

PSR-S670

Digital Workstation
Clavier Arrangeur Professionnel
Estación de Trabajo Digital

Owner's Manual
Mode d'emploi
Manual de instrucciones

Thank you for purchasing this Yamaha Digital Workstation!
We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the instrument. We also recommend that you keep this manual in a safe and handy place for future reference.

Before using the instrument, be sure to read "PRECAUTIONS" on pages 5–6.

Merci d'avoir choisi ce Clavier Arrangeur Professionnel Yamaha !
Nous vous conseillons de lire attentivement ce mode d'emploi afin de tirer pleinement profit des fonctions avancées et très utiles de votre instrument. Nous vous recommandons également de garder ce manuel à portée de main pour toute référence ultérieure.

Avant d'utiliser l'instrument, lisez attentivement la section « PRÉCAUTIONS D'USAGE » aux pages 5 et 6.

Le damos las gracias por adquirir esta Estación de Trabajo Digital de Yamaha.
La lectura detenida de este manual le permitirá disfrutar de las útiles y avanzadas funciones del instrumento. Recomendamos guardar el manual en un lugar seguro y accesible, para futuras consultas.

Antes de utilizar el instrumento, lea las "PRECAUCIONES", en las páginas 5 y 6.



SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. 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.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using.

Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

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.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, never mix old batteries with new ones, and never mix different types of batteries. 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.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model _____

Serial No. _____

Purchase Date _____

PLEASE KEEP THIS MANUAL

92-BP (bottom)

COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone : 714-522-9011
Type of Equipment : Digital Keyboard
Model Name : PSR-S670

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)

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 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.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

For AC adaptor

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.

(fcc_sengen_C)

CAN ICES-3 (B)/NMB-3(B)

- This applies only to products distributed by Yamaha Canada Music Ltd.
- Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée.
(can_b_01)



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an 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 electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 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.
- 10 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 Only use attachments/accessories specified by the manufacturer.
- 12 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.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 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.



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

(UL60065_03)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

For AC adaptor



WARNING

- This AC adaptor is designed for use with only Yamaha electronic instruments. Do not use for any other purpose.
- Indoor use only. Do not use in any wet environments.



CAUTION

- When setting up, make sure that the AC outlet is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch of the instrument and disconnect the AC adaptor from the outlet. When the AC adaptor is connected to the AC outlet, keep in mind that electricity is flowing at the minimum level, even if the power switch is turned off. When you are not using the instrument for a long time, make sure to unplug the power cord from the wall AC outlet.

For PSR-S670



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/AC adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 101) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

Do not open

- This instrument contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

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.
 - 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/AC adaptor

- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

Location

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- Use only the stand specified for the instrument. When attaching it, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

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. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Even when the [] (Standby/On) switch is in standby status (display is off), electricity is still flowing to the instrument at the minimum level.

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

DMI-5 2/2

NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

■ Handling

- 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. When you use the instrument along with an application on your iPad, iPhone or iPod touch, we recommend that you set "Airplane Mode" to "ON" on that device in order to avoid noise caused by communication.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F.)
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.

■ Maintenance

- When cleaning the instrument, use a soft cloth. Do not use paint thinners, solvents, alcohol, cleaning fluids, or chemical-impregnated wiping cloths.

■ Saving data

- The edited Songs/Styles/Voices/Multi Pads and MIDI settings are lost when you turn off the power to the instrument. This also occurs when the power is turned off by the Auto Power Off function (page 15). Save the edited data to the instrument, or to a USB flash drive (page 26). However, the data saved to the instrument may be lost due to some failure, an operation mistake, etc. Save your important data onto a USB flash drive. For information about the handling of USB flash drive, refer to page 91.
- To protect against data loss through USB flash drive damage, we recommend that you save your important data onto spare USB flash drive or an external device such as a computer as backup data.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

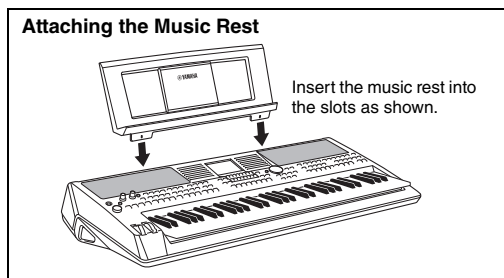
Model No. _____

Serial No. _____

(bottom_en_01)

Included Accessories

- Owner's Manual (this book)
- Online Member Product Registration
The "PRODUCT ID" on the sheet will be needed when you fill out the User Registration form.
- Music rest
- AC adaptor*, Power cord*
*May not be included depending on your area. Check with your Yamaha dealer.



About the Manuals

This instrument has the following document and instructional materials.

■ Included Document



Owner's Manual (this book)

Provides overall explanations of the PSR-S670 basic functions.

■ Online Materials (PDF)



Reference Manual (only in English, French, German and Spanish)

Explains advanced features of the instrument, not explained in the Owner's Manual. For example, you can learn how to create original Styles, Songs or Multi Pads, or find detailed explanations of specific parameters.



Data List

Contains various important preset content lists such as Voices, Styles, Effects, as well as MIDI-related information.



Computer-related Operations

Includes instructions on connecting this instrument to a computer, and operations related to transmitting/receiving MIDI data.



iPhone/iPad Connection Manual (only in English, French, German and Spanish)

Explains how to connect the instrument to smart devices, such as an iPhone, iPad, etc.



MIDI Basics (only in English, French, German and Spanish)

If you want to know more about MIDI and how to use it, refer to this introductory book.

To obtain these materials, access the Yamaha Downloads website, then enter the model name for searching the desired files.

Yamaha Downloads <http://download.yamaha.com/>

- The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- The displays are taken from the PSR-S670, and are in English.
- iPhone, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

Instruction conventions in this manual

Throughout this manual, instructions with multiple steps are given in convenient shorthand, with arrows indicating the proper sequence.

Example: [FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶] SYSTEM → [ENTER] → TAB [◀][▶] BACKUP/RESTORE

The example above describes a five step operation:

- 1) Press the [FUNCTION] button.
- 2) Press the TAB [▶] button to select the MENU 2 tab.
- 3) Use the Cursor buttons [▲][▼][◀][▶] to select "SYSTEM."
- 4) Press the [ENTER] button.
- 5) Use the TAB [◀][▶] buttons to select the BACKUP/RESTORE tab.

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. This instrument 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.

Information

■ About copyrights

- Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.
- This product incorporates and bundles contents in which Yamaha owns copyrights or with respect to which Yamaha has license to use others' copyrights. Due to copyright laws and other relevant laws, you are NOT allowed to distribute media in which these contents are saved or recorded and remain virtually the same or very similar to those in the product.
 - * The contents described above include a computer program, Accompaniment Style data, MIDI data, WAVE data, voice recording data, a score, score data, etc.
 - * You are allowed to distribute medium in which your performance or music production using these contents is recorded, and the permission of Yamaha Corporation is not required in such cases.

■ About functions/data bundled with the instrument

- Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original.
- This device is capable of using various types/formats of music data by optimizing them to the proper format music data for use with the device in advance. As a result, this device may not play them back precisely as their producers or composers originally intended.
- The bitmap fonts used in this instrument have been provided by and are the property of Ricoh Co., Ltd.

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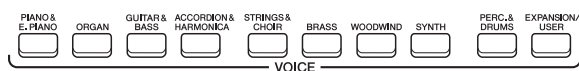
Welcome to Digital Workstation



Extraordinarily expressive and realistic Voices

page 33

The PSR-S670 has a comprehensive and sonically stunning set of authentic Voices, and gives you the tools to play these Voices more naturally and with greater expressiveness.



Play along with a backing band

page 45

The Styles of the PSR-S670 make it possible to perform in a wide variety of music genres with full instrumental accompaniment. Simply playing chords automatically triggers and controls the auto accompaniment backing, and puts an entire backing band behind you!

You can change arrangements on the fly, instantly selecting different rhythm variations and breaks in real time — including Intro, Ending, and Fill-in — during your performance.



Make your performance more dynamic using Multi Pads

page 74

The Multi Pads can be used to play a number of short pre-recorded rhythmic and melodic sequences. Playing the Multi Pads during playback of Styles, etc. can add impact and variety to your performance, and make it more dynamic.

Voice and Style expandability

page 44

The PSR-S670 is an open-ended instrument that lets you continually expand the available content for your creative explorations. Featured on our special website (<http://www.yamaha.com/awk/>) are many Voices and Styles (called Expansion Pack data) that you can buy and load to the PSR-S670. By using the “Yamaha Expansion Manager” software, you can manage the variety of Expansion Packs and create your own custom Pack for installing on your instrument.

Powerful DSP effects for enhancing the sound

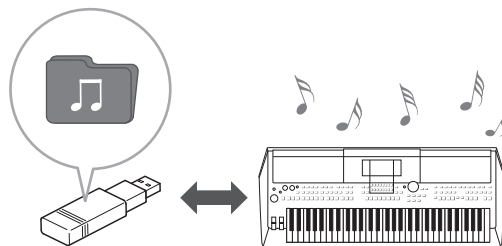
page 40

The PSR-S670 has high-quality effect types, including Real Distortion and Real Reverb. The DSP effects allow you to play the keyboard dynamically with a distorted guitar sound, or sound like you are playing in a concert hall.

Audio playing and recording

page 69

Audio files (WAV format) saved to a USB flash drive can be played back on the instrument. You can also record your performance as audio files (WAV format) to a USB flash drive — making it easy to edit your recordings on computer as desired, and share them over the Internet, or burn your own original CDs.

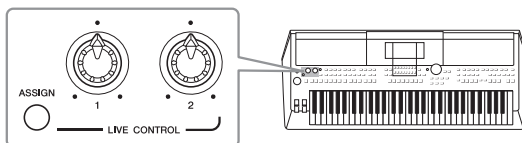


Versatile real-time controller — Live Control

page 38

The two knobs to which various functions can be assigned lets you intuitively control your performance in real-time. For example, you can use the knobs to brightness (cutoff frequency) of the sound being played or to control the volume balance between the parts such as Voice and Style. Thus you can easily add variations to the sound without interrupting your performance.

You can also control your performance easily by using the two wheels — PITCH BEND and MODULATION. The PITCH BEND wheel can bend the notes up or down, and the MODULATION wheel can apply a vibrato effect to notes played on the keyboard.



Playing with Arpeggios

page 42

You can play arpeggios (broken chords) by simply pressing the appropriate notes on the keyboard, allowing you to instantly and automatically have complex and otherwise difficult-to-play phrases backing your performance.

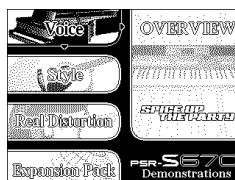
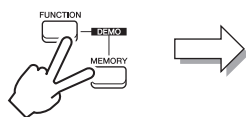


These are just a few of the many functions that enhance your musical enjoyment and expand your creative and performance possibilities. Try them out and enjoy your new keyboard!

Explore the Demos to learn more about the PSR-S670's functions and features!

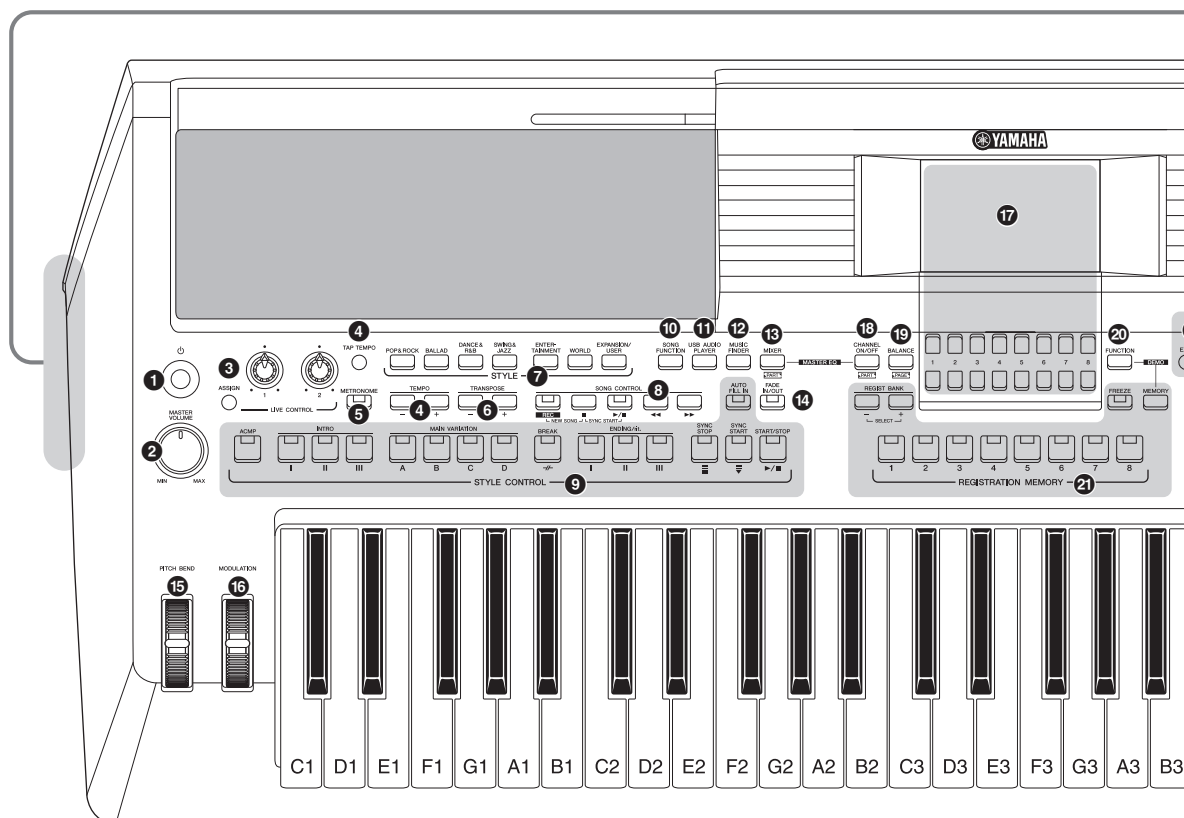
page 17

The Demos showcase the high-quality sounds, variety of advanced functions, and provide helpful information for learning about your new keyboard.



Panel Controls

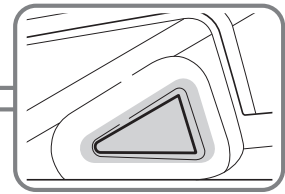
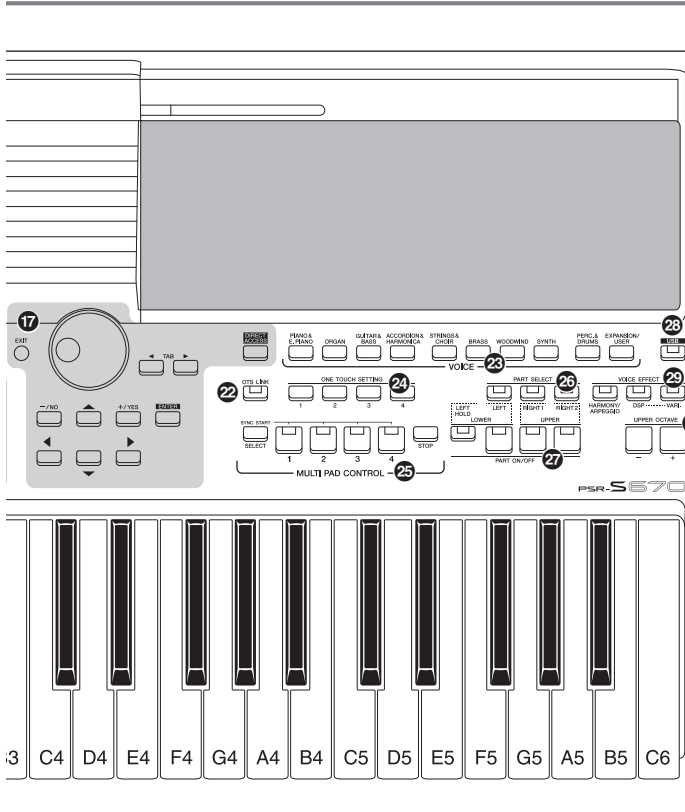
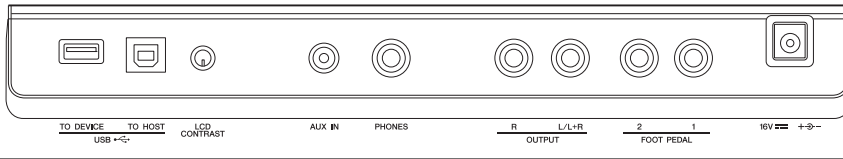
■ Top Panel



- 1 [] (Standby/On) switchPage 14
Turns on the instrument's power or sets to standby.
- 2 [MASTER VOLUME] dialPage 16
Adjusts the overall volume.
- 3 [ASSIGN] button, LIVE CONTROL knobsPage 38
Assigns functions and controls sounds in real time.
- 4 [TAP TEMPO]/TEMPO [-]/[+] buttonsPage 48
Controls the tempo for Style, Song and Metronome playback.
- 5 [METRONOME] buttonPage 35
Turns the metronome on or off.
- 6 [TRANSPOSE [-]/[+] buttonsPage 36
Transposes the entire pitch of the instrument in semitone steps.
- 7 STYLE category selection buttonsPage 45
Selects a Style category.
- 8 SONG CONTROL buttonsPage 60
Controls Song playback.
- 9 STYLE CONTROL buttonsPage 47
Controls Style playback.
- 10 [SONG FUNCTION] buttonPage 59
Calls up the SONG FUNCTION MENU display for selecting Songs etc.
- 11 [USB AUDIO PLAYER] buttonPage 69
Calls up the display for playing back audio files and recording your performance in audio format.
- 12 [MUSIC FINDER] buttonPage 78
Calls up ideal panel setups for your performance.
- 13 [MIXER] buttonPage 86
Calls up various settings for the keyboard, Style and Song parts.
- 14 [FADE IN/OUT] buttonPage 48
Controls fade in/out of Style/Song playback.
- 15 [PITCH BEND] wheelPage 37
Bends the pitch of the keyboard played sound up or down.
- 16 [MODULATION] wheelPage 37
Applies vibrato effects, etc.

■ Rear Panel

For details on the Rear Panel, refer to page 88.



Side bass reflex port

There are ports (holes) on the right and left sides of this instrument for resonance. Do not insert any objects (a pen or handkerchief etc.) into them.

CAUTION

Do not insert your fingers or hands into the ports when carrying this instrument to prevent injury.

- 17 LCD and related controls**.....Page 20
- 18 [CHANNEL ON/OFF] button**.....Pages 53, 63
Calls up settings for turning Style/Song channels on or off.
- 19 [BALANCE] button**Pages 54, 72
Calls up settings for the volume balance among the parts.
- 20 [FUNCTION] button**Page 94
Lets you make advanced settings and create your original Styles, Songs and Multi Pads.
- 21 REGISTRATION MEMORY buttons**.....Page 83
Registers and recalls panel setups.
- 22 [OTS LINK] button**Page 51
Turns on/off the OTS Link function.
- 23 VOICE category selection buttons**.....Page 33
Selects a Voice category.
- 24 ONE TOUCH SETTING buttons**Page 50
Calls up the appropriate panel settings for the Style.
- 25 MULTI PAD CONTROL buttons**.....Page 74
Selects and plays a rhythmic or melodic Multi Pad phrase.
- 26 PART SELECT buttons** Page 34
Selects a keyboard part.
- 27 PART ON/OFF buttons**.....Page 35
Turns the keyboard part on or off.
- 28 [USB] button**.....Page 92
Calls up the display for selecting a file in the USB flash drive.
- 29 VOICE EFFECT buttons**.....Page 40
Applies various effects to the keyboard performance.
- 30 UPPER OCTAVE [-]/[+] buttons** Page 36
Shifts the pitch of the keyboard in octave steps.

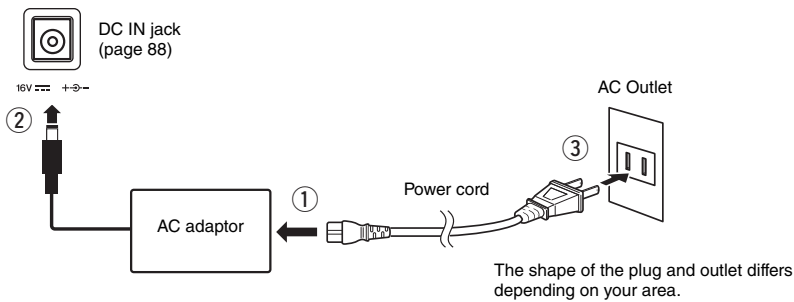
Panel Setup (Panel Settings)

By using the controls on the panel, you can make various settings as described here. These settings of the instrument are together referred to as "panel setup" or "panel settings" in this manual.

Setting Up

Power Requirements

Connect the AC adaptor in the order shown in the illustration.



WARNING

Use the specified AC adaptor (page 101) only. Using the wrong AC adaptor can result in damage to the instrument or overheating.

CAUTION

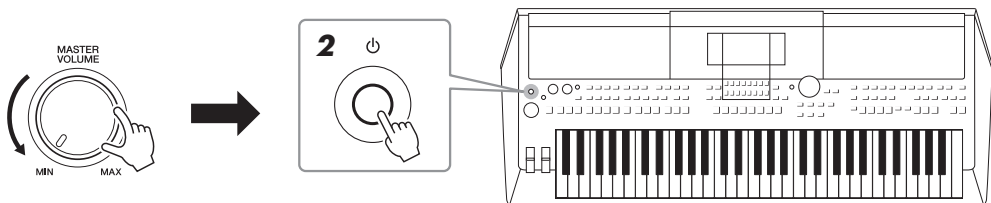
When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn the power off and disconnect the plug from the outlet.

NOTE

Follow this procedure in reverse order when disconnecting the AC adaptor.

Turning the Power On/Off

- 1 Turn down the [MASTER VOLUME] dial to "MIN".



- 2 Press the [⏻] (Standby/On) switch to turn on the power.

After the Main display appears, adjust the volume as desired while playing the keyboard.

- 3 After you finish using the instrument, turn off the power by pressing the [⏻] (Standby/On) switch for about a second.

CAUTION

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.

NOTICE

Do not press the foot pedal or move the [PITCH BEND] wheel, etc. when turning the power on. Doing so may cause the instrument to malfunction.

NOTE

Until the Main display appears, no operations can be carried out, including power-off and keyboard performance.

NOTICE

While recording or editing, or while a message is displayed, the power cannot be turned off even if you press the [⏻] (Standby/On) switch. If you want to turn off the power, press the [⏻] (Standby/On) switch after recording, editing, or after the message has disappeared. If you need to force-quit the instrument, hold down the [⏻] (Standby/On) switch for longer than three seconds. Note that the force-quit operation might cause data loss and damage to the instrument.

Setting the Auto Power Off function

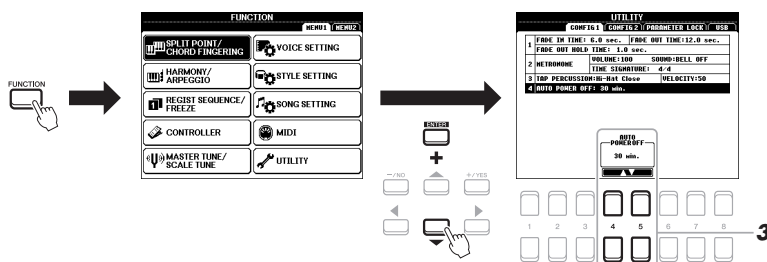
To prevent unnecessary power consumption, this instrument features an Auto Power Off function that automatically turns the power off if the instrument is not operated for a specified period of time. The amount of time that elapses before the power is automatically turned off is approximately 30 minutes by default; however, you can change the setting.

NOTICE

The data which is not saved to the USER or USB drive will be lost if the power automatically turns off. Make sure to save your data before the power turns off (page 26).

1 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶]
UTILITY → [ENTER] → TAB [◀] CONFIG 1



2 Use the Cursor button [▼] to select “4. AUTO POWER OFF.”

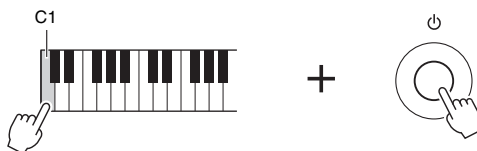
3 Use the [4 ▲▼]/[5 ▲▼] buttons to set the value.

If you do not want to turn the power off automatically (disable the Auto Power Off), select DISABLED.

Press the [EXIT] button several times to return to the Main display.

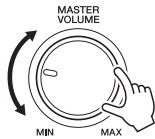
Disabling Auto Power Off (simple method)

Turn the power on while holding down the lowest key on the keyboard. A message appears briefly, then the instrument starts up with the Auto Power Off function disabled.



Adjusting the Master Volume

To adjust the volume of the entire keyboard sound, use the [MASTER VOLUME] dial while playing the keyboard.

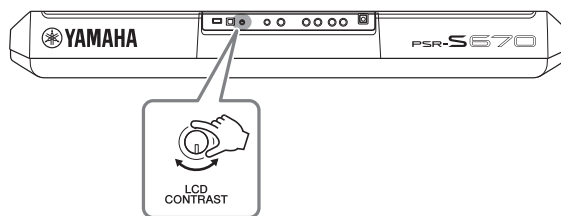


CAUTION

Do not use the instrument at high volume for long periods of time. Doing so may cause hearing loss.

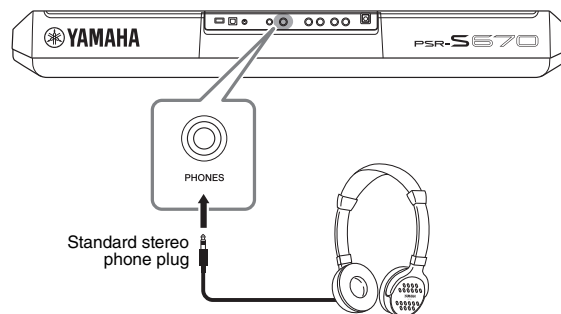
Adjusting the Contrast of the Display

You can adjust the contrast of the display by turning the [LCD CONTRAST] knob on the rear panel.



Using the Headphones

Connect a pair of headphones to the [PHONES] jack on the rear panel.



CAUTION

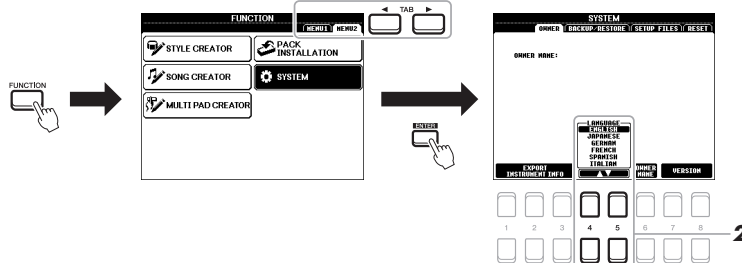
Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.

Changing the Display Language

This determines the language (English, Japanese, German, French, Spanish and Italian are available) used in the display for messages.

1 Call up the operation display.

[FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶]
SYSTEM → [ENTER] → TAB [◀] OWNER



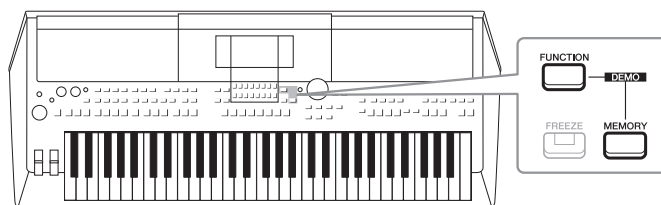
2 Use the [4 ▲▼]/[5 ▲▼] buttons to select and change the desired language.

Press the [EXIT] button several times to return to the Main display.

Playing the Demos

The Demos provide helpful, easy-to-understand introductions to the features and functions as well as dynamic demonstrations of the high-quality sounds.

1 Press the [FUNCTION] and [MEMORY] buttons simultaneously to call up the Demo display.



2 Use the Cursor buttons [▲][▼] to select a specific Demo, then press the [ENTER] button.

Use the Cursor button [▶] to select "OVERVIEW", then press the [ENTER] button to play back the overview Demo continuously, calling up the various displays in sequence.

The sub menus are shown on the display. Use the Cursor buttons [▲][▼] to select the desired sub menu, then press the [ENTER] button.

3 Press the [EXIT] button several times to exit from the Demo display.

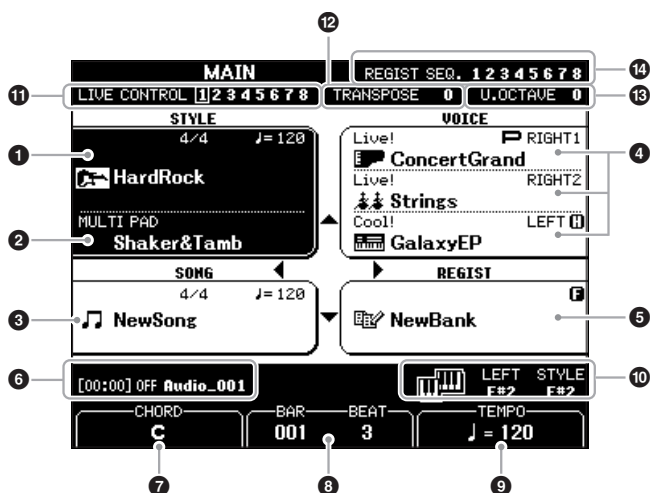
NOTE

To return to the higher level menu, press the [EXIT] button.

