



Digital Workstation

PSR-A5000

Owner's Manual

Thank you for purchasing this Yamaha Digital Workstation!

This electric keyboard for professional entertainers not only has a wide selection of Voices and versatile functions but also gives you the potential of expanding content for the instrument.

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.**



v1.20

EN

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.**

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**Serial No.**

---

(bottom\_en\_01)

**COMPLIANCE INFORMATION STATEMENT  
(Supplier's 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-A5000

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.

\* This applies only to products distributed by  
Yamaha Corporation of America.

(FCC SDoC)

## 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.

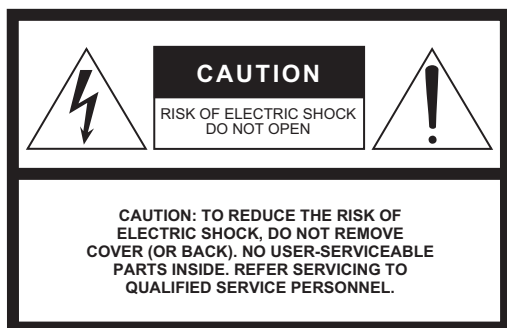
If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact Yamaha Corporation of America, 6600 Orangethorpe Ave. Buena Park CA90620, USA

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 the AC adaptor



### 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 the 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 the instrument



#### 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 119) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Use only the supplied power cord/plug.
- 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.
  - If any cracks or breakages exist on 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.

### **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**

- 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.

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## **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 connect this product to a public Wi-Fi and/or Internet service directly. Only connect this product to the Internet through a router with strong password protections. Consult your router manufacturer for information on optimum security practices.
- 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 smart device such as a smartphone or tablet, 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 discoloration, 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**

- Edited Song/Style/Voice/MIDI setup data, etc. are lost when you turn off the power to the instrument without saving. This also occurs when the power is turned off by the Auto Power Off function (page 21). Save the data to the instrument, or to USB flash drive/an external device such as a computer (page 33). Saving the data to USB flash drive/an external device is even more secure, since the data in the instrument may be lost due to some failure, an operation mistake, etc. Before using a USB flash drive, make sure to refer to page 108.
- 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.

# Main Features

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Created to meet the demands of Oriental music entertainers, the PSR-A5000 is an inspirational delight—featuring extraordinary sound, advanced functions, and wonderfully expressive control.

## ● **Amazingly expressive and realistic Voices**

The PSR-A5000 boasts a comprehensive set of authentic sounding Oriental Voices, including Oud, Nay and Qanoon. The Voices can be played naturally and with great expressiveness—thanks to the new, cutting-edge portamento advancements, featuring velocity and time control.

## ● **Accompaniment Styles**

The convenient Styles give you full instrument accompaniment, making it possible to perform in a wide variety of music genres simply by playing chords. Naturally, the PSR-A5000's Style content has been created to meet the demands of Oriental music entertainers, and the instrument's Style engine has been localized with new features—including up to 128-note Drum Kits, Drum Key-off samples and support for multiple time signatures within a Style.

## ● **LIVE CONTROL Joystick, knobs and Assignable buttons—Customized control**

The LIVE CONTROL Joystick and knobs let you intuitively control your performance in real time. A wide variety of functions can be assigned to the Joystick and knobs, so you can easily add variations to the sound during your performance. The Assignable buttons let you set your favorite functions and shortcuts, letting you easily customize the instrument to match your own needs and playing style.

## ● **Scale Tune—Creating original scales**

The PSR-A5000 features Scale Tune buttons for easy access during live performances. Individual note pitches can be easily modified and stored as your own new scales to Scale Tune Memories. The Scale Tune Quick Setting allows for immediate setting of a desired scale.

## ● **Chord Looper—Your virtual left hand**

Chord Looper enables you to record a chord sequence and play it back, freeing your left hand from playing chords and providing new opportunities to further enhance your performance.

## ● **Voice and Style expandability with the Yamaha Expansion Manager**

With Yamaha Expansion Manager software on your computer, you can continually expand the onboard content of the instrument by creating and installing your own custom and downloaded Packs. Supporting WAV, AIFF, SoundFont and even REX format, for handling audio slices, the scope of possibilities for new sounds and styles is virtually unlimited.

## ● **Audio features, including recording and editing**

Audio files can be played back on the instrument, plus you can directly record your performance as audio files to the internal User drive or a USB flash drive. The instrument also provides a variety of advanced, convenient audio playback and processing functions, including Time Stretch and Pitch Shift. The Vocal Cancel function significantly reduces the volume of existing vocals in an audio file, allowing you to sing “karaoke” style with just the instrumental backing. Since Audio files can also be assigned to Multi Pads and played back during your performance, the creative potential is enormous.

## Compatible formats for the instrument



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 format 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 computer applications, Accompaniment Style data, MIDI data, WAVE data, voice recording data, a score, score data, etc.
  - \* You are allowed to distribute media 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.

Yamaha may from time to time update firmware of the product without notice for improvement in functions and usability. To take full advantage of this instrument, we recommend that you upgrade your instrument to the latest version. The latest firmware can be downloaded from the website below:

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

## Included Accessories

- Owner's Manual (this book) x 1
  - Online Member Product Registration x 1
  - Music rest x 1
  - AC adaptor, power cord x 1
- May not be included depending on your area. Check with your Yamaha dealer.



# About the Manuals

This instrument has the following documents and instructional materials.

## Included Documents



### Owner's Manual (this book)

Provides overall explanations of the PSR-A5000 basic functions.

## Online Materials (downloadable from the Internet)



### Reference Manual (only in English, French, German, Turkish, Arabic, and Persian)

Explains advanced features of the instrument, such as creating original Styles, Songs and Multi Pads, and making the settings of specific parameters.



### Data List

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



### Smart Device Connection Manual (page 109)

Explains how to connect the instrument to smart devices, such as a smartphone or tablet, etc.



### Computer-related Operations (page 110)

Includes instructions on connecting the instrument to a computer, and operations related to transferring song data.

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

### Yamaha Downloads

<https://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-A5000, and are in English.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Apple, iTunes, Mac, iPhone, iPad, iPod touch and Lightning 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.

