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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA TYROS 4. You'll find the answers to all your questions on the YAMAHA TYROS 4 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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TYROS 4

DIGITAL WORKSTATION

Owner's Manual

Before using the instrument, be sure to read "PRECAUTIONS" on pages 4-5.



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Manual abstract:

@@@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 nonrechargeable 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. **Warning:** Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. @@@@NOTICE: Service charges incurred due to 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. **NAME PLATE LOCATION:** The graphic below indicates the location of the name plate. 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. **CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. The lightning flash with arrowhead symbol, within the equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock. **IMPORTANT NOTICE:** All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. **DO NOT** modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished.

Claims filed under the expressed warranty may be denied if the unit is/ has been modified. Implied warranties may also be affected. **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. Model Serial No. Purchase Date 92-469-q (rear) 2 Tyros4 Owner's Manual **IMPORTANT SAFETY INSTRUCTIONS 1 2 3 4 5 6 7 8** Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water.

Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 12 Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 13 9 14 10 **WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.** (UL60065_03) Tyros4 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/Power cord · Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

· Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument. · Use only the supplied power cord/plug. · Check the electric plug periodically and remove any dirt or dust which may have accumulated on it. · Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock. 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. A burning item may fall over and cause a fire. Do not open · This instrument contains no user-serviceable parts. Do not attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel. If you notice any abnormality · When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel. · The power cord or plug becomes frayed or damaged. · It emits unusual smells or smoke. · Some object has been dropped into the instrument.



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· There is a sudden loss of sound during use of the instrument. **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/Power cord · 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. · Always connect the three-pin attachment plug to a properly grounded power source.

(For more information about the main power supply, see page 16.) · When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it. · Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms. Location · Do not place the instrument in an unstable position where it might accidentally fall over.

· Before moving the instrument, remove all connected 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, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over. 1/2 (7)-1 4 Tyros4 Owner's Manual Connections · Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.

· Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level. Handling caution · Do not insert a finger or hand in any gaps on the instrument. · Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. · Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors. · Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician. Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed. Always turn the power off when the instrument is not in use. **NOTICE** To avoid the possibility of damage to the product, data or other property, follow the notices below. Handling and Maintenance · Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices.

Otherwise, the instrument, TV, or radio may generate noise. · Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel discoloration or damage to the internal components. · Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard. · When cleaning the instrument, use a soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Saving data Saving and backing up your data · The data of the types listed below are lost when you turn off the power to the instrument. Save the data to the User drive or appropriate external media (page 57). · Created/Edited Voices (page 45) · Created/Edited Styles (page 54) · Memorized One Touch Settings (page 54) · Recorded/Edited Songs (page 63) · Created Multi Pads (page 65) · Edited MIDI Settings (page 104) When you change settings in a display page and then exit from that page, System Setup data (listed in the Parameter Chart of the Data List downloadable from the web) is automatically stored. However, this edited data is lost if you turn off the power without properly exiting from the relevant display. Refer to page 8 how to obtain their respective companies.

Copyright Notice The following is the title, credits, and copyright notices for the song pre-installed in this instrument. Achy Breaky Heart (Don't Tell My Heart) Words and Music by Don Von Tress Copyright © 1991 UNIVERSAL - MILLHOUSE MUSIC All Rights Reserved Used by Permission Beauty And The Beast from Walt Disney's BEAUTY AND THE BEAST Lyrics by Howard Ashman Music by Alan Menken © 1991 Walt Disney Music Company and Wonderland Music Company, Inc. All Rights Reserved Used by Permission The serial number of this product may be found on the bottom of the unit. You should use the means to play these Voices more naturally and with greater expressiveness. In particular, the instrument has many new Super Articulation Choir Voices, with amazingly realistic and natural human voice sounds--giving you even more expressive capability. Powerful, professional Auto Accompaniment Styles The Styles of the Tyros4 have been vastly enhanced with the expert use of new Super Articulation and Super Articulation 2 Voices. Greater and more expressive variations in the MegaVoices have been employed as well, particularly in the Scat and Gospel Voices. About the Manuals · Main Features Dynamic and Versatile Vocal Harmony feature--with Synth Vocoder The newly enhanced Vocal Harmony 2 (VH2) (page 82) processing engine delivers superior sound, lightning-fast processing, and comprehensive, flexible control of the harmonies applied to your singing voice. It also has a Synth Vocoder feature, providing the dynamic, popular vocoder effect for a variety of luscious and even other-worldly sounds. Moreover, the rear-panel combo jack lets you easily connect either XLR mic cables or 1/4" phone plug.

Voice expandability Tyros4 is an open-ended instrument that lets you continually expand the available content for your creative explorations. Yamaha has a special website (<http://music-tyros.com/>) featuring Premium Voices, Waves, Songs and Styles, etc. (called Premium Pack data) that can be purchased and loaded to the Tyros4. (In order to use the additional Waves and Voices you purchased, you'll need to install the optional Flash Memory Expansion Module.)

