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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA PSR-S650. You'll find the answers to all your questions on the YAMAHA PSR-S650 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-S650
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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.

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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 **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-S650 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) 3 **PRECAUTIONS PLEASE READ CAREFULLY BEFORE PROCEEDING** * Please keep this manual in a safe place for future reference. **WARNING** Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, shortcircuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following: Power supply/AC power adaptor · Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.



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..page 35 Selects a Song or Style file in the USB flash memory. !4 REGISTRATION MEMORY-related buttons

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..... page 49 Lets you execute the function such as changing a Bank and memorizing the panel settings. u [REC] button ...

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...page 40 Records your keyboard performance. i STYLE category selection buttons.
...page 29 Selects a Style. !5 REGISTRATION MEMORY/Track buttons

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pages 42, 49 Pressing the [REGIST/PART[MIXER]] button at right will alternate the function of the white eight buttons: Registration Memory buttons, Song track setting buttons and Style track setting buttons. o STYLE CONTROL buttons.....

.. pages 3031 Controls Style playback. !6 Display and related controls.....

pages 1314 8 Owner's Manual Panel Controls and Terminals NOTE · The panel controls q@4 call up the related displays, all of which are listed in the Panel Button Chart on page 65. !6 !7 !8 !9 @1 @0 @2 @3 Rear Panel @5 @6 @7 @8 @9 #0 Rear Panel !7 [MDB] button

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.page 46 Calls up the appropriate panel settings for the desired music genre. @5 CONTRAST knob

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..... page 12 Adjusts the contrast of the display. @6 USB TO HOST terminal

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.... page 63 For connecting to a computer.
!8 [FILE MENU] button

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....page 55 Executes file operations such as loading and saving.
@7 USB TO DEVICE terminal

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page 54 For connecting a USB storage device. !9 [FUNCTION] button

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. page 15 Allows you to make the detailed settings. @8 SUSTAIN jack ...

Owner's Manual 11 Setting Up Changing the Display Language This instrument allows you to select English or Japanese as the display language. The default display language is English, but if you switch to Japanese the lyrics, file names and some messages will be displayed in Japanese where appropriate. Adjusting the Display CONTRAST control Adjust the display CONTRAST control on the rear panel of the instrument for optimum display legibility. 1 Press the [FUNCTION] button. CAUTION · Looking at the display for a long period of time in the dark may cause eyestrain or damage to your eyesight. Make sure to use the instrument with as much ambient light as possible and also take adequate breaks and rest from use. 2 Press the CATEGORY [<] and [>] buttons repeatedly until the "Language" item appears.

The currently selected display language will appear below the "Language" item. Music Rest Insert the music rest into the slots as shown. Language item The currently selected language 3 Select a display language. Using dial to select English or Japanese. The language selection will be stored in the internal flash memory so that it is retained even when the power is turned off. 4 Press the [EXIT] button to return to the Main display. 12 Owner's Manual Setting Up Displays and Basic Operation Main Display The Main display, called up when the power is turned on, shows all of the current basic settings: Song, Style, Voice. It also includes a range of indicators that show the on/off status of a range of functions. Transpose (page 20) Measure number (page 43) Octave (page 20) USB status Appears when the USB flash memory is connected (page 55). A-B Repeat Tempo (page 34) Appears when the Repeat function is on for Song playback.

(page 39) Harmony (page 19) Touch Response (page 26) Sustain Music Database (page 46) (page 19) Registration Memory / Song or Style track indication Chord Display (page 32) Registration Memory bank status (page 49) Song / Style track status (page 41) Shows currently selected item: REGIST., TR 18, TR 9-16 (page 49) Main Voice (page 16) Dual Voice (page 17) Left Voice (page 17) Style (page 29) Song (page 35) To Return to the Main Display Since the instrument has so many different displays, you may occasionally find yourself confused as to which operation's display is currently shown. In such a case, return to the Main display by pressing the [EXIT] button. Owner's Manual 13 Setting Up VOICE, STYLE, SONG, and MDB Select Displays Press one of the category selection buttons such as VOICE, STYLE, SONG, or press the [MDB] button to call up selection display for each. In each display, you can select an item as desired using the CATEGORY buttons or the dial. Previous category Next category Category Item Select a Category Use the CATEGORY [<] and [>] buttons to step in sequence through the categories. Select a Voice, Style, Song or MDB Use the dial or the [-/NO]/[+/YES] buttons to select an item as desired. Press and hold either button to continuously increment or decrement the value in the corresponding direction. Decrease Increase Press briefly to decrement. Press briefly to increment.

