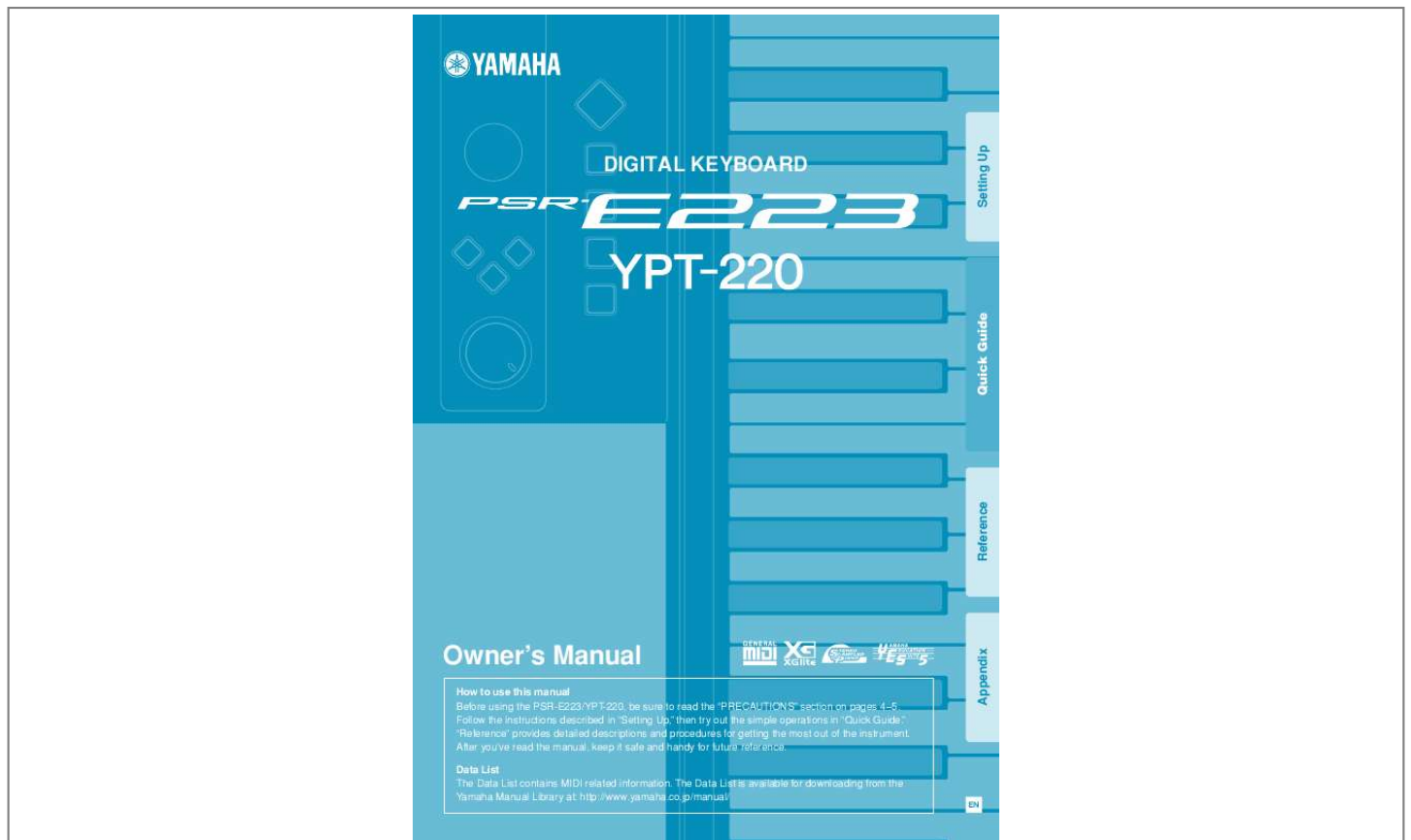




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User manual YAMAHA YPT-220
User guide YAMAHA YPT-220
Operating instructions YAMAHA YPT-220
Instructions for use YAMAHA YPT-220
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Manual abstract:

@@DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha. 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. This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

@@Batteries MUST be installed correctly. @@Keep all batteries away from children. @@@@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. 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. 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.