Audio recording and playback Tyros4 lets you record your performances as audio data (page 75), with two different methods, Simple (quick and easy recording to a single audio track) and Multi Track (overdub recording for complex songs).



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Since the created audio data is saved in WAV file format, you can edit your recordings on computer and share it over the Internet or burn your own original CD. The instrument also allows you to play back MP3 data. Convenient, easy-to-use Music Finder function With the enormous wealth of data available on the instrument (including your own Song and Audio data), the Music Finder function (page 66) lets you instantly find and call up what you need. Not only can you get ideal setups (Voice, Style, etc.

) for each song--searching by song title/genre--you can also easily retrieve your original Song and Audio data (registered beforehand). Additional new panel settings for the Tyros4 can be directly downloaded from the Internet. Enhanced features for directly connecting to the Internet The Tyros4 can also be directly connected to the Internet with the Internet Direct Connection function (page 90), allowing you to download special content without the need for a computer. Enhancements include a convenient, easy-to-use IDC Setup Wizard, as well as new security options, with WPA2 and WPA. The Tyros4 is compatible with the following formats.

"GM (General MIDI)" is one of the most common Voice allocation formats. "GM System Level 2" is a standard specification that enhances the original "GM" and improves Song data compatibility. It provides for increased polyphony, greater Voice selection, expanded Voice parameters, and integrated effect processing. XG is a major enhancement of the GM System Level 1 format, and was developed by Yamaha specifically to provide more Voices and variations, as well as greater expressive control over Voices and effects, and to ensure compatibility of data well into the future. GS was developed by the Roland Corporation.

In the same way as Yamaha XG, GS is a major enhancement of the GM specifically to provide more Voices and Drum kits and their variations, as well as greater expressive control over Voices and effects. The Yamaha XF format enhances the SMF (Standard MIDI File) standard with greater functionality and open-ended expandability for the future. The Tyros4 is capable of displaying lyrics when an XF file containing lyric data is played. "SFF (Style File Format)" is an original Style file format by Yamaha which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types. "SFF GE (Guitar Edition)" is an enhanced format of SFF, which features improved note transposition for guitar tracks. "AEM" is the trademark of Yamaha's leading-edge tone generation technology. For information on AEM, refer to page 37. Tyros4 Owner's Manual 9 Contents Included Accessories ...

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.. Page 106 For connecting an optional set of speakers. Connecting Headphones or Optional Speaker Since the Tyros4 has no built-in speakers, you'll need to monitor the sound of the instrument by using external equipment. Connect a set of headphones to the [PHONES] jack or use the speaker system, such as the optional TRS-MS04 speakers. For instructions on installing the TRS-MS04 to the Tyros4, see page 106. For instructions on connecting other speakers, see page 96. Shown here is the optional L-7S Keyboard Stand. CAUTION Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.

Tyros4 Owner's Manual 15 Starting Up This section contains information about setting up your Tyros4 and preparing to play. Be sure to read through this section carefully before turning the power on. Power Supply 1 2 Make sure the power on/off switch on the Tyros4 is set to off. Connect the supplied power cord to the AC IN terminal on the instrument's rear panel. WARNING Make sure your Tyros4 is rated for the AC voltage supplied in the area in which it is to be used (as listed on the bottom). Connecting the unit to the wrong AC supply can cause serious damage to the internal circuitry and may even pose a shock hazard! WARNING Use only the AC power cord supplied with the Tyros4. If the supplied cord is lost or damaged and needs to be replaced, contact your Yamaha dealer. The use of an inappropriate replacement can pose a fire and shock hazard! WARNING 3 Connect the other end of the power cord to an AC outlet. Make sure your Tyros4 meets the voltage requirement for the country or region in which it is being used. The type of AC power cord provided with the Tyros4 may be different depending on the country in which it is purchased (a third prong may be provided for grounding purposes).

Improper connection of the grounding conductor can create the risk of electrical shock. Do NOT modify the plug provided with the Tyros4. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use a plug adapter which defeats the grounding conductor. Turning the Power On Before you switch your Tyros4 on or off, make sure that the MASTER VOLUME and MIC GAIN are set to "MIN" and the volume of any connected audio equipment is turned down.

CAUTION 1 2 Press the power on/off switch on the rear panel. Use the [MASTER VOLUME] dial to adjust the volume to an appropriate level. In order to avoid possible damage to the speakers or other connected electronic equipment, always switch on the power of the Tyros4 before switching on the power of the amplified speakers or mixer and amplifier. Likewise, always switch off the power off the Tyros4 after switching off the power of the amplified speakers or mixer and amplifier. CAUTION 1 Even when the power switch is turned off, electricity is still flowing to the instrument at the minimum level.

When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet. 2 16 Tyros4 Owner's Manual Raising the Display Panel Unfasten the lock located at the back of the display panel.