14 Owner's Manual Setting Up Function Display In the Function display, you can make detailed settings for this instrument. The Function display appears when the [FUNCTION] button is pressed. In the display you can use the CATEGORY [<] and [>] buttons to select 60 different function items. Press the CATEGORY button(s) as many times as necessary until the required function appears, then use the dial or the [-/NO] and [+/YES] buttons to adjust the value of the function as required. To recall the default value, press the [-/NO] and [+/YES] buttons simultaneously.

Function item Value All items which can be selected in the Function display are listed in the Panel Button Chart on page 66. Move the highlighted Position In some Function displays, pressing the [EXECUTE] button will move the highlighted position from the current one to the other one. Shortcut You can jump directly to certain Function displays by holding the related button for longer than a second. The buttons are as follows: · [FUNCTION] button ..

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..Scale · [DEMO] button.....

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.....Demo Group · [ACMP] button

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...Chord Fingering · [METRONOME] button..

.....Time Signature-Numerator · [FREEZE] button...

.....

....

..Freeze Group Setting · [HARMONY] button...

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.Harmony Type · [TOUCH] button.....

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..Touch Sensitivity · [DSP] button

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....DSP Type This can be particularly handy since such a large number of Functions are available.

Owner's Manual 15 1 Voices Playing the Keyboard In addition to piano, organ, and other standard keyboard instruments, this instrument has a large range of realistic Voices--including guitar, bass, strings, sax, trumpet, drums and percussion, sound effects, and a wide variety of other musical sounds. Select and Play a Main Voice In this operation, you'll select a Main Voice and play it on the keyboard. 1 Select and press the desired Voice category button in the Voice section. The Main Voice selection display will appear. The currently selected category name, Voice number and name will be highlighted. NOTE · To change the Voice category, press another category button. MAIN VOICE selection display CATEGORY name Current selected Voice You can select the GM&XG category Voice by pressing the [PIANO] button then CATEGORY [<] button to call up the GM&XG category. 2 Select the Voice you want to play. Look at the highlighted Voice name and rotate the dial. The available Voices will be selected and displayed in sequence.

The Voice selected here becomes the Main Voice. 3 Play the keyboard. NOTE · The main Voice parameters such as Volume can be set in the Function display. For details, refer to the Reference Manual. Try selecting and playing a variety of Voices. Press the [EXIT] button to return to the Main display. 16 Owner's Manual 1. Voices Playing the Keyboard Playing Two Voices Simultaneously Once you press the [DUAL] button to turn the Dual Voice on, a second voice

will sound that will play in addition to the Main Voice when you play the keyboard. The second voice is known as the "Dual Voice." NOTE · The Dual Voice parameters such as Voice Volume can be set in the Function display.

For details, refer to the Reference Manual. The button lights when Dual is ON. Two Voices will sound at the same time. Press the button again to turn the Dual Voice off. Selecting a Dual Voice You can select any voice as a Dual Voice.

Press and hold the [DUAL] button for longer than a second to call up the Dual Voice selection display, then select a Dual Voice in the same way as selecting a Main Voice.



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After selecting, press the [EXIT] button to return to the MAIN display. Splitting the Keyboard and Playing the Left Voice with the Left Hand Once you press the [LEFT] button to turn the Left Voice on, you can play different Voices to the left and right of the keyboard "split point." The Main and Dual voices can be played to the right of the split point, while the Voice played to the left of the split point is known as the "Left Voice." NOTE Split point · The Left Voice parameters such as Volume can be set in the Function display.

For details, refer to the Reference Manual. The button lights when Left Voice is ON. Left Voice Main Voice and Dual Voice Press the button again to turn the Left Voice off. Selecting a Left Voice You can select any voice as a Left Voice. Press and hold the [LEFT] button for longer than a second to call up the Left Voice selection display, then select a Left Voice in the same way as selecting a Main Voice. After selecting, press the [EXIT] button to return to the MAIN display. Owner's Manual 17 1. Voices Playing the Keyboard Playing Drum Kits Drum Kits are collections of drum and percussion instruments. When you select a violin or other normal instrument--as a Main Voice, for example--all keys produce the sound of the same violin, only at different pitches. If you select a Drum Kit as the Main Voice, however, each key produces the sound of a different drum or percussion instrument.

