your Tempo parameter (page 50) to OFF.

· Song numbers 075100 only support the right-hand lesson. 3 Press the [LESSON] button to start playback of the Song Lesson. After starting playback, pressing the [LESSON] button repeatedly will change the Lesson number from 1: LISTEN 2: TIMING 3: WAITING off 1.... Press this button until the desired number is shown on the display. TIMING Lp2 007 The notation and key positions you should play are shown. 26 PSR-E433 Owner's Manual Using the Song Lesson Feature To stop Lesson playback, press the [START/ STOP] button. Even during playback, you can change the Lesson number by pressing the [LESSON] button.

Making Practice Perfect-- Repeat & Learn If you want to practice a specific section in which you made a mistake or you have difficulty with use the Repeat & Learn function. 4 When Lesson playback reaches to the end, check your evaluation Grade on the display. "2 Timing" and "3 Waiting" will evaluate your performance in four levels: OK, Good, Very Good, or Excellent. See How You've Done Press the [] (REPEAT & LEARN) button during a Lesson playback.

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. NOTE · You can change the amount of measures the Repeat & Learn function jumps back by pressing a number button [1][9] during repeat playback. After the evaluation display has appeared, the lesson will start again from the beginning. PSR-E433 Owner's Manual 27 Quick Guide Excellent Very Good Good OK ~~~~~ ~~~~~ ~~~~~ ~ The Song location will move back four measures, a one-measure count will play, then Song playback will start again. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ If a User Song was not selected beforehand, this operation selects the lowest-numbered unrecorded User Song (from 101110) as Recording target.

6 User 1 rEC Flashes 001 To play back the recorded Song, press the [START/STOP] button. Flashes To exit from this status, press the [REC] button again. NOTE · The ACMP on/off status cannot be changed after the [REC] button is pressed. PSR-E433 Owner's Manual Recording Your Performance Recording to a Specified Track The operation here is useful especially when you want to record the additional performances to an already recorded Song. If you want to record only the Pattern playback: Press the [Pattern] button, then select the desired Pattern. While holding down the [REC] button, press the [6/A] button. ACMP is automatically turned on. 1 Press the [SONG] button, then select the desired User Song (101110) as the recording target. User 1 101 Song number Press and hold User 1 rEC 001 2 While holding down the [REC] button, press the desired Track button to enter the Record Ready mode. If you want to record only the melody: While holding down the [REC] button, press one of the [1][5] buttons.

3 Same as in Steps 4 to 6 (page 28) in "Quick Recording." NOTE · If the memory becomes full while recording, an alert message will appear and recording will stop automatically. In this case, delete unnecessary data by using the Clear functions (page 30), then execute the recording again. Press and hold User 1 rEC 001 Track 1 will flash If you want to record only the Style playback: Press the [STYLE] button, select the desired Style, then simultaneously hold down the [REC] button and press the [6/A] button. ACMP is automatically turned on. Limitations while recording · The on/off status of ACMP cannot be changed. · Playback cannot be changed between Style and Pattern. · The Pattern number can be changed while the Style number cannot. · When you use a Style/Pattern, the following parameters cannot be changed: Reverb Type, Chorus Type, Time Signature, Style number and Style/ Pattern Volume. · Performance with a Split Voice cannot be recorded.

Press and hold User 1 rEC 001 PSR-E433 Owner's Manual 29 Quick Guide Recording Your Performance Clearing a User Song You can clear all tracks of a User Song. Clearing a Specified Track from a User Song This lets you clear individual tracks from a User Song. 1 2 Press the [SONG] button, then select the User Song (101110) to be cleared. While holding down the track [A] button, press the track [1] button for longer than a second. A confirmation message will appear on the display.

1 2 Press the [SONG] button, then select the desired User Song (101110). From [1][5] and [A], press the Track button to be cleared for longer than a second. A confirmation message will appear on the display. Quick Guide Hold for longer than a second. Press and hold Hold for longer than a second. ClrUser1 YES ClrTr1 YES 3 4 Press the [+] button. A confirmation message will appear on the display. To cancel this operation, press the [-] button. Press the [+] button to clear the Song. A clear-in-progress message will appear briefly on the display. 3 4 Press the [+] button. A confirmation message will appear on the display. To cancel this operation, press the [-] button. Press the [+] button to clear the track. A clear-in-progress message will appear briefly on the display.