Basic Operations

Main Display Configuration

The display that appears when the power is turned on is the Main display. This 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.



NOTE

You can quickly call up the Main display by pressing the [DIRECT ACCESS] button, followed by the [EXIT] button.

1 Style name and related information

Displays the currently selected Style name, time signature and tempo (page 45).

2 Multi Pad Bank name

Displays the names of the selected Multi Pad Bank (page 74).

3 Song name and related information

Displays the currently selected Song name, time signature and tempo.

4 Voice name

Displays the Voice names currently selected for the RIGHT 1, RIGHT 2 and LEFT parts (page 34), and a “P” indication appears to the left of the part when currently selected by pressing the PART SELECT button.

5 Registration Memory Bank name

Displays the currently selected Registration Memory Bank name and Registration Memory number (page 84).

6 Audio file information

Displays information for the selected audio file in the connected USB flash drive (page 69), including the elapsed playback time, file name and Repeat mode icon. When the recording of Audio is in standby, a “WAITING” indication appears. While recording, “RECORDING” appears.

NOTE

When the Left Hold function (page 35) is on, an “H” indication appears to the right of the part name.

NOTE

When the Freeze function (page 85) is on, an “F” indication appears at the upper right corner.

7 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.

8 BAR/BEAT

Displays the current position (bar/beat) in Style playback or Song playback.

9 TEMPO

Displays the current tempo in Style playback or Song playback.

10 Split Point

Displays the Split Point positions (page 55).

11 LIVE CONTROL knob information

Indicates the currently selected number of the eight available LIVE CONTROL knob assignments (page 38).

12 Transpose

Displays the amount of transposition in semitone units (page 36).

13 Upper Octave

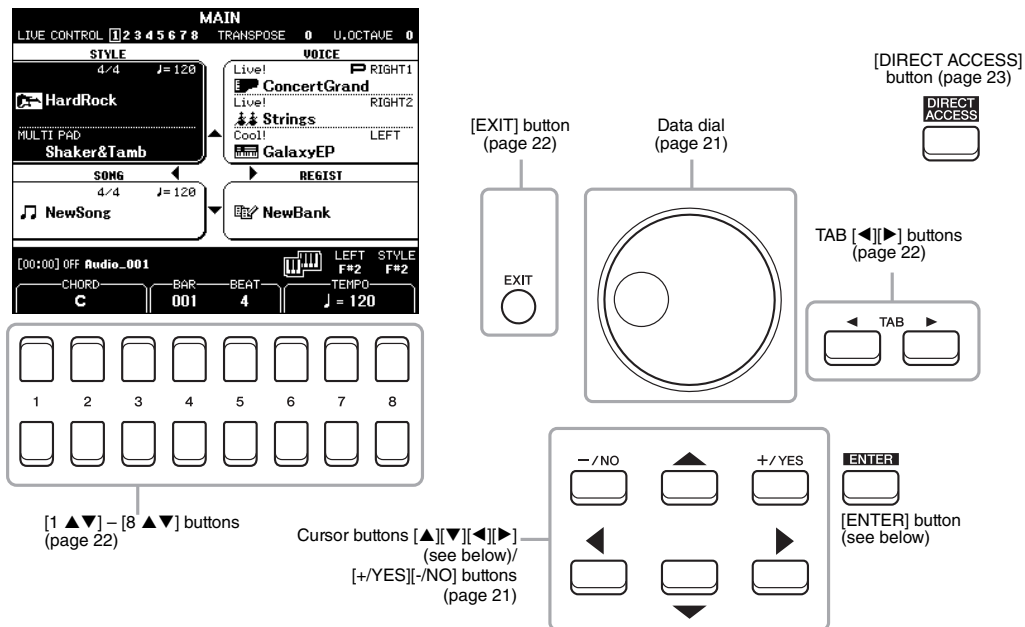
Displays the amount that the octave value is shifted (page 36).

14 Registration Sequence

Appears when the Registration Sequence is active. For instructions on programming the sequence, refer to the Reference Manual on the website, Chapter 7.

Display-based Controls

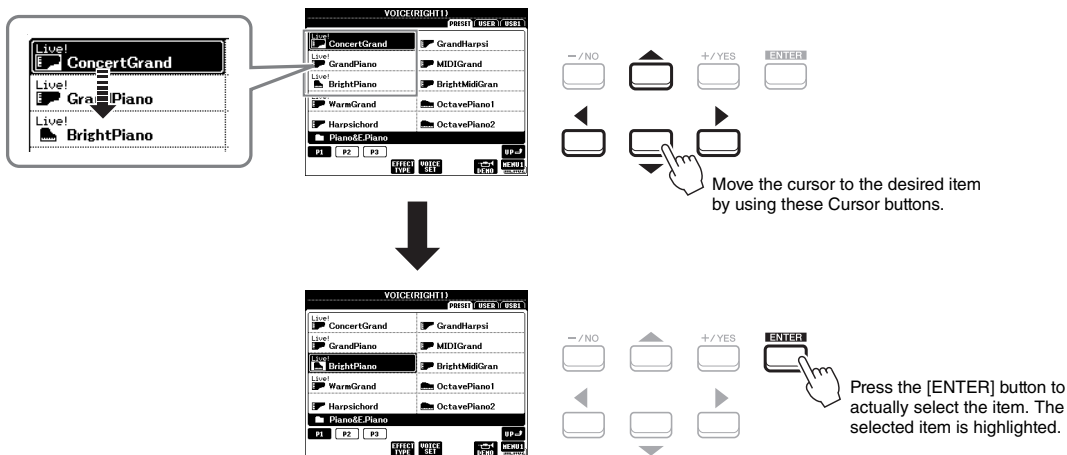
The LCD provides comprehensive at-a-glance information on all current settings. The displayed menu can be selected or changed by the controls around the LCD.



Cursor buttons [▲][▼][◀][▶]

These buttons are used to move the on-screen cursor.

In the File Selection display (page 24), these buttons are used to move the cursor up, down, left, and right to the desired item. To actually select the item, press the [ENTER] button.

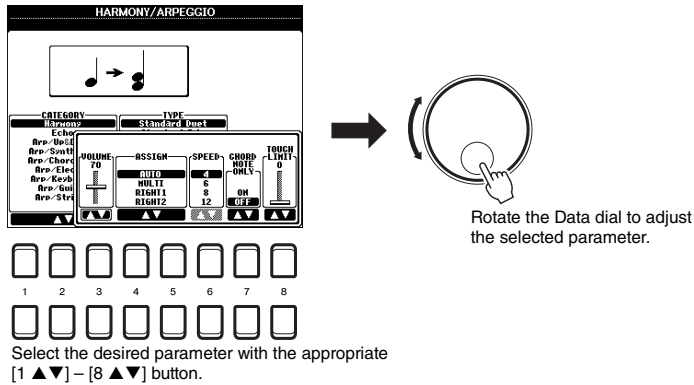


Data dial

Depending on the selected display, the Data dial can be used in the following two ways.

• Adjusting parameter values

You can conveniently use the Data dial in tandem with the [1 ▲▼] – [8 ▲▼] buttons to adjust parameters indicated in the display.



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 dial to set the value.

• Selecting files (Voice, Style, Song, and so on)

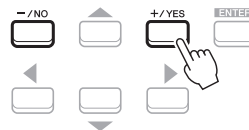
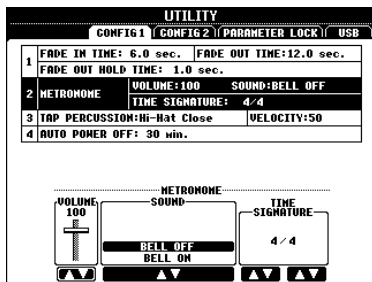
The operation by using the Data dial is almost same as that of the Cursor buttons. After calling up the File Selection displays, rotate the Data dial to move the cursor, then press the [ENTER] button to actually select the file.

In most procedures when selecting the file or item described throughout this Owner's manual, the Cursor buttons [▲][▼][◀][▶] are recommended for simple selection, though other methods may also be used.

[+ / YES] [- / NO] buttons

These buttons are used to adjust the value or select "YES" or "NO" in the message shown in the display, etc.

To reset the desired value to its default, press these buttons simultaneously.



For the value of the selected item, use these buttons to adjust it.

NOTE

You can also use these to select Voices, Styles, etc. without pressing the [ENTER] button. This is convenient when you want to temporarily check the sound of some Voices or Styles.

TAB [◀][▶] buttons

These buttons are used mainly to change the pages of displays that have “tabs” at the top.



[EXIT] button

Pressing the [EXIT] button returns to the previously indicated display.
Pressing the [EXIT] button several times returns to the default Main display (page 18).



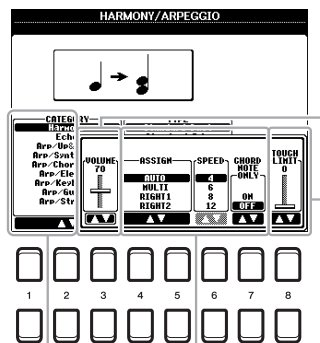
[1 ▲▼] – [8 ▲▼] buttons

The [1 ▲▼] – [8 ▲▼] buttons are used to make selections or adjust settings (up or down correspondingly) for functions shown directly above them. The buttons above the numbers 1 – 8 are described as [▲] and those below the numbers are described as [▼] throughout this Owner’s manual.



For menus that appear in this section of the display, use the [1 ▲] – [8 ▲] buttons.

For menus that appear in this section of the display, use the [1 ▼] – [8 ▼] buttons.



For list menus that appear, use the [1 ▲▼] – [8 ▲▼] buttons to select the desired item.

For parameters that appear in slider (or knob) form, use the [1 ▲▼] – [8 ▲▼] buttons to adjust the value.
To reset the desired parameter value to its default, simultaneously press both the [▲] and [▼] buttons below it.

Calling Up the Desired Display Instantly — Direct Access

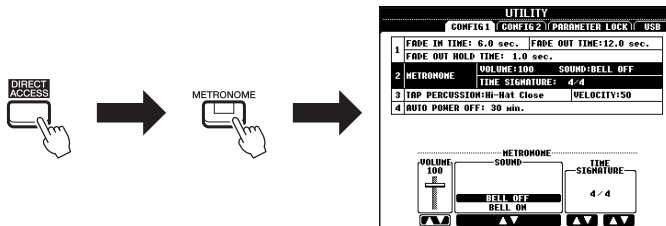
With the convenient Direct Access function, you can instantly call up the desired display — with just a single additional button press. Refer to the “Direct Access Chart” on page 96 for a list of the displays that can be called up with the Direct Access function.

1 Press the [DIRECT ACCESS] button.

A message appears in the display prompting you to press the appropriate button.

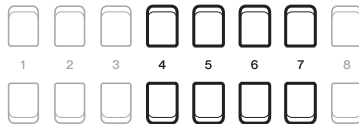
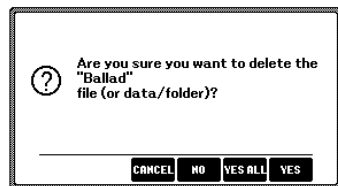
2 Press the button (or move the knob, wheel or connected pedal) corresponding to the desired setting display to instantly call up that display.

For example, pressing the [METRONOME] button calls up the display in which the time signature, volume and sound of the metronome can be set.



Messages Shown in the Display

A message (information or confirmation dialog) sometimes appears on the screen to facilitate operation. When the message appears, press the [+ / YES] or [- / NO] button or one of the [1 ▲ ▼] – [8 ▲ ▼] buttons corresponding to the message.



File Selection Display Configuration

The File Selection display is for selecting Voice, Styles, and other data.

■ Calling up the File Selection display

The File Selection displays for Voice, Style or Song, etc. can be called up on the Main display. In general, use the Cursor buttons [▲][▼][◀][▶] to select the desired item, then press the [ENTER] button. Otherwise, the displays can be called up in the following ways.

• Voice or Style File Selection display

Press one of the VOICE or STYLE category selection buttons to call up the display.

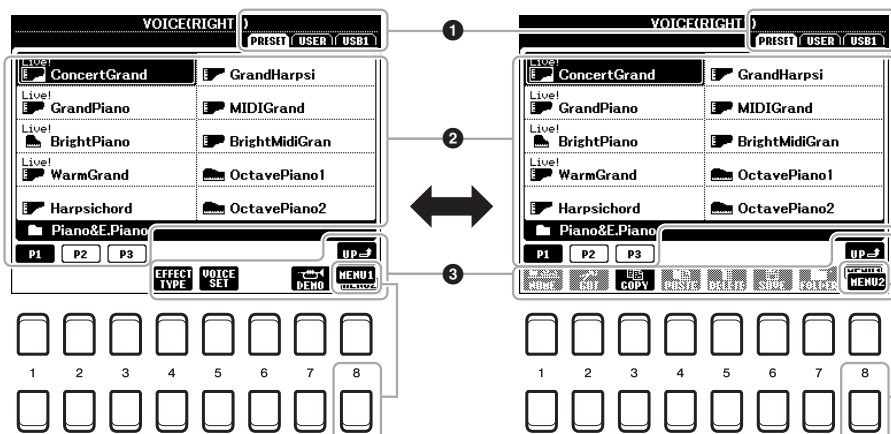
• Song File Selection display

Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU at the bottom of the display. Then, press one of the [1 ▲▼] (SELECT) buttons to call up the display.

NOTE

The Song file selection display can be called up by pressing the [DIRECT ACCESS] button, followed by the [SONG FUNCTION] button.

■ File Selection display configuration



1 Location (drive) of data

- **PRESET**Location where pre-programmed (preset) data is stored.
- **USER**Location where recorded or edited data is saved. Installed Expansion Voices or Styles are also saved here in the Expansion folder.
- **USB**Location where data on USB flash drive is saved. This appears only when a USB flash drive is connected to the [USB TO DEVICE] terminal.

NOTE

Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.

NOTE

By pressing the [USB] button, you can also access Voices, Styles, and other data files which are saved in the USB flash drive (page 92).

2 Selectable data (files)

The files that can be selected on this display are shown. If more than 10 files exist, pressing the [1 ▲] or [2 ▲] button etc. corresponding to the page numbers (P1, P2...) below the files changes the display page. When other pages follow, the "NEXT" button appears, and for the previous page, the "PREV" button appears.

NOTE

The data, both pre-programmed and your own original, are saved as "files."

3 MENU 1/MENU 2

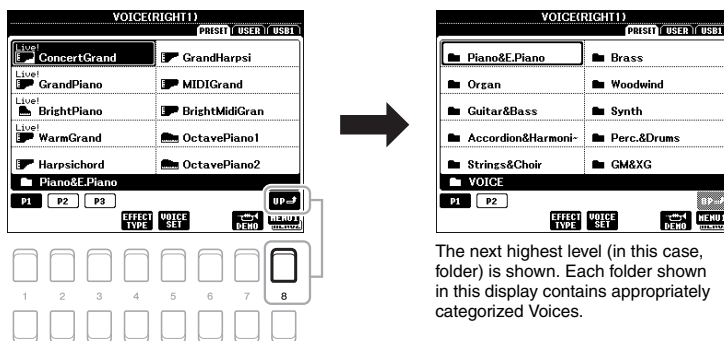
At the bottom of the File Selection display, you can toggle the indication between MENU 1 and MENU 2 by pressing the [8 ▼] button. Selecting MENU 1 shows the function names related to the current file (Voice, Style, Song, etc.) while selecting MENU 2 shows the function names of the file/folder management (page 25).

Calling up the higher level folder

When the files of a folder are displayed, “UP” is shown above the [8 ▲] button.

Example of the PRESET Voice Selection display

The PRESET Voices are categorized and contained in appropriate folders.



This display shows the Voices in a folder. Pressing [8 ▲] (UP) button calls up the next higher level folder.

The next highest level (in this case, folder) is shown. Each folder shown in this display contains appropriately categorized Voices.

File Management

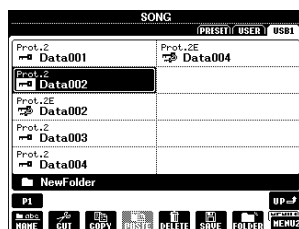
You can save, name, copy, move, delete files, and you can create folders to manage the files with the buttons located lower area in the File Selection display. For information on the File Selection display, refer to page 24.

NOTE

Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 91.

Restrictions for protected Songs

Preset Songs and most commercially available songs are copy protected to prevent illegal copying or accidental erasure. They are marked by the indications at the upper left side of the file names. The indications and relevant restrictions are detailed below.



- **Prot. 1:** Indicates Preset Songs copied to the USER drive. These only can be copied/moved/deleted in the USER drive.
- **Prot. 2:** Indicates Yamaha-protection-formatted Songs. These cannot be copied. These can be moved/saved only to the USER drive and USB flash drives with ID.
- **Prot. 2E:** Indicates edited “Prot. 2” Song. These cannot be copied. These can be moved/saved only to the USER drive and USB flash drives with ID.

NOTE

- Make sure that the “Prot. 2” Song and the corresponding “Prot. 2E” Song reside in the same folder. Otherwise, the “Prot. 2E” Song cannot be played back. If you move this type of Song, make sure to move both the “Prot. 2” and “Prot. 2E” Songs to the same folder.
- Never change the “Prot. 2” Song name and icon on the display. Otherwise, the corresponding “Prot. 2E” Song cannot be played back.

Saving a File

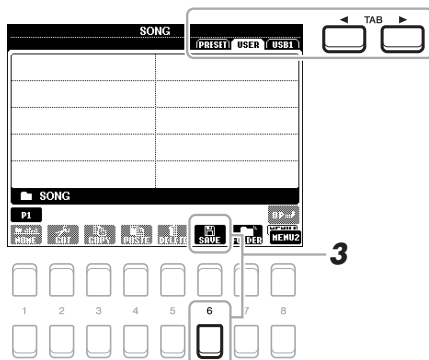
You can save your original data (such as Songs you've recorded) as a file to USER or the USB drive in the File Selection display (page 24).

- 1 In the File Selection display, select the appropriate tab (USER or USB) to which you want to save the data by using the TAB [◀][▶] buttons.**

If you want to save the data within an existing folder, also select the folder here.

NOTE

Files cannot be saved to the PRESET tab or the "Expansion" folder (page 44) in the USER tab.

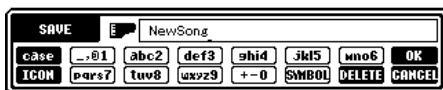


- 2 Make sure that MENU 2 is shown at the bottom right corner of the display.**

If MENU 1 is shown on the display, press the [8 ▼] button to call up MENU 2. (Press the [8 ▼] button to toggle between the two.)

- 3 Press the [6 ▼] (SAVE) button.**

The Character Entry window is called up.



- 4 Enter the file name (page 30).**

Even if you skip this step, you can rename the file at any time after saving it (page 28).

- 5 Press the [8 ▲] (OK) button to actually save the file.**

If the file name already exists, a message appears asking you if you want to overwrite or not. If not, press one of the [6 ▲▼] (NO) buttons and enter another name.

The saved file will be automatically located at the appropriate position among the files in alphabetical order.

NOTE

To cancel the Save operation, press the [8 ▼] (CANCEL) button before step 5 below.

NOTE

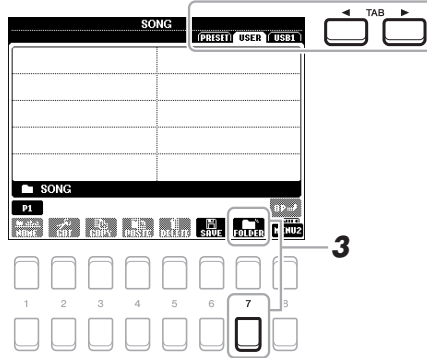
In the USER tab, the maximum total number of files which can be stored differs depending on the file size and the length of the file names.

Creating a New Folder

You can create folders to make it easier to find your original data.

- 1 In the File Selection display, select the appropriate tab (USER or USB) to which you want to create a new folder by using the TAB [◀][▶] buttons.**

If you want to create a new folder within an existing folder, also select the folder here.

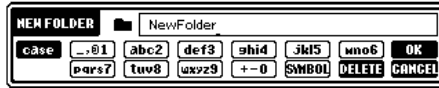


- 2 Make sure that MENU 2 is shown at the bottom right corner of the display.**

If MENU 1 is shown on the display, press the [8 ▼] button to call up MENU 2. (Press the [8 ▼] button to toggle between the two.)

- 3 Press the [7 ▼] (FOLDER) button.**

The Character Entry window is called up.



- 4 Enter the name of the new folder (page 30).**

If the folder name already exists, a message appears asking you if you want to overwrite or not. If not, press one of the [6 ▲▼] (NO) buttons and enter another name.

The created folder will be automatically located at the appropriate position among the folders in alphabetical order.

NOTE

A new folder cannot be made in the PRESET tab or the "Expansion" folder (page 44) in the USER tab.

NOTE

The maximum number of files/folders which can be saved in a folder is 500.

NOTE

In the User tab, no more than three folder levels can be created. The maximum total number of files/folders which can be saved differs depending on the file size and the length of the file/folder names.

NOTE

To cancel creating a new folder, press the [8 ▼] (CANCEL) button.

NOTICE

Do not use "Expansion" for the folder name. Otherwise, all data contained in the "Expansion" folder will be lost when an Expansion Pack (page 44) is installed.

Renaming a File/Folder

You can rename files/folders.

1 In the File Selection display, select the appropriate tab (USER or USB) which contains the file/folder you want to rename by using the TAB [◀][▶] buttons.

NOTE

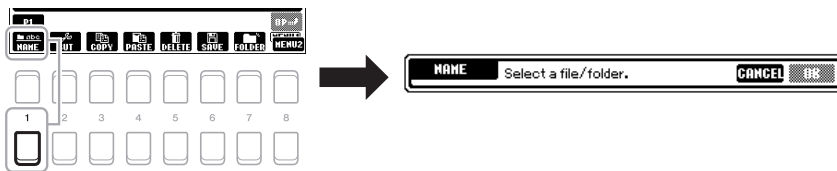
Files and folders in the PRESET tab or the "Expansion" folder (page 44) in the USER tab cannot be renamed.

2 Make sure that MENU 2 is shown at the bottom right corner of the display.

If MENU 1 is shown on the display, press the [8 ▼] button to call up MENU 2. (Press the [8 ▼] button to toggle between the two.)

3 Press the [1 ▼] (NAME) button.

The window for the Rename operation appears at the bottom of the display.



4 Move the cursor to the desired file/folder by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

NOTE

To cancel the Rename operation, press the [7 ▼] (CANCEL) button.

5 Press the [8 ▼] (OK) button to confirm the file/folder selection.

The Character Entry window is called up.

6 Enter the name of the selected file or folder (page 30).

If the file/folder name already exists, a message appears asking you if you want to overwrite or not. If not, press one of the [6 ▲▼] (NO) buttons and enter another name.

The renamed file/folder appears on the display at the appropriate position among the files in alphabetical order.

NOTICE

Do not use "Expansion" for the folder name. Otherwise, all data contained in the "Expansion" folder will be lost when an Expansion Pack (page 44) is installed.

Copying or Moving Files

You can copy or cut files and paste them to another location (folder). You can also copy folders (but not move them) by using the same procedure.

1 In the File Selection display, select the appropriate tab (PRESET, USER or USB) which contains the file/folder you want to copy by using the TAB [◀][▶] buttons.

NOTE

- Files in the PRESET tab cannot be moved. They can only be copied.
- Files in the "Expansion" folder (page 44) in the USER tab cannot be copied/moved.
- Commercially available song data may be copy protected to prevent illegal copying.

2 Make sure that MENU 2 is shown at the bottom right corner of the display.

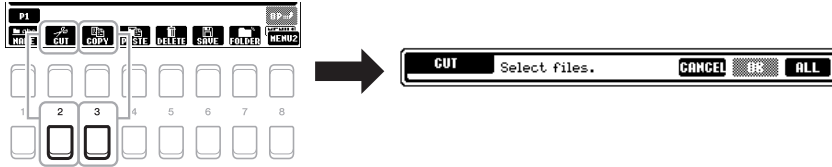
If MENU 1 is shown on the display, press the [8 ▼] button to call up MENU 2. (Press the [8 ▼] button to toggle between the two.)



NEXT PAGE

3 Press the [3 ▼] (COPY) button to copy or [2 ▼] (CUT) to move.

The window for the Copy/Cut operation appears at the bottom of the display.



4 Move the cursor to the desired file/folder by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

Pressing the [ENTER] button selects (highlights) the file/folder. To cancel the selection, press the [ENTER] button again.

Press the [8 ▼] (ALL) button to select all files/folders indicated on the current display including the other pages. To cancel the selection, press the [8 ▼] (ALL OFF) button again.

5 Press the [7 ▼] (OK) button to confirm the file/folder selection.

6 Select the destination tab (USER or USB) to paste the file/folder, by using the TAB [◀][▶] buttons.

If necessary, select the destination folder by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

7 Press the [4 ▼] (PASTE) button to paste the file/folder selected in step 4.

If the file/folder name already exists, a message appears asking you if you want to overwrite or not. If not, press one of the [6 ▲▼] (NO) buttons and enter another name.

The pasted file/folder appears on the display at the appropriate position among the files in alphabetical order.

NOTE

To cancel the Copy/Move operation, press the [6 ▼] (CANCEL) button.

Deleting Files/Folders

You can delete individual or multiple files/folders.

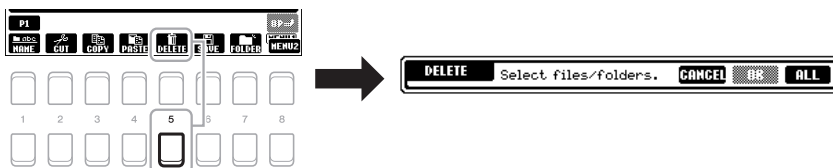
1 In the File Selection display, select the appropriate tab (USER or USB) which contains the file/folder you want to delete by using the TAB [◀][▶] buttons.

2 Make sure that MENU 2 is shown at the bottom right corner of the display.

If MENU 1 is shown on the display, press the [8 ▼] button to call up MENU 2. (Press the [8 ▼] button to toggle between the two.)

3 Press the [5 ▼] (DELETE) button.

The window for the Delete operation appears at the bottom of the display.



NOTE

Files and folders in the PRESET tab or the "Expansion" folder (page 44) in the USER tab cannot be deleted.

4 Move the cursor to the desired file/folder by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

Pressing the [ENTER] button selects (highlights) the file/folder. To cancel the selection, press the [ENTER] button again.

Press the [8 ▼] (ALL) button to select all files/folders indicated on the current display including the other pages. To cancel the selection, press the [8 ▼] (ALL OFF) button again.

5 Press the [7 ▼] (OK) button to confirm the file/folder selection.

6 Follow the on-display instructions.

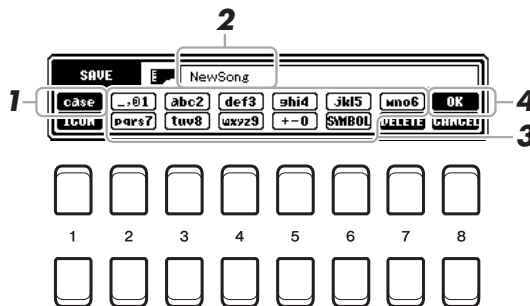
- **YES**Delete the file/folder
- **YES ALL**Delete all selected files/folders
- **NO**Leave the file/folder as is without deleting
- **CANCEL**Cancel the Delete operation

NOTE

To cancel the Delete operation, press the [6 ▼] (CANCEL) button.

Entering Characters

This section covers how to enter characters for naming your files/folders, inputting keywords on Music Finder (page 79), etc. Entering characters is done in the display shown below.



1 Change the type of character by pressing the [1 ▲] button.

- **CASE**Capital letters, numbers, marks
- **case**Lowercase letters, numbers, marks

2 Use the Data dial to move the cursor to the desired position.

3 Press the [2 ▲▼] – [6 ▲▼] and [7 ▲] buttons, corresponding to the character you wish to enter.

Several different characters are assigned to each button, and the characters change each time you press the button.

To actually enter the selected character, move the cursor or press another character-input button. Alternately, you can wait for a short time and the character will be entered automatically.

For more information on entering characters, refer to “Other character-entry operations” on the page 31.

4 Press the [8 ▲] (OK) button to actually enter the new name and return to the previous display.

NOTE

When inputting lyrics in the Song Creator function (see the Reference Manual, Chapter 3), you may also enter Japanese characters (kana and kanji).

NOTE

- The following marks cannot be entered for a file/folder name.
\\ : * ? " < > |
- File names can contain up to 41 characters and folder names can contain up to 50 characters.

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 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 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)

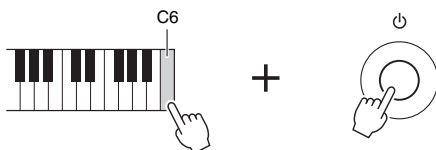
1. Press the [1 ▼] (ICON) button to call up the ICON SELECT display.
2. Select the icon by using the Cursor buttons [▲][▼][◀][▶] or Data dial. The display includes several pages. Press the TAB [◀][▶] buttons to select different pages.
3. Press the [8 ▲] (OK) button to apply the selected icon.

NOTE

To cancel the operation, press the [8 ▼] (CANCEL) button.