1 Press the [DRUM KIT] button. The "Drum Kit" category appears. 2 Rotate the dial and select the Drum Kit you want to play (001025). A good Drum Kit to start out with is 003, Standard Kit 1. Drum Kit List Voice No. 001 002 003 004 005 006 007 Drum Kit name Power Kit 1 Power Kit 2 Standard Kit 1 Standard Kit 2 Hit Kit Jazz Kit Brush Kit Voice No. 008 009 010 011 012 013 014 Drum Kit name Room Kit Rock Kit Electro Kit AnalogT8 Kit AnalogT9 Kit Break Kit HipHop Kit Voice No. 015 016 017 018 019 020 021 Drum Kit name Analog Kit Dance Kit Symphony Kit Cuban Kit PopLatin Kit Arabic Kit Arabic Kit 2 Voice No. 022 023 024 025 Drum Kit name Arabic Mixture Kit Indian Kit Chinese Kit Chinese Mixture Kit 3 Play each key and enjoy the Drum Kit. Example: 003 Standard Kit 1 Sh ot St ick H an d C la p H i-H at C H i-H los ed at P H i-H eda l at O pe n C ra sh Cy R m id b e Cy al 1 m ba Ta ll m bo Co urin e w be ll Vi br as la p NOTE · See the Drum Kit List in the separate Data List.

B on g o Co L ng a H O pe Ti m n ba le Ag L og o L M ar ac as G ui ro Sh C o la ve r t s C3 18 Owner's Manual S Ta wir l p Sn Sw ar irl e Sn Ro ar ll e S Ki of t ck Ki Sof t ck Ti gh t Ki ck Sn Sn ar are e Fl T oo igh r t Fl Tom oo rT L om Lo H w M To id m T M om id L To H mH C ig hi h n R ese To id Cm e Cy ym Sp mb bal la al C C sh C up ra sh ym Cy ba R id mb l e Cy al 2 m ba Co Bon l 2 ng go a HH M Co ute n Ti ga m L ba l Ag e H og o Sa CH m ba ab Sa Wasa m his ba tl WeH h G istle W uiro L oo L d on W Blo g oo ck d BH C loc ui ca k L Tr O ia ng pe n le Ji Op ng en le B Be ells ll T re e h C lic k Se Br Br us us q h H ca Tr Mut ia ng e l Sh e M u ak er te ap ta n us h h s ick us n pe R im Ta p Sl et Ca s de C ui Br Br St Si O 1. Voices Playing the Keyboard Applying Effects to a Voice You can apply effects to a Voice played on the keyboard by pressing the Voice Control buttons. To turn the effect off, press the button again. NOTE · You can specify the Harmony type. For details, refer to the Reference Manual.

The button lights when DSP is ON. NOTE Adding Harmony This feature adds harmony notes as well as tremolo or echo effects to the Main Voice. A suitable Harmony type is automatically selected when you select a Main Voice. Adding Sustain This function adds sustain to the keyboard voices. Use it when you want to add sustain to the voices at all times, regardless of footswitch operation.

The sustain function does not affect the Left Voice. Adding DSP A huge variety of DSP effects are available for applying to the Main, Dual and Left Voices. A suitable DSP type is automatically selected when you select a Main Voice. · For some Voices, sustain may not be audibly affected when the Sustain is turned on. NOTE · You can specify the DSP type. For details, refer to the Reference Manual. You can see the on/off status for the Harmony and Sustain in the Main display. Appears when Sustain is on Appears when Harmony is on How to Play Each Harmony Type The Harmony behaves differently depending on the type. Check the current Harmony Type on the display by holding the [HARMONY] button for longer than a second. Harmony types 01 to 10, 13 Harmony types 19 to 22 (Tremolo) Press the right-hand keys while playing chords in the Auto Accompaniment range of the keyboard when the Auto Accompaniment is on (page 29).

Play the keys. Harmony types 15 to 18 (Echo) Harmony types 23 to 26 (Trill) Hold the keys. Hold down two keys. Reverb and Chorus The other effects provided are Reverb and Chorus. Reverb lets you play with a rich concert hall type ambience, and Chorus effect creates a thick sound that is similar to many of the same voices being played in unison. A suitable Reverb type and Chorus type are automatically selected when you select a Style or Song. NOTE · You can specify the Reverb type and Chorus type. For details, refer to the Reference Manual. Owner's Manual 19 1. Voices Playing the Keyboard Changing the Pitch of the Instrument Using the Pitch Bend Wheel The Pitch Bend wheel can be used to add smooth pitch variations to notes you play on the keyboard.

NOTE · The pitch bend range can be changed by setting the "PB Range" parameter on the Function display. For details, refer to the Reference Manual. Adjusting the pitch in semitones (Transpose) The overall pitch of the instrument can be shifted up or down in semitones by pressing the TRANSPOSE [+]/[-] buttons. The value is shown in the display, indicating the amount of transposition over or below the normal value between -12 and +12 (a maximum of one octave.) The setting can be reset to the initial default value "00" by pressing the [+] and [-] buttons simultaneously.