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. Model Serial No. Purchase Date 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: Battery Notice: This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement. PLEASE KEEP THIS MANUAL 92-BP (bottom) 2 PSR-E223/YPT-220 Owner's 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. other electronic devices. Compliance with FCC regulations does 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. 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 * This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (class B) PSR-E223/YPT-220 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, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following: Power supply/AC power adaptor · 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 (PA-130 or an equivalent recommended by Yamaha) 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. · Do not place the AC adaptor 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. Water warning · Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it 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. Fire warning · Do not put burning items, such as candles, on the unit.



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A burning item may fall over and cause a fire. Do not open · Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel. If you notice any abnormality · If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel. 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 · When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. · Unplug the AC power adaptor when not using the instrument, or during electrical storms. · 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. Location · 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 or damage to the internal components.

· 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 place the instrument in an unstable position where it might accidentally fall over. · Before moving the instrument, remove all connected adaptor and other cables. · 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. · 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. Battery · 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. · Always replace all batteries at the same time. Do not use new batteries together with old ones.

Also, 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 dispose of batteries in fire. · Do not attempt to recharge batteries that are not intended to be charged. · 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. · 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. 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.

Also, 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. Maintenance · When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths. 4 (4)-13 1/2 form. (4)-13 2/2 PSR-E223/YPT-220 Owner's Manual 5 What You Can Do With the PSR-E223/YPT-220 Playing Changing Voices > pages 12, 13 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 also restore the piano settings with a simple press of a button. Adding Reverb to the sound > page 32 The reverb effects add a warm ambience to the sound, simulating the complex reflections of actual performance spaces, such as a concert hall or small club. Play along with the styles > page 18 You can select from 100 different styles (auto accompaniment) for playing along on the keyboard-- giving you the equal...

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.. 26 Display

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. 27 Song Lesson 28 Lesson 1 (Listen & Learn)...

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. 28 Lesson 2 (Timing)

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.... 10 Changing the tempo of the Song.

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... 37 Mute ..

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..... 37 Practice Makes Perfect

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..... 38 Song Volume ..

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..... 38 Tap Start...

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... 39 Changing the Melody Voice ..

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.... 39 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 8 Using an AC Power Adaptor q Make sure that the power of the instrument is off (display is blank, except for notation staff). WARNING · Use the specified adaptor (PA-130, or an equivalent recommended by Yamaha) only. The use of other adaptors may result in irreparable damage to both the adaptor and the instrument. w Connect the AC power adaptor to the power supply jack. e Plug the AC adaptor into an AC outlet. CAUTION · Unplug the AC Power Adaptor when not using the instrument, or during electrical storms. w 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, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries, following the precautions listed below. CAUTION e AC power adaptor AC outlet Using Batteries q Open the battery compartment cover located on the · Use alkaline batteries for this instrument.



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Other types of batteries (including rechargeable batteries) may have sudden drops of power when battery power becomes low. · Make sure to install the batteries with the proper orientation, 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 is not to be in use for a long time, remove the batteries from it, in order to prevent possible fluid leakage from the battery. instrument's bottom panel. w Insert the six new alkaline batteries, being careful to follow the polarity markings on the side of the compartment.

e Replace the compartment cover, making sure that it locks firmly in place. CAUTION · Never connect or disconnect the AC power adaptor when the power is on and the batteries are installed. Doing so will turn the power off. PSR-E223/YPT-220 Owner's Manual Setting Up Make all necessary connections BEFORE turning the power on. Connecting headphones and External Audio Equipment Turn down the volume by turning the [MASTER VOLUME] control to the left and press the [STANDBY/ON] switch to turn on the power.

While playing the keyboard, adjust the volume level by using the [MASTER VOLUME] control. Pressing the [STANDBY/ON] switch again turns the power off. You can connect the PHONES/OUTPUT jack to a set of headphones, keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's output signal to that device. The internal speakers are automatically shut off when a plug is inserted into this jack. The PHONES/OUTPUT jack also functions as an external output. CAUTION · 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. All panel settings as well as the settings made via the display are reset to their default values whenever the power is turned off. 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, and/or remove the batteries from the instrument. CAUTION · To prevent damage to the speakers, set the volume of the external devices at the minimum setting and turn power off the devices before connecting them.