Resetting to the Factory-programmed Settings

While holding the right-most key (C6) on the keyboard, turn the power on. This resets the settings of the entire instrument (referred to as the System Setup parameters) to their factory default settings. Refer to the “Parameter Chart” in the Data List on the website for details about which parameters belong to System Setup.



NOTE

The recorded Songs (page 66), Expansion Packs (page 44), and other files saved to this instrument are not reset by this operation.

You can also reset specified settings to the factory default value or delete all files/folders in the USER drive. Call up the operation display: [FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶] SYSTEM → [ENTER] → TAB [◀][▶] RESET. For details, refer to the Reference Manual on the website, Chapter 10.

Data Backup

You can back up all data saved in the USER drive (except Protected Songs and Expansion Voices/Styles) and all settings of the instrument to a USB flash drive as a single file.

1. **Connect a USB flash drive to the [USB TO DEVICE] terminal for the backup destination.**

NOTE

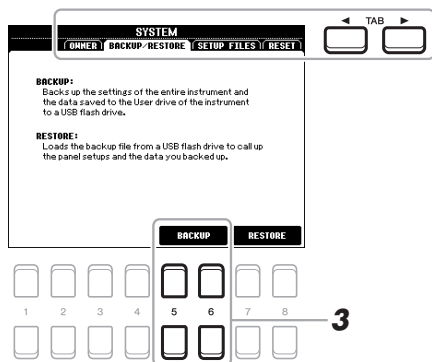
Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 91.

NOTE

You can also back up files in the USER drive such as Voice, Song, Style, Multi Pad and Registration Memory by copying them individually to a USB flash drive as desired. For instructions, refer to page 28.

2 Call up the operation display.

[FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶]
SYSTEM → [ENTER] → TAB [◀][▶] BACKUP/RESTORE



3 Use the [5 ▲▼]/[8 ▲▼] (BACKUP) buttons to save the data to the USB flash drive.

When confirmation messages appear, follow the on-display instructions.

NOTE

You can also back up System settings, MIDI settings, User Effect settings, and Music Finder Records individually as desired. Call up the operation display: [FUNCTION] → MENU 2 → SYSTEM → SETUP FILES. For more information, refer to the Reference Manual on the website, Chapter 10.

NOTE

Completing the backup/restore operation may take a few minutes.

Restoring the Backup File

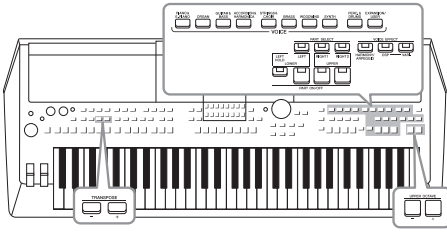
To do this, press the [7 ▲▼]/[8 ▲▼] (RESTORE) buttons in the BACKUP/RESTORE page (see above). When confirmation messages appear, follow the on-display instructions. When the operation is completed, the instrument will be restarted automatically.

NOTICE

Move the Protected Songs (saved to the USER drive) to USB flash drive before restoring. If the Songs are not moved, the operation deletes the data.

Voices

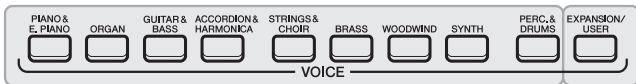
– Playing the keyboard –



The instrument features a wide variety of exceptionally realistic instrumental Voices, including piano, guitar, strings, brass, wind instruments and more.

Playing Voices

- 1 Press one of the VOICE category selection buttons to select a Voice category and call up the Voice Selection display.



Preset Voices

- **Expansion Voices**

Voices additionally installed (page 44).

- **User Voices**

Voices created with the Voice Set function (refer to the Reference Manual on the website), or Voices copied to the USER drive (page 28).

NOTE

For a list of preset Voices of this instrument, refer to the "Voice List" in the Data List on the website.

The preset Voices are categorized and contained in appropriate folders. Voice category selection buttons correspond to the categories of the preset Voices. For example, press the [ORGAN] button to display various organ Voices.

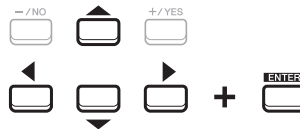
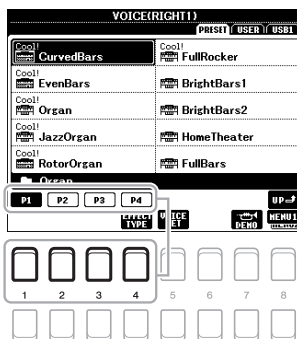
- 2 Move the cursor to the desired Voice by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

You can call up the other pages by pressing the buttons ([1 ▲] – [7 ▲]) that correspond to the page numbers (P1, P2 ...) or pressing the same VOICE category selection button repeatedly.

Pressing the [8 ▲] (UP) button calls up other VOICE categories (folders), including "GM&XG" and "GM2," which do not have any VOICE category selection buttons.

NOTE

The Voice characteristics are indicated above the Preset Voice name. For details on the characteristics, see page 35.



To listen to the demo phrases for each Voice

Press the [7 ▼] (DEMO) button to start the Demo for the selected Voice. To stop the demo, press the [7 ▼] button again.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

3 Play the keyboard.

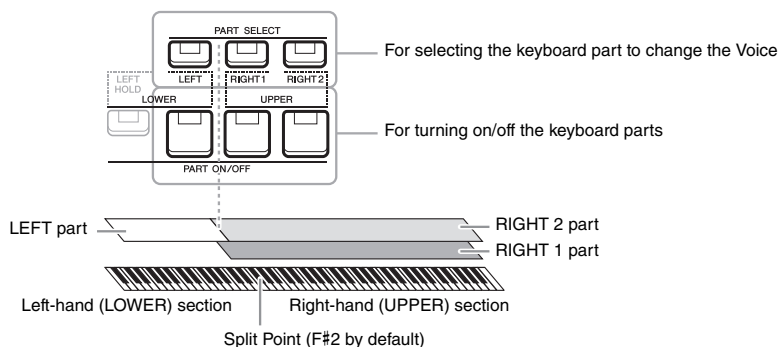


NOTE

The Voice name for each part can be confirmed on the Main display (page 18).

Selecting Voices for the Parts

The Voices can be played via three keyboard parts: LEFT, RIGHT 1 and 2. You can combine these parts by using the PART ON/OFF buttons to create luscious instrument textures and convenient performance combinations.



• To play one single Voice on the entire keyboard:

Turn on the RIGHT 1 or 2 part.

• To play two different Voices in layer on the entire keyboard (Layer):

Turn on the RIGHT 1 and 2 parts.

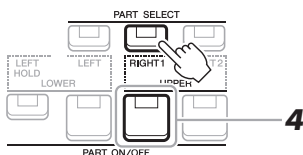
• To play different Voices in the right- and left-hand sections of the keyboard (Split):

Turn on the LEFT and RIGHT (1 and/or 2) parts. The F#2 and lower keys are used for the LEFT part while the upper keys (excluding F#2) are used for the RIGHT 1 and 2 parts. The key which divides the keyboard into the left-hand and right-hand sections is referred to as the “Split Point.”

NOTE

The Split Point can be changed (page 55).

1 Turn on the PART SELECT button corresponding to the part you want to use.



2 Select the Voice for the selected part.

For instructions on selecting Voices, refer to page 33.

3 If necessary, repeat steps 1 and 2 on page 33 to select the Voice for the other part.

4 Turn on the PART ON/OFF button corresponding to the part(s) you want to use.

5 Play the keyboard.

NOTE

You can save the Voice selection and on/off setting for each part to Registration Memory (page 83).

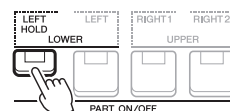
NOTE

The Voice name for each part can be confirmed on the Main display (page 18).

Holding the LEFT part Voice (Left Hold)

By turning on the PART ON/OFF [LEFT HOLD] button when the LEFT part is ON, the LEFT part Voice is held even when the keys are released. Non-decaying 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).

This function is convenient when used along with Style playback since the sound of the chord matching Style playback is maintained. To stop the LEFT part Voice which is sounding, stop Style or Song playback, or turn the [LEFT HOLD] off.



Using the Metronome

You can start or stop the metronome by pressing the [METRONOME] button. Metronome tempo can be adjusted by the same procedure as with Style tempo (page 48).

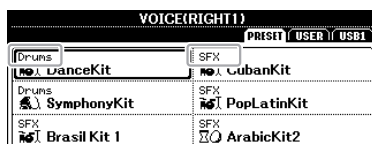
NOTE

You can also change the time signature, volume and sound of the metronome: [FUNCTION] → MENU 1 → UTILITY → [ENTER] → CONFIG 1 → 2 METRONOME



Voice Characteristics

There are six different special Voice categories, or Voice characteristics, which are indicated above the Voice name: Live!, Cool!, Sweet!, Mega Voice, Drums and SFX.



• Live! Voices

These acoustic instrument sounds were sampled in stereo, to produce a truly authentic, rich sound — full of atmosphere and ambience.

• Drums/SFX Voices (called up via the [PERC.&DRUMS] button)

These let you play various drums and percussion instruments or SFX (sound effects) sounds on the keyboard (Drum/SFX Kit). Details are given in the “Drum/SFX Kit List” of the Data List on the website.

For information about other Voice types, refer to the Reference Manual on the website.

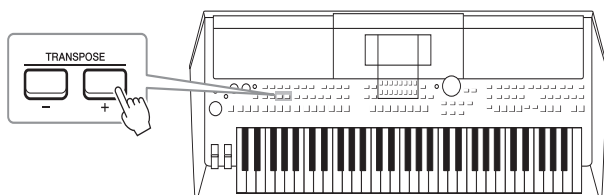
Changing the Pitch of the Keyboard

Adjusting the Pitch in Semitones (Transpose)

The TRANSPOSE [-]/[+] buttons transpose the overall pitch of the instrument (the keyboard sound, Style playback, Song playback, and so on) between -12 and 12 in semitone steps. To instantly reset the transpose value to 0, press the [+] and [-] buttons simultaneously.

NOTE

The Transpose functions do not affect the Drum Kit or SFX Kit Voices.

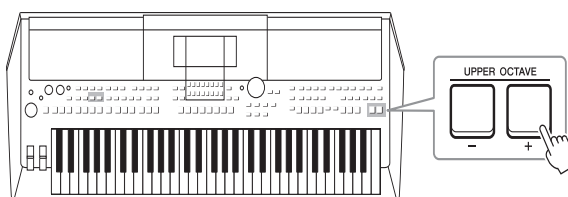


Transposing the pitch in the MIXING CONSOLE display

You can also make detailed pitch settings (transpose, octave and tune) in the MIXING CONSOLE display called up via [MIXER] → TAB [◀][▶] TUNE.

Adjusting the Pitch in Octaves

The UPPER OCTAVE [-]/[+] buttons allow you to shift the pitch of the RIGHT 1 and 2 parts up or down by one octave (-1 – 0 – 1).



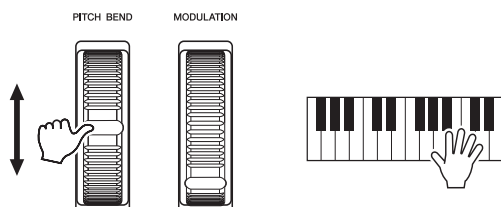
Fine tuning the Pitch

By default, the pitch of the entire instrument is set to 440.0 Hz according to equal temperament. This basic tuning can be changed in the display called up via [FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] MASTER TUNE/SCALE TUNE → [ENTER]. The pitch can be shifted up or down between 414.8Hz and 466.8Hz in approximately 0.2 Hz increments. For details, refer to the Reference Manual on the website.

Using the Wheels

Using the Pitch Bend Wheel

Use the [PITCH BEND] wheel to bend notes up (roll the wheel away from you) or down (roll the wheel toward you) while playing the keyboard. The Pitch Bend is applied to all the keyboard parts (RIGHT 1, 2 and LEFT). The [PITCH BEND] wheel is self-centering and will automatically return to normal pitch when released.



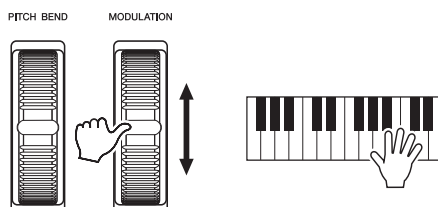
The maximum pitch bend range can be changed on the Mixing Console display: [MIXER] → TAB [◀][▶] TUNE → Cursor buttons [▲][▼][◀][▶] PITCH BEND RANGE.

NOTE

The effects produced by using the [PITCH BEND] wheel may not be applied to the LEFT part during Style playback, depending on the Style setting.

Using the Modulation Wheel

The Modulation function applies a vibrato effect to notes played on the keyboard. By default, this is applied to the keyboard parts (RIGHT 1, 2 and LEFT). Moving the [MODULATION] wheel up (away from you) increases the depth of the effect, while moving it down (toward you) decreases it.



You can set whether the effects caused by the [MODULATION] wheel will be applied or not to each of the keyboard part: [FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] CONTROLLER → [ENTER] → TAB [▶] KEYBOARD/PANEL → Cursor buttons [▲][▼] 2 MODULATION WHEEL.

NOTE

Depending on the selected Voice, the [MODULATION] wheel may control volume, filter or some other parameter instead of vibrato.

NOTE

To avoid accidentally applying modulation, make sure the [MODULATION] wheel is set at minimum (down) position before you start playing.

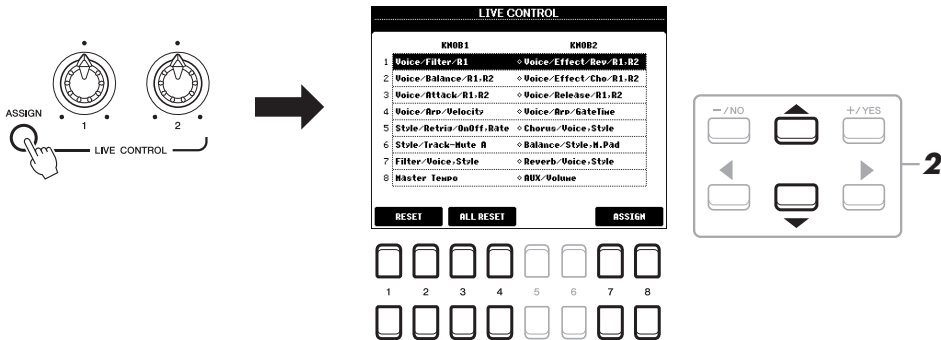
NOTE

The effects produced by using the [MODULATION] wheel may not be applied to the LEFT part during Style playback depending on the Style setting.

Using the LIVE CONTROL Knobs

You can add dynamic variations to your performance intuitively in real time by assigning various functions to the LIVE CONTROL [1] and [2] knobs.

1 Press the [ASSIGN] button to call up the LIVE CONTROL display.



2 Use the Cursor buttons [▲][▼] to select the desired combination of functions.

The selected number is indicated at the upper left on the Main display (page 18).

NOTE

Pressing the [ASSIGN] button repeatedly also lets you select a combination of functions to be controlled.

	Knob 1	Knob 2
1	Voice/Filter/R1,R2 Adjusts the cutoff frequency of the filter and the resonance for the RIGHT 1 and 2 parts to change the timbre or tone of the sound.	Voice/Effect/Rev/R1,R2 Adjusts the Reverb depth for the RIGHT 1 and 2 parts. Rotating the knob to the right makes it deeper.
2	Voice/Balance/R1,R2 Adjusts the volume balance between the RIGHT 1 and 2 parts. Rotating the knob to the left increases the RIGHT 1 volume, while rotating it to the right increases the RIGHT 2 volume.	Voice/Effect/Cho/R1,R2 Adjusts the Chorus depth for the RIGHT 1 and 2 parts. Rotating the knob to the right makes it deeper.
3	Voice/Attack/R1,R2 Adjusts the length of time until the RIGHT 1 and 2 parts reach their maximum level after the key is played. Rotating the knob to the right, it increases.	Voice/Release/R1,R2 Adjusts the length of time until the RIGHT 1 and 2 parts decay to silence after the key is released. Rotating the knob to the right increases it.
4	Voice/Arp/Velocity Adjusts the volume of Arpeggio. Rotating the knob to the right, it increases. For instructions on how to use the Arpeggio function, refer to page 42.	Voice/Arp/GateTime Adjusts the length of each note of Arpeggio. Rotating the knob to the right increases it.
5	Style/Retrig/OnOff,Rate Turns the Style Retrigger function on/off and adjusts its length. Style Retrigger repeats a specific length of the first part of the current Style (page 45). Rotate the knob to the left-most to turn the function off, and rotate it to the right to turn it on and decrease the length.	Chorus/Voice,Style Adjusts the Chorus depth for all keyboard parts and the Style. Rotating the knob to the right makes it deeper.

	Knob 1	Knob 2
6	Style/Track-Mute A Turns on/off playback of the Style channels. Rotating the knob to the left-most position turns on only the Rhythm 2 channel, and the other channels are turned off. By rotating the knob clockwise from that position, channels are turned on in the order of Rhythm 1, Bass, Chord 1, Chord 2, Pad, Phrase 1, Phrase 2, and all channels are turned on when the knob reaches to the right-most position. Turning on/off the channels lets you easily change the rhythmic feel. For details on the Style channels, refer to page 53.	Balance/Style,M.Pad Adjusts the volume balance between the Style and Multi Pad (page 54) playback. Rotating the knob to the left increases the Style volume, while rotating it to the right increases the Multi Pad volume.
7	Filter/Voice,Style Adjusts the cutoff frequency of the filter and the resonance for all keyboard parts and the Style to change the timbre or tone of the sound.	Reverb/Voice,Style Adjusts the Reverb depth for all keyboard parts and the Style. Rotating the knob to the right makes it deeper.
8	Master Tempo Changes the tempo of the currently selected Style or Song. Setting range is from 50% of the default tempo value to 150%. Rotating the knob to the left makes the tempo slower, while rotating the knob to the right makes it faster.	AUX/Volume Controls the input volume from the [AUX IN] jack to adjust the volume balance with the other parts. Rotating the knob to the right increases it.

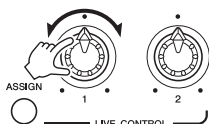
The eight function combinations can be edited on the PARAMETER ASSIGN display called up by using the [7 ▲▼]/[8 ▲▼] (ASSIGN) buttons. For instructions, refer to the Reference Manual on the website.

NOTE

The Style Retrigger function is applied only to the Main section of the Style.

3 Press the [EXIT] button to close the LIVE CONTROL display.

4 Rotate the LIVE CONTROL knobs to control the sound while playing the keyboard, or playing back the Style, etc.

**NOTE**

Depending on the panel settings or how you move the knob, you may not notice any change to the parameter value or the knob may not work properly, even if you rotate it.

NOTE

Using the [1 ▲▼]/[2 ▲▼] (RESET) button resets the selected function's parameter value to the default, while using the [3 ▲▼]/[4 ▲▼] (ALL RESET) button resets all assignable function's parameter value.

Applying Voice Effects

You can apply various effects to enhance or change the sound of the keyboard parts (LEFT, RIGHT 1 and 2). The effects can be turned on or off by using the following buttons.



These effects only apply to the selected part (the PART SELECT button is on).

• HARMONY/ARPEGGIO

The Harmony or Arpeggio is applied to the right-hand Voices. Refer to “Applying Harmony/Echo to Your Right-hand Melody” (see below) or “Triggering Arpeggios with Your Right Hand” (page 42).

• DSP/DSP VARI.

With the digital effects built into the instrument, you can add ambience and depth to your music in a variety of ways — such as adding reverb that makes you sound like you are playing in a concert hall.

[DSP] button: This is used to turn the DSP (Digital Signal Processor) effect on or off for the currently selected keyboard part.

[DSP VARI.] button: This is used to switch between variations of the DSP effect. For example, this could be used to change the rotating speed (slow/fast) of the rotary speaker effect while you play.

NOTE

The effect type can be changed. On the Voice Selection display, select [5 ▼] (VOICE SET) → EFFECT/EQ → 2 DSP. For details, refer to the Reference Manual on the website.

Applying Harmony/Echo to Your Right-hand Melody

Performance effects such as harmony (duet, trio, etc.), echo, tremolo and trill can be applied to notes played.

1 Turn the [HARMONY/ARPEGGIO] button on.

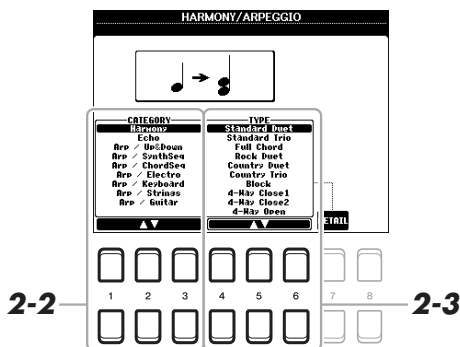
2 Select the desired Harmony or Echo type.

2-1 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶]
HARMONY/ARPEGGIO → [ENTER]

2-2 Use the [1 ▲▼] – [3 ▲▼] buttons to select “Harmony” or “Echo.”

2-3 Use the [4 ▲▼] – [6 ▲▼] buttons to select the desired type.



NOTE

When you select another Voice, the Harmony/Echo/Arpeggio type is automatically set to the default which is memorized as the Voice Set. For details on the Voice Set function, refer to the Reference Manual on the website.

NOTE

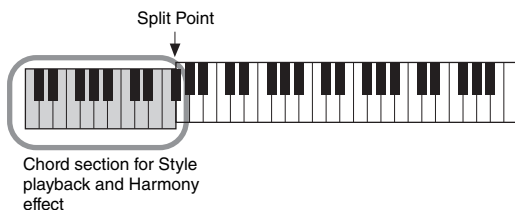
Press one of the [7 ▲▼] (DETAIL) button to call up the detail setting display. For information, refer to the Reference Manual on the website.

■ Harmony Category

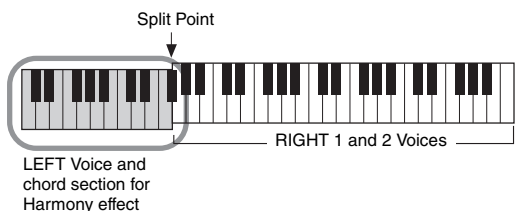
• Standard Duet — Strum

The Harmony effect is applied to the note played in the right-hand section of the keyboard according to the chord specified in the chord or left-hand section shown below.

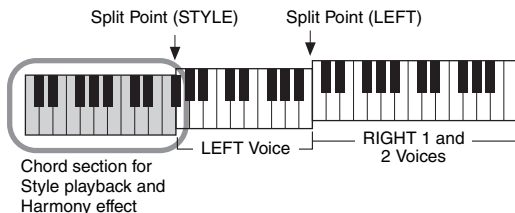
When [ACMP] button is on and the LEFT part is off:



When the [ACMP] button is off and the LEFT part is on:



When both the [ACMP] button and the LEFT part are on:



• Multi Assign

The Multi Assign effect automatically assigns notes played simultaneously on the right-hand section of the keyboard to separate parts (Voices). Both of the keyboard part [RIGHT 1] and [RIGHT 2] should be turned on when using the Multi Assign effect. The RIGHT 1 and RIGHT 2 Voices are alternately assigned to the notes in the order you play.

■ Echo Category (Echo, Tremolo, Trill)

The Echo, Tremolo or Trill effect is applied to the note played in the right-hand section of the keyboard in time with the currently set tempo, regardless of the [ACMP] and the LEFT part on/off status. Keep in mind that Trill works when you hold down two notes on the keyboard simultaneously (or the last two notes, if more than two notes are held), and it plays those notes alternately.

3 Play the keyboard.

The effect selected in step 2 is applied to the right-hand melody.

To turn off the effect, turn the [HARMONY/ARPEGGIO] button off.

NOTE

The "1+5" and "Octave" settings are not affected by the chord.

NOTE

For details on the Split Point, refer to page 55.

Triggering Arpeggios with Your Right Hand

The Arpeggio function lets you play arpeggios (broken chords) by simply pressing the notes of the chord. For example, you could play the notes C, E and G to trigger interesting phrases. This feature can be used for music production as well as performance.

1 Turn the [HARMONY/ARPEGGIO] button on.

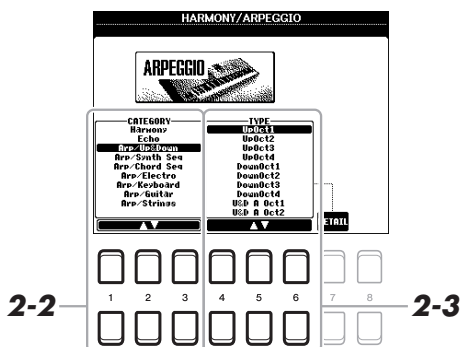
2 Select the desired Arpeggio type.

2-1 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶]
HARMONY/ARPEGGIO → [ENTER]

2-2 Use the [1 ▲▼] – [3 ▲▼] buttons to select a category other than “Harmony” and “Echo.”

2-3 Use the [4 ▲▼] – [6 ▲▼] buttons to select the desired type.



3 Play a note or notes to trigger the Arpeggio.

The arpeggiated phrase differs depending on the notes played.

To turn off the effect, turn the [HARMONY/ARPEGGIO] button off.

NOTE

When you select another Voice, the Harmony/Echo/Arpeggio type is automatically set to the default which is memorized as the Voice Set.

NOTE

You can set the Arpeggio volume and select the part for playing the Arpeggio in the display called up via one of the [7 ▲▼] (DETAIL) buttons. For information, refer to the Reference Manual on the website.

NOTE

By using the Arpeggio Quantize function, Arpeggio playback can be synchronized with Song/Style playback allowing any slight imperfections in the timing can be corrected. This can be set in the display: [FUNCTION] → MENU 1 → UTILITY → CONFIG 2.

NOTE

Arpeggio playback can be continued even after the note has been released, by assigning the Arpeggio Hold function to the foot switch. For details, refer to page 90.

NOTE

You can control the Arpeggio volume and the length of each note by using the LIVE CONTROL knobs. For instructions on how to assign the functions to the knobs, refer to page 38.

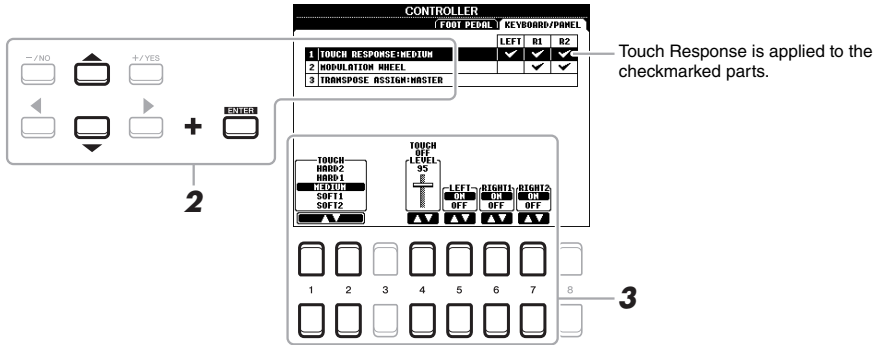
Setting the Touch Response of the Keyboard

Touch Response determines how the sound responds to your playing strength. The Touch Response type becomes the common setting for all Voices.

1 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] → CONTROLLER → [ENTER] → TAB [▶] KEYBOARD/PANEL

2 Use the Cursor button [▼] to select “1 TOUCH RESPONSE.”



3 Use the [1 ▲▼] – [7 ▲▼] buttons to set the Touch Response.

[1 ▲▼]/ [2 ▲▼]	TOUCH	Determines the Touch Response type. HARD 2: Requires strong playing to produce high volume. Best for players with a heavy touch. HARD 1: Requires moderately strong playing for higher volume. MEDIUM: Standard Touch Response. SOFT 1: Produces high volume with moderate playing strength. SOFT 2: Produces relatively high volume even with light playing strength. Best for players with a light touch.
[4 ▲▼]	TOUCH OFF LEVEL	Determines the fixed volume level when Touch is set to “OFF.”
[5 ▲▼] – [7 ▲▼]	LEFT – RIGHT2	Turns Touch on or off for each keyboard part.

NOTE

Some Voices are purposely designed without Touch Response, in order to emulate the true characteristics of the actual instrument (for example, conventional organs, which have no touch response).

Adding New Contents — Expansion Packs

By installing Expansion Packs, you can add a variety of optional Voices and Styles to the “Expansion” folder in the USER drive. The installed Voices and Styles can be selected via the [EXPANSION/USER] button in the VOICE or STYLE category selection buttons, allowing you to expand your music performance and creation possibilities. You can purchase high quality Expansion Pack data created by Yamaha, or create your own original Expansion Pack data by using the “Yamaha Expansion Manager” software on your computer. For instructions on how to install the Expansion Packs, refer to the Reference Manual on the website.

For more information about Expansion Packs, access the following website:

<http://www.yamaha.com/awk/>

To obtain the Yamaha Expansion Manager software and its manuals, access the Yamaha Downloads website:

<http://download.yamaha.com/>

Advanced Features

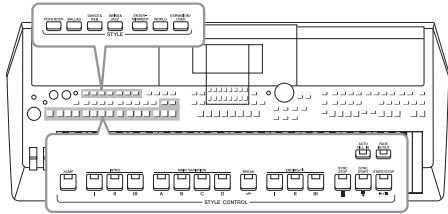
Refer to the Reference Manual on the website, **Chapter 1**.