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Then lift the panel and tilt it toward you. The panel will click as you tilt in back; these clicks are the four latched positions. Once you've set it to a satisfactory position, release the panel. It will gently fall back to the nearest latched position. Starting Up To return the panel to its closed and locked position, gently pull it back toward you until the position is vertical, then push it down until it locks into place. 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. Changing the Display Language This determines the language used in the display for messages, file names, and character input.

1 Call up the operation display. [FUNCTION] [1] UTILITY TAB [] OWNER 1 2 2 Use [4]/[5] buttons to select the desired language. Display the version number To check the version number of this instrument, press the [7]/[8] (VERSION) buttons in the display in step 2 above. Press the [EXIT] button or [8] button to return to the original display. Tyros4 Owner's Manual 17 Playing the Demo Overview Demo will play back continuously, calling up the various displays in sequence. 1 Press the [DEMO] button to start the Demo. 2 Press the [EXIT] button to exit from the Demo. 18 Tyros4 Owner's Manual Basic Operations Display-based Controls Basic Operations The LCD provides comprehensive at-a-glance information on all current settings. The displayed menu can be selected or changed by the controls around the LCD. TAB [] buttons (page 20) [A][J] buttons (see below) [A][J] buttons (see below) [DIRECT ACCESS] button (page 22) [EXIT] button (page 21) [1]/[8] buttons (page 20) [ASSIGN] slider (page 20) [DATA ENTRY] dial and [ENTER] button (page 21) [1]/[8] sliders (page 20) [A][J] buttons The [A][J] buttons are used to select the corresponding menu.

Example 1 In the File Selection display (page 24), the [A][J] buttons can be used to select the corresponding respective files. Example 2 The [A] and [B] buttons are used to move the cursor up or down. The [G], [H] and [I] buttons are used to select the corresponding parameter. Tyros4 Owner's Manual 19 TAB [] buttons These buttons are used mainly to change the Pages of displays that have "tabs" at the top. [ASSIGN] slider When the Footage Page of the Organ Flutes Voice is shown, this slider is used to adjust the footage lever of 16' (page 44).

When other displays are shown, this slider is used to adjust the keyboard volume (page 53) directly during your performance, by default. NOTE You can freely change the function assigned to the [ASSIGN] slider: [FUNCTION] [D] CONTROLLER TAB [] ASSIGN SLIDER. [1]/[8] sliders In the footage Page of the Organ Flutes Voice, these sliders are used to adjust the footages. In other displays, these sliders are used to adjust settings (up or down correspondingly) for functions shown directly above them, only when the menu is shown in a knob or slider shape. Footage levers of 5 1/3' 1' can be adjusted by the [1]/[8] sliders.

Knob or slider in the display can be adjusted by the corresponding [1]/[8] slider. [1]/[8] buttons The [1]/[8] buttons are used to make selections or adjust settings (up or down correspondingly) for functions shown directly above them. If a menu appears in this section of the display, use the [1]/[8] buttons. If list of the menu appears, use the [1]/[8] button to select the desired item. If a parameter appears in slider (or knob) form, use the [1]/[8] button to adjust the value. If a menu appears in this section of the display, use the [1]/[8] buttons. 20 Tyros4 Owner's Manual [DATA ENTRY] dial and [ENTER] button Depending on the selected LCD display, the [DATA ENTRY] dial can be used in the following two ways. Selecting files (Voice, Style, Song, and so on) When one of the File Selection displays (page 24) is shown, you can use the [DATA ENTRY] dial and the [ENTER] button to select a file (Voice, Style, Song, and so on). Basic Operations Rotate the [DATA ENTRY] dial to move the cursor. Press the [ENTER] button to actually select the highlighted file.

Adjusting the parameter values In addition to using sliders, you can conveniently use the [DATA ENTRY] dial in tandem with the [1]/[8] buttons to adjust parameters indicated in the display. Rotate the [DATA ENTRY] dial to adjust the selected parameter. Select the desired parameter with the appropriate [1]/[8] button. This convenient technique also works well with pop-up parameters such as Tempo and Transpose. Simply press the appropriate button (ex., TEMPO [+]), then rotate the [DATA ENTRY] dial and press [ENTER] to close the window. [EXIT] button No matter where you are in the Tyros4 display hierarchy, the [EXIT] button will return you to the next highest level or to the previously indicated display. Press the [EXIT] button several times returns the Tyros4 to the default Main display (page 23)--the same display that appears when the power is turned on. Tyros4 Owner's Manual 21 The Messages Shown in the Display A message (information or confirmation dialog) sometimes appears on the screen to facilitate operation. When the message appears, simply press the appropriate button.

Instant Selection of the Displays--Direct Access With the convenient Direct Access function, you can instantly call up the desired display--with just a single additional button press. 1 2 Press the [DIRECT ACCESS] button. A message appears in the display prompting you to press the appropriate button. Press the button (or move the slider, wheel or connected pedal) corresponding to the desired setting display to instantly call up that display. For example, pressing the [ACMP] button calls up the display in which the Chord Fingering type for accompaniment playback can be set.