30 PSR-E433 Owner's Manual Memorizing Your Favorite Panel Settings This instrument has a Registration Memory feature that lets you memorize your favorite settings for easy recall whenever they're needed. Up to 32 complete setups can be saved (eight banks of four setups each). 8 Banks Memory 1 Memory 2 Memory 3 Memory 4 Up to 32 presets (eight banks of four each) can be memorized. Memorizing Panel Settings to the Registration Memory 1 2 Make the desired settings such as those for Voice, Style, and Pattern. Press and release the [MEMORY/BANK] button to call up a Bank number on the display. Recalling Panel Settings from the Registration Memory 1 2 3 Press and release the [MEMORY/BANK] button to call up a Bank number on the display. Use the dial or the [1][8] number buttons to select a Bank number. Press one of the [1][4] buttons to call up the panel settings you memorized. The recalled REGIST MEMORY number appears in the display for a few seconds. Bank 1 Bank number 3 Use the dial or the [1][8] number buttons to select a Bank number.

NOTE REGIST 1 1 IMPORTANT · Data cannot be saved to the Registration Memory during Song playback. 4 While holding down the [MEMORY/ BANK] button, press one of the [1][4] buttons to memorize the current panel settings. · When recalling the panel settings from the Registration Memory, make sure to press the same button--[STYLE] or [PATTERN]--corresponding to the mode used when you memorize the panel settings.



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This is necessary since the mode status (Style or Pattern) is not memorized to the Registration Memory, meaning that it cannot be called up even if you press the REGISTRATION MEMORY button. Parameters that can be memorized to Registration Memory Style settings* Style number, ACMP on/off, Style volume, Track on/off Pattern settings** Pattern number, Pattern volume, Section, Track on/off Press and hold Voice settings Main Voice settings: Voice number and all settings of the related Functions Dual Voice settings: Dual on/off and all settings of the related Functions Split Voice settings: Split on/off and all settings of the related Functions Writing! NOTICE · If you select a Registration Memory number that already contains data, the previous data is deleted and overwritten by the new data.

· Do not turn off the power while memorizing settings to the Registration Memory, otherwise the data may be damaged or lost. NOTE Effect settings Reverb Type, Chorus Type Arpeggio settings Arpeggio on/off and all settings of the related Functions Harmony settings Harmony on/off and all settings of the related Functions Other settings Transpose, Pitch Bend Range, Knob Effect Combination number, Split Point, Tempo * Available only when a Style is selected. ** Available only when a Pattern is selected. · Appropriate panel settings for each Pattern are pre-programmed to Banks 13. For details, refer to page 34. PSR-E433 Owner's Manual 31 Quick Guide Backup Parameters and Initialization Backup Parameters The following data will be maintained even if the power is turned off and can be transferred then saved to a computer via Musicsoft Downloader as a single Backup file. For instructions, refer to "Computer-related Operations" (page 9). · User Song data (page 28) · Style data transferred from a computer and loaded to Style numbers 187191 (page 57) · Registration Memory data (page 31) · Function Settings (page 48): Tuning, Split Point, Touch Sensitivity, Style Volume, Song Volume, Pattern Volume, Metronome Volume, Grade, Demo Group, Demo Play, Demo Cancel, Master EQ type, Your Tempo on/off, Auto Power Off setting, Battery Select, Language In addition to the Backup data above, all the Style data (including data that have not been loaded) and all the Song data will be maintained even if you turn off the power. To initialize Backup data, execute "Backup Clear" explained below. To initialize data (excluding Backup data) transferred from a computer, execute "Flash Clear" explained below. Initialization This function erases the Backup data described above and Song/Style data, then restores all the default factory settings. As required, execute one of the following two procedures. Backup Clear This operation initializes the backup data. While holding down the highest white key on the keyboard, press the [] (Standby/On) switch to turn the power on. Quick Guide Flash Clear This operation deletes all the Songs and Styles that have been transferred from a computer.

Note that Style data loaded to Style numbers 187191 will be maintained. While simultaneously holding the highest white key and the three highest black keys, press the [] (Standby/On) switch to turn the power on. NOTICE · Keep in mind that this operation also deletes the data you have purchased. Be sure to save the important data to a computer via Musicsoft Downloader (MSD) software. For details, refer to "Computer-related Operations" (page 9). 32 PSR-E433 Owner's Manual Handy Performance Features Reference Selecting a Reverb Type The Reverb effect lets you play with a rich concert hall type ambience.