Selecting GM/XG or other Voices:	Voice Selection display → [8 ▲] (UP)
Harmony/Arpeggio settings	[FUNCTION] → MENU 1 → HARMONY/ARPEGGIO
Pitch-related settings	
• Fine-tuning the pitch of the entire instrument:	[FUNCTION] → MENU 1 → MASTER TUNE/SCALE TUNE → [ENTER] → MASTER TUNE
• Scale Tuning:	[FUNCTION] → MENU 1 → MASTER TUNE/SCALE TUNE → [ENTER] → SCALE TUNE
• Changing the part assignment of the TRANSPOSE buttons:	[FUNCTION] → MENU 1 → CONTROLLER → [ENTER] → KEYBOARD/PANEL → 3 TRANSPOSE ASSIGN
Editing parameters assigned to the LIVE CONTROL knobs:	[ASSIGN] → [7 ▲▼]/[8 ▲▼] (ASSIGN)
Editing Voices (Voice Set):	Voice Selection display → [8 ▼] MENU 1 → [5 ▼] (VOICE SET)
Disabling automatic selection of Voice Sets (effects, etc.):	[FUNCTION] → MENU 1 → VOICE SETTING/VOICE EFFECT → [ENTER] → VOICE SET FILTER
Changing the detailed Voice setting:	[FUNCTION] → MENU 1 → VOICE SETTING → [ENTER] → VOICE CONTROL
Installing Expansion Pack data:	[FUNCTION] → MENU 2 → PACK INSTALLATION → [ENTER]

Styles

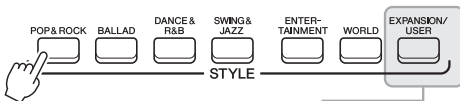
– Playing Rhythm and Accompaniment –



The instrument features various accompaniment and rhythmic backing patterns (called “Styles”) in a variety of different musical genres including pop, jazz, and many others. The Style features Auto Accompaniment, letting you produce automatic accompaniment playback simply by playing “chords” with your left hand. This lets you automatically recreate the sound of a full band or orchestra — even if you’re playing by yourself.

Playing a Style with the Auto Accompaniment

1 Press one of the **STYLE** category selection buttons to call up the Style Selection display.



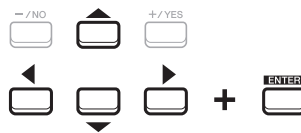
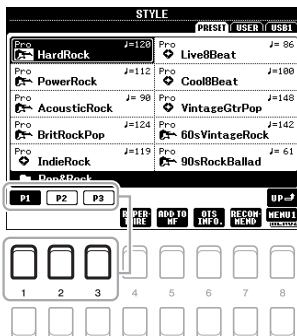
- **Expansion Styles**
Styles additionally installed (page 44).
- **User Styles**
Styles created with the Style Creator function (refer to the Reference Manual on the website), or Styles copied to the USER drive (page 28).

NOTE

For a list of preset Styles of this instrument, refer to the “Style List” in the Data List on the website.

2 Move the cursor to the desired Style by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

You can call up the other pages by pressing the buttons that correspond to the page numbers (P1, P2 ...) or by pressing the same STYLE category selection button several times.

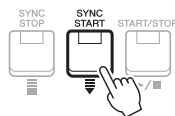


3 Press the [ACMP] button to turn on the Auto Accompaniment.



The specific left-hand section of the keyboard (page 55) becomes the chord section, and chords played in this section are automatically detected and used as a basis for fully automatic accompaniment with the selected Style.

4 Press the [SYNC START] button to enable synchronized start (page 47).

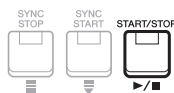


5 As soon as you play a chord with your left hand, the selected Style starts.

Try playing chords with your left hand and play a melody with your right hand.



6 Press the [START/STOP] button to stop Style playback.



NOTE

Although the chords will be detected according to the notes you play in the left hand section by default, you can change the chord detection area from the left hand section to the right hand section. For details, refer to page 56.

NOTE

- For information on chords and Chord Fingering types, refer to page 49.
- The chord specified in the chord section is shown on the Main display (page 18).

NOTE

You can transpose the Style playback (page 36).

NOTE

You can use the Style Retrigger function by assigning it to the LIVE CONTROL knob. For details, refer to page 38.

Style Characteristics

The Style type and its defining characteristics are indicated above the Style name. There are various Style characteristics; however, only the DJ Style (shown as “DJ” in the display) is covered here. For information on the other characteristics, refer to the Reference Manual on the website.

STYLE		PRESET USER USB1	
DJ	J=128	DJ	J=128
ClubHouse		MiamiHouse	
DJ	J=128	DJ	J=128
MiamiHouse		ElectricStep	
DJ	J=128	DJ	J=128
ElectricHouse		EuroDance	

DJ Styles

These Styles can be selected from the category called up via the [DANCE & R&B] button. These contain their own special chord progressions, so you can add chord changes to your performance simply by changing the root key. Keep in mind, however, that you cannot specify the chord type, such as major and minor, when using the DJ Styles. The Multi Pad (page 74) data in the “DJ Phrase” folder are specially created for these Styles. You can call up the suitable Multi Pads by using the One Touch Setting function (page 50).

Style file compatibility

This instrument uses the SFF GE file format (page 8). This instrument can play back existing SFF files, but they will be saved in the SFF GE format when the file is saved (or pasted) in this instrument. Please keep in mind that the saved file can only be played back on instruments that are compatible with the SFF GE format.

Operating Style Playback

To Start/Stop Playing

A Style consists of rhythm and accompaniment (chords, etc.) parts. The buttons for Style playback are covered here.

- **[START/STOP] button**

Turns on/off Style playback. However, only the rhythm part is played back.



- **[ACMP] button**

Turns the Auto Accompaniment on/off. After activating this button, both the rhythm part and Auto Accompaniment can be played back when playing chords in the chord section during Style playback.



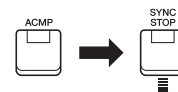
- **[SYNC START] button**

This puts the Style playback in “standby.” The Style starts playing back when you press any note on the keyboard (when [ACMP] is off) or you play a chord with your left hand (when [ACMP] is on). While a Style is playing back, pressing this button stops the Style and puts playback in standby.



- **[SYNC STOP] button**

Make sure that the [ACMP] button is on, then press the [SYNC STOP] button, and play the keyboard. You can start and stop the Style anytime you want by simply playing or releasing the keys in the chord section of the keyboard.

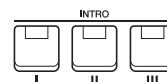


NOTE

When the Chord Fingering type (page 49) is set to “Full Keyboard” or “All Full Keyboard,” Sync Stop cannot be turned on.

- **INTRO [I] – [III] buttons**

The instrument features three different Intro sections to add an introduction before starting Style playback. After pressing one of the INTRO [I] – [III] buttons, start playback of the Style. When the Intro finishes playing, Style playback automatically shifts to the Main section.

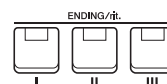


NOTE

The INTRO [I] section consists of only the Rhythm part while INTRO [II] and [III] consist of all the parts as well as the Rhythm part. When you play INTRO [II] or [III], in order to have the complete Intro section sound properly, you need to play chords in the chord section with the [ACMP] turned on.

- **ENDING/rit. [I] – [III] buttons**

The instrument features three different Ending sections to add an ending before stopping Style playback. When you press one of the ENDING/rit. [I] – [III] buttons while Style is playing back, the Style will automatically stop after the ending is played. You can have the ending gradually slow down (ritardando) by pressing the same ENDING/rit. button once again, while the ending is playing.



NOTE

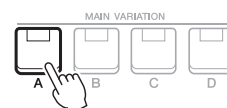
If you press the ENDING/rit. [I] button when the Style is playing, a fill-in automatically plays before the ENDING/rit [I].

Changing Pattern Variation (Sections) During Style Playback

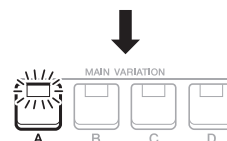
Each Style features four different Main sections, four Fill-in sections and a Break section. By using these sections effectively, you can easily make your performance sound more dynamic and professional. The section can be freely changed while the Style is playing back.

• MAIN VARIATION [A] – [D] buttons

Press one of the MAIN VARIATION [A] – [D] buttons to select the desired Main section (the button lights in red). Each is an accompaniment pattern of a few measures and it plays indefinitely. Pressing the selected MAIN VARIATION button again maintains the same section, but plays an appropriate fill-in pattern to spice up the rhythm and break the repetition.



Press the selected Main section (lit in red) again.



The fill-in of the selected Main section plays (flashes in red).

AUTO FILL function

When the [AUTO FILL IN] button is turned on, pressing any of the MAIN VARIATION [A] – [D] buttons as you play automatically plays a fill-in section for a smooth, dynamic transition into the next (or same) section.



• [BREAK] button

This lets you add dynamic breaks in the rhythm of the accompaniment. Press the [BREAK] button during Style playback. When the one-measure Break pattern finishes playing, the Style playback automatically shifts to the Main section.



About the lamp status of the section buttons (INTRO/MAIN VARIATION/BREAK/ENDING)

- **Red:** The section is currently selected.
- **Red (flashing):** The section will be played next, following the currently selected section.
 - * The MAIN VARIATION [A] – [D] buttons also flash red during fill-in playback.
- **Green:** The section contains data but is not currently selected.
- **Off:** The section contains no data and cannot be played.

Fading In/Out

• [FADE IN/OUT] button

This produces smooth fade-ins and fade-outs when starting/stopping the playback of Style and Song. Press the [FADE IN/OUT] button when playback is stopped and press the [START/STOP] button for Style (or the [PLAY/PAUSE] button for Song) to start playback with a fade in. To stop the playback with a fade out, press the [FADE IN/OUT] button during playback.



Adjusting the Tempo

The TEMPO [-] and [+] buttons let you change the playback tempo of Style, Song and Metronome. The tempo of the Style and Song can also be adjusted via the [TAP TEMPO] button.

• TEMPO [-]/[+] buttons

Press the TEMPO [-] or [+] button to call up the Tempo pop-up display. Use the TEMPO [-]/[+] buttons to decrease or increase the tempo over a range of 5 – 500 beats per minute. Holding down either button can change the value continuously. Pressing both TEMPO [-] and [+] buttons simultaneously can call up the default tempo of the last selected Style or Song.



NOTE

You can also control the tempo by using the LIVE CONTROL knobs. For instructions on how to assign the function to the knobs, refer to page 38.

- **[TAP TEMPO] button**

During playback of a Style or Song, you can change the tempo by tapping the [TAP TEMPO] button twice at the desired tempo.

When Style and Song are stopped, tapping the [TAP TEMPO] button (four times for a 4/4 time signature) starts Style playback at the tempo you tapped.

TAP TEMPO



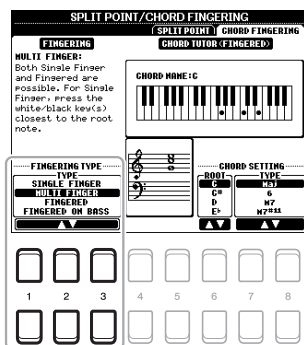
Changing the Chord Fingering Type

By changing the Chord Fingering type, you can automatically produce appropriate accompaniment even if you don't press all of the notes which comprise a chord.

1 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] SPLIT POINT/CHORD FINGERING → [ENTER] → TAB [▶] CHORD FINGERING

2 Press the [1 ▲▼] – [3 ▲▼] buttons to select a Chord Fingering type.



NOTE

When the chord detection area is set to "UPPER" (page 56), only the "FINGERED" type is available. This type is basically same as "FINGERED," except that "1+5," "1+8" and Chord Cancel are not available.

The following types can be selected, for example.

- **SINGLE FINGER**

This method lets you easily play chords in the accompaniment range of the keyboard using only one, two or three fingers.



Major chord

Press the root key only.



Minor chord

Simultaneously press the root key and a black key to its left.



Seventh chord

Simultaneously press the root key and a white key to its left.



Minor seventh chord

Simultaneously press the root key and both a white and black key to its left.

- **FINGERED**

This lets you specify the chord by pressing the notes making up a chord in the left hand section of the keyboard when [ACMP] is turned on or the LEFT part is turned on. For information on which notes to press for each chord, use the Chord Tutor function (page 50) or refer to the Reference Manual on the website.

- **AI FULL KEYBOARD**

This lets you play just about anything, anywhere on the keyboard using both hands — like conventional playing of a piano — and still have appropriate accompaniment. You don't have to worry about specifying the chords. (Depending on the song arrangement, AI Full Keyboard may not always produce appropriate accompaniment.)

For other types, refer to the Reference Manual on the website.

Using the Chord Tutor Function

With this function shown in the right half of this display, you can see which notes to press for specifying the chord. If you know a chord name but don't know how to play it, use this function. Although this function shows how to play a chord only in case of "FINGERED," the indication is useful also when a type other than "SINGLE FINGER" is selected.

Use the [6 ▲▼] buttons to select the chord root then use the [7 ▲▼]/[8 ▲▼] buttons to select the chord type. The notes you need to play are shown in the display.

NOTE

Depending on the chord, some notes may be omitted.

Calling up Appropriate Panel Settings for the Current Style (One Touch Setting)

One Touch Setting (OTS) is a powerful and convenient feature that automatically calls up the most appropriate panel settings (Voices or effects, etc.) for the currently selected Style, with the touch of a single button. If you've already decided which Style you wish to use, you can have One Touch Setting automatically select the appropriate Voice for you.

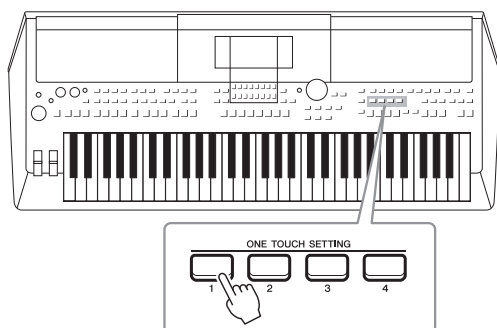
NOTE

For information on the panel settings that are called up by One Touch Setting, refer to the OTS section of "Parameter Chart" in the Data List on the website.

1 Select a Style (steps 1 – 2 on page 45).

2 Press one of the ONE TOUCH SETTING [1] – [4] buttons.

Not only does this instantly call up all the settings (Voices, effects, etc.) that match the current Style, it also automatically turns on [ACMP] and [SYNC START], so that you can immediately start playing the Style.



Confirming the One Touch Setting contents

In the Style Selection display, press the [6 ▼] (OTS INFO) button (when MENU 1 is shown at the bottom right corner of the display) to call up the Information window that shows what Voices are assigned to the ONE TOUCH SETTING [1] – [4] buttons for the current Style.

NOTE

If a Voice part name (R1/R2/L) is grayed out, this indicates that the corresponding Voice part is turned off when pressing the ONE TOUCH SETTING [1] – [4] buttons.

To close the window, press one of the [7 ▲▼]/[8 ▲▼] (CLOSE) buttons.

3 As soon as you play a chord in the chord section, the selected Style starts.

Each Style has four One Touch Setting setups. Press other ONE TOUCH SETTING [1] – [4] buttons to try out other setups.

NOTE

You can memorize original settings to One Touch Setting. For instructions, refer to the Reference Manual on the website.

Automatically changing One Touch Settings with the Main sections (OTS Link)

The convenient OTS (One Touch Setting) Link function lets you automatically have One Touch Settings change when you select a different Main section (A – D). The Main sections A, B, C and D correspond to One Touch Settings 1, 2, 3 and 4 respectively. To use the OTS Link function, turn the [OTS LINK] button on.



NOTE

You can change the timing in which the One Touch Settings change along with MAIN VARIATION [A] – [D] changes. For instructions, refer to the Reference Manual on the website.

Finding Suitable Music Pieces for the Current Style (Repertoire)

You can search for music pieces and songs that are most suitable for playing with the current Style by using the Music Finder Records (page 78). You can automatically call up appropriate settings such as Voice, effect and pedal by selecting the desired music piece.

For optimum use of the Repertoire function, we recommend that you import Music Finder Records (page 80).

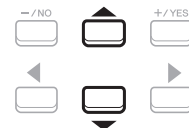
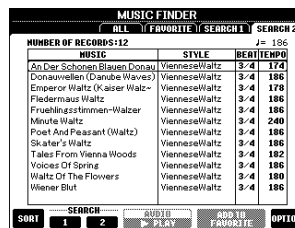
1 Select the desired Style (steps 1 – 2 on page 45).

2 Press the [4 ▼] (REPertoire) button.

The MUSIC FINDER display is automatically called up, and the music pieces which can be played with the current Style are shown.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).



3 Use the Cursor buttons [▲][▼] to select the desired music piece (Record).

The appropriate panel settings for playing the music piece are called up.

4 As soon as you play a chord in the chord section, the selected Style starts.

NOTE

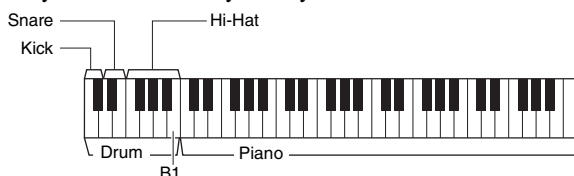
Depending on the particular selected Style, there may not be any Records called up.

Calling up Optimum Styles for Your Performance (Style Recommender)

This convenient function “recommends” optimum Styles for the song you want to perform, based on the rhythm you play for one or two measures.

1 In the Style selection display (page 45), press the [7 ▼] (RECOMMEND) button to call up the STYLE RECOMMENDER display.

The keyboard is divided by B1 key into two sections as below.



The Drum instruments (Kick, Snare and Hi-Hat) are assigned to the left of the B1 key while the Piano sound is assigned to the right.

2 Use the Style Recommender function to find the Style.

2-1 Press the [7 ▲▼]/[8 ▲▼] (START) button to start the metronome, indicating that the Style Recommender function starts.

2-2 Use the TEMPO [-]/[+] buttons or [TAP TEMPO] button to adjust the tempo, and use the [1 ▲▼]/[2 ▲▼] (METRONOME3/4)/[3 ▲▼]/[4 ▲▼] (METRONOME4/4) buttons to select the beat.

2-3 Play the song you have in mind on the Piano section (by using both hands is recommended) or play the rhythm on the Drum section for one or two measures along with the metronome.

The performance is analyzed over several seconds, then playback of the most recommended Style starts. In addition, the candidates of the other recommended Styles are listed in the display.

- Example 1: Play the following song on the Piano section.



The Styles that best match your performance having similar tempos are listed.

- Example 2: Play the following rhythm on the Drum section.



The Styles that contain the similar drum patterns are listed.

3 Select the desired Style from the list by using the Cursor buttons [▲][▼].

Try playing the keyboard along with the Style to see if matches the song you want to play.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

NOTE

Using the [7 ▲▼]/[8 ▲▼] buttons toggles between START and CANCEL.

NOTE

For better results, start playing from the next measure when a song you want to play starts from the middle of a measure, or the song has a short silence prior to the first note.

If the Style called up doesn't match the song you want to play, press the [5 ▲▼]/[6 ▲▼] (RETRY) buttons, then return to step 2-3.

4 When you've found a Style you're satisfied with, press one of the [7 ▲▼]/[8 ▲▼] (OK) buttons to exit from the STYLE RECOMMENDER display.

5 Play the keyboard along with the Style you just found.

Turning On/Off Each Channel of the Style

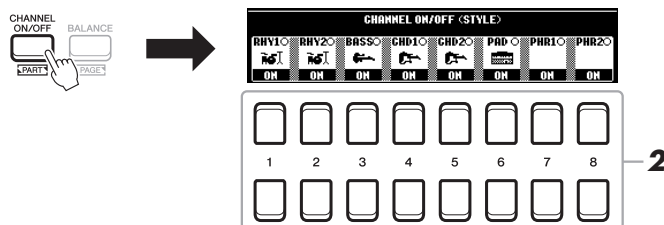
Each Style contains the channels listed below. You can add variations and change the feeling of a Style by selectively turning channels on/off as the Style plays.

Style channels

- **RHY1, 2 (Rhythm 1, 2):** These are the basic parts of the Style, containing the drum and percussion rhythm patterns.
- **BASS:** The bass part uses various appropriate instrument sounds to match the Style.
- **CHD1, 2 (Chord 1, 2):** These are rhythmic chord backing parts, commonly used with piano or guitar Voices.
- **PAD:** This part is used for sustained instruments such as strings, organ, choir, etc.
- **PHR1, 2 (Phrase1, 2):** These parts are used for punchy brass stabs, arpeggiated chords, and other extras that make the accompaniment more interesting.

1 Press the [CHANNEL ON/OFF] button repeatedly if necessary to call up the CHANNEL ON/OFF (STYLE) display which contains the desired channel.

If the CHANNEL ON/OFF (STYLE) display is not shown, press the [CHANNEL ON/OFF] button again.



2 Use the [1 ▼] – [8 ▼] buttons to turn the channels on or off.

To listen to only one channel by itself, hold down the appropriate button for the channel to set the channel to SOLO. To cancel SOLO, simply press the appropriate channel button again.

NOTE

You can save the settings here to Registration Memory (page 83).

To change the Voice for each channel

Press one of the [1 ▲] – [8 ▲] buttons of the corresponding to the desired channel to call up the Voice Selection display (page 33), then select the desired Voice.

3 Press the [EXIT] button to close the CHANNEL ON/OFF (STYLE) display.

NOTE

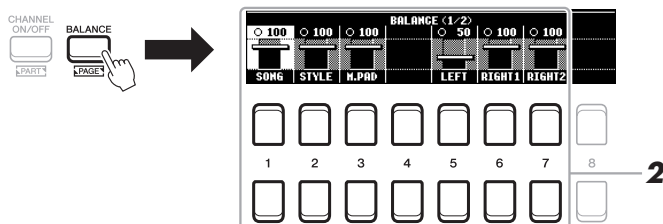
You can also control the Style channels on/off for dynamic effect by using the LIVE CONTROL knobs. For instructions on how to assign the functions to the knobs, refer to page 38.

Adjusting the Volume Balance Between the Parts

You can adjust the volume balance between the parts (Song, Style, LEFT, RIGHT 1/2, etc.).

- 1 Press the [BALANCE] button once or twice to call up the desired page of the BALANCE display which contains the desired channel.

There are two pages, 1/2 and 2/2.

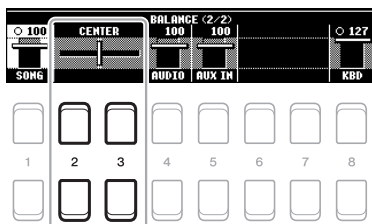


- 2 Use the [1 ▲▼] – [8 ▲▼] buttons to adjust the volume of the desired parts.

In the BALANCE 1/2 page, you can adjust the volume balance between the Song (MIDI Song, page 59), Style, Multi Pad (M.PAD, page 74), and keyboard parts (LEFT, RIGHT1 and 2).

In the BALANCE 2/2 page, you can adjust the volume balance between the Song (MIDI), Audio (page 69), sound input from the [AUX IN] jack (page 89), and all keyboard parts (KBD).

For information on the [2 ▲▼] – [3 ▲▼] buttons, refer to page 72.



- 3 Press the [EXIT] button to close the BALANCE display.

NOTE

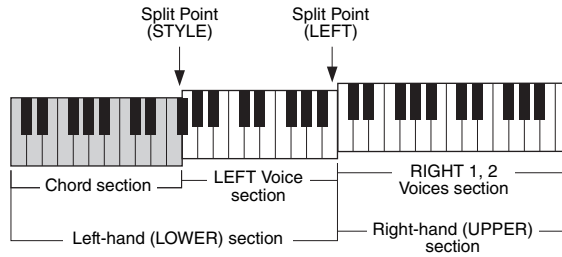
- You can also control the volume balance between the parts by using the LIVE CONTROL knobs. For instructions on how to assign the functions to the knobs, refer to page 38.
- On the VOL/VOICE page of the MIXING CONSOLE display (page 86), you can adjust the volume for the Song and Style parts independently.

NOTE

When the UD-WL01 USB Wireless LAN adaptor is connected to the instrument, "WLAN" appears in the BALANCE (2/2) page.

Setting the Split Point

The key which divides the keyboard into two sections is referred to as “Split Point.” There are two Split Points: Split Point (LEFT) and Split Point (STYLE).



- **Split Point (LEFT):**

Divides the keyboard into the left-hand (LOWER) section and the right-hand (UPPER) section.

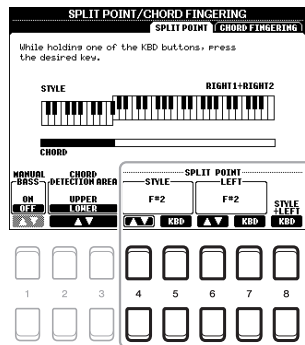
- **Split Point (STYLE):**

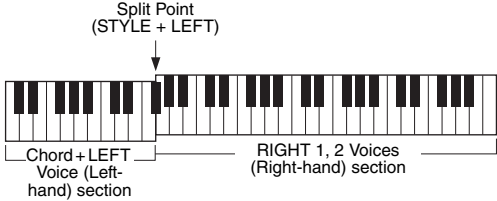
Divides the left-hand (LOWER) section into the chord section and the LEFT Voice section.

1 Call up the Split Point display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] SPLIT POINT/CHORD FINGERING → [ENTER] → TAB [◀] SPLIT POINT

2 Set the Split Point.



[4 ▲▼]/ [5 ▲▼]	Split Point (STYLE)	Sets the Split Point (STYLE). Press the [4 ▲▼] button or press the desired key on the keyboard while holding the [5 ▲▼] (KBD) button to specify the Split Point.
[6 ▲▼]/ [7 ▲▼]	Split Point (LEFT)	Sets the Split Point (LEFT). Press the [6 ▲▼] button or press the desired key on the keyboard while holding the [7 ▲▼] (KBD) button to specify the Split Point. NOTE Split Point (LEFT) cannot be set lower than Split Point (STYLE).
[8 ▲▼]	Split Point (STYLE + LEFT)	Sets Split Point (STYLE) and Split Point (LEFT) to the same note. Rotate the Data dial or press the desired key on the keyboard while holding the [8 ▲▼] (KBD) button to specify the Split Point. 

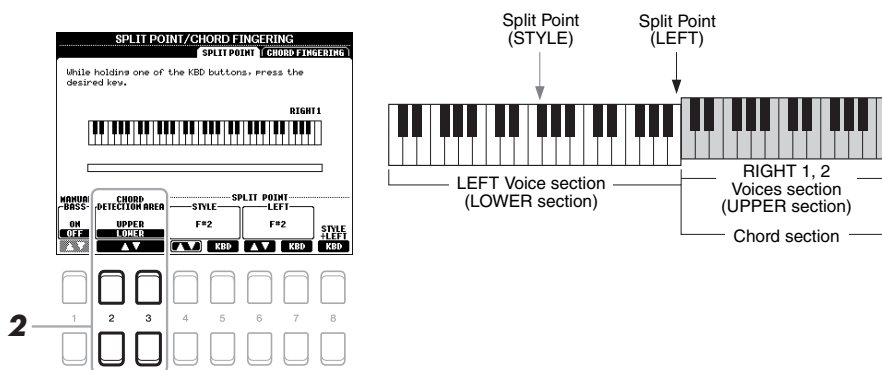
Specifying Chords with Your Right Hand while Playing Bass with Your Left Hand

By changing the chord detection area from the left-hand section to the right-hand section, you can play a bass line with your left hand while using your right hand to control Style playback.

1 Call up the Split Point display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] → SPLIT POINT/CHORD FINGERING → [ENTER] → TAB [◀] SPLIT POINT

2 Use the [2 ▲▼]/[3 ▲▼] buttons to set the CHORD DETECTION AREA value to “UPPER.”



With this setting, the whole right-hand (UPPER) section functions as the Chord section as well as for melody performance. In this condition, note the following points:

- In the right-hand (UPPER) section, you can specify the chord type as you play the melody.
- When the Manual Bass function is ON, the Voice for the Bass part of the current Style is muted and assigned to the left-hand (LOWER) section. To turn this function on/off, use the [1 ▲▼] buttons.
- The Chord Fingering setting (page 49) will be set to a specific type (“FINGERED*”) automatically, in which case you should press three or more notes simultaneously for specifying the chord. Pressing two or less notes does not change the chord type.
- Split Point (STYLE) is unavailable.

NOTE

“FINGERED*” is basically same as “FINGERED”, except that “1+5”, “1+8” and Chord Cancel are not available.

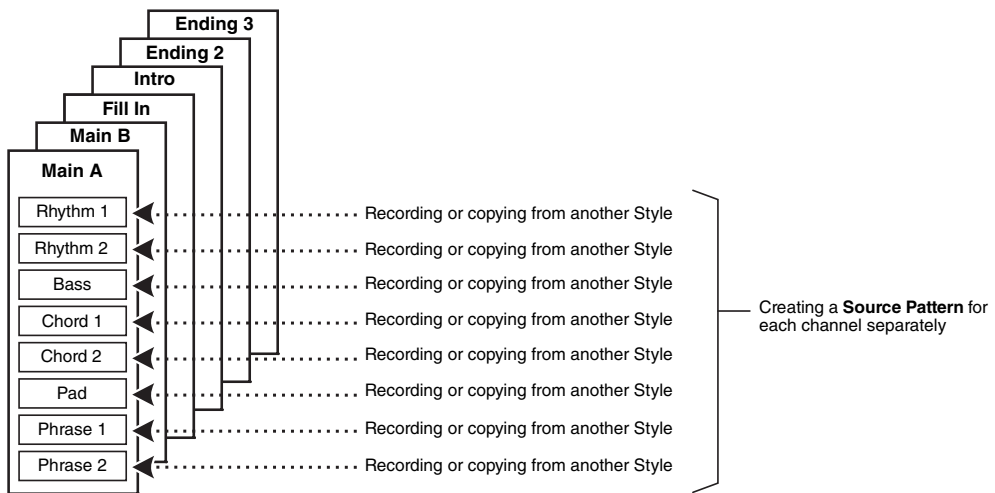
Creating/Editing Styles (Style Creator)

The Style Creator function lets you create original Styles by recording rhythm patterns from the keyboard and using already-recorded Style data. Basically, select a preset Style that is closest to the type you want to create, then record the rhythm pattern, bass line, chord backing, or phrase (referred to as “Source Pattern” in the Style Creator) for each channel of each Section.