NOTE · This setting does not affect the Drum Kit Voices. Changing the Pitch in Octaves You can change the playing pitch of the Main and Dual Voices in octave intervals by pressing the UPPER OCTAVE [-]/[+] buttons. The newly changed value is shown in the display between -1 and +1. The setting can be reset to the initial default value "0" by pressing the [-] and [+] buttons simultaneously. NOTE · When a Drum Kit is selected, each percussion Voice assigned to the keyboard is shifted in location but not pitch.

20 Owner's Manual 1.



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Voices Playing the Keyboard Fine-tuning the Pitch of the Entire Instrument You can fine-tune the pitch of the entire instrument by a maximum of 1 semitone--useful when you play this instrument along with other instruments or CD music. NOTE · This setting does not affect the Drum Kit Voices. 1 Press the [FUNCTION] button to call up the Function display. 2 Press the CATEGORY [<] and [>] buttons as many times as necessary to call up "Tuning." Tuning 3 Use the dial to set the tuning value between 415.3466.2Hz as desired. The range is 415.3466.

2, equivalent to -1semitone +1semitone. NOTE · Press the [EXIT] button to return to the Main display. Value Owner's Manual 21 1. *Voices Playing the Keyboard Scale Tuning* By default, this keyboard scale is set to Equal Temperament--the same tuning as with any acoustic piano. However, the setting can be changed to any other scale according to the music genre or music style you want to play. Selecting a Scale You can select various scales for playing in custom tunings for specific historical periods or music genres. Press and hold the [FUNCTION] button for longer than a second to call up the Scale select display, then rotate the dial to select the desired Scale. The setting can be reset to the initial default value by pressing the [-/NO] and [+ /YES] buttons simultaneously.

NOTE · This setting does not affect the Drum Kit Voices. NOTE · Press the [EXIT] button to return to the Main display.

Hold for longer than a second Preset Scale types EQUAL The pitch range of each octave is divided equally into twelve parts, with each half-step evenly spaced in pitch. This is the most commonly used tuning in music today. These tunings preserve the pure mathematical intervals of each scale, especially for triad chords (root, third, fifth). You can hear this best in actual vocal harmonies--such as choirs and a cappella singing. This scale was devised by the famous Greek philosopher and is created from a series of perfect fifths, which are collapsed into a single octave.

The 3rd in this tuning are slightly unstable, but the 4th and 5th are beautiful and suitable for some leads. This scale was created as an improvement on the Pythagorean scale, by making the major third interval more "in tune." It was especially popular from the 16th century to the 18th century. Handel, among others, used this scale. This composite scale combines the Werckmeister and Kirnberger systems, which were themselves improvements on the mean-tone and Pythagorean scales.

The main feature of this scale is that each key has its own unique character. The scale was used extensively during the time of Bach and Beethoven, and even now it is often used when performing period music on the harpsichord. Use these tunings when playing Arabic music. NOTE PURE MAJOR, PURE MINOR ·

"(Edited)" will appear in the display if you have created your original scale using the "Scale Tune" function (page 23). PYTHAGOREAN MEAN-TONE WERCKMEISTER, KIRNBERGER ARABIC1, ARABIC2 22 Owner's Manual 1. *Voices Playing the Keyboard Setting the Base Note for Each Scale* When the base note is changed, the pitch of the keyboard is transposed, yet the original pitch relationship between the notes is maintained. Please make sure to specify the appropriate Base Note, if you select a scale other than Equal Temperament, or create an original scale via Scale Tune function. Press the [FUNCTION] button then use the CATEGORY [<] and [>] buttons as many times as necessary to select the "Base Note." Use the dial to select the Base Note from C, C#, D, Eb, E, F, F#, G, Ab, A, Bb, B. The setting can be reset to the initial default value by pressing the [-/NO] and [+ /YES] buttons simultaneously.

Tuning Each Note to Create an Original Scale You can tune the individual notes in cents to create your original scale. The term "cent" refers to one hundredth of a semitone (i.e., 100 cents = 1 semitone). After selecting the appropriate Base Note, follow the instructions below. 1 Press the [FUNCTION] button then use the CATEGORY [<] and [>] buttons as many times as necessary to select "Scale Tune." 2 Use the dial to select the note to be tuned, then press the [EXECUTE] button. The tuning value is highlighted, allowing you to tune the note. Note Tuning value (cent) NOTE · The settings here are linked with the Base Note. For example, if the Base Note for the original scale is changed from C to F, the tuning values for keys CB are shifted to FE. 3 Use the dial to tune the note, then press the [EXECUTE] button. The tuning range is between -64 +63. The setting can be reset to the initial default value by pressing the [-/NO] and [+ /YES] buttons simultaneously. Owner's Manual 23 1. *Voices Playing the Keyboard* 4 5 Repeat steps 23 to tune any of the remaining notes.