Failure to observe these precautions may result in electric shock or equipment damage. Also, be sure to set the volumes of external devices at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level. Using the music rest Insert the music rest into the slots as shown. Connecting a footswitch The sustain function lets you produce a natural sustain as you play by pressing an optional footswitch. Plug the Yamaha FC4 or FC5 footswitch into the SUSTAIN jack and use it to switch sustain on and off. NOTE · 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-E223/YPT-220 Owner's Manual 9 Setting Up Turn on the power Panel Controls and Terminals Front Panel q [STANDBY/ON] switch ..

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page 9 w [MASTER VOLUME] control

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...page 9 e [1 LISTEN & LEARN] button.....

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....page 29 r [2 TIMING] button

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..page 30 t [3 WAITING] button ...

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.....page 31 y LESSON PART [L] button ...

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.....page 29 [R] button..

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.....page 29 u [METRONOME] button.

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. pages 14, 36 i [TEMPO/TAP] button.....
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.... pages 22, 37, 39, 40 o [SONG] button.....

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..... pages 16, 26 !0 [VOICE] button .
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... pages 12, 26 !1 [STYLE] button.....

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..... pages 19, 26 !2 Number buttons [0][9], [+], [-]...
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.....page 26 !3 [FUNCTION] button.....
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.....page 43 !4 [DEMO] button.
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.....page 17 When the Song mode !5 [A-B REPEAT] button...

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....page 38 !6 [REW] button

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....page 17 !7 [FF] button .

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...page 17 !8 [PAUSE] button..

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page 17 When the Style mode !5 [ACMP ON/OFF] button

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...page 20 !6 [INTRO/ENDING/rit.] button.

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.page 23 !7 [MAIN/AUTO FILL] button.....

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.....page 23 !8 [SYNC START] button....

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..... pages 19, 40 !9 [START/STOP] button .

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page 17 @0 [PORTABLE GRAND] button.....

Press the [PORTABLE GRAND] button. The Voice "Grand Piano1" will automatically be selected as the Main Voice. PSR-E223/YPT-220 Owner's Manual 13 Quick Guide Changing the Voices Metronome Fun Sounds Percussion and drum icons Quick Guide 14 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. If you want to adjust the metronome tempo, press the [TEMPO/TAP] button to call up the Tempo setting in the display, then press the [+] button to raise the tempo, or press the [-] button to lower it. You can also set the tempo using the number buttons on the front panel. Current Tempo value NOTE · You can set the time signature (page 36).



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116 Tempo PSR-E223/YPT-220 Owner's Manual Changing the Voices Playing the Drum Kit Voice When Voice number 130 (Drum Kit) is selected in step 2 on page 13, you can play different percussion sounds directly from the keyboard. To check which percussion sounds are assigned to each key when you select Voice number 130, look at the icons printed above the keys.

You can select and play the desired Drum Kit from 12 preset Drum Kits (Voice number 130142). Details on the instruments and key assignments of each Drum Kit can be found in the Drum Kit List on page 52. Fun Sounds You'll be able to play various sound effects from the keyboard: barking, braying, yelling, and much more. Press the [SOUND EFFECT] button. Try out each key and enjoy the sounds.

Don't forget the black keys! After trying out these sounds, press the [PORTABLE GRAND] button to reset the instrument Voice to the default setting of Voice "Grand Piano." PSR-E223/YPT-220 Owner's Manual 15 Quick Guide Playing Songs This instrument has 102 built-in Songs. For this instrument, the term "Song" refers to the data that makes up a piece of music. Listening to a Song. 3 12 Quick Guide Select and Listen to a Specific Song 1 Press the [SONG] button.

The Song number and name are displayed. Song number Song name 001 Demo 1 -05 16 PSR-E223/YPT-220 Owner's Manual Playing Songs 2 Select a Song. Select the desired song by using the number buttons [0][9], [+], [-]. Refer to the Song List on page 55. Press the [START/STOP] button. The Song will begin playing. You can stop playback at any time by pressing the [START/STOP] button. · Songs can be played at any tempo you desire--fast or slow (page 37). Rewind/Fast-forward/Pause [REW] button ..