This section gives you a brief introduction of the Style Creator function. For instructions on how to use the function, refer to the Reference Manual on the website.

Style Data Structure — Source Patterns

A Style is made up of the different Sections (Intro, Main, Ending, etc.) and each Section has eight separate channels, each of which is referred to as “Source Pattern.” With the Style Creator feature, you can create a Style by separately recording the Source Pattern for each channel, or by importing pattern data from other existing Styles.



Editing the Rhythm Part of a Style (Drum Setup)

The Rhythm parts of a preset Style consist of a preset Drum Kit, and each drum sound is assigned to a separate note. You may want to change the sounds and the note assignments, or make more detailed settings such as volume balance, effect, etc. By using the Drum Setup function of the Style Creator, you can edit the Rhythm part of a Style and save it as an original Style. For details, refer to the Reference Manual on the website.

NOTE

For information on the preset Drum Kit and the Voices, refer to the “Drum/SFX Kit List” in the Data List on the website. This list provides the information on which Voice is assigned to each keyboard (note).

Advanced Features

Refer to the Reference Manual on the website, **Chapter 2**.



Style playback related settings: [FUNCTION] → MENU 1 → STYLE SETTING → [ENTER]

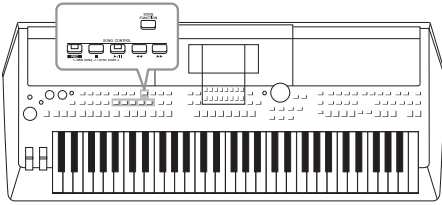
Memorizing an original One Touch Settings: [MEMORY] + ONE TOUCH SETTING [1] – [4]

Creating/editing Styles (Style Creator): [FUNCTION] → MENU 2 → STYLE CREATOR → [ENTER]

- Realtime Recording: → BASIC
- Style Assembly: → ASSEMBLY
- Editing the rhythmic feel: → GROOVE
- Editing data for each channel: → CHANNEL
- Making Style File Format settings: → PARAMETER
- Editing the rhythm part of a Style (Drum Setup) → BASIC → 3 RHY CLEAR/CH DELETE/DRUM SETUP

Songs

– Playing, Practicing and Recording Songs –



For the PSR-S670, “Song” refers to the MIDI songs which include preset songs, commercially available MIDI format files, etc. Not only can you play back a Song and listen to it, but you can also play the keyboard along with Song playback and record your own performance as a Song.

MIDI song

A MIDI Song is comprised of your keyboard performance information and is not a recording of the actual sound itself. The performance information refers to which keys are played, at what timing, and at what strength — just as in a musical score. Based on the recorded performance information, the tone generator outputs the corresponding sound. Since MIDI Song data contains the information such as keyboard part and Voice, you can practice effectively by viewing the score, turning the particular part on or off, or changing Voices.

NOTE

For instructions on playback and recording of audio files, refer to page 69.

Playback of Songs

You can play back the following types of Songs.

- Preset Songs (in the PRESET tab of the Song Selection display)
- Your own recorded Songs (page 66)
- Commercially available Song data: SMF (Standard MIDI File)

If you want to play back a Song in USB flash drive, connect the USB flash drive containing Song data to the [USB TO DEVICE] terminal beforehand.

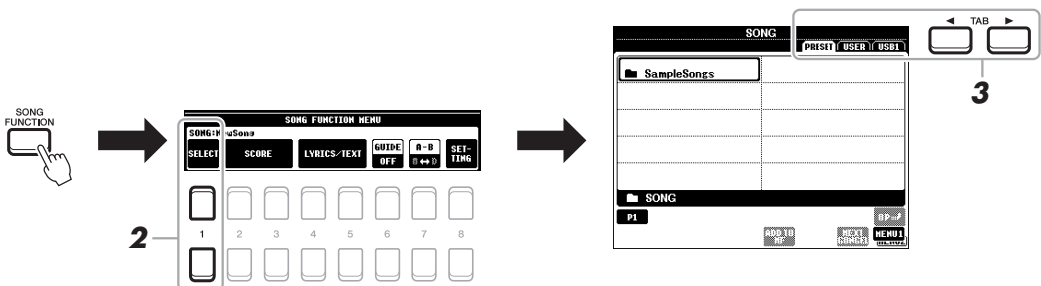
NOTE

For information on compatible data formats, refer to page 8.

NOTE

Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 91.

- 1 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display.



- 2 Press one of the [1 ▲▼] (SELECT) buttons in the SONG FUNCTION MENU to call up the Song Selection display.

NOTE

You can quickly call up the Song Selection display by pressing the [DIRECT ACCESS] button, followed by the [SONG FUNCTION] button.

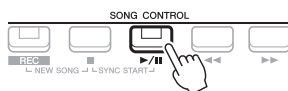
▶ NEXT PAGE

3 Use the TAB [◀][▶] buttons to select the location of the desired Song.

- **PRESET tab**Preset Songs are shown.
- **USER tab**Recorded or edited Songs which are saved on the USER drive are shown.
- **USB tab**Songs which are saved on the USB flash drive are shown. This appears only when a USB flash drive is connected to the [USB TO DEVICE] terminal.

4 Move the cursor to the desired Song by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

5 Press the SONG CONTROL [▶/||] (PLAY/PAUSE) button to start playback.



NOTE

You can transpose the Song playback (page 36).

Queuing the next Song for playback

While a Song is playing back, you can queue up the next Song for playback. This is convenient for chaining it to the next Song smoothly during live performance. Select the Song you want to play next in the Song Selection display, while a Song is playing back. The “NEXT” indication appears at the upper right of the corresponding Song name. To cancel this setting, press the [7 ▼] (NEXT CANCEL) button.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

6 Press the SONG CONTROL [■] (STOP) button to stop playback.



Playback-related Operations



- **Synchro Start**You can start playback as soon as you play the keyboard. While playback is stopped, hold down the SONG CONTROL [■] (STOP) button and press the [▶/||] (PLAY/PAUSE) button. The [▶/||] (PLAY/PAUSE) button flashes, indicating the standby status. You can start playback as soon as you play the keyboard. To cancel the Synchro Start function, press the [■] (STOP) button.
- **Pause**Press the [▶/||] (PLAY/PAUSE) button during playback. Pressing it again resumes Song playback from the current position.
- **Rewind/Fast Forward**Press the [◀◀] (REW) or [▶▶] (FF) during playback or while the Song is stopped. Pressing either of them once moves back/forward one measure. Holding either of them scrolls backward/forward continuously.

NOTE

- You can adjust the volume balance between the Song and keyboard (page 54). On the VOL/VOICE page of the Mixing Console display (page 86), you can adjust the volume for each Song channel.
- You can also adjust the volume balance between the Song and an audio file (page 72).

NOTE

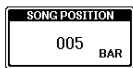
You can also turn specific part(s) on or off (page 63).

Pressing the [◀◀] (REW) or [▶▶] (FF) button calls up a pop-up display showing the current measure number (or Phrase Mark number). While the Song Position pop-up is shown on the display, you can also use the Data dial to adjust the value.

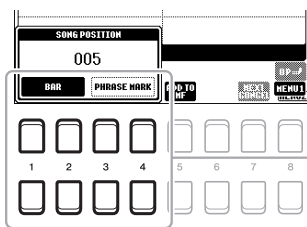
NOTE

Phrase Mark is a pre-programmed marker in certain Song data, which indicates a specific location in the Song.

For Songs not containing Phrase Marks



For Songs containing Phrase Marks



To change the units used in rewinding/fast-forwarding the Song from "BAR" to "PHRASE MARK", press one of the [3 ▲▼]/[4 ▲▼] buttons. To rewind/fast forward it in "BAR" unit again, press one of the [1 ▲▼]/[2 ▲▼].

- **Fading In/Out**Same procedure as with Style. See page 48.
- **Adjusting the Tempo**Same procedure as with Style tempo. See page 48.

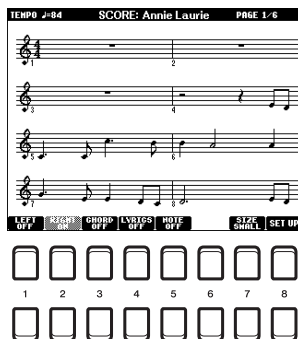
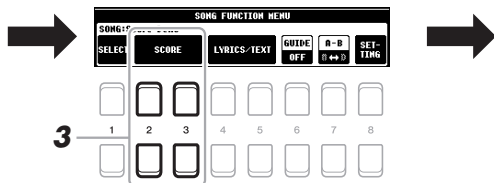
Displaying Music Notation (Score)

You can view the music notation (score) of the selected Song.

NOTE

This instrument can display the music notation of your recorded Song, or commercially available MIDI files (only those which allow devices to indicate notation).

- 1 Select a Song (steps 1 – 4 on page 59).**
- 2 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display.**



- 3 Press one of the [2 ▲▼]/[3 ▲▼] (SCORE) buttons to call up the SCORE display.**

You can look through the entire notation by using the TAB [◀][▶] buttons when the Song playback is stopped. When playback is started, the "ball" bounces along through the score, indicating the current position.

You can change the displayed notation style by using the [1 ▲▼] – [8 ▲▼] buttons. For details, refer to the Reference manual on the website.

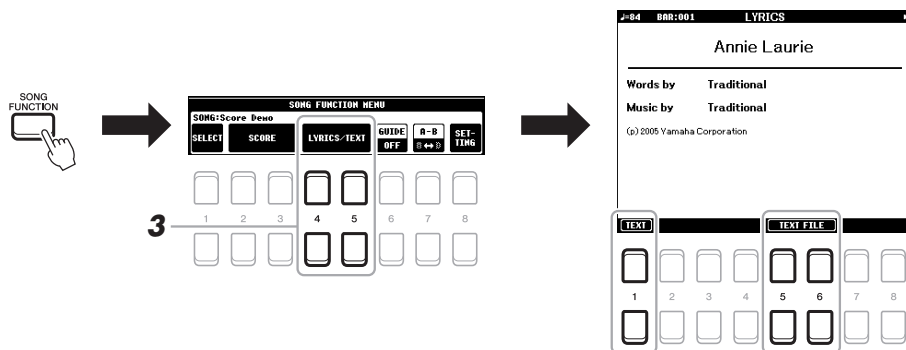
NOTE

The displayed notation is generated by the instrument based on the Song data. As a result, it may not be exactly the same as commercially available sheet music of the same song — especially when displaying notation of complicated passages or many short notes.

Displaying Lyrics/Text

When the selected Song contains lyrics data, you can view it on the instrument's display. Even if the Song does not contain lyrics data, you can view the lyrics on the display by loading the text file (.txt) created on a computer via USB flash drive. Text display allows for a variety of useful and convenient possibilities, such as the showing of lyrics, chord charts, and performance notes.

- 1 Select a Song (steps 1 – 4 on page 59).
- 2 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display.



- 3 Press the [4 ▲▼]/[5 ▲▼] (LYRICS/TEXT) button to call up the LYRICS/TEXT display.

You can switch between the LYRICS display and the TEXT display by using the [1 ▲▼] buttons.

When the Song data contains lyrics data, the lyrics are shown on the LYRICS display. You can look through the entire lyrics by using the TAB [◀][▶] buttons when Song playback is stopped. When playback is started, the color of the lyrics changes, indicating the current position.

To view the text file on the TEXT display, press one of the [5 ▲▼]/[6 ▲▼] (TEXT FILE) buttons to call up the File Selection display and select the desired file created on your computer.

For more information about the LYRICS (TEXT) display, refer to the Reference manual on the website.

NOTE

When the lyrics are garbled or unreadable, you may need to change the Lyrics Language setting: [FUNCTION] → MENU 1 → SONG SETTING → [ENTER].

NOTE

Information about Text File selection can be memorized to the Registration Memory (page 83).

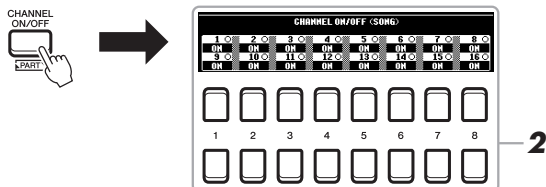
NOTE

You can turn to the next/previous text page by assigning the function to the foot pedal: [FUNCTION] → MENU 1 → CONTROLLER → [ENTER] → FOOT PEDAL

Turning Each Channel of the Song On/Off

A Song consists of 16 separate channels. You can independently turn each channel of the selected Song playback on or off.

- 1 Press the [CHANNEL ON/OFF] button several times to call up the CHANNEL ON/OFF (SONG) display.



- 2 Use the [1 ▲▼] – [8 ▲▼] buttons to turn each channel on or off.

If you want to play back only one particular channel (solo playback), hold down one of the [1 ▲▼] – [8 ▲▼] buttons to set the desired channel to SOLO. Only the selected channel is turned on and others are off. To cancel solo playback, press the same button again.

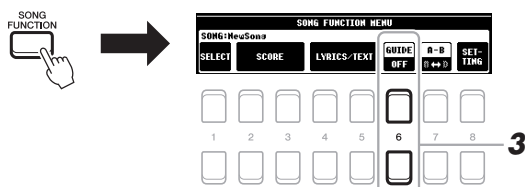
NOTE

Usually, each part is recorded to the following channels.
 Channel 1 – 3: keyboard parts (RIGHT 1, LEFT, RIGHT 2)
 Channel 5 – 8: Multi Pad parts
 Channel 9 – 16: Style parts

One-handed Practice with the Guide Function

You can mute the right-hand part to try practicing that part on your own. The explanations here apply when you practice the right-hand part with “Follow Lights” of the Guide functions. You can also practice at your own pace — since the accompaniment waits for you to play the notes correctly. In the SCORE display, you can see the note to play and the current position.

- 1 Select a Song and call up the SCORE display (page 61).
- 2 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display.



- 3 Use the [6 ▲▼] (GUIDE) buttons to turn the Guide function on.
- 4 Press the [CHANNEL ON/OFF] button to call up the CHANNEL ON/OFF (SONG) display.

If the CHANNEL ON/OFF (SONG) display is not shown, press the [CHANNEL ON/OFF] button again.

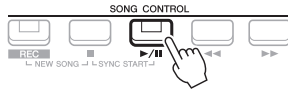
- 5 Press the [1 ▲] button to turn Channel 1 (RIGHT 1 part) off.

If necessary, press the [3 ▲] button to turn the Channel 3 (RIGHT 2 part) off. You can now play that part by yourself.

NOTE

Usually, the LEFT part is assigned to Channel 2.

- 6** Press the **SONG CONTROL** [▶/||] (PLAY/PAUSE) button to start playback.



Practice the muted part while viewing the SCORE display. The playback of the left and extra parts will wait for you to play the notes correctly.

- 7** Press the **[SONG FUNCTION]** button to call up the **SONG FUNCTION MENU** display, then press the **[6 ▲▼] (GUIDE)** button to turn the Guide function off after your practice.

NOTE

Press the [EXIT] button to close the CHANNEL ON/OFF (SONG) display in order to see the "ball" bounce along through the score (page 61).

Other Guide functions

In addition to the "Follow Lights" function explained above, there are more functions in the Guide features, for practicing the timing of playing the keys (Any Key), for Karaoke or for practicing a song at your own pace (Your Tempo).

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] SONG SETTING → [ENTER] → Cursor buttons [▲] 1 GUIDE MODE

For more information, refer to the Reference Manual on the website.

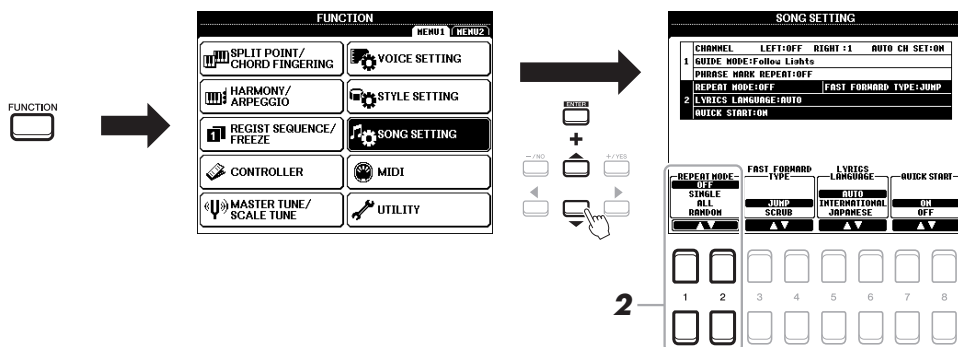
Repeat Playback

The Song Repeat functions can be used to repeatedly play back a Song, multiple Songs, or a specific range of measures in a Song.

Selecting the Repeat Mode for Song playback

- 1** Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] SONG SETTING → [ENTER] → Cursor button [▼] 2 REPEAT MODE

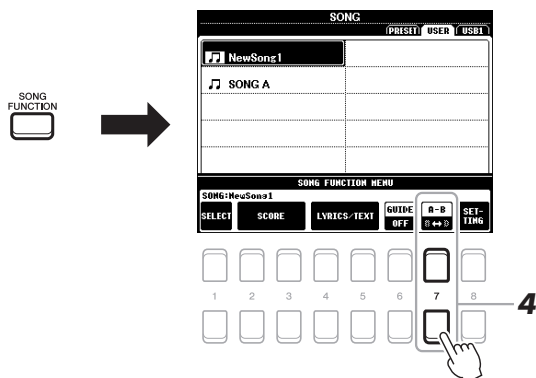


- 2** Use the **[1 ▲▼]/[2 ▲▼] (REPEAT MODE)** buttons to determine the method of repeat playback.

- **OFF** Plays through the selected Song, then stops.
- **SINGLE** Plays through the selected Song repeatedly.
- **ALL** Continues playback through all the Songs in the specified folder repeatedly.
- **RANDOM** Continues playback at random through all the Songs in the specified folder repeatedly.

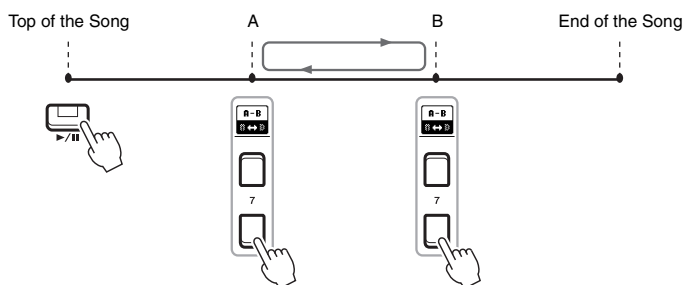
Specifying a Range of Measures and Playing them Back Repeatedly (A-B Repeat)

- 1 Select a Song (steps 1 – 4 on page 59).
- 2 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display.



- 3 Press the SONG CONTROL [▶/||] (PLAY/PAUSE) button to start playback.
- 4 Specify the repeat range.

Press one of the [7 ▲▼] (A-B) buttons at the starting point (A) of the range to be repeated. Press one of the [7 ▲▼] (A-B) buttons again at the ending point (B). After an automatic lead-in (to help guide you into the phrase), the range from Point A to Point B is played back repeatedly.



- 5 To stop playback, press the SONG CONTROL [■] (STOP) button.

The Song position returns to Point A and pressing the [▶/||] (PLAY/PAUSE) button lets you start from that point.

After you've finished practicing, press one of the [7 ▲▼] (A-B) buttons to turn off Repeat playback.

NOTE

Specifying only Point A results in repeat playback between Point A and the end of the Song.

NOTE

When you want to repeat from the top of the Song to the middle of the Song:

- 1 Press one of the [7 ▲▼] (A-B) buttons, then start Song playback.
- 2 Press one of the [7 ▲▼] (A-B) buttons again at the ending point (B).

Specifying the repeat range while Songs are stopped

1. Fast-forward the Song to Point A by using the SONG CONTROL [▶▶] (FF) button, then press one of the [7 ▲▼] (A-B) buttons.
2. Fast-forward the Song to Point B, then press one of the [7 ▲▼] (A-B) buttons again.

Recording Your Performance

You can record your performance and save it as a MIDI file (SMF format 0) to the USER drive or USB flash drive. Since the recorded data is MIDI, you can easily edit your Songs.

Two recording methods are available:

- **Quick Recording**See section below.
You can record all parts of your performance at once or a specific part (right-hand, left-hand or Style playback).
- **Multi Track Recording**.....page 67
You can record data to each channel one by one, to create a single, multi-part Song. The channel/part assignments can be freely changed.

NOTE

For instructions on the recording of audio files, see page 72.

NOTE

Audio data such as the rhythm channels created via the audio data of Audio Link Multi Pad (page 76) and audio files (page 69) cannot be recorded to the MIDI Songs.

Quick Recording

Before recording, make the necessary settings such as Voice/Style selection. With this recording, each part will be recorded to the following channels.

- **Keyboard parts:** channels 1 – 3
- **Multi Pad parts:** channels 5 – 8
- **Style parts:** channels 9 – 16

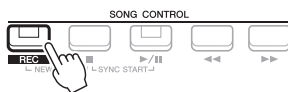
1 Press the SONG CONTROL [REC] button and the [■] (STOP) button simultaneously.

A blank Song for recording is automatically set, and the Song name on the Main display (page 18) is set to “NewSong.”



2 Press the [REC] button.

The [REC] and [▶/||] (PLAY/PAUSE) buttons flash, indicating the standby status.



NOTE

To cancel the recording, press the [■] (STOP) button before going on to step 3.

3 Start recording.

You can start recording by playing the keyboard, starting a Style, playing a Multi Pad or pressing the SONG CONTROL [▶/||] (PLAY/PAUSE) button.



NOTE

You can use the metronome (page 35) while recording; however, the metronome sound will not be recorded.

4 After you finish your performance, press the [■] (STOP) or [REC] button to stop recording.

A message may appear prompting you to save the recorded data. Press the [EXIT] button to close the message.

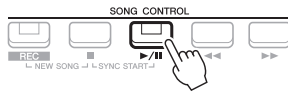


5 Save the recorded performance as a Song.

5-1 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display, then press one of the [1 ▲▼] (SELECT) buttons to call up the Song Selection display.

5-2 Save the recorded data as a file by following the instructions on page 26.

6 Press the [▶/||] (PLAY/PAUSE) button to play back the recorded performance.



NOTICE

The recorded Song will be lost if you change to another Song or you turn the power off without carrying out the Save operation.

Recording each channel individually (Multi Track Recording)

You can create a Song consisting of 16 channels by recording your performance to each channel one by one. In recording a piano piece, for example, you can record the right-hand part to channel 1 then record the left-hand part to channel 2, allowing you to create a complete piece which may be difficult to play live with both hands together. To record a performance with Style playback, for example, record the Style playback to channels 9 – 16, then record melodies to channel 1 while listening to the already recorded Style playback. In this way, you can create an entire Song which would otherwise be difficult, or even impossible, to play live.

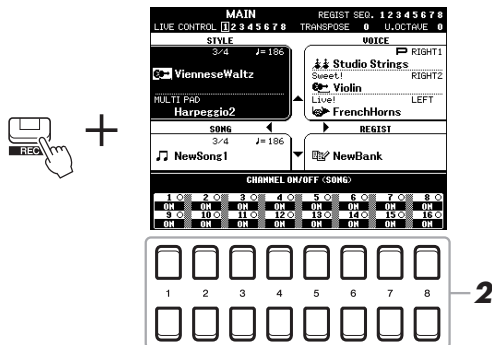
Before recording, make the necessary settings such as Voice/Style selection.

1 Press the SONG CONTROL [REC] button and the [■] (STOP) button simultaneously.

A blank Song for recording is automatically set, and the Song name on the Main display (page 18) is set to “NewSong.”

2 While holding down the [REC] button, press the appropriate [1 ▲▼] – [8 ▲▼] buttons to set the desired channels to “REC.”

To cancel the REC status of the channel, press the desired channel button.



- 3** While the following window is shown, use the Data dial or [+ / YES] / [- / NO] button to change the part assignment for the channel to be recorded.



- 4** Start recording.

You can start recording by playing the keyboard, starting a Style, playing a Multi Pad or pressing the SONG CONTROL [▶/||] (PLAY/PAUSE) button.



- 5** After you finish your performance, press the [■] (STOP) button to stop recording.

A message may appear prompting you to save the recorded data. Press the [EXIT] button to close the message.

- 6** Press the [▶/||] (PLAY/PAUSE) button to play back the recorded performance.

- 7** Record your performance to another channel by repeating steps 2 to 6 above.

- 8** Save the recorded performance as a Song.

8-1 Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display, then press the [1 ▲▼] (SELECT) button to call up the Song Selection display.

8-2 Save the recorded data as a file by following the instructions on page 26, steps 1 – 5.

NOTE

To cancel the recording, press the [■] (STOP) button before going on to step 4.

NOTE

The Style Retrigger function (page 38) cannot be used when you are overdubbing to a recorded Song.

NOTICE

The recorded Song will be lost if you change to another Song or you turn the power off without carrying out the Save operation.

Advanced Features

Refer to the Reference Manual on the website, **Chapter 3**.



Editing Music Notation settings:

[SONG FUNCTION] → [2 ▲▼] / [3 ▲▼] (SCORE) → [1 ▲▼] – [8 ▲▼] buttons

Editing Lyrics/Text display settings:

[SONG FUNCTION] → [4 ▲▼] / [5 ▲▼] (LYRICS/TEXT) → [1 ▲▼] – [8 ▲▼] buttons

Using the Auto Accompaniment features with Song Playback:

[ACMP] → STYLE CONTROL [SYNC START] → SONG CONTROL [■] + [▶/||] → STYLE CONTROL [START/STOP]

Song Playback related parameters:

[FUNCTION] → MENU 1 → SONG SETTING → [ENTER]

- Keyboard and vocal practice using the Guide function:

→ 1 GUIDE MODE

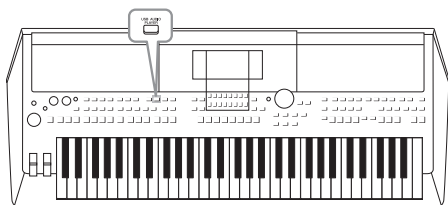
Editing Songs (Song Creator):

[FUNCTION] → MENU 2 → SONG CREATOR → [ENTER]

- Selecting the setup parameters recorded to the top position of the Song → SETUP
- Re-recording a specific section — Punch In/Out: → REC MODE
- Editing channel events: → CHANNEL

USB Audio Player/Recorder

– Recording and Playing Audio Files –



The convenient USB Audio Player/Recorder function allows you to play back audio files (WAVE) saved to a USB flash drive — directly from the instrument. Moreover, since you can record your performances and recordings as audio files (WAVE) to a USB flash drive, it is possible to play back the files on computer, share them with your friends, and record your own CDs to enjoy as well.

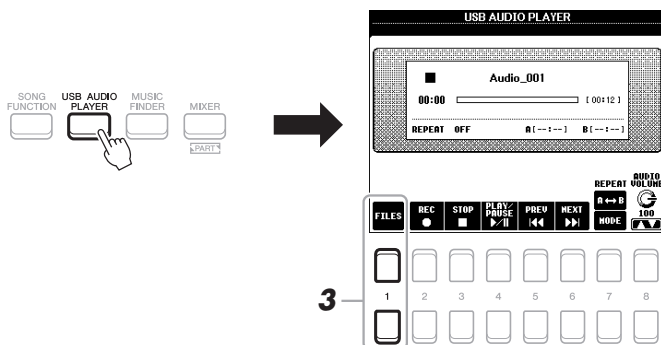
NOTE

- For instructions on playback and recording of MIDI files, refer to page 59.
- If you want to record various parts separately or edit the data after recording on this instrument, record as MIDI files (page 66).

Playing Back Audio Files

You can play back audio files of WAV format (44.1 kHz sample rate, 16 bit resolution, stereo) that have been saved to the USB flash drive.

- 1 Connect the USB flash drive containing the audio files to the [USB TO DEVICE] terminal.
- 2 Press the [USB AUDIO PLAYER] button to call up the USB AUDIO PLAYER display.



- 3 Press one of the [1 ▲▼] (FILES) buttons to call up the Audio File Selection display.

NOTE

DRM (Digital Rights Management) protected files cannot be played back.

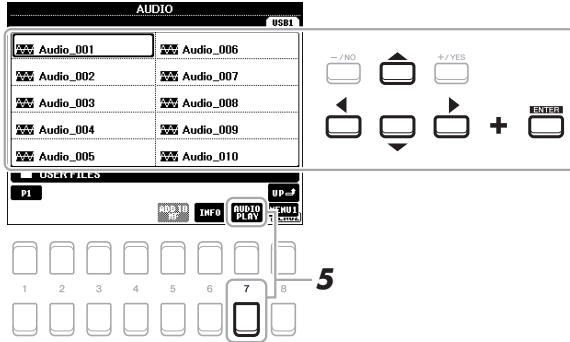
NOTE

Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.