Memorize the settings here to the Registration Memory as desired (page 50). NOTE · Press the [EXIT] button to return to the Main display. Selecting a Part for Scale Tune With the initial settings, Scale Tune is applied only to the Main/Dual Voices, not to the Left Voice and Style playback. If you want to apply this setting to the Left Voice or Style playback as well as the Main/Dual Voices, follow the instructions below. 1 Press and hold the [FUNCTION] button for longer than a second to call up the Scale select display.

2 Use the CATEGORY [>] button as many times as necessary to select "Part Select." The Part and ON/OFF status are shown. 3 Use the dial to select the part, then press the [EXECUTE] button. Select the desired part from Main/Dual Voices, Left Voice, and Style. After that, press the [EXECUTE] button so that the highlighted area will move to the ON/ OFF status. Part 24 Owner's Manual 1. *Voices Playing the Keyboard* 4 Rotate the dial to select ON (apply) or OFF (not apply), then press the [EXECUTE] button. The highlighted area will return to Part Select again. Repeat steps 34 as desired. ON/OFF status 5 Memorize the settings here to the Registration Memory as desired (page 50).

Applying Scale Tune MIDI Messages to the Keyboard Performance You can apply Scale Tune MIDI messages received from an external MIDI device to the keyboard performance. The default setting applies MIDI messages to Song playback; however, you can change it to the keyboard performance by following the instructions below. 1 Press and hold the [FUNCTION] button for longer than a second to call up the Scale select display. 2 Use the CATEGORY [>] button as many times as necessary to select "External Scale Tune." Owner's Manual 25 1. *Voices Playing the Keyboard* 3 Rotate the dial to select ON (KEYBOARD).



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With the default setting of "OFF," MIDI messages are applied to Song channels 116, not to the keyboard performance. If you set this to "ON (KEYBOARD)," the MIDI messages are applied to the keyboard performance as follows: Channel 1 = Main Voice, Channel 2 = Dual Voice, and Channel 3 = Left Voice; the other channels are not affected. ON/OFF status Touch Response ON/OFF The keyboard of this instrument is equipped with a Touch Response feature that lets you dynamically and expressively control the level of the voices with your playing strength. However, you may want to produce the same volume no matter how strongly or softly you play the keyboard, depending on the Voice.

In this case, press the [TOUCH] button to turn this function off. You can see the on/off status for Touch Response in the Main display. NOTE · Touch Sensitivity, or how the sound volume responds to the playing strength, can be set in the Function display. For details, refer to the Reference Manual. Appears when Touch Response is on 26 Owner's Manual 1.

Voices Playing the Keyboard Using the Metronome Playing the Metronome The metronome provides a click sound, giving you an accurate tempo guide when you practice, or letting you hear and check how a specific tempo sounds. Press the [METRONOME] button to start the metronome. To stop the metronome, press the [METRONOME] button again. Time Signature Beat Number Setting the Time Signature and Tempo Normally, the metronome time signature and tempo will be determined by the current Style or Song. The current value is shown in the upper left corner of the Main display. If you want to change the time signature or tempo, follow the instructions below. 1 Press and hold the [METRONOME] button for longer than a second. The currently selected time signature is shown. In this example we'll set up a 3/4 time signature. Hold for longer than a second Numerator (Number of beats per measure) Denominator (the note value or length of one beat) You can set the Numerator in this display. 2 Use the dial to select the number of beats per measure. The Bell will sound on the first beat of each measure while a metronome "click" will sound on all others. You can set the time signature from 01 to 60. Select "3" for this example. NOTE · If you start playback of the Style or Song, the metronome time signature is changed to that of the Style or Song that is playing.

Owner's Manual 27 1. Voices Playing the Keyboard 3 Press the CATEGORY [>] button once to call up the Time Signature Denominator display. 3 4 Use the dial to select a beat length. Select the required length for each beat: 2, 4, 8, or 16 (half note, quarter note, eighth note, or 16th note). For this example, select 4. The time signature should now be set to 3/4. 4 Press the [METRONOME] button to confirm the settings. 5 Use the TEMPO [+] and [-] buttons to set the tempo. Or press any of the TEMPO buttons once to call up the Tempo setting in the display, then use the dial to set the value. NOTE · Other metronome settings such as Volume or Bell sound can be set in the Function display.