Although selecting a Style or Song will call up the optimum Reverb type for the entire sound, you can select a different Reverb type manually. Selecting a Chorus Type The Chorus effect creates a thick sound that is similar to many of the same Voices being played in unison. Although selecting a Style or Song will call up the optimum Chorus type for the entire sound, you can select a different Chorus type manually. 1 Press the [FUNCTION] button.

1 Press the [FUNCTION] button. 2 Use the CATEGORY [+] and [-] buttons to call up "Reverb" (Function 034). After "Reverb" is shown for a few seconds, the current Reverb Type is shown. 2 Use the CATEGORY [+] and [-] buttons to call up "Chorus" (Function 035). After "Chorus" is shown for a few seconds, the current Chorus Type is shown.

Reverb 034 Chorus 035 Hall2 02 034 Chorus1 1 035 Current Reverb type NOTE NOTE Current Chorus type · Some Songs and Styles use Reverb Types which cannot be selected via panel operation. If such a Song or Style is played back, "- - -" is shown on the display. · Some Songs and Styles use Chorus Types which cannot be selected via panel operation. If such a Song or Style is played back, "- - -" is shown on the display. 3 Rotate the dial to select a Reverb type.

Play the keyboard to check the sound. For information about the available Reverb types, refer to the Effect Type List in the Data List (page 9). Adjusting the Reverb depth You can adjust the Reverb depth applied to the Main, Dual, and Split Voices individually via the same operations above. Regarding the item in Step 2, refer to the Function List on page 48. 3 Rotate the dial to select a Chorus type. Play the keyboard to check the sound. For information about the available Chorus types, refer to the Effect Type List in the Data List (page 9). Adjusting the Chorus depth You can adjust the Chorus depth applied to the Main, Dual, and Split Voices individually via the same operations above. Regarding the item in Step 2, refer to the Function List on page 48. PSR-E433 Owner's Manual 33 Reference Handy Performance Features Pitch Controls--Transpose The overall pitch of the instrument (except for the Drum Kit Voices) can be shifted up or down by a maximum of 1 octave in semitone increments.

Pitch Controls--the PITCH BEND wheel The PITCH BEND wheel can be used to add smooth pitch variations to notes you play on the keyboard. Roll the wheel upward to raise the pitch, or downward to lower the pitch. 1 Press the [FUNCTION] button. 2 Use the CATEGORY [+] and [-] buttons to call up "Transpos" (Function 004). Transpos 00 004 3 Use the dial to set the Transpose value between -12 and +12. You can change the amount of pitch bend produced by the wheel. Refer to "Pitch Bend Range" in the Function List (page 48). Pitch Controls--Tuning The overall tuning of the instrument (except for the Drum Kit Voices) can be shifted up or down between 427 Hz and 453 Hz in approximately 0.2Hz increments. The default value is 440.

0 Hz. Calling up Optimum Panel Settings You can call up optimum panel settings that are ideal and stylistically appropriate for the current Song, Style or Pattern--with a single touch. If you don't know what settings are best with a selected Voice, for example, use the following functions.



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Reference 1 Press the [FUNCTION] button. To call up the settings for a Song or Style (One Touch Setting): Select Voice number "000 OTS. In this status, selecting a Style or Song will call up the optimum panel settings matching the current Song or Style. To call up the settings for a Pattern: Press the [PATTERN] button, then use the Registration Memory function (page 31). As listed below, the panel settings appropriate for each Pattern are provided by default. Bank # Memory # Pattern # 1 1 001 1 2 002 1 3 003 1 4 004 2 1 005 Bank # Memory # Pattern # 2 2 006 2 3 007 2 4 008 3 1 009 3 2 010

2 Use the CATEGORY [+] and [-] buttons to call up "Tuning." Tuning 005 3 Use the dial to set the Tuning value.

440.0Hz 005 The above settings are erased when you memorize your panel settings. To restore them, execute the Initializing operation (page 32). 34 PSR-E433 Owner's Manual Handy Performance Features Changing the Touch Sensitivity of the Keyboard The keyboard of this instrument is equipped with a Touch Response feature that lets you dynamically and expressively control the level of the Voices according to your playing strength. Selecting an EQ Setting for the Best Sound Five different master equalizer (EQ) settings are provided to give you the best possible sound when listening through different reproduction systems--the instrument's internal speakers, headphones, or an external speaker system. 1 Press the [FUNCTION] button. 1 Press the [FUNCTION] button. 2 Press the CATEGORY [+] or [-] button several times until "TouchSns" (Function 008) appears. "TouchSns" is shown in the display for a few seconds, and the current Touch Sensitivity is shown. 2 Press the CATEGORY [+] or [-] button several times until "MasterEQ" (Function 036) appears.