NOTE

While selecting the desired WAVE file in the Audio Link Multi Pad function (step 5 on page 76), the [USB AUDIO PLAYER] button does not function.

- 4** Move the cursor to the desired file by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.



NOTE

Audio files take a slightly longer time to load than other files.

Viewing Audio file information

Pressing the [6 ▼] (INFO) button calls up the Information window which you can view the file name, path, sample rate etc. of the selected red-framed file.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

To close the window, press the [7 ▲▼]/[8 ▲▼] (OK) button.

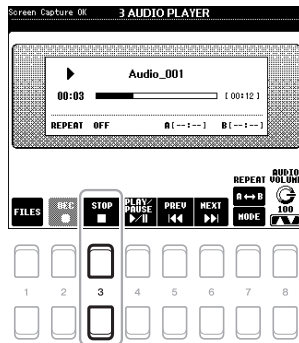
- 5** Press the [7 ▼] (AUDIO PLAY) button to start playback.
The display automatically returns to the USB AUDIO PLAYER display.
- 6** To stop playback, press the [3 ▲▼] (STOP) button.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

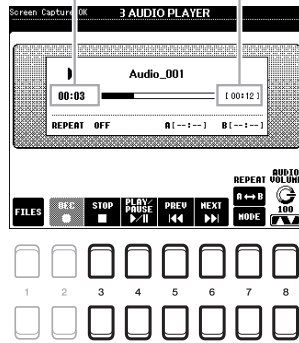
NOTICE

Never attempt to disconnect the USB flash drive or turn the power off during playback. Doing so may corrupt the USB flash drive data.



Playback-related Operations

Elapsed playback time Total playback time



[3 ▲▼]	STOP	Stops playback.
[4 ▲▼]	PLAY/PAUSE	Starts or pauses playback at the current position.
[5 ▲▼]	PREV	Pressing this changes the file to the previous one; holding it moves continuously back through the current file (in seconds).
[6 ▲▼]	NEXT	Pressing this changes the file to the next one; holding it moves continuously forward through the current file (in seconds).
[7 ▲▼]	REPEAT	See below.
[8 ▲▼]	AUDIO VOLUME	Adjusts the volume of the current audio file. NOTE <ul style="list-style-type: none"> • The volume balance between the Song playback and audio file playback can be adjusted via the [BALANCE] button. For instructions, refer to page 72. • You can control the volume of the audio file by using the LIVE CONTROL knobs. For instructions on how to assign the functions to the knobs, refer to page 38.

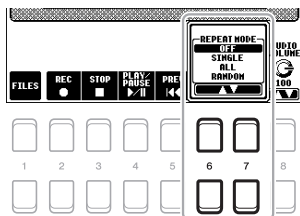
A-B Repeat Playback via the [7 ▲] (A↔B) button

The specified section (between the A and B points) can be played back repeatedly.

- To set the A point, press the [7 ▲] (A↔B) button when playback reaches to the desired point.
The time set as the A point is shown in at “A [---]” in the display, and is indicated by the first wedge mark in the playback progress bar.
- To set the B point, press the [7 ▲] (A↔B) button again when playback reaches to the desired point.
The time set as the B point is shown in at “B [---]” in the display, and is indicated by the second wedge mark in the playback progress bar.
The specified A-B section of the audio file will now play back repeatedly.
- To cancel Repeat playback, press the [7 ▲] (A↔B) button again.

Repeat Playback mode via the [7 ▼] (MODE) button

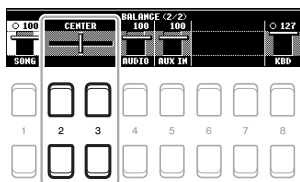
Press the [7 ▼] (MODE) button to call up the REPEAT MODE window, then select the REPEAT MODE by using the [6 ▲▼]/[7 ▲▼] buttons. To close the window, press the [EXIT] button.



- **OFF (OFF)**Plays through the selected file, then stops.
- **SINGLE (↺)**Plays through the selected file repeatedly.
- **ALL (↻)**Continues playback through all the files in the current folder repeatedly.
- **RANDOM (⤴)**Randomly and repeatedly plays back all files in the current folder.

Adjusting the Volume Balance Between the Song (MIDI) and Audio playback

Pressing the [BALANCE] button once or twice to calls up the BALANCE (2/2) display. In this display, you can adjust the volume balance between the Song (MIDI) and Audio by using the [2 ▲▼] – [3 ▲▼] buttons. When this is set to CENTER, the levels of the Song and Audio are equal. To instantly reset the balance to CENTER, press the [2 ▲] and [3 ▲] (or [2 ▼] and [3 ▼]) buttons simultaneously.



NOTE

For more information on the BALANCE displays, refer to page 54.

Recording Your Performance as Audio

You can record your performance as an audio file (WAV format — 44.1 kHz sample rate, 16 bit resolution, stereo) directly to a USB flash drive.

Sounds that can be recorded:

- Sounds that are generated via all the keyboard parts (LEFT, RIGHT 1, 2), Song parts, Style parts, and Multi Pad (page 74) parts.
- Sounds of a portable audio player that are input via the [AUX IN] jack (page 89).
- Sounds of the MIDI data, etc. that are input via the [USB TO HOST] terminal (page 93).

Maximum amount of recording time:

- 80 minutes per recording, though this may differ depending on the capacity of the USB flash drive.

- 1 Connect the USB flash drive to the [USB TO DEVICE] terminal.
- 2 Make the necessary settings such as Voice/Style selection.

NOTE

Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.

NOTE

If you want to record various parts separately or edit the data after recording on this instrument, record as MIDI files (page 66).

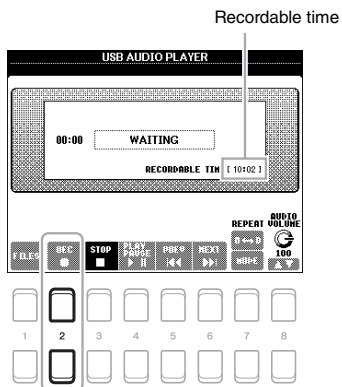
NOTE

Data that cannot be recorded includes: Songs protected by copyright (such as Preset Songs), Audio Link Multi Pads and the metronome sound.

- Press the [USB AUDIO PLAYER] button to call up the USB AUDIO PLAYER display.

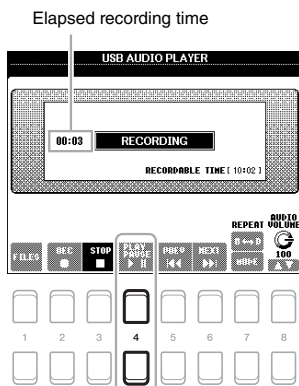


- Use the [2 ▲▼] (REC) buttons to enter recording standby. The [PLAY/PAUSE] button in the display flashes.



- Start recording by using the [4 ▲▼] (PLAY/PAUSE) buttons, then start your performance.

The elapsed recording time is shown in the display while recording.



- After you finish your performance, use the [3 ▲▼] (STOP) buttons to stop recording.

Recorded data is automatically saved to the USB flash drive as a file with the name automatically set.

- Use the [4 ▲▼] (PLAY/PAUSE) buttons to play back the recorded performance.

To see the file of the recorded performance in the File Selection display, use the [1 ▲▼] (FILES) buttons.

NOTE

You can use the metronome (page 35) while recording; however, the metronome sound will not be recorded.

NOTICE

Never attempt to disconnect the USB flash drive or turn the power off during recording. Doing so may corrupt the USB flash drive data or the recording data.

NOTE

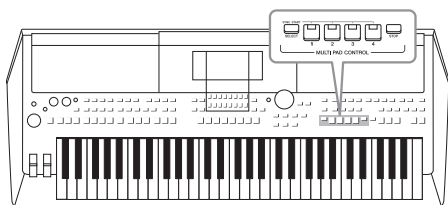
The recording operation continues, even if you close the USB AUDIO PLAYER display by pushing the [EXIT] button. Press the [USB AUDIO PLAYER] button to call up the USB AUDIO PLAYER display again, then stop the recording by pressing the [3 ▲▼] (STOP) button.

NOTE

Keep in mind that if you make a mistake in your performance, you cannot correct it by overwriting an existing file. Delete the recorded file on the File Selection display, then record your performance again.

Multi Pads

– Adding Musical Phrases to Your Performance –



The Multi Pads can be used to play a number of short pre-recorded rhythmic and melodic sequences adding impact and variety to your keyboard performances.

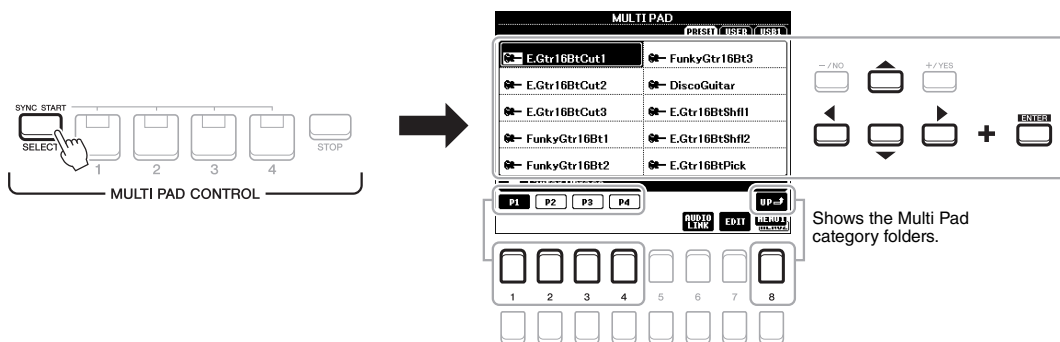
Multi Pads are grouped in Banks of four each. The instrument features a variety of Multi Pad Banks in a variety of different musical genres.

Moreover, the Audio Link Multi Pad function allows you to create a new pad with your WAVE data (Audio data) to play back during your performance.

Playing the Multi Pads

This section covers how to play back only Multi Pads. However, you can also play the Multi Pads during playback of a Style/Song to make your performance more interesting.

- 1 Press the **MULTI PAD CONTROL [SELECT]** button to call up the Multi Pad Bank Selection display.



Shows the Multi Pad category folders.

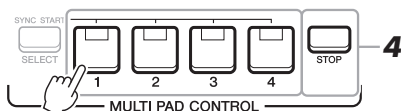
- 2 Move the cursor to the desired bank by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

You can call up other pages by using the [1 ▲] – [7 ▲] buttons that correspond to “P1, P2...” in the display or by pressing the MULTI PAD CONTROL [SELECT] button repeatedly.

Press the [8 ▲] (UP) button to call up the next higher level folder to which the Multi Pads are categorized.

- 3 Press any of the MULTI PAD CONTROL [1] – [4] buttons to play a Multi Pad phrase.

The corresponding phrase for the button starts playing back in its entirety at the currently set tempo. You can play up to four Multi Pads at the same time.



NOTE

There are two types of Multi Pad data. Some types will play back once and stop when they reach to the end. Others will be played back repeatedly (loop).

NOTE

Pressing the pad during its playback will stop playing and begin playing from the top again.

4 Press the [STOP] button to stop playback of the Multi Pad(s).

If you want to stop specific pads, simultaneously hold down the [STOP] button and press the pad(s) you wish to stop.

About the lamp status of the MULTI PAD CONTROL [1] – [4] buttons

- **Green:** Indicates that the corresponding pad contains data (phrase).
- **Red:** Indicates that the corresponding pad is playing back.
- **Red (flashing):** Indicates that the corresponding pad is in standby (Synchro Start; see below).
- **Off:** Indicates the corresponding pad contains no data and cannot be played.

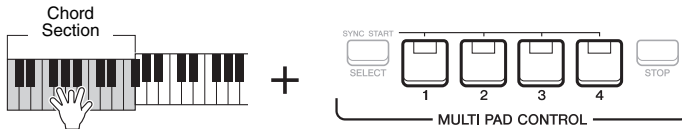
NOTE

- While the Style or Song is playing back, pressing the Multi Pad button starts playback at the top of the next measure. When the Style or Song is stopped, pressing the Multi Pad button starts playback immediately.
- While the Style or Song is playing back, pressing the STYLE CONTROL [START/STOP] or SONG [■] (STOP) button also stops playback of the Multi Pad(s). While both the Style and Song is playing back, pressing the SONG [■] (STOP) button stops playback of the Song, Style and Multi Pad(s).

Using Chord Match

When the [ACMP] or LEFT part is on, Multi Pad phrases automatically change the pitch to match the chord you play in the chord section.

Play the chord in the chord section before/after pressing any of the Multi Pads.



NOTE

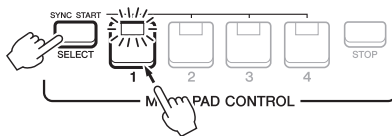
- Some Multi Pads are not affected by Chord Match.
- The Multi Pads categorized in the "DJ Phrase" folder are specially created for DJ Styles (page 46), and only the root key can be changed.

Using the Multi Pad Synchro Start Function

You can start Multi Pad playback by playing the keyboard or by starting Style playback.

1 While holding the MULTI PAD CONTROL [SELECT] button, press the desired button or buttons from [1] – [4].

The corresponding buttons flash in red, indicating the standby status.



NOTE

To cancel the standby status of the selected Pad, carry out the same operation, or simply press the [STOP] button to cancel the status of all Pads.

2 Start playback of the Multi Pad.

- When [ACMP] is off, press any note, or play back a Style.
- When [ACMP] is on, play a chord in the chord section, or play back a Style.

If you put a Multi Pad in standby during Style or Song playback, pressing any note (when [ACMP] is off) or playing a chord in the chord section (when [ACMP] is on) will start Multi Pad playback at the top of the next measure.

NOTE

When two or more Multi Pads are in the standby status, pressing any one of them starts simultaneous playback of all of them.

Creating a Multi Pad with WAVE files (Audio Link Multi Pad)

You can create a new Multi Pad by making links with WAVE files in the USB flash drive to each of the Multi Pad. The WAVE files can be data you've recorded on this instrument (page 69) as well as commercially available ones. Multi Pads to which WAVE files have been linked are called Audio Link Multi Pads. The new Audio Link Multi Pads can be saved to the USER drive or USB flash drive.

- 1 Connect the USB flash drive containing the WAVE files to the [USB TO DEVICE] terminal.
- 2 Press the MULTI PAD CONTROL [SELECT] button to call up the Multi Pad Bank Selection display.
- 3 Press the [6 ▼] (AUDIO LINK) button to call up the AUDIO LINK MULTI PAD display.

A confirmation message may appear here. If so, follow the on-display instructions.

NOTE

Audio Link Multi Pads can neither be created nor played back during playback, recording standby or recording of audio files.

NOTE

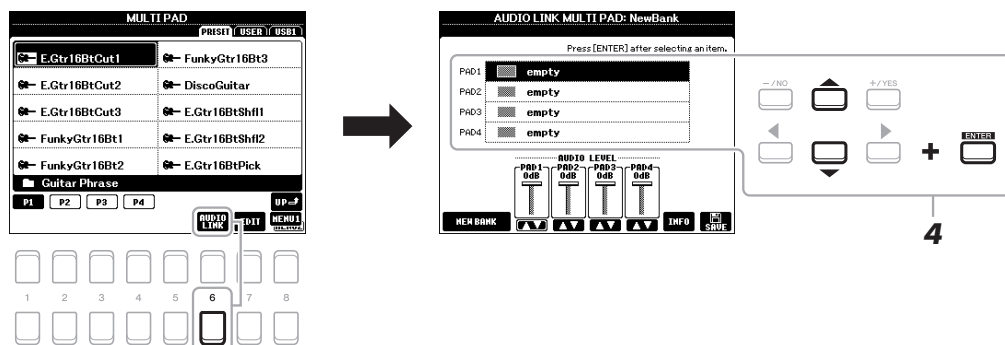
Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

NOTE

A WAVE file cannot be linked to a MIDI Multi Pad.



- 4 Select the desired Pad by using the Cursor buttons [▲][▼], then press the [ENTER] button.
The WAVE File Selection display appears.
- 5 Move the cursor to the desired WAVE file by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

To confirm the information of the selected WAVE file

By pressing [6 ▼] (INFO) button in the WAVE File Selection display, you can confirm the information (title name, bit rate and sample rate, etc.). Press one of the [7 ▲▼]/[8 ▲▼] (OK) buttons to close it.

- 6 Press the [EXIT] button to return to the AUDIO LINK MULTI PAD display.

To confirm the path of the selected WAVE file

By using the [7 ▲▼] (INFO) buttons in the AUDIO LINK MULTI PAD display, you can confirm the path. Use the [7 ▲▼]/[8 ▲▼] (OK) buttons to close it.

NOTE

If an Audio Link Multi Pad has been selected when you press the [6 ▼] (AUDIO LINK) button in step 3, the links made for the selected Pad appear. In order to create a new Pad, make sure to press one of the [1 ▲▼]/[2 ▲▼] (NEW BANK) buttons. Otherwise, you are simply re-selecting the link in the selected Pad.

7 If you want to link other WAVE files to other pads, repeat steps 4 to 6.

8 If desired, adjust the volume of each WAVE file by using the [3 ▲▼] – [6 ▲▼] buttons.

By pressing the desired MULTI PAD CONTROL [1] – [4] button, you can adjust the volume while playing the Multi Pad phrase.

9 Save the settings as a Multi Pad Bank.

9-1 Press one of the [8 ▲▼] (SAVE) buttons in the AUDIO LINK MULTI PAD display to call up the Multi Pad Bank Selection display.

9-2 Save the settings as a bank file by following the instructions on page 26.

10 Press the [EXIT] button to check the new Audio Link Multi Pad in the Multi Pad Bank Selection display.

The newly created Audio Link Multi Pad is marked with “Audio Link” at the upper left of the file name.

If you want to change the Link setting:

Select the desired Audio Link Multi Pad, then carry out the same operations as in steps 3 to 10.

NOTICE

The setting will be lost if you select another Audio Link Multi Pad or turn the power to the instrument off without carrying out the Save operation.

Playing the Audio Link Multi Pads

You can play the Multi Pad to which the WAVE file is assigned by selecting them in the USER or USB tab of the Multi Pad Bank Selection display. Although you can play them via the same operations in page 74, note the following limitations.

- Make sure to connect the USB flash drive including the corresponding WAVE files.
- Automatic repeat playback is not available.
- Only one Pad can be played back at once.
- Chord Match cannot be applied.

NOTE

Audio files (WAVE files) take a slightly longer time than MIDI files to load.

NOTE

When the link to the WAVE file is cut (for example, when not connecting the USB flash drive which includes the corresponding WAVE files, etc.), a “Not Found!” message is indicated above the Pad name.

Advanced Features

Refer to the Reference Manual on the website, **Chapter 5**.



Creating Multi Pads (Multi Pad Creator):

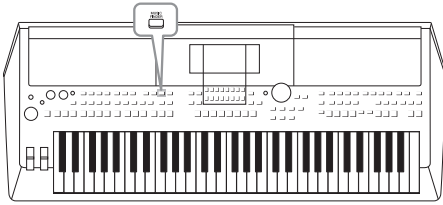
[FUNCTION] → MENU 2 → MULTI PAD CREATOR → [ENTER]

Editing Multi Pads:

Multi Pad Bank Selection display → [7 ▼] (EDIT)

Music Finder

– Calling Up Ideal Panel Setups for Your Performance –



This feature helps you call up the panel settings ideal for the music you want to play simply by selecting a Music Finder “Record,” which includes Voice and Style settings. If you want to play a certain piece of music but don’t know which Style and Voice settings would be appropriate, you can search for relevant Records by the title of the piece.

Moreover, by registering the Song, audio and Style file saved in various locations into Music Finder, you can easily call up the desired file from the corresponding Record.

Selecting the Desired Record (Panel Settings)

1 Press the [MUSIC FINDER] button to call up the MUSIC FINDER display.

As necessary, select the tab by using the TAB [◀][▶] buttons.

- **ALL**.....All Music Finder Records
- **FAVORITE**.....Favorite Records you’ve added (for details, refer to the Reference Manual on the website)
- **SEARCH 1, 2**Search result (page 79)

Each entry is called a “Record.” This shows the song titles (MUSIC) and information of the Styles included.

MUSIC FINDER			
NUMBER OF RECORDS:123		J= 120	
MUSIC	STYLE	BEAT	TEMPO
A Musical Joke		4/4	124
Aloha With Me		4/4	72
Aida Triumph March		4/4	112
Air On The G String		4/4	69
Air On The G String		4/4	68
Air On The G String	ElectroStep	4/4	68
Aloha Oe		4/4	102
Amapola	JazzPop	4/4	138
Amapola	Jig	4/4	112
Amazing Grace	(SONG)		
Amboos Polka		4/4	116
American Patrol	SaturdayNight	4/4	186
An Der Schonen Blauen Donau	Bhajan	3/4	174

2 Use the Cursor buttons [▲][▼] to select the desired Record.

Simultaneously press the Cursor buttons [▲]and [▼] to move the cursor to the first Record.

The panel settings in the Record are called up. When the Record including the Style name is selected, the [ACMP] and [SYNC START] buttons are turned on and the corresponding Style is called up. This lets you start Style playback immediately.

Sorting the Records

Press one of the [1 ▲▼] (SORT) buttons in the MUSIC FINDER display to call up the sort setting window. Then, press one of the [1 ▲▼]/[2 ▲▼] (SORT BY) buttons repeatedly if necessary to change how the Records are sorted: by MUSIC (music piece), STYLE, BEAT or TEMPO. Press one of the [3 ▲▼]/[4 ▲▼] (SORT ORDER) buttons to alternate the order, ASCENDING or DESCENDING. Press the [EXIT] button to close the sort setting window.

3 Start playback of the Style by specifying the chords in the chord section.

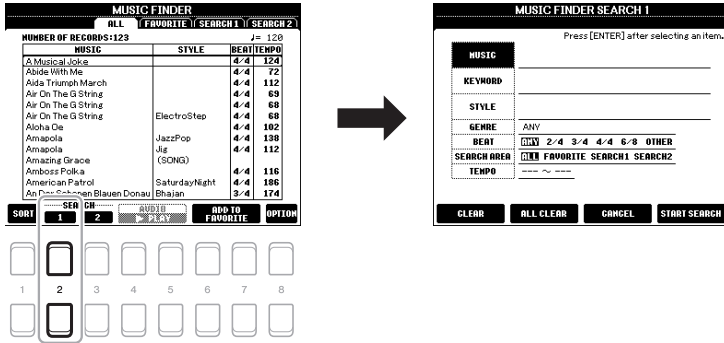
To avoid changing the tempo during Style playback when selecting another Record

Press one of the [8 ▲▼] (OPTION) buttons in the MUSIC FINDER display to call up the OPTION MENU window. Press one of the [3 ▲▼]/[4 ▲▼] (STYLE TEMPO) buttons to set the “STYLE TEMPO” to “HOLD” or “LOCK.” When set to “LOCK,” the tempo will be locked while stopping as well as playing. If you want to reset the tempo every time you select another Record, set to “RESET.” Press the [EXIT] button to close the OPTION MENU window.

Searching for Records (Panel Settings)

You can search the Records by specifying a song title or keyword, using the Search function of the Music Finder.

- In the MUSIC FINDER display, press one of the [2 ▲▼] (SEARCH 1) buttons to call up the MUSIC FINDER SEARCH 1 display.



- Enter the search criteria.

Select the search criteria to enter by using the Cursor buttons [▲][▼], then press the [ENTER] button.

MUSIC	Calls up the Character Entry window (page 30) to enter the song title. To clear the entered title, press one of the [1 ▲▼]/[2 ▲▼] (CLEAR) buttons.	
KEYWORD	Calls up the Character Entry window (page 30) to enter the keyword. To clear the entered keyword, press one of the [1 ▲▼]/[2 ▲▼] (CLEAR) buttons.	
STYLE	Calls up the Style Selection display (page 45). Select the Style by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button. To return to the SEARCH 1 display, press the [EXIT] button. To clear the entered Style name, press one of the [1 ▲▼]/[2 ▲▼] (CLEAR) buttons.	
GENRE	Calls up the GENRE window to select the desired music genre by using the [3 ▲▼] – [5 ▲▼] buttons. To return to the SEARCH 1 display, press the [EXIT] button.	
BEAT	Specifies the time signature for the search by using the Cursor buttons [◀][▶]. All beat settings are included in the search if you select ANY.	
SEARCH AREA	Selects a specific location (the tab of the upper part of the MUSIC FINDER display) for searching.	
TEMPO	Calls up the TEMPO window to set the range of the tempo you want to use for the search. Use the [3 ▲▼]/[4 ▲▼] buttons to set the minimum tempo value (FROM), and the [5 ▲▼]/[6 ▲▼] buttons to set the maximum tempo value.	
[1 ▲▼]/ [2 ▲▼]	CLEAR	Clears the entered song title, keyword, and the selected Style.
[3 ▲▼]/ [4 ▲▼]	ALL CLEAR	Clears all entered search criteria.

NOTE

If you want to input two or more keywords, insert a comma between each word.

NOTE

If you select a beat of 2/4 or 6/8, a Style suitable for performing a song in 2/4 and 6/8 beat can be searched, but the actual Style is created by using a 4/4 beat.

NOTE

To cancel searching, press one of the [5 ▲▼]/[6 ▲▼] (CANCEL) buttons.

3 Press one of the [7 ▲▼]/[8 ▲▼] (START SEARCH) buttons to start the search.

After the Search is completed, the resulting Records appear in the SEARCH 1 tab of the MUSIC FINDER display. If no Records are listed, try steps 1 – 3 again with another song title or keyword.

4 Use the Cursor buttons [▲][▼] to select the desired Record.

5 Start playback of the Style by specifying the chords in the chord section.

NOTE

If you want to maintain the current search results and start another search, press one of the [3 ▲▼] (SEARCH 2) buttons in step 1. (The current search Records will remain in the SEARCH 1 tab.)

Downloading Records (Panel Settings) from the Website

As a factory default, some sample Records are provided in the Music Finder. To use the Music Finder function more conveniently and effectively, we recommend that you download the Records from the Yamaha website, and load them to this instrument.

1 On the computer, access the following website and download the Music Finder file (***.mfd) to the USB flash drive connected to a computer.

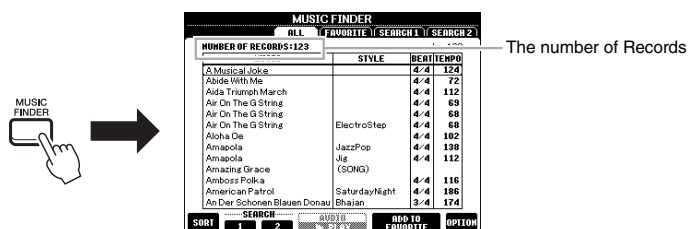
<http://download.yamaha.com/>

2 Connect the USB flash drive which contains the Music Finder file (***.mfd) to the [USB TO DEVICE] terminal of the instrument.

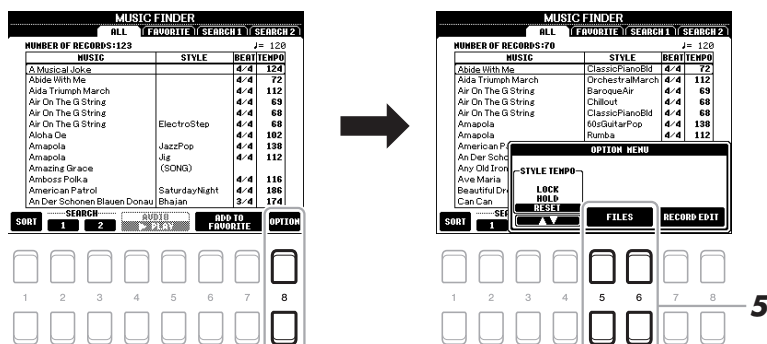
3 Press the [MUSIC FINDER] button to call up the MUSIC FINDER display.

NOTE

Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.



4 Press one of the [8 ▲▼] (OPTION) buttons in the MUSIC FINDER display to call up the OPTION MENU window.



- 5 Press one of the [5 ▲▼]/[6 ▲▼] (FILES) buttons to call up the File Selection display.
- 6 Select the Music Finder file in the USB flash drive by pressing the Cursor buttons [▲][▼][◀][▶] to call up a message prompting you to select REPLACE or APPEND.
- 7 Use the [6 ▲▼] (APPEND) buttons if you want to add Records of the selected Music Finder file, or press the [7 ▲▼] (REPLACE) button if you want to replace all Records with the new ones.
- 8 Use the [7 ▲▼] (OK) buttons in response to the confirmation message.
- 9 Use the [7 ▲▼] (YES) buttons to complete of the operation.
By checking the number of Records in the right lower corner of the display, you can confirm the Records have been appended.

NOTE

Even after appending or replacing the Music Finder Records, you can reset them to their original factory settings by selecting the "MusicFinderPreset" file in PRESET tab of step 6.

Registering a Song, Audio or Style File to a Record

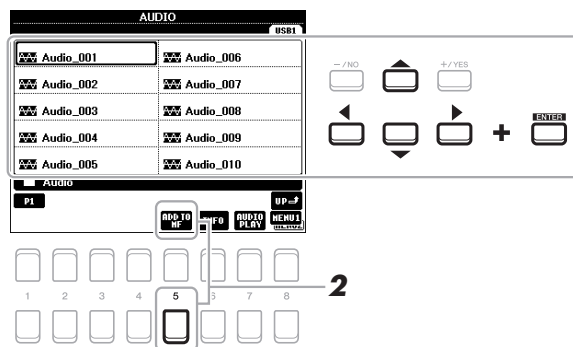
By registering Song, audio or Style files in various locations (PRESET, USER and USB) into Music Finder, you can easily call up your favorite files.