..... Fast-reverses the Song if pressed during playback (no sound is heard during fast reverse).
Decreases the measure number if pressed while playback is stopped. [FF] button....

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..... Fast-forwards the Song if pressed during playback. Increases the measure number if pressed while playback is stopped. [PAUSE] button .

..... Temporarily stops playback. Press this button a second time to resume playback from the point at which it was stopped. Using the [DEMO] button Press the [DEMO] button to play Songs 001, 002, 003, 059, 072, 004, 024, 043 in sequence, and playback will continue repeatedly starting again from the first Song 001.

You can stop playback at any time by pressing the [DEMO] button. PSR-E223/YPT-220 Owner's Manual 17 Quick Guide 3 NOTE Play with a Style Styles are rhythm/accompaniment patterns and are played by the auto accompaniment feature. You can select from a wide variety of rhythmic types--rock, blues, Euro trance, and many, many more. Here we'll learn how to select and play Styles using chords. While you play, you can automatically add specially created intros and endings, as well as variations in the rhythm/chord patterns, for more dynamic, professional-sounding performances.

5 43 6 1 2 Quick Guide 18 Split Point Auto Accompaniment range Try playing chords with your left hand. Play a melody with your right hand. Before Performance Select the "Strings 1" Voice as the melody Voice, referring to step 2 on page 12. PSR-E223/YPT-220 Owner's Manual Play with a Style Play along with the styles 1 Press the [STYLE] button. The Style number and name are displayed.

Style number Style name 001 8BtModrn 001 2 Select a Style. Select the desired Style by using the number buttons [0][9], [+], [-]. Refer to the Style List on page 54. NOTE 018 LoveSong · Since the Pianist category Styles (093100) have no rhythm parts, no sound will be produced if you start rhythm-only playback. To use these Styles, turn on the auto accompaniment and play the keyboard as described on page 20. (The bass and chord accompaniment parts will sound.) 3

Turn SYNC START on. Press the [SYNC START] button. 018 LoveSong 001 Flashes when Sync Start is on. PSR-E223/YPT-220 Owner's Manual 19 Quick Guide Play with a Style 4 Turn auto accompaniment on.

Press the [ACMP ON/OFF] button. Press the [ACMP ON/OFF] button again to turn the auto accompaniment off. NOTE 018 LoveSong 001 · If you press the [START/STOP] button while the auto accompaniment is off, only the rhythm (percussion) parts will start. Appears when auto accompaniment is on When auto accompaniment is on ... The keys to the left of the Split Point (54; F#2) will play only chords. This is known as the "Auto Accompaniment range." Split Point (page 41) Quick Guide Auto Accompaniment range 5 Start playing along on the keyboard. Style playback will begin as soon as you play a chord in the accompaniment range of the keyboard.

In this case, try out the Song "Aura Lee" on the next page for practice purpose. For information on how to enter chords, see page 24. Split Point Auto Accompaniment range 6 Stop playing. Playback will stop as soon as you press the [START/STOP] button. 20 PSR-E223/YPT-220 Owner's Manual Play with a Style Practice -- Aura Lee -- Style: 018 LoveSong Voice: 034 Strings 1 Composer: G.

Poulton C D G F A G7 PSR-E223/YPT-220 Owner's Manual 21 Quick Guide Play with a Style Changing the tempo of the Style Styles can be played at any tempo you desire--fast or slow. 1 2 Quick Guide 1 Press the [TEMPO/TAP] button to call up the Tempo setting in the display after selecting a Style. Current Tempo value 070 Tempo 2 Set the Tempo by using the number buttons [0][9], [+], [-]. NOTE · Press the [+] and [-] buttons simultaneously to instantly reset the value to the default tempo of a Style. 22 PSR-E223/YPT-220 Owner's Manual Play with a Style Pattern Variation (Sections) The instrument features a wide variety of Style "sections" (patterns) that allow you to vary the arrangement of the accompaniment to match the Song you are playing.