28 Owner's Manual 2 1 Styles Playing Rhythm and Accompaniment This instrument includes the Auto Accompaniment feature that plays appropriate "Styles" (rhythm + bass + chord accompaniment) when you play left-hand chords. You can select from a huge variety of Styles covering a wide range of musical genres. Select and Play a Style Select and press the desired Style category button. The Style selection display appears. The current category name, Style number and name will be highlighted. NOTE · In addition the Preset Styles, you can create your own Style. For details, refer to the "Style Creator" chapter of the Reference Manual. Style selection display The currently selected category The currently selected Style 2 Select the Style you want to play. Look at the highlighted Style name and rotate the dial. The available Styles will be selected and displayed in sequence.

See the Style list in the separate Data List. NOTE · The [EXPANSION/USER] button is used for calling up your original Styles created with the Style Creator, or Styles loaded/installed from a USB flash memory (pages 59 and 61.) For details about the Style Creator, refer to the Reference Manual. 3 Turn the Auto Accompaniment on. Press the [ACMP] button. Pressing this button again will turn the Auto Accompaniment off. The [ACMP] button lights when the Auto Accompaniment is turned on. Owner's Manual 29 2. Styles Playing Rhythm and Accompaniment When the Auto Accompaniment is on..

. The area of the keyboard to the left of the split point (F#2) becomes the Auto Accompaniment range and is used only for specifying the Accompaniment chords. Split Point (F#2) NOTE · The Split Point can be changed in the Function display. For details, refer to the Reference Manual. Auto Accompaniment range 4 Press the [AUTO FILL IN] button to turn Auto Fill In on. The initial setting is "on." The button lights when Auto Fill In is ON. 5 Press the [SYNC START] button to turn Synchro Start on. NOTE · You can start the Style by simply tapping the [TEMPO/TAP] button at the required tempo--four times for time signatures in 4, and three times for time signatures in 3. You can change the tempo during style playback by pressing the button just twice. The [SYNC START] button lights indicating Synchro Start is engaged. · You can also press the [START/STOP] button to begin the rhythm of the selected Style. The bass and chords will begin playing as soon as you play a key in the Auto Accompaniment range of the keyboard. Synchro Start When Synchro Start is on, you can start the Style by playing any key in the accompaniment range of the keyboard. To cancel or disable Sync Start, press the button again. 6 Press one of the MAIN VARIATION [A][D] buttons as desired. The selected Main Variation button flashes. 30 Owner's Manual 2. Styles Playing Rhythm and Accompaniment 7 Press one of the INTRO [I][III] buttons. The selected Intro button lights. 8 Play a chord in the Auto Accompaniment range to start the Intro section. Try playing a C major chord. (See "Playing Auto Accompaniment Chords" on page 32.) Split Point NOTE · The Baroque Air Style in the MOVIE & SHOW category does not have a Rhythm part, and so does not produce any rhythm sound. Auto Accompaniment range Chord When the playback of the intro is finished, it automatically leads into the Main Variations. 9 Press one of the MAIN VARIATION [A][D] buttons. The Main Variation corresponding to the pressed button plays following an automatic fill-in. 10 Press one of the ENDING/rit.



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[I][III] buttons. NOTE · The Style Volume can be adjusted in the Function display.

For details, refer to the Reference Manual. This switches to the Ending section. When the Ending is finished, the Style playback stops automatically. You can have the Ending gradually slow down (ritardando) by pressing the same ENDING/rit. button again while the Ending is playing back. Owner's Manual 31 2.

Styles Playing Rhythm and Accompaniment Playing Auto Accompaniment Chords For users who are unfamiliar with chords, this handy chart features common chords for your quick reference. Chords recognized by this instrument are described in the Reference Manual on the website. 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 C F Fm F7 Fm7 FM7 G Gm G7 Gm7 GM7 A Am A7 Am7 AM 7 B Bm B7 Bm 7 BM 7 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). Changing the Chord Fingering Type You can select the different chord fingering type such as normal chords played anywhere on the keyboard will be detected in it.

Chord fingering type can be changed in the Function display. For details, refer to the Reference Manual. 32 Owner's Manual 2. Styles Playing Rhythm and Accompaniment Synchro Stop When this function is selected, the accompaniment Style will only play while you are holding down chords in the Accompaniment range of the keyboard. Style playback will stop when you release the keys.