- 1 In the Song, Audio or Style Selection display, select the desired file.

For instructions on Songs, refer to page 59; for audio, page 69; and for Styles, page 45.

NOTE

- If you want to register files in the USB flash drive, connect the USB flash drive containing the data to the [USB TO DEVICE] terminal.
- Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.



- 2 Press the [5 ▼] (ADD TO MF) button to call up the MUSIC FINDER RECORD EDIT display.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

NOTE

For details on the MUSIC FINDER RECORD EDIT display, refer to the Reference Manual on the website.

3 Press one of the [7 ▲▼]/[8 ▲▼] (OK) buttons to register the file.

4 Check that the registered Record is shown in the MUSIC FINDER display.

In the STYLE column of the Record, the Song is registered as “(SONG)”, the audio file is as “(AUDIO)” and Style is registered its Style name.

NOTE

To cancel the operation, press one of the [5 ▲▼]/[6 ▲▼] (CANCEL) buttons.

Calling up the Song, Audio or Style registered to Music Finder

You can call up the registered Song, Audio or Style in the same way as done in the sections “Selecting the Desired Record” (page 78) and “Searching for Records” (page 79).

The selected file can be played back as follows.

- **Song:** Press the SONG CONTROL [▶/||] (PLAY/PAUSE) button or play the keyboard. To stop playback, press the SONG CONTROL [■] (STOP) button.
- **Audio:** Press the [4 ▲▼]/[5 ▲▼] (▶ PLAY) button in the MUSIC FINDER display. To stop playback, press the [4 ▲▼]/[5 ▲▼] (■ STOP) button.
- **Style:** Specify the chords with your left hand and play the melody with your right hand. To stop playback, press the STYLE CONTROL [START/STOP] button.

NOTE

If you want to play back a Song, audio or Style file in the USB flash drive that has been registered as a Record, make sure to connect the same USB flash drive to the [USB TO DEVICE] terminal.

NOTE

When searching for Songs or audio files (page 79), it is necessary to set the search criteria as follows.
STYLE: Blank
BEAT: ANY
TEMPO: “---” - “---”

Advanced Features

Refer to the Reference Manual on the website, **Chapter 6**.



Creating a set of favorite Records:

[MUSIC FINDER] → TAB [◀|▶] ALL, SEARCH 1 or SEARCH 2 → [6 ▲▼]/[7 ▲▼] (ADD TO FAVORITE)

Editing Records:

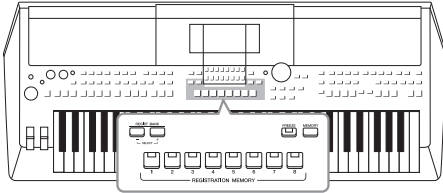
[MUSIC FINDER] → [8 ▲▼] (OPTION) → [7 ▲▼]/[8 ▲▼] (RECORD EDIT)

Saving the Record as a single file:

[MUSIC FINDER] → [8 ▲▼] (OPTION) → [5 ▲▼]/[6 ▲▼] (FILES)

Registration Memory

– Saving and Recalling Custom Panel Setups –



The Registration Memory function allows you to save (or “register”) virtually all panel settings to a Registration Memory button, and then instantly recall your custom panel settings by simply pressing a single button. The registered settings for eight Registration Memory buttons should be saved as a single Bank (file).

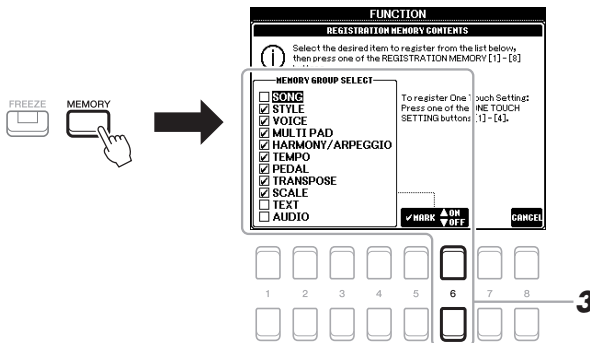
Registering Your Panel Setups

1 Make the desired panel settings, such as those for Voices, Styles and Effects.

For information on the panel settings that can be registered with the Registration Memory function, refer to the Registration section of the “Parameter Chart” in the Data List on the website.

2 Press the [MEMORY] button in the REGISTRATION MEMORY section.

The display for selecting the groups to be registered appears.



3 Determine the groups you want to register.

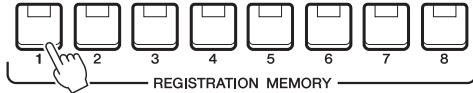
Select the desired item by using the Cursor buttons [▲][▼], then enter or remove the checkmark by using the [6 ▲] (MARK ON)/[6 ▼] (MARK OFF) buttons.

To cancel the operation, press one of the [8 ▲▼] (CANCEL) buttons.

NOTE

You can also use the Data dial to select, and the [-/NO]/[+/YES] buttons to enter or remove checkmarks.

- 4** Press one of the REGISTRATION MEMORY [1] – [8] buttons to which you wish to memorize the panel setup.



The memorized button becomes red, which indicates the number button contains data and its number is selected.

About the lamp status

- **Red:** Data registered and currently selected
- **Green:** Data registered but not currently selected
- **Off:** No data registered

NOTICE

If you select the button whose lamp is lit in red or green here, the panel setup previously memorized to the button will be erased and replaced by the new settings.

- 5** Register various panel setups to other buttons by repeating steps 1 – 4.

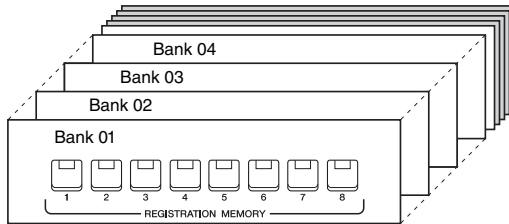
The registered panel setups can be recalled by simply pressing the desired number button.

NOTE

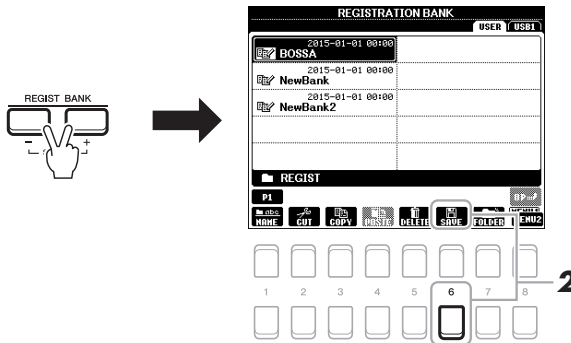
The panel setups registered in the numbered buttons are maintained even when you turn off the power. If you want to delete all the eight current panel setups, turn the power on while holding the B5 key (right-most B key on the keyboard).

Saving the Registration Memory as a Bank file

You can save all eight registered panel setups as a single Registration Memory Bank file.



- 1** Press the REGIST BANK [+] and [-] buttons simultaneously to call up the Registration Bank Selection Display.



- 2** Press the [6 ▼] (SAVE) button to save the Bank file. For instructions on saving, refer to page 26.

NOTE

Make sure that MENU 2 is shown at the bottom right corner of the display (page 24).

Recalling a Registered Panel Setup

The saved Registration Memory Bank files can be recalled by using the REGIST BANK [-]/[+] buttons or the following procedure.

- 1 Press the REGIST BANK [+] and [-] buttons simultaneously to call up the REGISTRATION BANK Selection display.
- 2 Move the cursor to the desired Bank by the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

Confirming the Registration Memory Information

In the REGISTRATION BANK Selection display, press the [6 ▼] (INFO) button to call up the Information window, showing which Voices and Style are memorized to the [1] – [8] buttons of a Registration Memory Bank.

NOTE

Make sure that MENU 1 is shown at the bottom right corner of the display (page 24).

By using the TAB [◀][▶] buttons, you can switch between the two Information display pages: information for the Registration Memory [1] – [4] buttons and information for the [5] – [8] buttons.

NOTE

If a Voice part name (R1/R2/L) is grayed out, this indicates that the corresponding Voice part is turned off when pressing the REGISTRATION MEMORY [1] – [8] buttons.

To close the window, press the [8 ▲▼] (CLOSE) button.

- 3 Press one of the green-lit numbered buttons ([1] – [8]) in the Registration Memory section.

NOTE

- When recalling the setups including file selection of Song, Style, text, etc. from a USB flash drive, make sure that the appropriate USB flash drive including the registered Song/Style is connected into the [USB TO DEVICE] terminal.
- Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 91.

NOTE

Turning the [FREEZE] button on can disable recall of specific item(s). For instructions, refer to the Reference Manual on the website.

7

Advanced Features

Refer to the Reference Manual on the website, **Chapter 7**.



Disabling recall of specific items (Freeze):

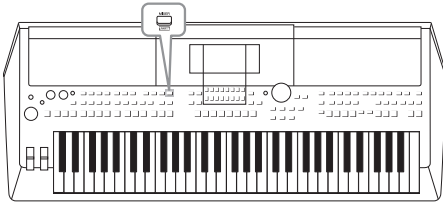
[FUNCTION] → MENU 1 → REGIST SEQUENCE/FREEZE
→ [ENTER] → FREEZE

Calling up Registration Memory numbers in order (Registration Sequence):

[FUNCTION] → MENU 1 → REGIST SEQUENCE/FREEZE
→ [ENTER] → REGISTRATION SEQUENCE

Mixing Console

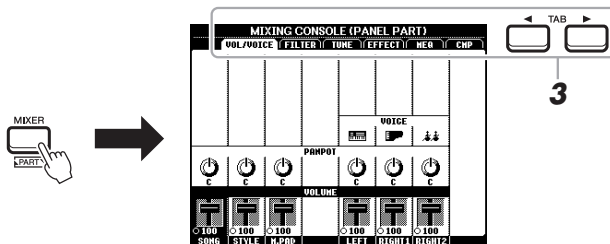
– Editing the Volume and Tonal Balance –



The Mixing Console gives you intuitive control over aspects of the keyboard parts and Style/Song channels, including volume balance and the timbre of the sounds. It lets you adjust the levels and stereo position (pan) of each Voice to set the optimum balance and stereo image, and lets you set how the effects are applied.

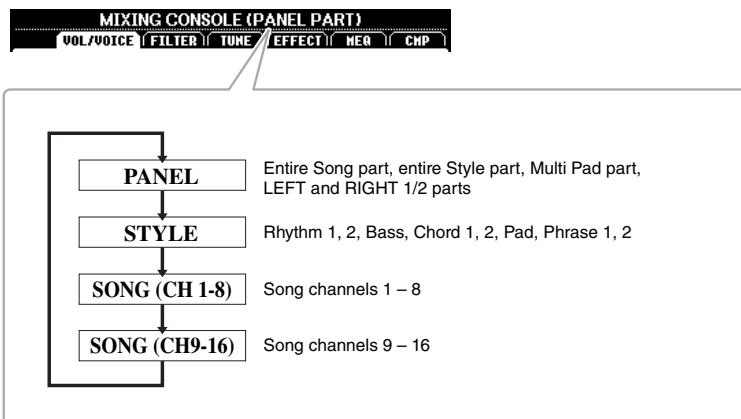
Basic Procedure

- 1 Press the [MIXER] button to call up the MIXING CONSOLE display.



- 2 Press the [MIXER] button repeatedly to call up the MIXING CONSOLE display for the relevant parts.

The part name is indicated at the top of the display.



 NEXT PAGE

3 Use the TAB [◀][▶] buttons to call up the desired page.

For details about each page, refer to the Reference Manual on the website.

- **VOL/VOICE**.....Changes the Voice for each part and adjusts panning and volume for each part.
- **FILTER**.....Adjusts the Harmonic Content (resonance) and sound brightness.
- **TUNE**Pitch-related settings (tuning, transpose, etc.).
- **EFFECT**.....Selects effect type and adjusts its depth for each part.
- **MEQ**Selects the master equalizer type applied to the entire sound and edits the related parameters.
- **CMP**This is the Master Compressor setting which determines the dynamics of the overall sound.

NOTE

The MEQ and CMP settings are not applied to audio playback or the metronome sound.

4 Use the Cursor buttons [▲][▼][◀][▶] to select a parameter, then use the [1 ▲▼] – [8 ▲▼] buttons to set the value for each part.

5 Save your Mixing Console settings.

- **To save the PANEL display settings:**
Register them to Registration Memory (page 83).
- **To save the STYLE display settings:**
Save them as Style data. If you want to recall the settings for future use, select the Style file saved here.
 1. Call up the operation display.
[FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶]
STYLE CREATOR → [ENTER]
 2. After the message asking whether you want to edit the existing Style or create a new Style appears, press one of the [5 ▲▼]/[6 ▲▼] (CURRENT STYLE) buttons.
 3. Press the [EXIT] button to close the REC CHANNEL display.
 4. Press one of the [8 ▲▼] (SAVE) buttons to call up the Style Selection display, then save it (page 26).
- **To save the SONG display settings:**
First register the edited settings as part of the Song data (SETUP), then save the Song. If you want to recall the settings for future use, select the Song file saved here.
 1. Call up the operation display.
[FUNCTION] → TAB [▶] MENU 2 → Cursor buttons [▲][▼][◀][▶]
SONG CREATOR → [ENTER]
 2. Use the TAB [◀][▶] buttons to select the SETUP tab.
 3. Press the [ENTER] button.
 4. Press one of the [8 ▲▼] (SAVE) buttons to call up the Song Selection display, then save it (page 26).

Advanced Features

Refer to the Reference Manual on the website, **Chapter 8**.



Connections

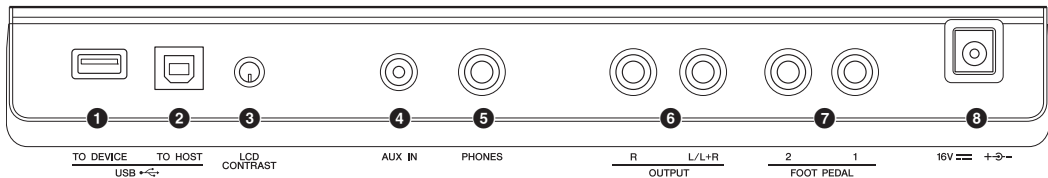
– Using Your Instrument with Other Devices –

This chapter covers the connectors on the Rear Panel of this instrument.

CAUTION

Before connecting the instrument to other electronic components, turn off the power of all the components. Also, before turning any components on or off, make sure to set all volume levels to minimum (0). Otherwise, damage to the components, electrical shock, or even permanent hearing loss may occur.

Rear Panel

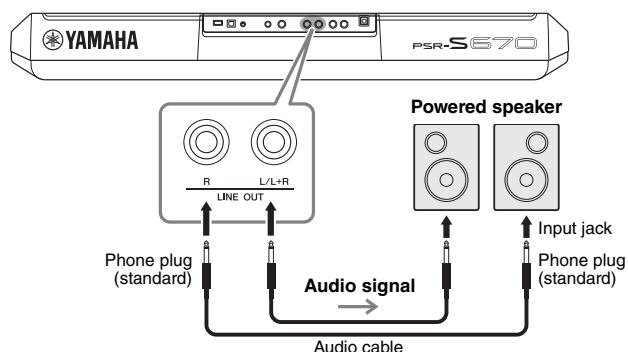


- ❶ [USB TO DEVICE] terminal Page 91
- ❷ [USB TO HOST] terminal..... Page 93
- ❸ [LCD CONTRAST] knob Page 16
- ❹ [AUX IN] jack Page 89
- ❺ [PHONES] jack..... Page 16
- ❻ OUTPUT [L/L+R]/[R] jacks Page 89
- ❼ FOOT PEDAL [1]/[2] jacks..... Page 90
- ❽ DC IN jack..... Page 14

Connecting Audio Devices (OUTPUT [L/L+R]/[R] jacks, [AUX IN] jack)

Using an External Stereo System for Playback

You can connect a stereo system to amplify the instrument's sound by using the OUTPUT [L/L+R]/[R] jacks.



You can use the instrument's [MASTER VOLUME] dial to adjust the volume of the sound output to the external device.

NOTE

Use audio cables and adaptor plugs having no (zero) resistance.

NOTE

Use only the [L/L+R] jack for connection with a monaural device.

NOTICE

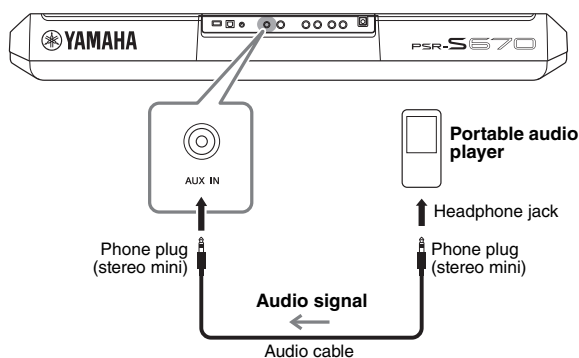
To avoid possible damage, first turn on the power to the instrument, then to the external device. When turning off the power, first turn off the power to the external device, then to the instrument. Since this instrument's power may automatically be turned off due to the Auto Power Off function (page 15), turn off the power to the external device, or disable Auto Power Off when you do not intend to operate the instrument.

NOTICE

Do not route the output from the OUTPUT jacks to the [AUX IN] jack. If you make this connection, the signal input at the [AUX IN] jack is output from the [OUTPUT] jacks and then back again, creating a feedback loop that could make normal performance impossible, and may even damage the equipment.

Playing a Portable Audio Player with the Built-in Speakers

You can connect the headphone jack of a portable audio player to the instrument's [AUX IN] jack, letting you hear the sound of that portable audio player through the built-in speakers of the instrument.



The input signal from the [AUX IN] jack is affected by the setting of the instrument's [MASTER VOLUME] dial, and the volume balance with other sounds played on this keyboard can be adjusted from the BALANCE display (page 54).

NOTICE

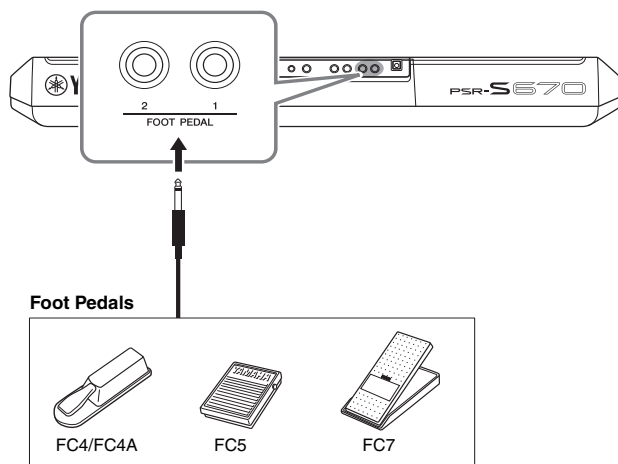
To avoid damage to the devices, first turn on the power to the external device, then to the instrument. When turning off the power, first turn off the power to the instrument, then to the external device.

NOTE

You can control the input volume from the [AUX IN] jack by using the LIVE CONTROL knobs. For instructions on how to assign the functions to the knobs, refer to page 38.

Connecting a Footswitch/Foot Controller (FOOT PEDAL jacks)

The FC4/FC4A or FC5 footswitches and the FC7 foot controller (sold separately) can be connected to one of the FOOT PEDAL jacks. A footswitch can be used for switching functions on and off, while a foot controller controls continuous parameters such as volume.



NOTE

Do not connect or disconnect the pedal when the power is on.

By default, each jack features the following function.

- **FOOT PEDAL [1]** Switches sustain on or off. Connect an FC4/FC4A or FC5 footswitch to this jack.
- **FOOT PEDAL [2]** Controls volume. Connect an FC7 foot controller to this jack.

You can also change the function assignments to the pedals as desired.

For information on functions that can be assigned to the pedals, refer to the Reference Manual on the website.

• Example: Controlling Song Start/Stop by footswitch

Connect a footswitch (FC4/FC4A or FC5) to one of the FOOT PEDAL jacks.

To assign the function to the connected pedal, press the [1 ▲▼] (SONG PLAY/ PAUSE) button in the operation display: [FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶] CONTROLLER → [ENTER] → TAB [▶] FOOT PEDAL.

Advanced Features

Refer to the Reference Manual on the website, **Chapter 9**.



Assigning specific functions to each foot pedal:

[FUNCTION] → MENU 1 → CONTROLLER → [ENTER] → FOOT PEDAL

Connecting USB Devices ([USB TO DEVICE] terminal)

You can connect a USB flash drive or a USB wireless LAN adaptor (sold separately) to the [USB TO DEVICE] terminal. This lets you save data you've created on the instrument to the USB flash drive (page 26). You can also connect the instrument to a smart device such as iPad via wireless LAN (page 93).

Precautions when using the [USB TO DEVICE] terminal

This instrument features a built-in [USB TO DEVICE] terminal. When connecting a USB device to the terminal, be sure to handle the USB device with care. Follow the important precautions below.

NOTE

For more information about the handling of USB devices, refer to the owner's manual of the USB device.

Compatible USB devices

- USB flash drive
- USB wireless LAN adaptor (UD-WL01; may not be available depending on your area)

Other USB devices such as a USB hub, computer keyboard or mouse cannot be used.

The instrument does not necessarily support all commercially available USB devices. Yamaha cannot guarantee operation of USB devices that you purchase. Before purchasing a USB device for use with this instrument, please visit the following web page:

<http://download.yamaha.com/>

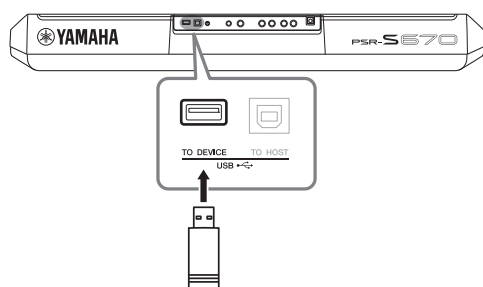
Although USB devices 1.1 to 3.0 can be used on this instrument, the amount of time for saving to or loading from the USB device may differ depending on the type of data or the status of the instrument.

NOTE

The rating of the [USB TO DEVICE] terminal is a maximum of 5V/500mA. Do not connect USB devices having a rating above this, since this can cause damage to the instrument itself.

Connecting a USB device

When connecting a USB device to the [USB TO DEVICE] terminal, make sure that the connector on the device is appropriate and that it is connected in the proper direction.



NOTICE

- Avoid connecting or disconnecting the USB device while executing playback/recording and file management operations (such as Save, Copy, Delete and Format), or when accessing the USB device. Failure to observe this may result in "freezing" of the operation of the instrument or corruption of the USB device and the data.
- When connecting then disconnecting the USB device (and vice versa), make sure to wait a few seconds between the two operations.

NOTE

- When connecting a USB cable, make sure that the length is less than 3 meters.

Using a USB Flash Drive

By connecting the instrument to a USB flash drive, you can save data you've created to the connected device, as well as read data from the connected device.

Maximum number of USB flash drives allowed

Only one USB flash drive can be connected to the [USB TO DEVICE] terminal.

Formatting a USB flash drive

You should format the USB flash drive only with this instrument (page 92). A USB flash drive formatted on another device may not operate properly.

NOTICE

The format operation overwrites any previously existing data. Make sure that the USB flash drive you are formatting does not contain important data.

To protect your data (write-protect)

To prevent important data from being inadvertently erased, apply the write-protect provided with each USB flash drive. If you are saving data to the USB flash drive, make sure to disable write-protect.

Turning off the instrument

When turning off the instrument, make sure that the instrument is NOT accessing the USB flash drive by playback/recording or file management (such as during Save, Copy, Delete and Format operations). Failure to do so may corrupt the USB flash drive and the data.

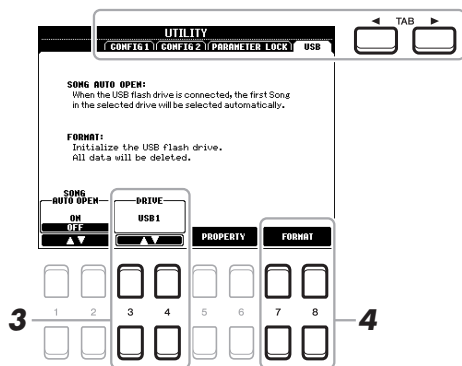
Formatting a USB Flash Drive

When a USB flash drive is connected, a message may appear prompting you to format the USB flash drive. If so, carry out the format operation.

1 Connect a USB flash drive for formatting into the [USB TO DEVICE].

2 Call up the operation display.

[FUNCTION] → TAB [◀] MENU 1 → Cursor buttons [▲][▼][◀][▶]
UTILITY → [ENTER] → TAB [▶] USB



3 If necessary, use the [3 ▲▼]/[4 ▲▼] buttons to select the desired drive (partition) in the USB flash drive to be formatted.

If the USB flash drive has multiple drives (partitions), the indications USB 1 and USB 2 will be displayed depending on the number of the drives.

4 Press the [7 ▲▼]/[8 ▲▼] (FORMAT) button to format the USB flash drive.

5 Press the [+ / YES] button to actually carry out the Format operation.

NOTICE

The format operation deletes any previously existing data. Make sure that the USB flash drive you are formatting does not contain important data.

NOTE

Playback of Style, Song and Multi Pads will stop when formatting is started.

Confirming the remaining memory

You can check the remaining memory of the connected USB flash drive by pressing the [5 ▲▼]/[6 ▲▼] (PROPERTY) button.

NOTE

To cancel the Format operation, press the [- / NO] button.

Selecting Files in the USB Flash Drive

By pressing the [USB] button, you can access files which are saved in the USB flash drive.

Select the desired category by using the Cursor buttons [▲][▼][◀][▶] and the [ENTER] button, then select the desired files.

Connecting to an iPhone/iPad ([USB TO DEVICE], [USB TO HOST] terminals)

You can use a smart device, such as an iPhone or iPad, with the instrument for a variety of musical purposes by connecting it to the instrument. By using application tools on your smart device, you can take advantage of convenient functions and get more enjoyment out of this instrument.

You can make connections by one of the following methods.

- Connect to the [USB TO DEVICE] terminal via the USB wireless LAN adaptor (UD-WL01, sold separately)
- Connect to the [USB TO HOST] terminal via the USB MIDI Interface for iPhone/iPod touch/iPad (i-UX1, sold separately), etc.

*These accessories may not be available in some areas.

For details on connections, refer to the “iPhone/iPad Connection Manual” and the Reference Manual on the website.

For information about the compatible smart devices and application tools, access the following page:

<http://www.yamaha.com/kbdapps/>

NOTICE

Do not place your iPhone/iPad in an unstable position. Doing so may cause the device to fall and result in damage.

NOTE

- Before using the [USB TO DEVICE] terminal, be sure to read “Precautions when using the [USB TO DEVICE] terminal” on page 91.
- When you use the instrument along with an application on your iPhone/iPad, we recommend that you first set “Airplane Mode” to “ON” then set “Wi-Fi” to “ON” on your iPhone/iPad in order to avoid noise caused by communication.

Connecting to a Computer ([USB TO HOST] terminal)

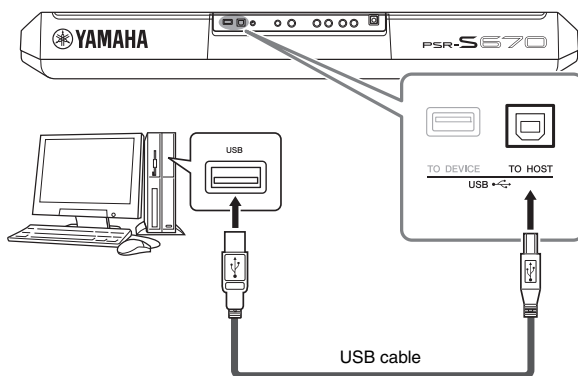
By connecting a computer to the [USB TO HOST] terminal, you can transfer data between the instrument and the computer via MIDI. For details on using a computer with this instrument, refer to the “Computer-related Operations” on the website.

NOTICE

Use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.

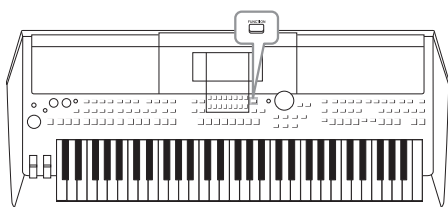
NOTE

- When using a USB cable to connect the instrument to your computer, make the connection directly without passing through a USB hub.
- The instrument will begin transmission a short time after the USB connection is made.
- For information on setting up your sequence software, refer to the owner’s manual of the relevant software.



Function

– Making Global Settings and Using Advanced Features –

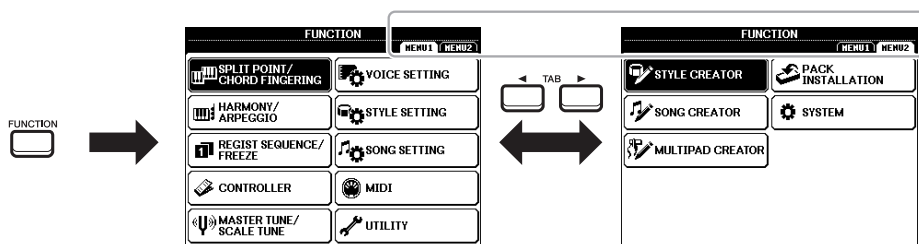


The Function menu provides a variety of convenient settings and tools for the instrument. These include general settings that affect the entire instrument, as well as detailed settings for specific functions. Also included are advanced Creator features, such as for Styles, Songs and Multi Pads.