Intro This is the beginning of the Song. Main This is the main part of the Song. Ending This is the end of the Song. This is the transition between main patterns. Adding an Intro Pressing the [INTRO/ENDING/rit.] button before playing back the Style automatically adds a short introduction before starting the actual (Main) rhythm. When the intro finishes playing, Style playback shifts to the main section. Switching Main Patterns There are two variations on the basic pattern (A and B). These are alternately selected each time the [MAIN/AUTO FILL] button is pressed. The main accompaniment pattern plays, and repeats indefinitely until another section's button is pressed.

Adding a Fill-in A Fill-in pattern is automatically added before changing to section A or B. Adding an Ending Press the [INTRO/ENDING/rit.



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J button to begin playing an ending section. Playback will stop when the ending has played all the way through. If you press the [INTRO/ENDING/rit.] button a second time (while the ending is playing) the ending will play ritardando (the tempo will gradually get slower). PSR-E223/YPT-220 Owner's Manual 23 Quick Guide Fill in Play with a Style Playing chords along with score of the Song Below is an example of a melody score with chord indications. Chord C D Quick Guide Play the melody on the staff with your right hand, and chords with your left hand. Find the appropriate chords on the next page and play them as illustrated. Chords Melody Chord names From the chord name, you can tell at a glance what type of chord it is and which notes make up the chord. Understanding the basic structure of chords is very useful--once you're familiar with this, you'll be quickly and easily play chords by looking at the names that appear above the notation. Cm Cm Root note Chord type Major 3rd Minor 3rd Taking the chord above as an example, the lowest note of this triad is called the "root note." This is the central note sound, and it supports or anchors the rest of the notes chord. Upper case letters (including sharps or flats) at the left of the chord name shows root note. The chord name is determined by a root note and chord type like as major or minor, and so on.

24 PSR-E223/YPT-220 Owner's Manual Play with a Style 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 E Em E7 Em7 EM7 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). PSR-E223/YPT-220 Owner's Manual 25 Quick Guide Basic Operation and Displays Reference Basic Operation Press a button to select a basic function: Voice, Song or Style. 3 Start a function. Display (page 27) 1 Select a basic function. 2 Select an item or value. 001 GrandPno 001 Press the [SONG] button to access the SONG functions (printed above the buttons), and press the [STYLE] button to access the STYLE functions (printed below).

Number buttons [0][9] The number buttons can be used to directly enter a Song, Style or Voice number or parameter value. For numbers that start with one or two zeroes, the first zeroes can be omitted. Example: Selecting Voice 002, Grand Piano2. Press number buttons [0], [0], [2]. Reference The "Press & Hold" Symbol Buttons having this indication can be used to call up an alternate function when the relevant button is pressed and held. Hold down this button until the function calls up. 26 PSR-E223/YPT-220 Owner's Manual [+], [-] 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. Press briefly to decrease. Press briefly to increase.

Basic Operation and Displays Display The Main display shows all of the current basic settings for Song, Style and Voice. It also includes a range of indicators that show the on/off status for various 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 SONG/VOICE/STYLE Indicate the operating condition of the instrument.

REVERB · 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. Appears when Reverb is on (page 32). ACOMP ON Appears when the auto accompaniment is on.

001 GrandPno Reference Song track display Measure 003 Chord Display Indicates the name of the chord currently being played back, or the name of the chord being played on the keyboard. Keyboard Display Information related to the Song tracks is shown here. (See page 37.) Lit: Track contains data Unlit: Track is muted or contains no data Indicates notes currently being played. Indicates the melody and chord notes of a Song when the Song lesson function is in use. Also indicates the notes of a chord--either when playing a chord or when using the Dictionary function. Indicates the current measure during playback of a Song. Beat Display 003 Indicates the beat of the current Style or Song with flashing arrows. PSR-E223/YPT-220 Owner's Manual 27 Song Lesson Yamaha Education Suite 5 You can select any Song you like and use it for a left-hand, right-hand, or both-hands lesson. Song Lesson lets you learn how to play Songs in three easy steps.

Lesson Flow Select a Song for your lesson. Select the part you want to practice. Select the practice method. Start the Lesson! The practice methods: Lesson 1 (Listen & Learn)

. Listen and learn the melody or rhythm of a selected Song. Lesson 2 (Timing) ...