To turn the function on, press the [SYNC STOP] button. To turn the function off, press the button again. NOTE · This function cannot be used if the "FullKeyboard" is selected from the "Chord Fingering" parameter on the Function display. The Style will play while you are playing the keys Style playback will stop when you release the keys Select and Play a Style from USB Flash Memory Styles on a USB flash memory connected to the USB TO DEVICE terminal can be directly selected and played. Press the [USB] button in the Style mode (page 35) and the name of the currently selected Style on the USB flash memory will appear in the display. Rotate the dial to select the desired Style, then play the Style by following the instructions on pages 2931 NOTE · Before using a USB flash memory, be sure to read "Precautions when using the [USB TO DEVICE] terminal" on page 54. If this button is lit, press the button to turn off. The Style files must be saved either in the USB flash memory's root directory or a first-level/second-level/third-level folder in the root directory. The directory can be moved using the CATEGORY [<|/>] buttons. Owner's Manual 33 2.

Styles Playing Rhythm and Accompaniment Changing the Tempo You can use the TEMPO [+] and [-] buttons to adjust the playback tempo as required before or during playback. While the TEMPO pop-up is shown on the display, you can also use the dial to adjust the value. Pressing the TEMPO [+] / [-] buttons simultaneously resets the tempo to the default value. or The Tempo can also be changed during playback by tapping the [TAP TEMPO] button twice at the desired tempo. One Touch Setting With all the choices available on the instrument, sometimes selecting the ideal Voice to play with a Song or Style can be confusing. The One Touch Setting feature automatically selects four ideally matched Voices for the Style you've selected. Select the desired Style (See page 29), then press one of the ONE TOUCH SETTING [1][4] buttons to call up the appropriate panel settings. As soon as you play a chord with your left hand, the selected Style starts. Try selecting other ONE TOUCH SETTING [1][4] buttons and listen to the results. Variation Change and OTS (OTS LINK) When one of the Main Variations [A][D] changes to another Main Variation while OTS LINK is on, the OTS number (14) automatically changes according to the selected variation number.

Press the [OTS LINK] button to turn on the OTS link. 34 Owner's Manual 3 1 Using Songs With this instrument, the term "Song" refers to the data that makes up a piece of music. In this section we'll learn how to select and play a Song. Selecting and Listening to a Song Press the desired Song category button. The Song selection display will appear.

The currently selected Song number and name will be highlighted. Song Selection display Currently selected Song [PRESET] : Nine preset Songs are available here. [USER] : This contains your recorded Songs and Songs loaded from a USB flash memory or transferred from a computer. For details about how to load Songs, refer to page 59. [USB] : This contains Songs on a USB flash memory connected to the USB TO DEVICE terminal.

For details, refer to page 37. Song mode and Style mode (Lit) Song mode (Unlit) Style mode The instrument has two modes: Song and Style. In the Song mode, you can play, record and edit Songs, while the Style mode lets you play and create Styles. To alternate between the two modes, press the [SONG MODE] button. The Song mode has the following limitations: · Some buttons in the Style Control section become Song related buttons, and other buttons are disabled. · The [ACMP] button cannot be turned on. · Styles cannot be played. 2 Select the desired Song. Use the dial to call up the Songs in order within the category selected in step 1. Owner's Manual 35 3.

Using Songs PRESET Built-in Songs 001 Guitar Voice demo (Original) 002 Dance Voice demo (Original) 003 Drums Voice demo (Original) 004 Amazing Grace (Traditional) 005 Annie Laurie (Traditional) 006 Latin (Original) 007 Arabic (Original) 008 Bhangra (Original) 009 Wu Lin Hun (Original) 001005 User Songs (Songs you record yourself) 006 Songs loaded from a USB flash memory/transferred from a computer Songs in a USB flash memory connected to the instrument USER USB * Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original. * Preset Song 004 is displayed as "Score demo", and preset Song 005 as "Lyric demo" in the display. 3 Listen to the Song. Press the [] button to begin playback of the selected Song.



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You can stop playback at any time by pressing the [] button again. NOTE · Press the [EXIT] button to return to the Main display. Song start You can turn individual tracks of the Song on and off. For details, refer to the Reference Manual. Changing the Tempo This is the same as changing the Style tempo. For details, refer to page 34.

Fast Forward, Fast Reverse, and Pause These are similar to the transport controls on a CD player, letting you fast forward [f], rewind [r], and pause [o] playback of the Song. NOTE · These buttons cannot be used during Song playback by using the [DEMO] button. REW Press and hold the fast reverse button to rapidly return to an earlier point in the Song. FF Press and hold the fast forward button to rapidly skip ahead to a later point in the Song. PAUSE Press the pause button to pause playback.

Press this button again to resume playback from the point at which it was stopped. 36 Owner's Manual 3. Using Songs Listening to the Demo Song This instrument includes a Demonstration Song, showcasing the wide variety of the Preset Voices. Press the [DEMO] button to start the Demo. The Demo displays appear in the display.