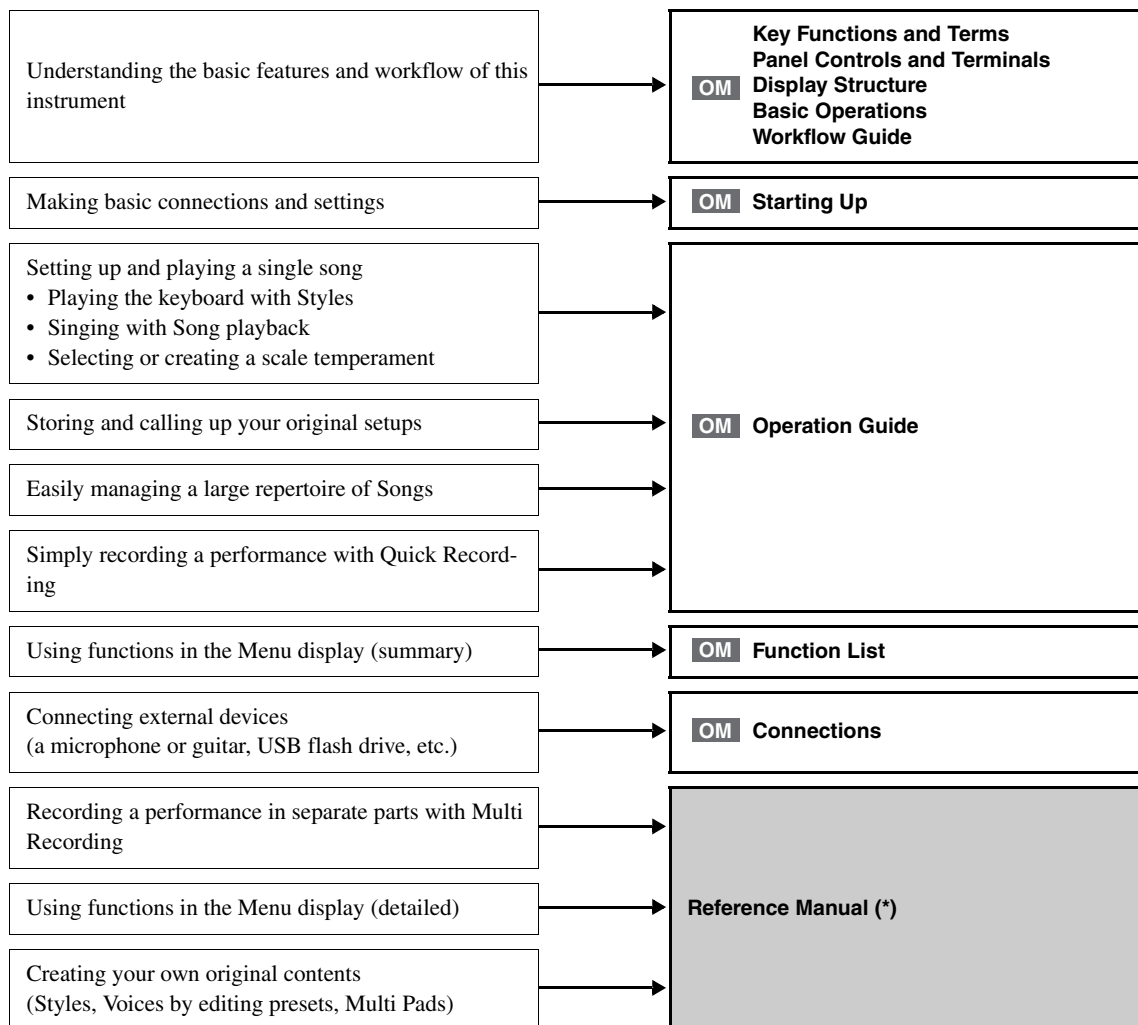
# Using the PSR-A5000—a Broad Overview

This section provides a helpful overview of the wide range of functions available in this instrument, and places you can find necessary information on those topics. If you need help in understanding a feature, function or operation—or need to have a general understanding of what the instrument can do and how to effectively use it—look through this section.

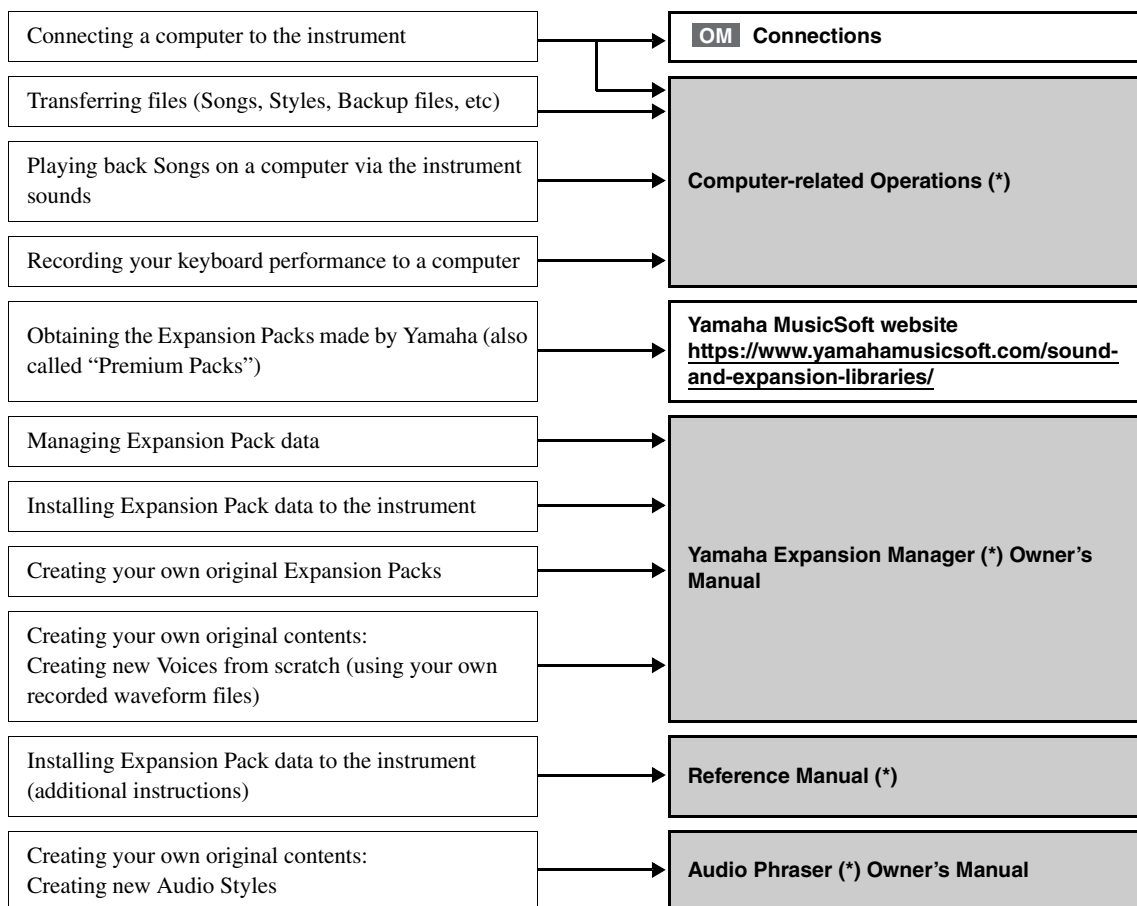
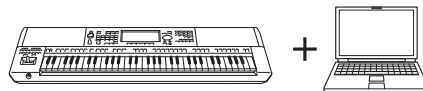
**OM** : PSR-A5000 Owner’s Manual (this book). The relevant chapter names are shown after this symbol. For detailed information on each chapter, see “Contents” (page 12).

\* : This material can be obtained from the Yamaha Downloads website (page 9).