.....

.... Learn to play the notes at the correct timing along with the Song. Lesson 3 (Waiting)

.....

.....

..... Learn to play the correct notes. Lesson 1 (Listen & Learn) There's no need to play the keyboard in Lesson 1. The model melody/chords (in other words, the musical material you should learn) of the part you selected will sound. Listen to it carefully and learn it well.

NOTE 1 Select the desired Song for your lesson. Press the [SONG] button, and then select a Song (referring to the Song list on page 55) by using the number buttons [0][9], [+] and [-]. · You cannot select the part during Song playback before Lesson 1 starts.



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If a Song is currently being played back, stop the Song first, then continue from Step 2. Reference 041 MusIDen -05 28 PSR-E223/YPT-220 Owner's Manual Song Lesson 2 Select the part you want to practice. Press the [R] button for a right-hand lesson, [L] button for a left-hand lesson, or press both the [R] and [L] buttons simultaneously for a both-hands lesson. The selected part is displayed. Left-hand lesson Right-hand lesson Left Right Both-hands lesson BothHand Song number 001 is intended for use as right-hand lessons, and cannot be used for left-hand or both-hands lessons. A "No LPart" message is shown in the display if you select the left part in the Song number 001. 3 · Even after Lesson 1 has started and the Song is playing, you can still select the part. · When the melody Voice of the Song is changed, the key position shown in the display may be shifted (in octave units), depending on the Voice selected. · You can select Lessons 13 by pressing the [LISTEN & LEARN], [TIMING] and [WAITING] buttons, respectively. r1 LISTEN 011 The notation and key positions of the model melody are shown in the display. 4 Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [START/ STOP] button. PSR-E223/YPT-220 Owner's Manual 29 Reference Start Lesson 1. Press the [LISTEN & LEARN] button to start Lesson 1. The melody of the part you selected in Step 2 will sound. Listen to it carefully and learn it well. NOTE Song Lesson Lesson 2 (Timing) In this lesson, try playing the notes with the correct timing. Simply concentrate on playing each note in time with the rhythmic accompaniment. The correct notes sound even if you play wrong notes as long as you play in time with the rhythm. NOTE · The Split Point is fixed and it cannot be changed. For the left-hand lesson, it is fixed at 59 or B2; for the left-hand chord lesson, it is fixed at 54 or F#2. 1 2 3 Select a Song for your lesson. Select the part you want to practice. NOTE · You cannot select the part during Song playback before Lesson 2 starts. If a Song is currently being played back, stop the Song first, then continue from Step 2. Start Lesson 2. Press the [TIMING] button to start Lesson 2.

r2 NOTE TIMING 004 · Even after Lesson 2 has started and the Song is playing, you can still select the part. · Regardless of how strongly you play the keys, the level of the sound does not change. As a result, your performance may not sound exactly like the model or example, depending on the selected song. Play the notes shown in the display. In Lesson 2, simply play each note in time with the music. Reference Songs 070102 are intended specifically for chord playing lessons. When practicing the left parts of these Songs, play the notes in the Auto Accompaniment range. 4 Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [START/STOP] button. Grade When the lesson Song has played all the way through in Lesson mode 2 or 3, your performance will be evaluated in four levels: OK, Good, Very Good, or Excellent.

OK Good Very0Good! Excellent! 30 PSR-E223/YPT-220 Owner's Manual Song Lesson Lesson 3 (Waiting) In this mode, try playing the correct notes. The notes you should play appear in the score and the keyboard on the display. The Song pauses until you play the right note. 1 Select a Song for your lesson. NOTE 2 Select the part you want to practice.

· You cannot select the part during Song playback before Lesson 3 starts. If a Song is currently being played back, stop the Song first, then continue from Step 2. 3 Start Lesson 3. Press the [WAITING] button to start Lesson 3. NOTE r3 WAITING · Even after Lesson 3 has started and the Song is playing, you can still select the part.