"MasterEQ" is shown in the display for a few seconds, and the current Master EQ type appears. TouchSns 008 MasterEQ 036 Medium 2 008 Speaker Reference 35 Current Touch Sensitivity 1 036 Current EQ type 3 Use the dial to select a Touch Sensitivity setting between 1 and 4. When "1""3" is selected, higher values produce greater (easier) volume variation in response to keyboard dynamics--i.e. greater sensitivity. When "4" (off) is selected, all notes will be played at the same volume no matter how strongly or softly you play the keys. NOTE 3 Use the dial to select the desired Master EQ type. Settings 1 and 2 are best for listening via the instrument's built-in speakers, setting 3 is for headphones, and settings 4 and 5 are ideal for listening via external speakers. NOTE The initial default Touch Sensitivity value is "2" . . "Boost" produces a more punchy sound but may produce distortion depending on the Voice and Style, compared to the other Master EQ types.

PSR-E433 Owner's Manual Voice Settings Selecting a Dual Voice Voice Editing For each of the Main, Dual and Split Voices, you can edit the parameters such as volume, octave and depth of the Reverb and Chorus, allowing you to create new, custom sounds that best suit your musical needs. 1 Hold down the [DUAL] button for longer than a second to call up "D.Voice." "D.VOICE" is shown for a few seconds, then the current Dual Voice appears. D.Voice 018 1 Press the [FUNCTION] button. Syn.Str 074 018 2 Current Dual Voice 2 Rotate the dial to select the desired Dual Voice. Use the CATEGORY [+] and [-] buttons to call up the desired item.

Main Voice parameters are indicated as "M.*****," Dual Voice parameters as "D.*****," and Split Voice parameters as "S.*****." For information about each parameter, refer to the Function List on page 48. M.Volume 064 009 Selecting a Split Voice 1 Reference Hold down the [SPLIT] button for longer than a second to call up "S.Voice." "S.VOICE" is shown for a few seconds, then the current Split Voice appears.

3 4 5 Rotate the dial to set the value. Check the sound by playing the keyboard. Repeat Steps 23 above to edit various parameters. If necessary, memorize the settings to the Registration Memory (page 31). The Voice-related settings are reset when a different Voice is selected. If you want to store the created sound for future recall, memorize the settings to the Registration Memory. S.Voice 028 FngrBass 053 028 Current Split Voice 2 Rotate the dial to select the desired Split Voice. 36 PSR-E433 Owner's Manual Parameters Assigned to the Knobs This section describes each of the parameters which can be assigned to the Knobs (page 21). z FILTER c EG (Envelope Generator) Filter effects shape the 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 synthesizerlike sounds. NOTE 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 best match the music you're playing. Level These effects are applied only to the Main/Dual Voices played on the keyboard.

Filter effects can sometimes cause distortion in the bass frequencies. Sustain Level Knob A: CUTOFF Adjusts the filter's cutoff frequency, and therefore the brightness of the sound. Turning the Knob to the left makes the sound more muffled or darker, while turning the Knob A to the right makes the sound brighter. Level Cutoff Frequency ATTACK DECAY RELEASE Time Key Played Key Released Knob A: ATTACK Adjusts the Attack Time (the amount of time it takes the sound to reach maximum level when a key is played). Turning the Knob to the right will increase the Attack Time, thus slowing down the attack rate.

Knob B: RELEASE Adjusts the Release Time (the amount of time it takes for the sound to decay to silence after a key is released). Turning the Knob to the right will increase the Release Time, thus make a longer sustain. NOTE Frequency Frequencies in this range are passed. Frequencies in this range are cut off. These effects are applied only to the Main/Dual Voices played on the keyboard. Level v STYLE FILTER Resonance Same as "z FILTER." These effects are applied only to Style or Pattern playback. b Frequency SOUND IMAGE x EFFECT Knob A: PAN Moves the stereo pan position of the entire sound rightward or leftward according to the Knob position. Knob B: ULTRA-WIDE STEREO Lets you play the keyboard with a spacious, dynamic sound effect that gives you the sensation of hearing the sound outside of the speakers. By changing the wide effect type in the Function settings (page 49), you can enjoy different sound variations.

Knob A: REVERB Reproduces the acoustic ambience of a concert hall or club. Turning the Knob to the right will increase the Reverb depth.



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