Refer to the Data List for a list of the displays that can be called up with the Direct Access function. The Data List is available at the Yamaha website. (See page 8.) 22 Tyros4 Owner's Manual Main Display Configuration The display that appears when the power is turned on is the Main display. The Main display shows the current basic settings such as the currently selected Voice and Style, allowing you to see them at a single glance.

The Main display is the one you'll usually see when you play the keyboard. o !0 !1 !2 !3 !4 NOTE Here's a convenient way to return to the Main display from any other display: Simply press the [DIRECT ACCESS] button, then the [EXIT] button. NOTE q w e r t y u When turning on the power, a message may appear at top left of the Main display indicating the Expansion Voices are being loaded.



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Basic Operations i !5 q Song name and related information Displays the currently selected Song name, time signature and tempo. Pressing the [A] button calls up the Song Selection display (page 58). w MIC Input level indicator When the microphone is connected, this indicates the input level. Pressing the [B]/[C] buttons calls up the Vocal Harmony Type Selection display. e BAR/BEAT/TEMPO Displays the current position (bar/beat/tempo) in Style playback or Song playback. r Current chord name When the [ACMP] button is set to On, the chord specified in the chord section of the keyboard will be displayed. When the Song containing the chord data is played, the current chord name will be displayed.

t Style name and related information Displays the currently selected Style name, time signature and tempo. Pressing the [D] button calls up the Style Selection display (page 46). y Multi Pad Bank name Displays the names of the selected Multi Pad Banks. Pressing the [E] button calls up the Multi Pad Bank Selection display (page 64). u Voice name Displays the Voice names currently selected for RIGHT 1, RIGHT 2, RIGHT 3 and LEFT parts. Pressing one of the [F], [G], [H] and [I] buttons calls up the Voice Selection display for each part (page 34). i Registration Memory Bank name Displays the currently selected Registration Memory Bank name and Registration Memory number. Pressing the [J] button calls up the Registration Memory Bank Selection display (page 73). o Transpose Displays the amount of transposition in semitone units (page 39). NOTE When the Guide function is ON on the SONG SETTING display, a "G" indication appears next to q.

For information on the Guide function, see the Reference Manual, Chapter 3. Tyros4 Owner's Manual 23 !0 Audio Song information Displays information for the selected audio file (mode, file name and time). !1 Upper Octave Displays the amount that the octave value is shifted (page 39). !2 Registration Sequence Appears when the Registration Sequence is active. !3 ASSIGN slider function Displays the function (parameter) assigned to the ASSIGN slider and its value (page 20).

!4 Vocal Harmony Type Displays the currently selected Vocal Harmony Type. !5 Volume Balance Displays the volume balance among the parts. Adjust the volume balance among the parts by using the [1][8] buttons or sliders. File Selection Display Configuration The File Selection display is for selecting Voices, Styles, and other data. The File Selection display appears when you press one of the VOICE or STYLE category selection buttons, MULTI PAD CONTROL [SELECT] button, etc.

SONG selection buttons MULTI PAD CONTROL [SELECT] button REGIST BANK selection buttons AUDIO RECORDER/PLAYER [SELECT] button [VH TYPE SELECT] button STYLE category selection buttons VOICE category selection buttons 24 Tyros4 Owner's Manual q w Basic Operations e q Location (drive) of data · PRESET

.....
..Location where pre-programmed (preset) data is stored. · USER ..

.....
Location where recorded or edited data is saved. · HD....

.....
...Location where data is saved to an internal hard disk drive. · USB .

.....
...Location where data on USB storage device (flash memory, etc.

) is saved. This appears only when USB storage device(s) is connected to the [USB TO DEVICE] terminal (page 100). w Selectable data (files) The files that can be selected on this display are shown. If more than 10 files exist, the page numbers (P1, P2 ..

.) are shown below the files. Pressing the corresponding button ([1], [2], etc.) changes the display page. When other pages follow, the "Next" button appears, and for the previous page, the "Prev." button appears. e File/folder operation menu You can save and manage your data files (copy, move, delete, etc.) from this menu. For detailed instructions, refer to pages 28, 57. NOTE Hereafter in this manual, any USB storage device such as USB flash memory, etc.

will be referred to as "USB storage device." NOTE The data, both pre-programmed and your own original, are saved as "files." NOTE The number of pages shown varies depending on the Selection display. Closing the current folder and calling up the next highest level folder In the PRESET display, several data (files) are contained together in a folder. You can also organize your original data in the USER/HD/USB display by creating several new folders (page 28). To close the current folder and call up the next highest level folder, press the [8] (UP) button. Example of the PRESET Voice Selection display The PRESET Voice files are categorized and contained in appropriate folders. The next highest level--in this case, folder--is shown. Each folder shown in this display contains appropriately categorized Voices. This display shows the Voice files in a folder.