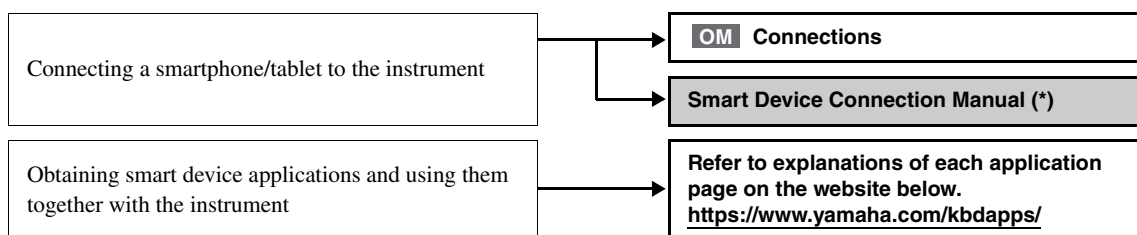
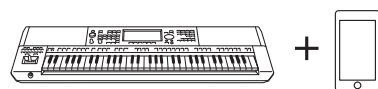
## Using the PSR-A5000 by itself



## Using the PSR-A5000 with a computer



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# Major Functions and Terms

This section briefly explains the key functions of this instrument, to help you better understand the overall capabilities and musical potential.

## Styles—Rhythm and Auto Accompaniment

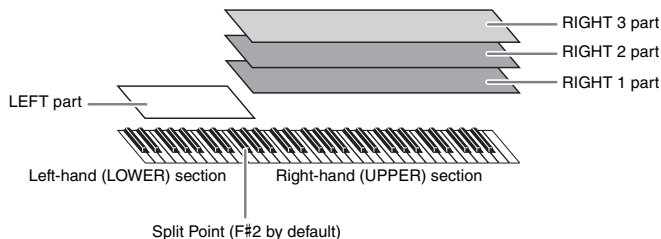
The PSR-A5000 features a variety of accompaniment and rhythmic backing patterns (called “Styles”) in a variety of different musical genres including Arabic music, pop, jazz, and many others. Styles feature sophisticated Auto Accompaniment patterns, letting you produce automatic accompaniment playback 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.

## Voices—Individual sounds of the instrument

The PSR-A5000 features a wide variety of exceptionally realistic instrumental Voices, including oriental instruments, piano, guitar, strings, brass, wind instruments and more. The Voices can be played manually on the keyboard, and they are also used by the Styles, MIDI Songs, and Multi Pads.

### Keyboard Parts

There are four keyboard parts for your manual performance: LEFT, RIGHT 1, 2 and 3. Each part has one Voice. You can combine these parts by using the PART ON/OFF buttons to create luscious instrument textures and convenient performance combinations. You can change the keyboard range of the Parts by changing the Split Point.



## 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 for adding impact and variety to your keyboard performances. Multi Pads are grouped in Banks of four phrases each. This 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 unique, new pad content with your own audio (WAV) data for playing back during your performance.

## Songs—Playing back MIDI/audio files

For this instrument, the term “Song” refers to MIDI or audio data, such as preset songs, commercially available 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. Song playback features two modes: Song Player mode and Song List mode.

- **Song Player:** Plays back two Songs (one MIDI Song and one Audio Song) simultaneously and allows for a smooth transition between the two.
- **Song List:** Plays back Songs continuously according to a previously created Song List.

## Mic/Guitar Connections—Sing/play along with the keyboard performance

By connecting a microphone to the MIC/GUITAR [INPUT] jack (standard 1/4” phone plug connector), you can enjoy singing along with your keyboard performance or with Song playback. The instrument outputs your vocals through the connected speaker system.

The PSR-A5000 lets you connect an electric guitar, and you can even use powerful DSP effects to process the guitar sound instead, and play that along with the keyboard sounds.

## **Scale Tune—Selecting or Creating a Temperament**

The Scale Tune function allows you to select, create and use desired temperament to fit the music you want to play. You can memorize the temperament to Scale Tune Memory buttons and recall it instantly with the buttons during your performance. The memorized settings on five Scale Tune Memory buttons can be saved as a single Scale Tune Memory Bank file.

## **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 are saved as a single Registration Memory Bank (file).

## **Playlist—Managing large amounts of songs and settings**

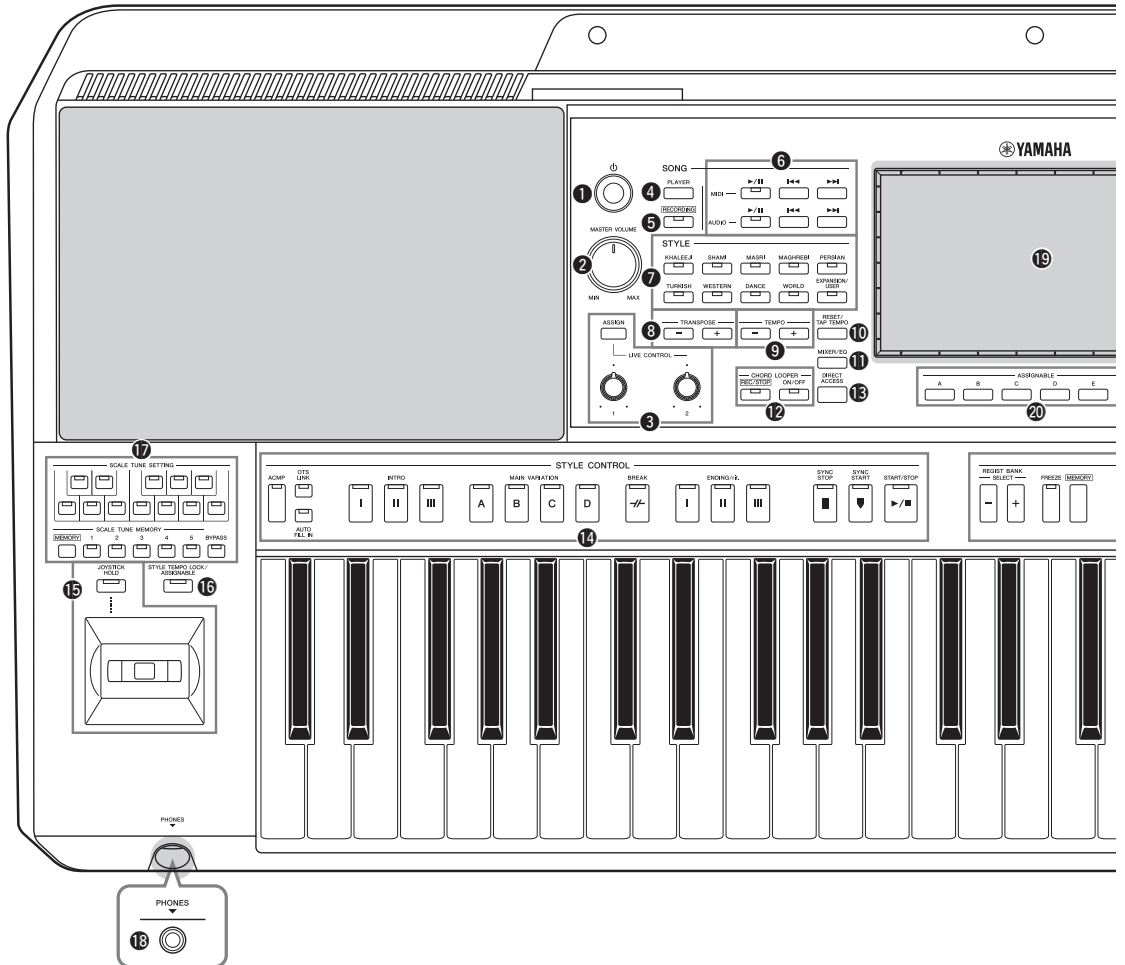
The Playlist function makes it easy to manage and call up your songs and the related settings, no matter how numerous. The Playlist allows you to recall a specific song from more than eight songs by a simple, single step. Up to 2500 songs can be registered in the Playlist, and you can call up the panel settings corresponding to each song by a single tap of the screen.