Basic Procedure

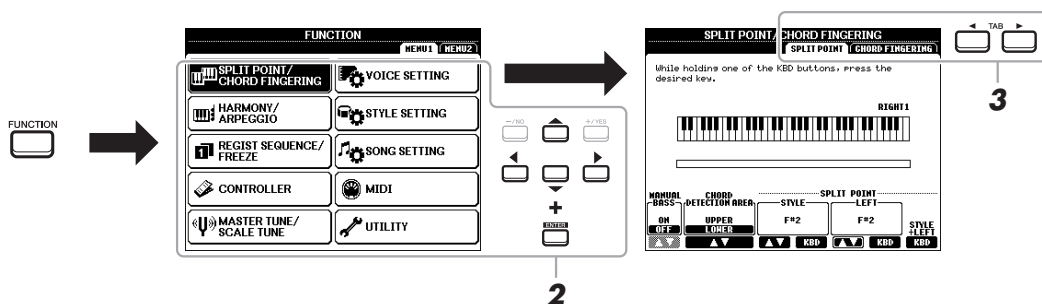
1 Call up the operation display.

[FUNCTION] → TAB [◀][▶] MENU 1/2



2 Move the cursor to the desired page by using the Cursor buttons [▲][▼][◀][▶], then press the [ENTER] button.

For information on what you can do on each page, refer to the Function List on page 95.



3 Use the TAB [◀][▶] buttons to call up the desired page.

4 Change the settings or carry out the operation.

Refer to the Function List on page 95 to see where you can find detailed information.

Function List

This list briefly explains what you can do in the displays which are called up via the [FUNCTION] button. For more information, refer to the page and chapter references indicated below.

MENU 1	Description	Owner's Manual	Reference Manual	
SPLIT POINT/CHORD FINGERING	SPLIT POINT	Determines the Split Point.	page 55	-
	CHORD FINGERING	Determines the Chord Fingering type.	page 49	Chapter 2
HARMONY/ARPEGGIO		For selecting the Harmony type or the Arpeggio type.	page 40	Chapter 1
REGIST SEQUENCE/FREEZE	REGISTRATION SEQUENCE	Determines the order for calling up Registration Memory settings when using the TAB [◀] [▶] buttons or the pedal.	-	Chapter 7
	FREEZE	Determines the setting groups (Voice, Style, etc.) that are to remain unchanged even when you call up panel setups via Registration Memory.	-	Chapter 7
CONTROLLER	FOOT PEDAL	Determines the functions assigned to the pedals.	-	Chapter 9
	KEYBOARD/PANEL	For setting the Touch Response of the keyboard, etc.	page 37, 43	Chapter 1
MASTER TUNE/SCALE TUNE	MASTER TUNE	For fine-tuning the pitch of the entire instrument in approx. 0.2 Hz steps.	page 36	Chapter 1
	SCALE TUNE	Determines the scale type and tuning of the pitch of the desired note (key) in cents.	page 36	Chapter 1
VOICE SETTING	VOICE CONTROL	For changing the detailed Voice settings.	-	Chapter 1
	VOICE SET FILTER	For disabling selection of Voice Sets (effects, etc.).		
STYLE SETTING		For making Style playback related settings such as OTS Link timing, Dynamics Control, etc.	-	Chapter 2
SONG SETTING		For making Song playback related settings such as Channel settings, Guide mode, Repeat mode, etc.	-	Chapter 3
MIDI		For making MIDI-related settings.	-	Chapter 9
UTILITY	CONFIG 1	For making general settings such as Fade in/out time, metronome sound, Tap Tempo sound, Auto Power Off.	page 15, 35, 48, 49	Chapter 10
	CONFIG 2	For making general settings such as speaker output, pop-up display time, and Arpeggio, etc.	-	Chapter 10
	PARAMETER LOCK	Determines the parameters (effect, Split Point, etc.) that are to remain unchanged when the panel setups are changed via Registration Memory, One Touch Setting, etc.	-	Chapter 10
	USB	Contains related to a connected USB flash drive, such as formatting and confirmation of memory size.	page 92	Chapter 10

MENU 2	Description	Owner's Manual	Reference Manual	
STYLE CREATOR		For creating a Style by editing the preset Style, or by recording Style channels one by one.	-	Chapter 2
SONG CREATOR		For creating a Song by editing the recorded Song or by entering events one by one.	-	Chapter 3
MULTI PAD CREATOR		For creating a Multi Pad by editing an existing preset Multi Pad, or by recording a new one.	-	Chapter 5
PACK INSTALLATION		For installing Expansion Packs for adding extra content downloaded from the website or created on your own by using the Yamaha Expansion Manager.	-	Chapter 1
SYSTEM	OWNER	For setting the Owner name, Message language, etc.	page 17	Chapter 10
	BACKUP/RESTORE	For backing up and restoring the settings and data saved in the USER drive of the instrument.	page 31	-
	SETUP FILES	For saving and recalling the specified settings of the instrument.	-	Chapter 10
	RESET	For restoring the instrument settings to their factory defaults.	-	Chapter 10
WIRELESS LAN		For making settings for connecting the instrument to a smart device, such as an iPad, via wireless LAN. This appears only when a USB wireless LAN adaptor is connected.	-	Chapter 9

Direct Access Chart

Press the [DIRECT ACCESS] button, then press one of the buttons (or move the appropriate knob, wheel or pedal) listed below to call up the desired display.

Control		Display called up with the Direct Access function					
STYLE CONTROL	[ACMP]	FUNCTION	SPLIT POINT/CHORD FINGERING	CHORD FINGERING			
	[AUTO FILL IN]		STYLE SETTING				
	[OTS LINK]						
	[BREAK]						
	INTRO [I], [II], [III]						
	MAIN VARIATION [A], [B], [C], [D]						
	ENDING/rif. [I], [II], [III]						
	[SYNC START]						
	[SYNC STOP]						
	[START/STOP]						
STYLE	STYLE category selection buttons	STYLE SETTING					
SONG CONTROL	[▶▶] (FF)	FUNCTION	SONG SETTING				
	[◀◀] (RW)						
	[▶/■] (PLAY/PAUSE)						
	[■] (STOP)						
	[REC]						
[SONG FUNCTION]	Song Selection display						
[TAP TEMPO]		UTILITY	CONFIG 1	TAP			
TEMPO	[+], [-]	FUNCTION	STYLE SETTING				
[METRONOME]			UTILITY	CONFIG 1	METRONOME		
[FADE IN/OUT]				FADE IN/OUT			
TRANSPOSE	[+], [-]	FUNCTION	CONTROLLER	KEYBOARD/PANEL	TRANSPOSE ASSIGN		
UPPER OCTAVE	[+], [-]	MIXING CONSOLE		TUNE			
MULTI PAD CONTROL	[SELECT]	MULTIPAD Selection display					
	[STOP]						
	[1], [2], [3], [4]						
[FUNCTION]	FUNCTION	MIDI					
[MIXER]		MIXING CONSOLE					
[BALANCE]							
[CHANNEL ON/OFF]							
[USB]		FUNCTION	UTILITY	USB			
[USB AUDIO PLAYER]		Audio File Selection display*					
TAB	[◀], [▶]	-					
[ENTER]		-					
[EXIT]		MAIN					
Data dial		-					
[▲], [▼], [◀], [▶]		-					
[~/NO], [~/YES]		-					
VOICE	PART SELECT [LEFT]	FUNCTION	VOICE SETTING		VOICE SET FILTER	LEFT	
	PART SELECT [RIGHT1]					RIGHT1	
	PART SELECT [RIGHT2]				RIGHT2		
	PART ON/OFF [LEFT]				VOICE CONTROL		
	PART ON/OFF [RIGHT1]						
	PART ON/OFF [RIGHT2]						
	[LEFT HOLD]		SPLIT POINT/CHORD FINGERING	SPLIT POINT			
VOICE category selection buttons	FUNCTION	VOICE SETTING					
VOICE EFFECT	[HARMONY/ARPEGGIO]	FUNCTION	HARMONY/ARPEGGIO				
	[DSP]	MIXING CONSOLE			EFFECT		
	[VARI.]				EFFECT	TYPE SELECT	
[MUSIC FINDER]		MUSIC FINDER	MUSIC FINDER SEARCH 1				
ONE TOUCH SETTING	[1], [2], [3], [4]	OTS INFORMATION					
	REGIST BANK [+], [-]	FUNCTION	REGIST SEQUENCE/FREEZE		REGISTRATION SEQUENCE		
	[FREEZE]				FREEZE		
	[MEMORY]				REGISTRATION SEQUENCE		
	[1], [2], [3], [4]				REGIST INFORMATION 1-4		
[5], [6], [7], [8]	REGIST INFORMATION 5-8						
FOOT PEDAL [1], [2]	FUNCTION	CONTROLLER	FOOT PEDAL		1, 2		
[MODULATION]	FUNCTION	CONTROLLER	KEYBOARD/PANEL	MODULATION WHEEL			
[PITCH BEND]		MIXING CONSOLE		TUNE			
LIVE CONTROL	[1], [2]	LIVE CONTROL	PARAMETER ASSIGN				
[ASSIGN]							

* This display is called up only when the USB flash drive is being connected to [USB TO DEVICE] terminal of this instrument.

Troubleshooting

Overall	
A click or pop is heard when the power is turned on or off.	This is normal. Electrical current is being applied to the instrument.
The power is automatically turned off.	This is normal and due to the Auto Power Off function. If necessary, set the parameter of the Auto Power Off function (page 15).
Noise is heard from the instrument's speakers.	Noise may be heard if a mobile phone is used near the instrument or if the phone is ringing. Turn off the mobile phone, or use it further away from the instrument.
Noise is heard from the instrument's speakers or headphones when using the instrument with the application on iPhone/iPad.	When you use the instrument along with the application on your iPhone/iPad, we recommend that you set "Airplane Mode" to "ON" on your iPhone/iPad in order to avoid noise caused by communication.
There is a slight difference in sound quality among different notes played on the keyboard.	This is normal and is a result of the instrument's sampling system.
Some Voices have a looping sound.	
Some noise or vibrato is noticeable at higher pitches, depending upon the Voice.	
The overall volume is too low or no sound is heard.	The master volume may be set too low. Set it to an appropriate level with the [MASTER VOLUME] dial.
	All keyboard parts are set to off. Use the PART ON/OFF [RIGHT 1]/[RIGHT 2]/[LEFT] button to turn it on.
	The volume of the individual parts may be set too low. Raise the volume in the BALANCE display (page 54).
	Make sure the desired channel is set to ON (pages 53, 63).
	Headphones are connected, disabling the speaker output. Unplug the headphones.
	Make sure that the Speaker setting is set to ON: [FUNCTION] → MENU 1 → UTILITY → [ENTER] → CONFIG 2.
The sound is distorted or noisy.	The volume may be turned up too high. Make sure all relevant volume settings are appropriate.
	This may be caused by certain effects or filter settings. Check the effect or filter settings and change them accordingly, referring to the Reference Manual.
Not all simultaneously played notes sound.	You are probably exceeding the maximum polyphony (page 100) of the instrument. When the maximum polyphony is exceeded, the earliest played notes will stop sounding, letting the latest played notes sound.
The keyboard volume is lower than the Song/Style playback volume.	The volume of the keyboard parts may be set too low. Raise the volume in the BALANCE display (page 54).
The Main display does not appear even when turning the power on.	This may occur if a USB flash drive has been installed to the instrument. Installation of some USB flash drives may result a long interval between turning the power on and appearance of the Main display. To avoid this, turn the power on after disconnecting the device.
Some characters of the file/folder name are garbled.	The language settings have been changed. Set the appropriate language for the file/folder name (page 17).

An existing file is not shown.	The file extension (.MID, etc.) may have been changed or deleted. Manually rename the file, adding the appropriate extension, on a computer.
	Data files with names of more than 50 characters cannot be handled by the instrument. Rename the file, reducing the number of characters to 50 or less.
Voice	
The Voice selected from the Voice Selection display does not sound.	Check whether or not the selected part is turned on (page 34). If necessary, press the appropriate PART ON/OFF button to turn the part on.
A strange "flanging" or "doubling" sound occurs. The sound is slightly different each time the keys are played.	The RIGHT 1 and RIGHT 2 parts are set to "ON," and both parts are set to play the same Voice. Turn off the RIGHT 2 part or change the Voice of one of the parts.
Some Voices will jump an octave in pitch when played in the upper or lower registers.	This is normal. Some Voices have a pitch limit which, when reached, causes this type of pitch shift.
Style	
The Style does not start even when the [START/STOP] button is pressed.	The Rhythm channel of the selected Style may not contain any data. Turn the [ACMP] button on and play left-hand section on the keyboard to sound the accompaniment part of the Style.
Only the rhythm channel plays.	Make sure the Auto Accompaniment function is turned on; press the [ACMP] button.
	Make sure to play keys in the chord section of the keyboard (page 55, 56).
Styles in a USB flash drive cannot be selected.	If the size of the Style data is large (about 120 KB or greater), the Style cannot be selected because the data is too large to be handled by the instrument.
Song	
Songs cannot be selected.	This may be because the language settings have been changed. Set the appropriate language for the Song file name.
	If the size of the Song data is large (about 300 KB or greater), the Song cannot be selected because the data is too large to be handled by the instrument.
Song playback does not start.	The Song has been stopped at the end of the Song data. Return to the beginning of the Song by pressing the SONG [■] (STOP) button.
	In the case of a Song to which write-protect has been applied, there are some restrictions and playback may not be possible. For details, refer to page 25.
Song playback stops before the Song is finished.	The Guide function is turned on. (In this case, playback is "waiting" for the correct key to be played.) Press the [SONG FUNCTION] button to call up the SONG FUNCTION MENU display, then press one of the [6 ▲▼] (GUIDE) buttons to turn off the Guide function.
The measure number is different from that of the score in the Song Position display, shown by pressing the [◀◀] (REW)/[▶▶] (FF) buttons.	This happens when playing back music data for which a specific, fixed tempo is set.
When playing back a Song, some channels do not play.	Playback of these channels may be set to "OFF." Turn playback on for those channels that are set to "OFF" (page 63).
The tempo, beat, measure and music notation is not displayed correctly.	Some Song data for the instrument has been recorded with special "free tempo" settings. For such Song data, the tempo, beat, measure and music notation will not be displayed correctly.

USB Audio Player/Recorder	
A message indicating the drive is busy appears, and the recording is aborted.	Make sure to use a compatible USB flash drive (page 91).
	The USB flash drive may not have enough memory. Check the recordable time on the display (page 73).
	If you are using a USB flash drive to which data has already been recorded, check first that no important data remains on the device, then format it (page 92) and try recording again.
Audio files cannot be selected.	The file format may not be compatible with the instrument. The compatible format is only WAV. The DRM protected files cannot be played back.
Recorded file is played back at a different volume compared to when it was recorded.	The audio playback volume has been changed. Setting the volume value to 100 plays back the file at the same volume as when it was recorded (page 71).
Mixing Console	
The sound seems strange or different than expected when changing a rhythm Voice (Drum kit, etc.) of the Style or Song from the Mixer.	When changing the rhythm/percussion Voices (Drum kits, etc.) of the Style and Song from the VOICE parameter, the detailed settings related to the drum voice are reset, and in some cases you may be unable to restore the original sound. In the case of Song playback, you can restore the original sound by returning to the beginning of the Song and playing back from that point. In the case of Style play, you can restore the original sound by selecting the same Style again.
Foot Pedal	
The on/off setting of the footswitch connected to the FOOT PEDAL jack is reversed.	Change the polarity settings: [FUNCTION] → MENU 1 → CONTROLLER → [ENTER] → 3 PEDAL POLARITY.

Specifications

Product name		Digital Keyboard	
Size/Weight	Dimensions (W x D x H)		1004 mm x 410 mm x 134 mm (39-1/2" x 16-1/8" x 5-1/4")
	Weight		8.1 kg
Control Interface	Keyboard	Number of Keys	61
		Type	Organ
		Touch Response	Hard 2, Hard 1, Medium, Soft 1, Soft 2
	Other Controllers	Pitch Bend Wheel	Yes
		Modulation Wheel	Yes
		Knobs	2 (Assignable)
	Display	Type	QVGA B/W LCD
		Size	4.3 inch
		Language	English, German, French, Spanish, Italian, Japanese
	Panel	Language	English
Voices	Tone Generation	Tone Generation Technology	AWM Stereo Sampling
	Polyphony	Number of Polyphony (Max.)	128
	Preset	Number of Voices	416 Voices + 34 Drum/SFX Kits + 480 XG Voices
		Featured Voices	11 Mega Voices, 19 Sweet! Voices, 28 Cool! Voices, 19 Live! Voices
	Compatibility		XG, GS (for Song Playback), GM, GM2
Part		Right 1, Right 2, Left	
Effects	Reverb Block		44 Preset + 3 User
	Chorus Block		71 Preset + 3 User
	DSP Block		283 Preset + 10 User
	Master Compressor		5 Preset + 5 User
	Master EQ		5 Preset + 2 User
Styles	Preset	Number of Styles	230
		Featured Styles	208 Pro Styles, 12 Session Styles, 10 DJ Styles
		Fingering	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard
		Style Control	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3
	Other Features	Music Finder (Max.)	1,200
		One Touch Setting (OTS)	4 for each Style
Compatibility		Style File Format (SFF), Style File Format GE (SFF GE)	
Songs (MIDI)	Preset	Number of Preset Songs	4 Preset Sample Songs
	Recording	Number of Tracks	16
		Data Capacity	approx. 300 KB/Song
		Recording Function	Quick Recording, Multi Track Recording
	Data Format	Playback	SMF (Format 0 & 1), XF
Recording		SMF (Format 0)	
Multi Pads	Preset	Number of Multi Pad Banks	179 banks x 4 Pads
	Audio	Audio Link	Yes
Functions	Voices	Harmony	Yes
		Arpeggio	Yes
		Panel Sustain	Yes
		Mono/Poly	Yes
	Styles	Style Creator	Yes
		Style Recommender	Yes
		OTS Information	Yes

Functions	Songs	Song Creator	Yes
		Score Display Function	Yes
		Lyrics Display Function	Yes
		Text Display Function	Yes
		Guide	Follow Lights, Any Key, Karao-Key, Your Tempo
	Multi Pads	Multi Pad Creator	Yes
	Registration Memory	Number of Buttons	8
		Control	Registration Sequence, Freeze
	USB Audio Player/Recorder	Recording Time (max.)	80 minutes/Song
		Recording	WAV (44.1kHz, 16bit, stereo)
		Playback	WAV (44.1kHz, 16bit, stereo)
	Demonstration		Yes
	Overall Controls	Metronome	Yes
		Tempo	5 – 500
		Transpose	-12 – 0 – +12
Tuning		414.8 – 440.0 – 466.8 Hz	
Octave Button		Yes	
Miscellaneous	Scale Type	9 Types	
	Direct Access	Yes	
Expandability (Expansion Packs)	Expansion Voice	Yes (approx. 32MB max.)	
	Expansion Style	Yes (Internal Memory)	
Storage and Connectivity	Storage	Internal Memory	Yes (approx. 2MB max.)
		External Drives	USB flash drive
	Connectivity	DC IN	16V
		Headphones	Standard stereo phone jack
		AUX IN	Stereo mini jack
		OUTPUT	L/L+R, R
		FOOT PEDAL	1 (SUSTAIN), 2 (VOLUME), Function Assignable
		USB TO DEVICE	Yes
USB TO HOST	Yes		
Amplifiers/ Speakers	Amplifiers	15W x2	
	Speakers	12cm x2	
Power Supply	Power Supply	Adaptor	PA-300C or an equivalent recommended by Yamaha
	Power Consumption		15W
	Auto Power Off		Yes
Included Accessories		<ul style="list-style-type: none"> • Owner's Manual (this book) • Online Member Product Registration • Music Rest • AC Power Adaptor* (PA-300C or an equivalent recommended by Yamaha), Power cord* *May not be included depending on your area. Check with your Yamaha dealer.	
Separately Sold Accessories (May not be available depending on your area.)		<ul style="list-style-type: none"> • AC adaptor: PA-300C or an equivalent recommended by Yamaha • Headphones: HPH-50/HPH-100/HPH-150 • Footswitches: FC4/FC4A/FC5 • Foot controller: FC7 • USB MIDI Interface for iPhone/iPod touch/iPad: i-UX1 • USB wireless LAN adaptor: UD-WL01 • Keyboard stand: L-6/L-7 (The exterior size of the PSR-S670 is beyond the limits as described in the L-6 Assembly Instructions. However, we have determined through tests that the stand can be safely used for the instrument.)	

* The contents of this manual apply to the latest specifications as of the printing date. To obtain the latest manual, access the Yamaha website then download the manual file. Since specifications, equipment or separately sold accessories may not be the same in every locale, please check with your Yamaha dealer.

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Information for Users on Collection and Disposal of Old Equipment



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

(weee_eu_en_01)

Information concernant la Collecte et le Traitement des déchets d'équipements électriques et électroniques.



Le symbole sur les produits, l'emballage et/ou les documents joints signifie que les produits électriques ou électroniques usagés ne doivent pas être mélangés avec les déchets domestiques habituels. Pour un traitement, une récupération et un recyclage appropriés des déchets d'équipements électriques et électroniques, veuillez les déposer aux points de collecte prévus à cet effet, conformément à la réglementation nationale et aux Directives 2002/96/EC.

En vous débarrassant correctement des déchets d'équipements électriques et électroniques, vous contribuerez à la sauvegarde de précieuses ressources et à la prévention de potentiels effets négatifs sur la santé humaine qui pourraient advenir lors d'un traitement inapproprié des déchets.

Pour plus d'informations à propos de la collecte et du recyclage des déchets d'équipements électriques et électroniques, veuillez contacter votre municipalité, votre service de traitement des déchets ou le point de vente où vous avez acheté les produits.

[Pour les professionnels dans l'Union Européenne]

Si vous souhaitez vous débarrasser des déchets d'équipements électriques et électroniques veuillez contacter votre vendeur ou fournisseur pour plus d'informations.

[Information sur le traitement dans d'autres pays en dehors de l'Union Européenne]

Ce symbole est seulement valable dans l'Union Européenne. Si vous souhaitez vous débarrasser de déchets d'équipements électriques et électroniques, veuillez contacter les autorités locales ou votre fournisseur et demander la méthode de traitement appropriée.

(weee_eu_fr_01)

Información para Usuarios sobre Recolección y Disposición de Equipamiento Viejo



Este símbolo en los productos, embalaje, y/o documentación que se acompañe significa que los productos electrónicos y eléctricos usados no deben ser mezclados con desechos hogareños corrientes.

Para el tratamiento, recuperación y reciclado apropiado de los productos viejos, por favor llévelos a puntos de recolección aplicables, de acuerdo a su legislación nacional y las directivas 2002/96/EC.

Al disponer de estos productos correctamente, ayudará a ahorrar recursos valiosos y a prevenir cualquier potencial efecto negativo sobre la salud humana y el medio ambiente, el cual podría surgir de un inapropiado manejo de los desechos.

Para mayor información sobre recolección y reciclado de productos viejos, por favor contacte a su municipio local, su servicio de gestión de residuos o el punto de venta en el cual usted adquirió los artículos.

[Para usuarios de negocios en la Unión Europea]

Si usted desea deshacerse de equipamiento eléctrico y electrónico, por favor contacte a su vendedor o proveedor para mayor información.

[Información sobre la Disposición en otros países fuera de la Unión Europea]

Este símbolo sólo es válido en la Unión Europea. Si desea deshacerse de estos artículos, por favor contacte a sus autoridades locales y pregunte por el método correcto de disposición.

(weee_eu_es_01)

IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

(2 wires)

OBSERVERA!

Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den är ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVAREL: Netspændingen til dette apparat er IKKE afbrudt, så længe netledningen sidder i en stikkontakt, som er tændt — også selvom der er slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytin ei irroita koko laitetta verkosta.

(standby)

Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

English	Important Notice: Guarantee Information for customers in EEA* and Switzerland For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area
Deutsch	Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgende angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum
Français	Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE, ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen
Nederlands	Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vindt een afprintbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte
Español	Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la versión del archivo para imprimir está disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo
Italiano	Aviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea
Português	Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Económica Europeia
Ελληνικά	Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης, σε όλες τις χώρες του ΕΟΧ* και την Ελβετία, επισκεψτείτε την παρακάτω ιστοσελίδα (εκτυπίσιμο αρχείο υπάρχει στον ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στην χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος
Svenska	Viktigt: Garantierinformation för kunder i EES-området* och Schweiz För detaljerad information om denna Yamaha-produkt samt garantier i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbadress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet
Norsk	Viktig merknad: Garantierinformasjon for kunder i EØS* og Sveits Detaljert informasjon om dette Yamaha-produktet og garantier i hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontaktpunktet Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet
Dansk	Vigtig oplysning: Garantierplysninger til kunder i EØO* og Schweiz De kan finde detaljerede garantierplysninger om dette Yamaha-produkt og den fælles garantierbetsservice for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område

Suomi	Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan. *ETA: Euroopan talousalue
Polski	Ważne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy
Česky	Důležité oznámení: Zásadní informace pro zákazníky v EHS* a ve Švýcarsku Podrobné zásadní informace o tomto produktu Yamaha a zaručeném servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor
Magyar	Fontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra, kiterjedő garanciális szolgáltatás tekintetében keressék fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájl is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselői iróddal. * EGT: Európai Gazdasági Térség
Eesti keel	Oluline märkus: Garantiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi Klientidele Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saitil on saadaval printitav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond
Latviešu	Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē Lai saņemtu detaļizētā garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzam apmeklēt vietni, kas norādīta šīs vietnes adresē (tīmekļa vietnē ir pieejams drukājams fails) vai sazināties ar jūsu valstī apkalpojošo Yamaha pārstāvēniecību. * EEZ: Eiropas Ekonomikas zona
Lietuvių kalba	Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarioje Jei reikia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarioje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdinamas failas) arba kreipkitės į „Yamaha“ atstovybę savo šalyje. *EEE – Europos ekonominė erdvė
Slovenčina	Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku Podrobné informácie o záruke týkajúcej sa tohto produktu od spoločnosti Yamaha a garancijnom servisu v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor
Slovensščina	Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (našijava datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavništva v svoji državi. * EGP: Evropski gospodarski prostor
Български език	Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в панаевропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство
Limba română	Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția Pentru informații detaliate privind acces produs Yamaha și serviciul de garanție Pan-SEE* și Elveția, vizitați site-ul la adresa de mai jos (fișierul imprimabil este disponibil pe site-ul nostru) sau contactați biroul reprezentanței Yamaha din țara dumneavoastră. * SEE: Spațiul Economic European

<http://europe.yamaha.com/warranty/>



1-YEAR LIMITED WARRANTY ON ARRANGER WORKSTATION KEYBOARDS

Thank you for selecting a Yamaha product. Yamaha products are designed and manufactured to provide a high level of defect-free performance. Yamaha Corporation of America ("Yamaha") is proud of the experience and craftsmanship that goes into each and every Yamaha product. Yamaha sells its products through a network of reputable, specially authorized dealers and is pleased to offer you, the Original Owner, the following Limited Warranty, which applies only to products that have been (1) directly purchased from Yamaha's authorized dealers in the fifty states of the USA and District of Columbia (the "Warranted Area") and (2) used exclusively in the Warranted Area. Yamaha suggests that you read the Limited Warranty thoroughly, and invites you to contact your authorized Yamaha dealer or Yamaha Customer Service if you have any questions.

Coverage: Yamaha will, at its option, repair or replace the product covered by this warranty if it becomes defective, malfunctions or otherwise fails to conform with this warranty under normal use and service during the term of this warranty, without charge for labor or materials. Repairs may be performed using new or refurbished parts that meet or exceed Yamaha specifications for new parts. If Yamaha elects to replace the product, the replacement may be a reconditioned unit. You will be responsible for any installation or removal charges and for any initial shipping charges if the product(s) must be shipped for warranty service. However, Yamaha will pay the return shipping charges to any destination within the USA if the repairs are covered by the warranty. This warranty does not cover (a) damage, deterioration or malfunction resulting from accident, negligence, misuse, abuse, improper installation or operation or failure to follow instructions according to the Owner's Manual for this product; any shipment of the product (claims must be presented to the carrier); repair or attempted repair by anyone other than Yamaha or an authorized Yamaha Service Center; (b) any unit which has been altered or on which the serial number has been defaced, modified or removed; (c) normal wear and any periodic maintenance; (d) deterioration due to perspiration, corrosive atmosphere or other external causes such as extremes in temperature or humidity; (e) damages attributable to power line surge or related electrical abnormalities, lightning damage or acts of God; or (f) RFI/EMI (Interference/noise) caused by improper grounding or the improper use of either certified or uncertified equipment, if applicable. Any evidence of alteration, erasing or forgery of proof-of-purchase documents will cause this warranty to be void. This warranty covers only the Original Owner and is not transferable.

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CUSTOMER SERVICE
Yamaha Corporation of America
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Telephone: 800-854-1569
www.yamaha.com

Do not return any product to the above address without a written Return Authorization issued by Yamaha.

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For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

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