Tyros4 Owner's Manual 25 Changing the File Selection Display View The File Selection display actually has two different view types. One is Normal View, which we've seen up until this point. The other is List View, which lets you open files according to their numbers. Since the Tyros4 has many files spread out over several pages, number input in List View may be quicker and more convenient--providing you know the number of the file. Switch between the two types by pressing the [7] (VIEW) button.

File Selection display--Normal View (page 25) File Selection display--List View (see below) [F] [G] [H]/[I] [J] [1] [5] [6] [7] PROPERTY (TOP) PAGE UP/DOWN (END) (Number Input) Shows the property of the drive/folder/file. Moves the cursor to the top of this list (path). Scrolls by pages up/down through the list (path). Moves the cursor to the end of this list (path). Input the desired number.

To select Voice number 012, for example, press the buttons corresponding to "1" and "2" in sequence, and press the [ENTER] button. Entering one-digit numbers is done in the same way. Selects the next or previous file. Press this to cancel the number you've input. (UP/DOWN) CLEAR 26 Tyros4 Owner's Manual Memorizing Song/Style paths The File Selection display for Songs and Styles lets you memorize the path of specific Song/Style to one of the panel buttons. Even if your data is scattered across the drive in a complex hierarchy of folders and paths, you can instantly call up a specific file--no matter how deeply hidden--with a single button-press. 1 In the List View display, select the Song/Style to be memorized, then press the [E] (MEMORY) button. Basic Operations 2 Press one of the SONG [I]/[IV] buttons (for Songs) or one of the STYLE category selection buttons other than [FILE ACCESS] button (for

Styles). The path is memorized to the selected button. 3 Exit from the Song/Style Selection display by pressing the [EXIT] button, then call up the memorized path.

To call up the memorized path for a Song, simply press the appropriate SONG button selected in step 2. To call up the memorized path for a Style, first turn on the [FILE ACCESS] button, then press the appropriate STYLE button selected in step 2.



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Tyros4 Owner's Manual 27 File Management If you've saved a lot of files to a USER, HD or USB drive, it may be difficult to find the desired file quickly. To make it easier to find the files you want, you can organize your files in folders, rename the files, delete unnecessary files, etc. These operations are done in the File Selection display. Creating a New Folder This operation lets you create new folders. Folders can be created, named and organized as desired, making it easier to find and select your original data. NOTE A new folder cannot be made in the PRESET tab. NOTE 1 In the file selection display, select the appropriate tab (USER, HD or USB) to which you want to save the data by using the TAB [] buttons. If you want to create a new folder within the existing folder, also select the folder here.

The maximum number of files/folders which can be stored in a folder is 500. NOTE 1 In the USER tab display, folder directories can contain up to four levels. The maximum total number of files/folders which can be stored differs depending on the file size and the length of the file/folder names. 2 2 Press the [7] (FOLDER) button to call up the naming display for a new folder. 3 Input the name of the new folder (see page 31).

NOTE The following marks cannot be entered for a file/folder name. ¥: *? "<>| 28 Tyros4 Owner's Manual Renaming Files/Folders This operation lets you rename files/folders. NOTE 1 2 Call up the display containing the file/folder you want to rename. Press the [1] (NAME) button. The pop-up window for the Rename operation appears at the bottom of the display.

Files in the PRESET tab cannot be renamed. Basic Operations 3 4 5 Press one of the [A][J] buttons corresponding to the desired file/folder. Press the [7] (OK) button to confirm the file/folder selection. Input the name (characters) of the selected file or folder (page 31). The renamed file/folder appears on the display at the appropriate position among the files in alphabetical order. NOTE To cancel the Rename operation, press the [8] (CANCEL) button. Copying or Moving Files This operation lets you copy or cut a file and paste it to another location (folder). You can also copy a folder (but not move it) by using the same procedure. NOTE Files in the PRESET tab cannot be moved. They can only be copied.

1 2 Call up the display containing the file/folder you want to copy. Press the [3] (COPY) button to copy or [2] (CUT) to move. The pop-up window for the Cut operation appears at the bottom of the display. NEXT PAGE Tyros4 Owner's Manual 29 3 Press one of the [A][J] buttons corresponding to the desired file/folder. To cancel the selection, press the same [A][J] button again. Press the [6] (ALL) button to select all files/folders indicated on the current display including the other pages. To cancel the selection, press the [6] (ALL OFF) button again. 4 5 6 Press the [7] (OK) button to confirm the file/folder selection. Select the destination tab (USER, HD or USB) to paste the file/folder, by using the TAB [] buttons. If necessary, select the destination folder by using the [A][J] buttons.

NOTE To cancel the Copy operation, press the [8] (CANCEL) button. Press the [4] (PASTE) button to paste the file/folder selected in step 3. The pasted file/folder appears on the display at the appropriate position among the files in alphabetical order. Deleting Files/Folders This operation lets you delete a file/folder. NOTE 1 2 Call up the display containing the file/folder you want to delete.