## **Recording—Capturing your performances**

This instrument allows you to record your performance and save it as a MIDI file in SMF format. The instrument also lets you record your performances as audio data (WAV/MP3) to a USB flash drive or the internal User drive. In addition, MIDI recording also features two convenient recording methods, Quick Recording and Multi Recording.

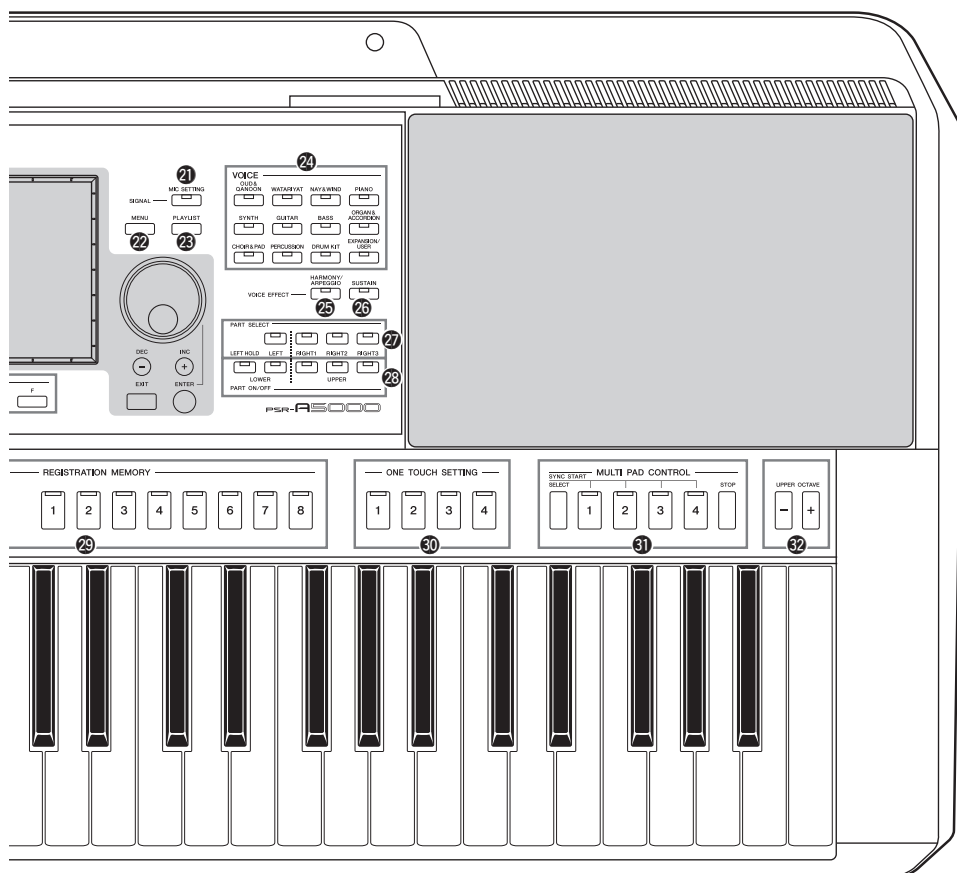
# Panel Controls and Terminals

## ■ Top Panel



- 1** [⏻] (Standby/On) switch ..... Page 20  
Turns on the instrument's power or sets to standby.
- 2** [MASTER VOLUME] dial ..... Page 20  
Adjusts the overall volume.
- 3** [ASSIGN] button, LIVE CONTROL knobs  
..... Page 56  
Assigns functions and controls sounds in real time.
- 4** SONG [PLAYER] button ..... Pages 24, 67  
Calls up the Song Player display.
- 5** SONG [RECORDING] button ..... Pages 24, 87  
Calls up the Song Recording display.
- 6** SONG playback control buttons..... Page 70  
Controls MIDI and Audio Song playback.
- 7** STYLE category selection buttons ..... Page 40  
Selects a Style category.
- 8** TRANSPOSE buttons..... Page 55  
Transposes the entire pitch of the instrument in semitone steps.
- 9** TEMPO buttons ..... Page 42  
Controls the tempo for Style, Song and Metronome playback.
- 10** [RESET/TAP TEMPO] button ..... Pages 42, 59  
Allows you to change the tempo by tapping the button twice at the desired tempo. During Style playback, this instantly resets (rewinds) the Style section playback.
- 11** [MIXER/EQ] button ..... Pages 24, 83  
Calls up the Mixer display which adjusts the parameters of each part, such as volume, pan, and EQ.
- 12** CHORD LOOPER buttons ..... Page 60  
Controls recording and loop playback of the Chord Looper function.
- 13** [DIRECT ACCESS] button..... Pages 32, 113  
For instantly calling up the desired display with just a single additional button press.
- 14** STYLE CONTROL buttons..... Pages 40, 58  
For controlling Style playback.





- 15 Joystick, [JOYSTICK HOLD] button ..... Page 62  
For using pitch bend, modulation and assigned functions.
- 16 [STYLE TEMPO LOCK/ASSIGNABLE] button ..... Page 57  
Controls lock/reset to lock the Style tempo, or turn the assigned function on/off.
- 17 SCALE TUNE SETTING, MEMORY, BYPASS buttons..... Page 78  
For controlling and setting up Scale Tune.
- 18 [PHONES] jack ..... Page 19  
For connecting a pair of headphones.
- 19 Touch LCD and related controls ..... Page 26
- 20 ASSIGNABLE buttons..... Page 97  
For assigning shortcuts to often used functions.
- 21 [MIC SETTING] button ..... Page 104  
Calls up the display from which you can make settings for the microphone/guitar.
- 22 [MENU] button..... Pages 25, 29  
Calls up the Menu display, which allows you to call up various functions.
- 23 [PLAYLIST] button ..... Pages 25, 93  
Calls up the Playlist display.
- 24 VOICE category selection buttons..... Page 48  
Selects a Voice category.
- 25 [HARMONY/ARPEGGIO] button ..... Page 50  
Applies the Harmony or Arpeggio to the right-hand Voices.
- 26 [SUSTAIN] button ..... Page 63  
Applies Sustain to the right-hand Voices.
- 27 PART SELECT buttons..... Page 48  
Selects a Voice for each of the keyboard parts.
- 28 PART ON/OFF buttons ..... Page 44  
Turns each of the keyboard parts on or off.