· Regardless of how strongly you play the keys, the level of the sound does not change. As a result, your performance may not sound exactly like the model or example, depending on the selected song. Play the notes shown in the display. Try playing the correct notes. 4 Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [START/STOP] button. PSR-E223/YPT-220 Owner's Manual 31 Reference Voice Settings Adding Reverb Reverb adds the ambience of a room or concert hall to the sound that you play on the keyboard. You can adjust the Reverb depth in the Function Settings (page 44). NOTE · You can also access the Reverb Type setting display by pressing the [FUNCTION] button several times. To add Reverb Press the [REVERB ON/OFF] button to turn Reverb on.

Reverb is normally on. You can check how the selected Reverb Type sounds by playing the keyboard. To turn Reverb off, press the [REVERB ON/OFF] button again. Adding Chorus This effect makes the Voice sound richer, warmer and more spacious. The best-suited Chorus type is automatically selected whenever you select a Voice; however, you can select any of the available types. ndPno Appears when Reverb is on. 1 Press the [FUNCTION] button a number of times until the "Chorus" appears. "Chorus" appears in the display for a few seconds, followed by the Chorus Type. Select a Reverb Type The ideal type is automatically selected whenever you select a Song or Style, but you can select any of the available Reverb Types. 1 Reference Press and hold the [REVERB ON/OFF] button for longer than a second.

"REVERB" appears in the display for a few seconds, followed by the Reverb Type. 001 Chorus1 Currently selected Chorus Type 002 Hall2 2 Select a desired Chorus Type by using the number buttons [0][9], [+], [-]. Refer to the Chorus Type list on page 56 for details. You can adjust the Chorus depth in the Function Settings (page 43). Currently selected Reverb Type 2 Select the desired Reverb Type by using the number buttons [0][9], [+], [-]. Refer to the Reverb Type list on page 56 for details. 32 PSR-E223/YPT-220 Owner's Manual Voice Settings Adding Panel Sustain This function adds a fixed sustain to the keyboard Voices. Adjusting the Voice volume The volume balance between the Style/Song and the keyboard can be adjusted. 1 Press the [FUNCTION] button a number of times until the "Sustain" item appears. 1 Press the [FUNCTION] button a number of times until the "M. Volume" appears. oFF Sustain 100 M. Volume Current setting Current Voice volume setting 2 Press the [+] button to turn the Panel Sustain on. Panel Sustain will be added to the notes you play on the keyboard when the Panel Sustain is on. To turn it off, press the [-] button. 2 Set the Voice volume by using the number buttons [0][9], [+], [-]. NOTE · Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting.



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The default setting varies depending on the Voice. on On Sustain NOTE · See the section "Connecting a footswitch" on page 9 for information on applying sustain with the optional footswitch. PSR-E223/YPT-220 Owner's Manual 33 Reference Voice Settings Transpose The instrument's Transpose function makes it possible to shift the pitch of the entire keyboard up or down in semitone intervals to facilitate playing in difficult key signatures, and to let you easily match the pitch of the keyboard to the range of a singer or other instruments.

For example, if you set the transposition amount to "5," playing key C produces pitch F. In this way, you can play a song as though it were in C major, and the instrument will transpose it to the key of F. Tuning You can fine tune the pitch of the entire instrument. @@@@ Simply select Voice number "000" to activate this feature. @@@@ You can mute Track 1 or Track 2 during Song playback.

@@@@ Refer to the section "Playing Songs" on page 16. Select the voice. @@@@@ "Dict." will appear in the display. The initial default Split Point is key number 54 (the F#2 key), but you can change it to another key.

When you change the Split Point, the auto accompaniment range also changes. 1 Hold for longer than a second. Press the [FUNCTION] button a number of times until "SplitPnt" appears. Split Point 2 Currently selected Split Point 054 SplitPnt 001 As an example, we'll learn how to play a GM7 (G major seventh) chord. Press the "G" key in the section of the keyboard labeled "ROOT > .

" (The note doesn't sound.) The root note you set is shown in the display. Keys for chord type dictionary Keys for root dictionary Split Point 2 Set the Split Point by using the number buttons [0][9], [+], [-]. NOTE · Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (54 or F#2). 001 Dict.