Press the [5] (DELETE) button. The pop-up window for the Delete operation appears at the bottom of the display. Files in the PRESET tab cannot be deleted. 3 Press one of the [A][J] buttons corresponding to the desired file/folder. To cancel the selection, press the same [A][J] button again. Press the [6] (ALL) button to select all files/folders indicated on the current display including the other pages. To cancel the selection, press the [6] (ALL OFF) button again. 4 5 Press the [7] (OK) button to confirm the file/folder selection. Follow the on-display instructions. · YES

.....
.....
.Delete the file/folder · YES ALL
.....Delete all selected files/folders · NO .

.....
.....
.....
...Leave the file/folder as is without deleting · CANCEL

.....Cancel the Delete operation NOTE To cancel the Delete operation, press the [8] (CANCEL) button. 30 Tyros4 Owner's Manual Entering Characters The instructions that follow show you how to enter characters for naming your files/folders, inputting keywords, etc. Entering characters should be done in the display shown below. 2 1 3 Several different characters are assigned to each button, and the characters change each time you press the button. 4 Basic Operations 1 2 3 Change the type of character by pressing the [1] button. · CASE

.....
.....
.....
capital letters, numbers, marks · case.....

.....
.....
...lowercase letters, numbers, marks Use the [DATA ENTRY] dial to move the cursor to the desired position. Press the [2][6] and [7] buttons, corresponding to the character you wish to enter. To actually enter the selected character, move the cursor or press another letterinput button. Alternately, you can wait for a short time and the characters will be entered automatically. For details on entering characters, refer to "Other character-entry operations" below. NOTE The file name can contain up to 41 characters and the folder name can contain up to 50 characters. NOTE 4 Press the [8] (OK) button to actually enter the new name and return to the previous display.

When entering a password for a website or the key for wireless LAN connection, the characters are converted to asterisks (*) for security purposes. NOTE To cancel the character-entering operation, press the [8] (CANCEL) button. Other character-entry operations Deleting characters Move the cursor to the character you wish to delete by using the [DATA ENTRY] dial, and press the [7] (DELETE) button. To delete all characters on the line at once, press and hold the [7] (DELETE) button. Entering marks or space 1 Press the [6] (SYMBOL) button to call up the mark list. 2 Use the [DATA ENTRY] dial to move the cursor to the desired mark or space, then press the [8] (OK) button. Selecting custom icons for files (shown at left of file name) 1 Press the [1] (ICON) button to call up the ICON SELECT display. 2 Select the icon by using the [A][J] buttons, [3][5] buttons or [DATA ENTRY] dial. The ICON display includes several pages. Press the TAB [] buttons to select different pages.

NOTE 3 Press the [8] (OK) button to apply the selected icon. To cancel the operation, press the [8] (CANCEL) button. Tyros4 Owner's Manual 31 Restoring the Factory-programmed Settings While holding the C6 key (right-most key on the keyboard), turn the power switch on.



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This restores the all settings (except Internet Settings) to the factory default. NOTE If you want to initialize only the Registration Memory settings, turn the power switch on while holding the B5 key.

NOTE C6 To reset the Internet Settings, call up the operation display: [INTERNET] [5] SETTING [A] NETWORK SETTINGS [E] INITIALIZE SET UP. You can also restore a specified setting to the factory default value, or save/load your own reset settings. Call up the operation display: [FUNCTION] [I] UTILITY TAB [I] SYSTEM RESET. For details, refer to the Reference Manual on the website. Data Backup For maximum data security Yamaha recommends that you copy or save your important data to a USB storage device.

This provides a convenient backup if the internal memory is damaged. 1 2 Insert/connect the backup USB storage device (destination). Call up the operation display. [FUNCTION] [I] UTILITY TAB [I] OWNER NOTE Before using a USB storage device, be sure to read "Connecting a USB Storage Device" on page 100. NOTE Completing the backup/restore operation may take a few minutes. 2 3 NOTICE Move the Protected Songs which are saved to the USER display before restoring. If the songs are not moved, the operation deletes the data. NOTE 3 Press the [D] (BACKUP) button to save the data to the USB storage device. To restore the data, press the [E] (RESTORE) button in this display. When the operation is complete, the instrument will be restarted automatically.

To save the Song, Style, Multi Pad, Registration Memory Bank and Voice independently, execute the Copy & Paste operation from the File Selection display (page 29). NOTE To save the Music Finder Record, Effect, MIDI Template and System File, call up the operation display: [FUNCTION] [I] UTILITY TAB [I] SYSTEM RESET. For more information, refer to the Reference Manual on the website. 32 Tyros4 Owner's Manual 1 Voices Playing the Keyboard The Tyros4 features a wide variety of exceptionally realistic instrumental Voices, including piano, guitar, strings, brass, wind instruments and more. 1 Voices Playing the Keyboard Playing Preset Voices Selecting a Voice (RIGHT 1) and playing the keyboard 1 Press the PART SELECT [RIGHT 1] button. Make sure that the PART ON/OFF [RIGHT 1] button is also turned on. If it is turned off, the right-hand part will not sound. 2 Press one of the VOICE category selection buttons to select a Voice category and call up the Voice Selection display. NOTE For more information on the VOICE category selection buttons, refer to page 36. The preset Voices are categorized and contained in appropriate folders.