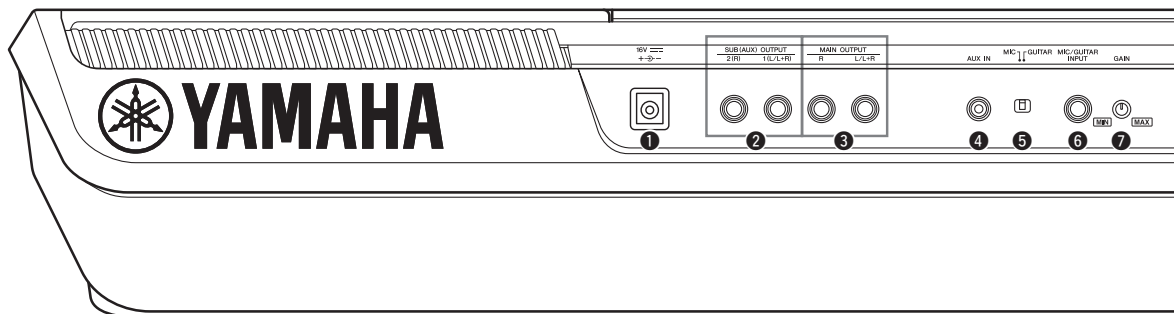
- 29 **REGISTRATION MEMORY buttons**..... Page 89  
For registering and recalling panel setups.
- 30 **ONE TOUCH SETTING buttons**.....Pages 43, 54  
Calls up the appropriate panel settings for the Style.
- 31 **MULTI PAD CONTROL buttons** .....Pages 53, 64  
Selects and plays a rhythmic or melodic Multi Pad phrase.

- 32 **UPPER OCTAVE buttons** ..... Page 55  
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.

■ **Rear Panel**

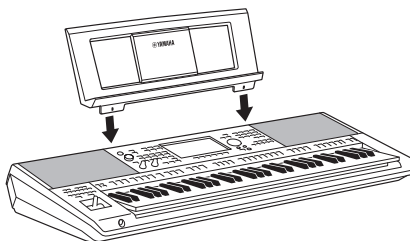


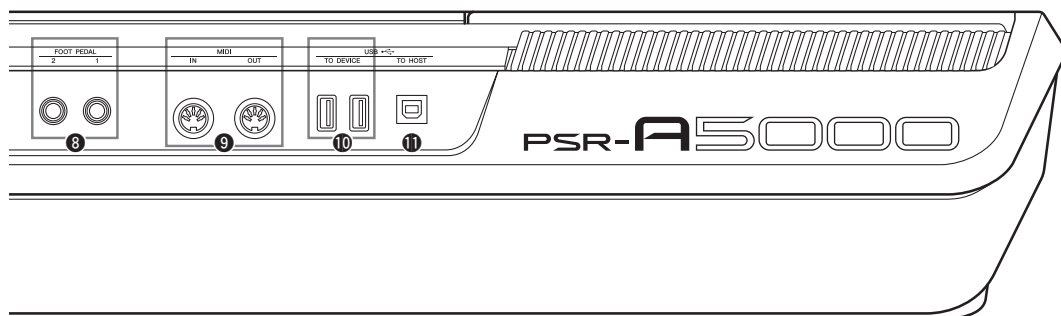
- 1 **DC IN jack**..... Page 20  
For connecting the power adaptor.
- 2 **SUB (AUX) OUTPUT [1 (L/L+R)], [2 (R)] jacks** ..... Page 105  
For connecting external audio devices. These jacks function as either SUB 1-2 or AUX outputs, depending on the Line Out settings.
- 3 **MAIN OUTPUT [L/L+R], [R] jacks**..... Page 105  
For connecting external audio devices.

- 4 **[AUX IN] jack** ..... Page 106  
For connecting an external audio device, such as a portable audio player.
- 5 **[MIC GUITAR] switch** .....Page 103  
For switching between “MIC” and “Guitar” for proper use of the [MIC/GUITAR INPUT] jack.
- 6 **[MIC/GUITAR INPUT] jack** .....Page 103  
For connecting a microphone or guitar.

**Attaching the Music Rest**

Insert the music rest into the slots as shown.

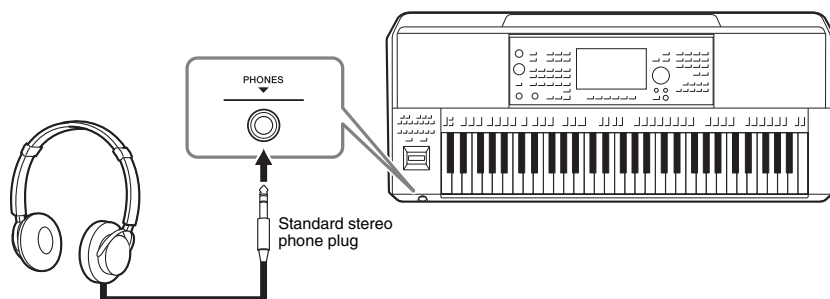




- 7 [GAIN] knob**..... Page 103  
For adjusting the input level of the [MIC/GUITAR INPUT] jack.
- 8 FOOT PEDAL [1], [2] jacks**..... Page 107  
For connecting footswitches and/or foot controllers.
- 9 MIDI [IN], [OUT] terminals**..... Page 110  
For connecting external MIDI devices.
- 10 USB TO DEVICE terminals** ..... Page 108  
For connecting USB devices, such as a USB flash drive, or an optional wireless LAN adaptor, etc.
- 11 [USB TO HOST] terminal**.....Page 110  
For connecting to computer, or an optional wireless MIDI adaptor.

## Using the Headphones

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



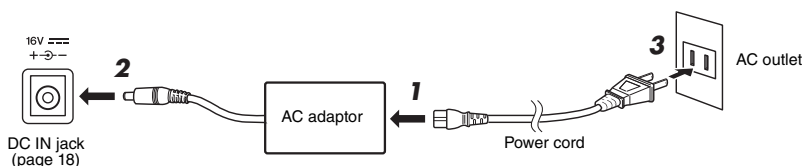
### **CAUTION**

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

# Starting Up

## Power Supply

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



The shape of the plug and outlet differs depending on your area.

### **WARNING**

Use the specified AC adaptor (page 119) only. Using the wrong AC adaptor can result in damage to the instrument or overheating.

### **CAUTION**

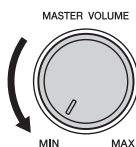
When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn the power off and disconnect the plug from the outlet.

### **NOTE**

Reverse the order shown above (3-2-1) when disconnecting the AC adaptor.

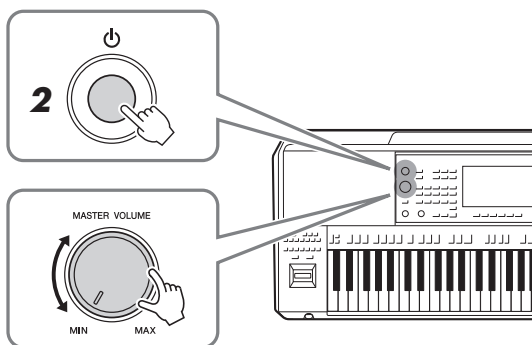
## Turning the Power On/Off

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



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

After a brief interval, the Home display (page 26) appears. Adjust the volume as desired while playing the keyboard.