001 PSR-E223/YPT-220 Owner's Manual 41 Reference Style (Auto Accompaniment) Functions 3 Press the "M7" (major seventh) key in the section of the keyboard labeled "CHORD TYPE > ." (The note doesn't sound.) The notes you should play for the specified chord (root note and chord type) are shown in the display, both as notation and in the keyboard diagram. Chord name (root and type) 001 Dict. 001 Notation of chord Individual notes of chord (keyboard) To call up possible inversions of the chord, press the +/[-] buttons. Reference 42 NOTE · Major chords are usually indicated by the root name only. For example, the indication "C" in a score refers to a "C Major" chord. To look up the fingering for a major chord press the root key and then the M chord type key. · These chords are not shown in the Chord Dictionary function: 6(9), M7(9), M7(#11), b5, M7b5, M7aug, m7(11), mM7(9), mM7b5, 7b5, sus2 4 Try playing a chord in the auto accompaniment section of the keyboard, checking the indications in the display. When you've played the chord properly, a bell sound signals your success and the chord name in the display flashes.

PSR-E223/YPT-220 Owner's Manual Function Settings The [FUNCTION] button gives you access to a variety of operations related to adjusting or enhancing the sound and making settings for connection to external devices. Select the item and change the value There are 18 different items that can be set. 2 Set the value by using the number buttons [0][9], [+], [-]. For on/off settings, use +/[-] buttons. 1 Press the [FUNCTION] button a number of times until desired item appears. Each time the [FUNCTION] button is pressed 18 function items are displayed in sequence. The description and display sample is provided on the Function Setting List on page 44. NOTE · Press the [+] and [-] buttons simultaneously to instantly reset the numeric parameter to its default setting. 100

Value StyleVol Function item PSR-E223/YPT-220 Owner's Manual 43 Reference Function Settings Function Setting List Item Style Volume Song Volume Transpose Tuning Split Point Main Voice Volume Main Voice Octave Main Voice Chorus Send Level Reverb Type Reverb Level Chorus Type Panel Sustain Display StyleVol SongVol TransPos Tuning SplitPnt M. Volume M.

Octave M.Chorus Reverb RevLevel Chorus Sustain Range/settings 000127 000127 -120012 -10000100 000127 (C-2G8) 000127 -202 000127 0110 000127 1-5 ON/OFF Description Determines the volume of the Style. Determines the volume of the Song. Determines the pitch of the instrument by semitone increments. Sets the pitch of the instrument's sound in 1-cent increments.

Sets the Split "point"--in other words, the key that separates the auto accompaniment range and Main voice. Determines the volume of the Main Voice. Determines the octave range for the Main Voice. Determines how much of the Main Voice's signal is sent to the Chorus effect. Determines the Reverb type, including off (10).

Refer to the Reverb Type list on page 56. Determines how much of the Voice's signal is sent to the Reverb effect. Determines the Chorus type, including off (5). Refer to the Chorus Type list on page 56. Determines whether or not Panel Sustain is always applied to the Main voice. Panel Sustain is applied continuously when ON, or not applied when OFF. Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF). Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON). Lets you send the data of the panel settings to a computer. Use the [+] button to transmit the data.

Determines the time signature of the Metronome. Determines the volume of the Metronome. Determines whether Demo cancel is enabled or not. When this is set to ON, the Demo Song will not play, even if the [DEMO] button is pressed. Local On/Off External Clock Initial Setup Send Time Signature Metronome Volume Local ExtClock InitSend TimeSig MetroVol D-Cancel ON/OFF ON/OFF YES/NO 0015 000127 ON/OFF Reference 44 Demo Cancel PSR-E223/YPT-220 Owner's Manual About MIDI The instrument features a MIDI terminals that can be connected to other MIDI instruments and devices for expanded musical functionality. What is MIDI? MIDI (Musical Instrument Digital Interface) is a world-standard interface for communication between electronic musical instruments and music devices. When MIDI-equipped instruments are connected via a MIDI cable, it becomes possible to transfer performance and setting data between them for significantly enhanced performance and production potential. Transferring Performance Data To and From Another Instrument By connecting the PSR-E223/YPT-220 to other MIDI devices or a computer, the performance data of the instrument can be used on those other MIDI devices or computer, and also the performance data from other MIDI devices and computer can be received and sounded with the PSRE223/YPT-220.



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