Voice buttons on the panel correspond to the categories of the preset Voices. For example, press the [PIANO] button to display various piano Voices. NEXT PAGE Tyros4 Owner's Manual 33 3 Press one of the [A][J] buttons to select the desired Voice. To call up the other display pages, press one of the [1][4] buttons or press the same VOICE button again. NOTE The Voice type and its defining characteristics are indicated above the Preset Voice name.

For details on the characteristics, see page 36. NOTE 3 You can call up the information for the selected Voice by pressing the [6] (INFO) button (Some Voices do not have the information display.) To close the information display, press any panel button. To listen to the demo songs for each Voice Press the [8] (DEMO) button to start the Demo for the selected Voice. To stop the demo, press the [8] button again.

4 Play the keyboard. Recalling your favorite Voices easily The Tyros4 has a huge amount of high-quality Voices, covering an exceptionally broad range of instrument sounds--making it perfect for virtually every musical application. However, the sheer number of Voices may seem overwhelming at first. By using the [USER DRIVE] button, you can easily recall your favorite Voice. 1 Copy your favorite Voice from the Preset drive to the User drive. Refer to page 29 for details on the copy operation. 2 Press the [USER DRIVE] button to call up the User drive of the Voice Selection display, then press one of the [A][J] buttons to select the desired Voice. Playing Two or Three Voices Simultaneously 1 2 Make sure that PART ON/OFF [RIGHT 1] button is turned on. Press the PART ON/OFF [RIGHT 2] button to turn it on. 3 4 5 Press one of the VOICE category selection buttons to call up the Voice Selection display for the Right 2 part.

Press one of the [A][J] buttons to select the desired Voice. Play the keyboard. The Voice selected for RIGHT 1 (page 33) and the Voice selected here are sounded simultaneously in a layer. Voice RIGHT 3 can be set in the same way described above, by using the [RIGHT 3] button instead. NOTE You can save the settings to Registration Memory. See page 72. 34 Tyros4 Owner's Manual Playing Different Voices with the Left and Right Hands 1 2 Make sure that some of PART ON/OFF [RIGHT 1][RIGHT 3] buttons are turned on. Press the PART ON/OFF [LEFT] button to turn it on. 1 Voices Playing the Keyboard 3 4 5 Press one of the VOICE category selection buttons to call up the Voice Selection display for the Left part. Press one of the [A][J] buttons to select the desired Voice.

Play the keyboard. The notes you play with your left hand sound one Voice (LEFT Voice selected above), while the notes you play with your right sound a different Voices (RIGHT 13 Voices). NOTE You can save the settings to Registration Memory. See page 72. Split Point Voice LEFT (LOWER) Voice RIGHT 1, 2, 3 (UPPER) Keyboard Parts Voices can be assigned independently to each of the four keyboard parts: Right 1, Right 2, Right 3 and Left.

You can combine these parts by using the PART ON/OFF buttons to create a rich, ensemble sound. You can confirm the currently selected part by checking which lamp of the PART SELECT buttons is lit. To select the desired keyboard part, press the corresponding part button. If you want to turn a specified part on, press the desired PART ON/OFF button. Lower section of the keyboard Upper section of the keyboard Split Point (F#2) When the LEFT part is off, the RIGHT 13 Voices can be played over the entire keyboard.

When the LEFT part is on, keys lower than F#2 (the Split Point) are set for playing the LEFT part and those higher than the Split Point are set for playing the RIGHT 13 parts. NOTE To change the Split Point, press: [FUNCTION] [C] STYLE SETTING/SPLIT POINT/CHORD FINGERING TAB [I] SPLIT POINT.

For more information, refer to the Reference Manual on the website. Tyros4 Owner's Manual 35 Holding the LEFT part Voice (Left Hold) This function causes the LEFT part Voice to be held even when the keys are released. Nondecaying Voices such as strings are held continuously, while decay-type Voices such as piano decay more slowly (as if the sustain pedal has been pressed).



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Voice Types Preset Voices Percussion/Drum Voices When one of the Voices is selected from this button, you can play various drums and percussion instruments or SFX (sound effects) sounds on the keyboard. Details are given in the Drum List provided in the Data List on the website. *Organ Flutes Voices* (page 44) [USER DRIVE] button (page 34) *Expansion Voices* This is used for calling up Custom Voices (your original Voices created with the Voice Creator function), or Premium Voices (obtained via the Internet at our special website). For details, refer to the section "Purchasing and Installing Premium Pack Data" (page 38). *Voice Characteristics* The Voice type and its defining characteristics are indicated above the Voice name--Live!, Cool!, Sweet!, etc.