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

### **NOTE**

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

### **CAUTION**

Even when the [⏻] (Standby/On) 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**

When 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 only 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.

## Auto Power Off function

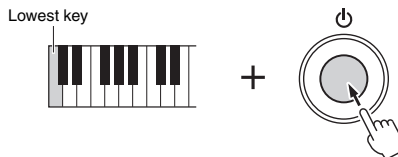
To prevent unnecessary power consumption, this instrument features an Auto Power Off function that automatically turns the power off if the instrument is not operated for a specified period of time. The amount of time that elapses before the power is automatically turned off is approximately 15 minutes by default; however, you can change the setting (page 21).

### NOTICE

Any data which is not saved via the Save operation will be lost if the power automatically turns off. Make sure to save your data before this happens.

### Disabling Auto Power Off (simple method)

Turn the power on while holding down the lowest key on the keyboard. A message appears briefly and the Auto Power Off function is disabled.



### NOTE

When a USB flash drive containing a large number of files is connected to the instrument, the execution of the Auto Power Off function may be postponed, since the file search index is automatically updated.

## Making Basic Settings

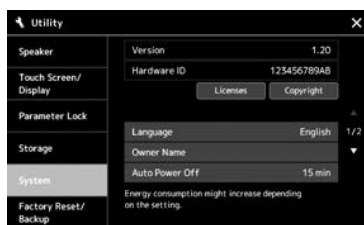
As necessary, make basic settings for the instrument, such as the language shown on the display.

### 1 Call up the Utility operation display.

First, press the [MENU] button to call up the Menu display. Then touch [Menu 2] to move to page 2 on the display (if necessary), and touch [Utility].

### 2 Touch [System] on the display.

### 3 Make the necessary settings by touching the display.



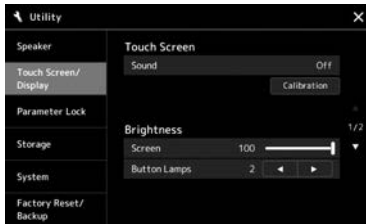
Language	Determines the language used in the display for menu names and messages. Touch this setting to call up the language list, and then select the desired one.
Owner name	Lets you input your name which appears in the opening display (called up when the power is turned on). Touch this setting to call up the character entry window, and then input your name (page 36).
Auto Power Off	Lets you set the amount of time that elapses before the power is turned off by the Auto Power Off function (page 21). Touch this to call up the list of settings, and then select the desired one. To disable Auto Power Off, select "Disabled" here.

For information on the other items in this display, refer to the Reference Manual on the website (page 9).

## Changing the Brightness of the Main Display and Button Lamps

Here you can change the brightness of the main display and button lamps.

- 1** Call up the operation display (Utility) (step 1 on page 21).
- 2** Call up the “Touch Screen/Display” display.  
Touch [Touch Screen/Display] on the display.
- 3** Change the settings by touching the display.



Screen	Use the slider to adjust the brightness of the main display.
Button Lamps	Touch [◀]/[▶] to adjust the brightness of the button lamps.

For information on the other items in this display, refer to the Reference Manual on the website (page 9).

# Display Structure

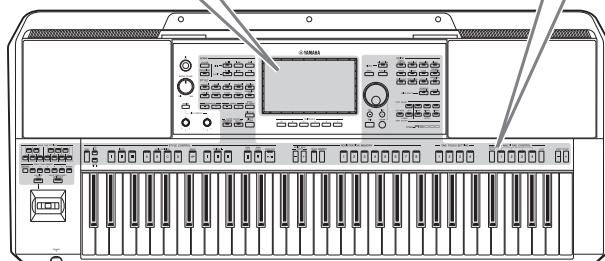
This instrument has an LCD touch screen display and button lamps for visually helping you understand the current status.

## LCD (Main Display; touch screen)

The LCD indicates the parameters and values related to the currently selected operation. You can operate by touching the 'virtual' buttons or sliders on the display. For details on the display structure, see below.

## Panel buttons and lamps

Many of the panel buttons have colored lamps that indicate the corresponding function statuses by lighting on/off, flashing, or changing in color. For details on the lighting rules and indications, refer to the relevant function's description.



## Main Display Structure

When the instrument is turned on, the Home display is called up. By touching the display, you can call up the various functions.



## Home display


This is portal of the instrument's display structure, which provides at-a-glance information on all current settings. (page 26)

However, as you operate the instrument, you can directly call up displays dedicated to each main function directly by pressing the corresponding buttons on the front panel. Other functions and various detailed settings for the instrument can be accessed from the Menu display. Also, depending on the particular function, you can call up the File Selection display to select desired files.

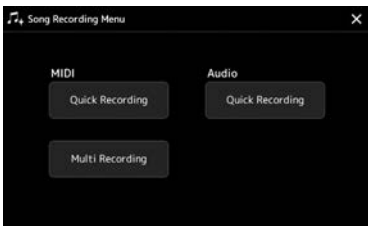
The next page shows an overview of how to call up each major function display.

# How to call up the major function displays by the buttons

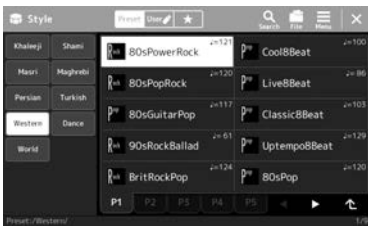
This map shows how to call up the displays for each key function by the buttons on the panel.




**Song Playback display**  
This is for controlling Song playback (pages 66, 70).



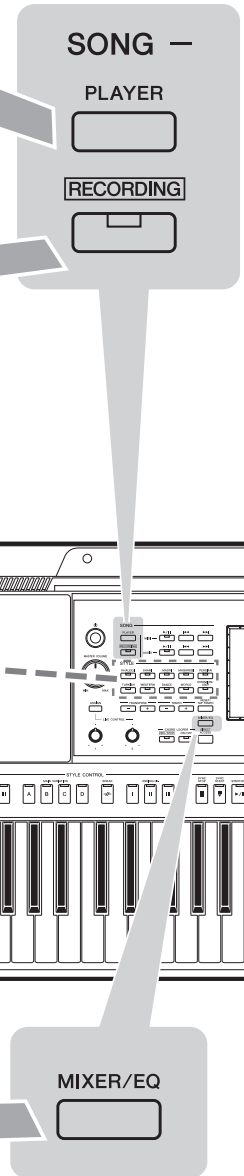
**Song Recording display**  
For recording your performance (page 87).



**Style Selection display**  
One of the File Selection displays (page 28) for selecting Styles.



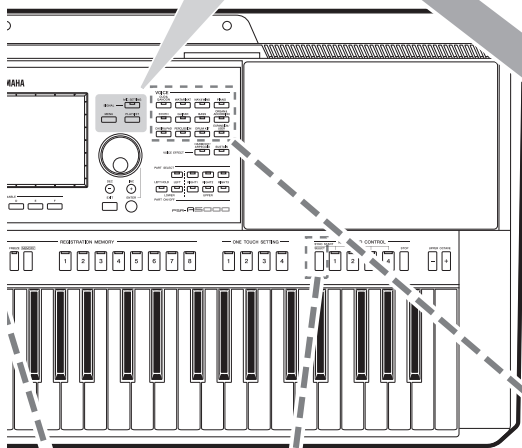
**Mixer display**  
For adjusting the parameters of each part, such as volume, pan, and EQ (page 83). It also allows you to adjust overall sound controls, by Master Compressor and Master EQ (page 99).