The Demo Song will restart when playback reaches the end. You can stop playback at any time by pressing the [DEMO] or [] button. You can change the repeat playback target from Demo Song to other Songs such as Preset Songs. Press and hold the [DEMO] button for longer than a second to call up the "Demo Group" selection display, and use the dial to select a repeat playback group from the table below. Press the [DEMO] button to start sequential playback of the Songs in the selected group. Demo Preset User Download USB Demo Song All Preset songs All User songs All Songs transferred from a computer All Songs on a USB flash memory connected to the instrument. Select and Play a Song from USB Flash Memory Songs on a USB flash memory connected to the USB TO DEVICE terminal can be directly selected and played. Press the [USB] button in the Song mode (page 35) and the name of the currently selected Song on the USB flash memory will appear in the display. Rotate the dial to select the desired Song, then press the [] button to start playback. NOTE · Before using a USB flash memory, be sure to read "Precautions when using the [USB TO DEVICE] terminal" on page 54.

If this button is unlit, press it to turn it on. The Song files must be saved either in the USB flash memory's root directory or a first-level/second-level/third-level folder in the root directory. The directory can be moved using the CATEGORY [< / >] buttons. Owner's Manual 37 3. Using Songs Displaying the Song Score This instrument is capable of displaying the scores (notation) of Songs, including the preset Songs as well as Songs loaded from a USB flash memory or computer. 1 2 Select a Song. Follow steps 1 and 2 on page 35. Press the [SCORE] button and a single-staff score will appear. There are two types of score display: single-staff and double-staff. These are alternately selected each time the [SCORE] button is pressed.

Single-staff Marker Melody score Chord (Only when included) Lyric (Only when included) NOTE · When there are many lyrics in a Song, they may be displayed in two rows a measure. · Some lyrics or chords may be abbreviated if the selected Song has a lot of lyrics. · Small notes that are hard to read may be easier to read after you change the quantize setting in the Function display. For details, refer to the Reference Manual. NOTE · No lyrics and chords are shown in the double staff display.

During playback, the marker will indicate the current position in the score. Displaying the Lyrics If a Song contains lyric data, the lyrics can be shown on the display. 1 2 Select a Song. Follow steps 1 and 2 of the procedure described on page 35. Here, select Preset Song 004 or 005.

Press the [LYRICS] button. The title, lyricist, and composer of the Song will appear on the display. NOTE · Songs downloaded from the Internet or commercially available Song files, including XF format files (page 6), are compatible with the lyrics display features as long as they are standard MIDI file format files containing lyric data. Lyrics display may not be possible with some files. NOTE Song title, Lyricist, Composer · If the lyrics display shows garbled characters, try changing the display language (page 12). During playback, the lyrics and chords are shown in succession on the display. 38 Owner's Manual 3. Using Songs A-B Repeat You can specify a section of a Song-- "A" is the start point and "B" is the end point--for repeat playback. The AB Repeat function is also very convenient for practicing when used along with the score display features of the instrument. A B 1 Play the Song (page 35) and press the [] button at the beginning of the section you want to repeat (the "A" point).

Point A 2 Press the [] button again at the end of the section you want to repeat (the "B" point). Point B 3 After a lead-in count, the specified A-B section of the Song will now play repeatedly. You can cancel A-B repeat playback at any time by pressing the [] button. NOTE · The current measure number is shown in the display during playback. · If you want to set the start point "A" at the very beginning of the Song press the [] button before starting playback of the Song. Owner's Manual 39 4 Recording Your Own Performance You can record up to five of your own performances and save them as User Songs 001 through 005. These Songs can be played in the same manner as the Preset Songs. Once your performances have been saved as User Songs, they can be saved to a USB storage device (page 58). Recordable data Melody performance and Style playback with chord or section changes can be recorded to any 16 tracks of the Song. Recording methods · Quick Recording .

.....
· Immediately start recording with Style playback by pressing the [REC] button. This method automatically sets tracks 1 3 as melody parts and tracks 916 as Style parts. This is especially convenient and easy when recording a new Song. · Multi Recording .

..... Specify the Song number and the parts for the tracks and then start recording (page 41). This is useful when you want to record data to each track independently, one by one. NOTE · Up to approximately 30,000 notes can be recorded, if you record only to the melody tracks.

Quick Recording Procedure 1 Enter the Song mode (page 35), then press the [REC] button. The [REC] button lamp lights, and the User Song number for recording will be selected automatically. User Song NOTICE · If all User Songs contain recorded data, User Song 001 will automatically be selected. If you record your performance to a Song that contains data, the previous data will be erased by the new data.



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