. For detailed explanation, refer to the Reference Manual. In this section, only Mega Voice and Super Articulation Voices (SA and SA2) are explained. These Voices have special characteristics you should be aware of, and they require specific performance techniques to bring out all of their expressive qualities. NOTE MegaVoices, SA and SA2 Voices are only compatible with other models which have those three types of Voices installed. Any Song, Style or Multi Pads data you've created on the Tyros4 using these Voices will not sound properly when played back on other instruments. NOTE MegaVoices What makes MegaVoices special is their use of velocity switching. Each velocity range (the measure of your playing strength) has a completely different sound. For example, a guitar MegaVoice includes the sounds of various performance techniques. In conventional instruments, different Voices having those sounds would be called up via MIDI and played in combination to achieve the desired effect.

However, now with MegaVoices, a convincing guitar part can be played with just a single Voice, using specific velocity values to play the desired sounds. Because of the complex nature of these Voices and the precise velocities need to play the sounds, they're not intended for playing from the keyboard. They are, however, very useful and convenient when creating MIDI data--especially when you want to avoid using several different Voices just for a single instrument part. MegaVoices, SA and SA2 Voices sound differently depending on the keyboard range, velocity, touch, etc. Hence, if you apply HARMONY/ECHO effect, change the transpose setting or change the Voice Set parameters, unexpected or undesired sounds may result.

36 Tyros4 Owner's Manual *Super Articulation Voices* The word "articulation" in music usually refers to the transition or continuity between notes. This is often reflected in specific performance techniques, such as staccato, legato and slur. Two types of Voices--Super Articulation (SA) Voices and Super Articulation 2 (SA2) Voices--enable you to create these subtle musical expressions, simply by how you play. SA Voices (S.Articulation!) The SA Voices provide many of same benefits as the MegaVoices, but with greater playability and expressive control in real time.

For example, with the Saxophone Voice, if you play a C and then a D in a very legato way, you will hear the note change seamlessly, as though a saxophone player played it in a single breath. Similarly with the Concert Guitar Voice, the D note would sound as a "hammer on", without the string being plucked again. Depending on how you play, other effects such as subtle sound produced when the keys are released or sustain sound that occur when you press the damper pedal of a grand piano (for the Grand Piano Voice), shake or breath noises (for the Trumpet Voice), or finger noises (for the Guitar Voice) will be produced. SA2 Voices (S. Articulation2!) For wind instrument Voices and Violin Voices, a special technology called AEM has been used, which features detailed samples of special expressive techniques used on those specific instruments--to bend or slide into notes, to "join" different notes together, or to add expressive nuances at the end of a note, etc. You can add these articulations by playing legato or non-legato, or by jumping in pitch by around an octave. For example, using the Clarinet Voice, if you hold a C note and play the Bb above, you'll hear a glissando up to the Bb. Some "note off" effects are also produced automatically when you hold a note for over a certain time. Each SA2 Voice has its own default vibrato setting, so that when you select a SA2 Voice, the appropriate vibrato is applied regardless of the Modulation wheel position. You can adjust the vibrato by moving the Modulation wheel.

You can also use the [ART. 1]/[ART. 2] buttons to add articulations to the SA and SA2 Voices (page 40). For details on how to best play each SA and SA2 Voice, call up the information window (pressing the [6] (INFO) button in the Voice Selection display.) NOTE 1 Voices *Playing the Keyboard* For more information on AEM technology, see below. NOTE The characteristics of SA2 Voices (default vibrato setting and articulation effects applied by the [ART] buttons) are effective for real-time performance; however, these effects may not be completely reproduced when you play back a Song which has been recorded using SA2 Voices. *AEM Technology* When you play the piano, pressing a "C" key produces a definite and relatively fixed C note. When you play a wind instrument, however, a single fingering may produce several different sounds depending on the breath strength, the note length, the adding of trills or bend effects, and other performance techniques. Also, when playing two notes continuously--for example "C" and "D"--these two notes will be smoothly joined, and not sound independent as they would on a piano. AEM (Articulation Element Modeling) is the technology for simulating this characteristic of instruments.

During performance, the most appropriate sound samples are selected in sequence in real time, from huge quantities of sampled data. They are smoothly joined and sounded--as would naturally occur on an actual acoustic instrument. This technology to smoothly join different samples enables the application of realistic vibrato. Conventionally on electronic musical instruments, vibrato is applied by moving the pitch periodically. AEM technology goes much further by analyzing and disaggregating the sampled vibrato waves, and smoothly joins the disaggregated data in real time during your performance.

If you move the Modulation wheel when you play the SA2 Voice (using AEM technology), you can also control the depth of the vibrato, while maintaining its realistic quality. Tyros4 Owner's Manual 37 *Purchasing and Installing Premium Pack Data* By accessing the special website with your computer, you can purchase Premium Voices, Songs and Styles, etc. (called Premium Pack data). This data can be installed to the instrument and used to expand the creative potential. IMPORTANT On your computer, access the following special website.



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