**Menu display**  
By touching each of the icons, you can call up various functions, such as Song Score, Volume Balance and other detailed settings. (page 29)

**Mic Setting display**  
This is for making settings for the microphone or the guitar sound (page 104).



**Playlist display**  
This is for selecting and editing Playlists. (page 93)

**Voice Selection display**  
One of the File Selection displays for selecting Voices for the keyboard parts (page 48).

**Multi Pad Selection display**  
One of the File Selection displays for selecting a Multi Pad Bank (page 53).

**Registration Memory Bank Selection display**  
One of the File Selection displays for selecting Registration Memory Bank (page 91).

# Basic Operations

## Display Configuration

This section covers the most often used displays: Home, File Selection and Menu. The Home display appears when the power is turned on. The term “File Selection display” refers to all the various displays called up on the instrument from which you can select files. The Menu display is a portal display for various functions and can be called up by pressing the [MENU] button.

### Home Display

Appears when the power is turned on. This display shows the current basic settings such as the current Voice and Style, allowing you to see them at a single glance. Because of this, you should normally have the Home display shown when you perform on the keyboard.



#### 1 Voice area

Indicates the current Voices for each of the keyboard parts (Left and Right 1–3) and the on/off status of the four parts. Touching a Voice name calls up the Voice Selection display for the corresponding part.

#### 2 Song area

Indicates information related to Song playback/recording. The information on Song playback is displayed depending on the Song playback mode (page 67). Touching the file name calls up the relevant selection display. When in recording, the recording status is displayed. Touching the recording status calls up the recording display.

#### 3 Style area

Indicates information for the current Style, such as the current position of the section playback, the current chord name, and the time signature. Touching a Style name calls up the Style Selection display. When the [ACMP] button is set to on, the chord specified in the chord section of the keyboard will be displayed.

#### 4 Multi Pad area

Indicates the current Multi Pad Bank. Touching a Multi Pad Bank name calls up the Multi Pad Bank Selection display.

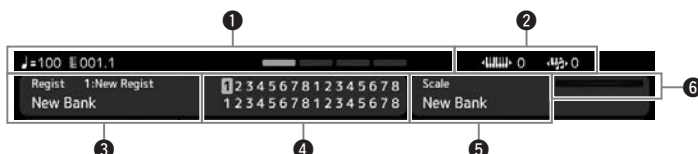
## 5 Other Information area

Indicates the current status, such as the current Registration Memory or Scale Tune information. For details, see below.

## 6 Shortcut area

Contains the shortcut icons which let you call up various functions with a single touch. Touching a shortcut icon calls up the display of the corresponding function. You can also register your own custom shortcut icons as desired here, via the Assignable display (page 97).

### ■ Other Information area in the Home display



### 1 Bar/Beat/Tempo

Displays the current position (bar/beat/tempo) in Style playback or MIDI Song playback. By rotating the Data dial, you can call up the Tempo pop-up display and adjust the tempo.

### 2 Upper Octave/Transpose

Displays the amount by which the upper octave value is shifted, and the amount of master transposition in semitone units (page 55).

### 3 Registration Memory Bank

Indicates the currently selected Registration Memory Bank name and Registration Memory number. Touching a Registration Memory Bank name calls up the Registration Memory Bank Selection display.

### 4 Registration Sequence

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

### 5 Scale Tune

Indicates the currently selected Scale Tune Memory Bank name and Scale Tune Memory number with its name. Touching a Scale Tune Memory Bank name calls up the Scale Tune Memory Bank Selection display.

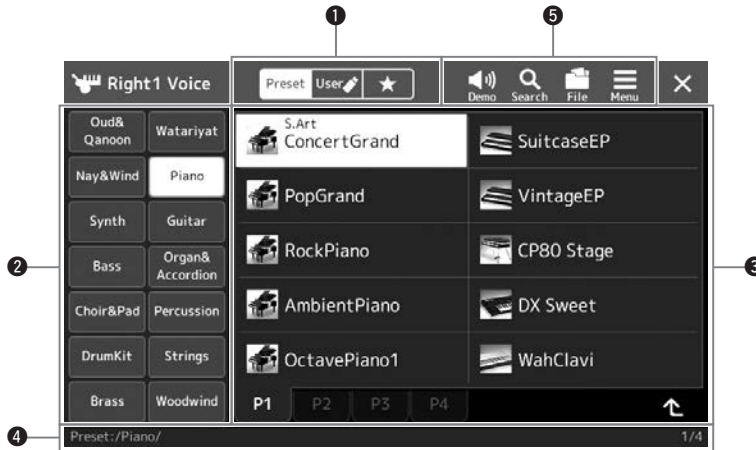
### 6 MIC/GUITAR Input level indicator

When a microphone or guitar is connected, this indicates the input level. Adjust the level with the [GAIN] knob so that the indicator lights in green or yellow (but not in red). For details on connecting a microphone or guitar, refer to page 103.

# File Selection Display

The File Selection display is for selecting a Voice, Style, Song, Multi Pad set and other items. You can call up this display by touching the name of the Voice, Style or Song on the Home display, or by pressing one of the VOICE buttons or STYLE buttons, etc. The displays differ depending on which file type is selected. For example, when Voice is selected, the Voice Selection display is called up.

This section explains the display structures common to all types of the File selection displays.



## 1 Main Category

For selecting the Preset, User, or Favorite tab.

Preset	Location where preset data are available. A wide variety of data such as Voices and Styles are divided into several sub categories (tabs).
User	Location where recorded or edited data is saved. Data saved to the instrument are shown in “User” (User drive), while data in the connected USB flash drive are shown in “USB.” In this manual, data in the User tab are referred to as “User data.”
Favorite	Location where the data which you have registered as Favorites are shown. This tab may not be shown depending on the data type.

## 2 Sub Category / Drives

- When the Preset tab is selected in the main categories, the sub categories are shown here according to the data type. For example, various instrument types such as Piano are shown on the Voice Selection display.
- When the User tab is selected, the drives available are shown as sub categories.

## 3 Selectable data (files)

The files that can be selected are shown. If two or more pages are available, you can call up another page by touching the desired page tab at the bottom of this area.

## 4 Folder Path

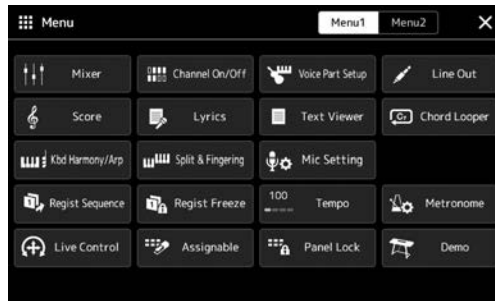
The current path or folder is shown here according to the folder structure.

## 5 Operation icons

The functions (save, copy, delete, etc.) which can be operated via the File Selection display are shown. The icons shown here differ depending on which File Selection display is selected. For detailed instructions, refer to “File Management” (page 33), or the instructions for each function’s File Selection display.

## Menu Display

This is the portal display for using various functions and can be called up by pressing the [MENU] button.



Various convenient functions are shown via icons, and touching one of them calls up the corresponding function. This list consists of two pages, which you can select by touching [Menu 1] or [Menu 2], or pressing the [MENU] button several times.

For brief information on each function, refer to the “Function List” (page 111).

### NOTE

You can also change pages by flicking horizontally.

### Instruction conventions for the Menu display


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

Example: [MENU] → [Utility] → [System] → [Language]

The example above describes a four step operation:

- 1) Press the [MENU] button to call up the Menu display.
- 2) From the Menu display, touch [Utility].
- 3) Touch [System].
- 4) Touch [Language].

## Closing the Current Display

To close the current display, press the [EXIT] button or touch  at the upper right of the display (or window) or [Close] at the lower right of pop-up displays. When a message (information or confirmation dialog) appears, touching the appropriate item such as “Yes” or “No” closes the message.

If you want to instantly return to the Home display, press the [DIRECT ACCESS] and [EXIT] buttons simultaneously.

# Display-based Controls

The display of this instrument is a special touch screen that allows you to select or change the desired parameter by simply touching the corresponding setting on the display. You can also decrease/increase the value in small steps by rotating the Data dial or pressing the [DEC]/[INC] button.

## Using the display (touch screen)

### NOTICE

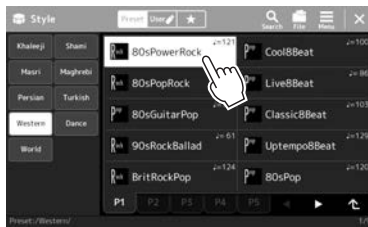
Do not use any sharp or hard tools to operate the touch screen. Doing so may damage the display.

### NOTE

Keep in mind that operation by simultaneously touching two or more points on the display is not possible.

### Touch

To select an item, lightly touch the corresponding indication on the display.



### NOTE

If you find the system sounds (produced when touching the display) distracting, you can turn them on/off from [MENU] → [Utility] → [Touch Screen/Display] → Touch Screen [Sound]

### Slide

Hold down the display slider, and then slide your finger vertically or horizontally to change the parameter value.



### NOTE

In the case of a vertical slider, the slide operation is only effective for the slider when it is selected. To select a slider, touch it once. The selected state is indicated by a surrounding orange frame.

### Rotate

Touch and hold the display knob, and rotate your finger around the knob to change the parameter value.



### NOTE

The rotate operation is only effective for the knob when it is selected. To select a knob, touch it once. The selected state is indicated by a surrounding orange frame.

### Touch and hold

This instruction means to touch the object in the display and hold it for a while.

When setting values by using the [◀]/[▶] buttons, a slider or a knob, you can restore the default value by touching and holding the value on the display.

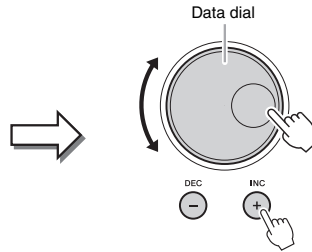


## Using the Data dial, [ENTER] button, and [DEC]/[INC] buttons

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

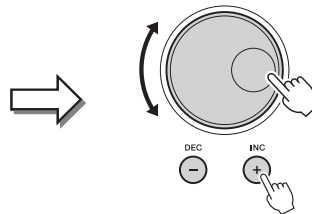
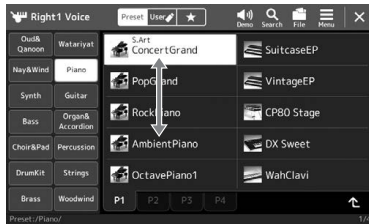
### ■ Adjusting the parameter values

After selecting the desired parameter by touching it, use the Data dial or the [DEC]/[INC] buttons to adjust the value. This is useful if you have difficulty adjusting by touching on the display, or want finer control over the adjustment.



### ■ Loading/Selecting an item from a list

When a list such as File Selection displays or pop-up windows for setting parameters, use the Data dial and the [DEC]/[INC] buttons to select an item.



Rotate the dial or press the [DEC]/[INC] buttons to actually load/select the item. Whether the item is loaded or only selected depends on the setting in the display called up via [MENU] → [Utility] → [Touch Screen/Display]. For details, refer to the "Utility" of the Reference Manual on the website.

## Calling up the Desired Display Instantly—Direct Access

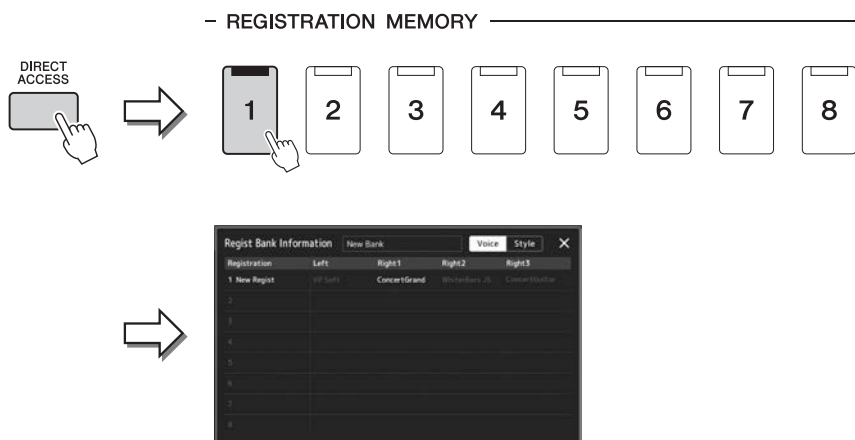
With the convenient Direct Access function, you can instantly call up the desired display—with just a single additional button press. Refer to the “Direct Access Chart” on page 113 for a list of the displays that can be called up with the Direct Access function.

### 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, joystick or connected pedal) corresponding to the desired setting display to instantly call up that display.

For example, pressing one of the REGISTRATION MEMORY [1]–[8] buttons calls up the Regist Bank Info display (page 92).



## Playing the Demos

The Demos provide dynamic demonstrations of the high-quality sounds.

### 1 Call up the Demo display via [MENU] → [Demo].

### 2 Touch the display to show and play the desired Demo.

### 3 To return to the Demo display, press the [EXIT] button, or tap the Close button on the display.

### 4 Press the [EXIT] button to exit from the Demo display.



# File Management

Data you have created such as recorded Songs and edited Voices can be saved as files to the instrument (referred to as “User drive”) or a USB flash drive. If you’ve saved a lot of files, you may have trouble finding the desired file quickly. To make operation easier, you can organize your files in folders, rename the files, delete unnecessary files, etc. These operations are done in the File Selection display.

### NOTE

Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 108.

## Restrictions for Preset Songs

Preset Songs are copy protected to prevent illegal copying or accidental erasure. These can only be copied or saved to the User drive, and cannot be moved or deleted.

## Saving a file

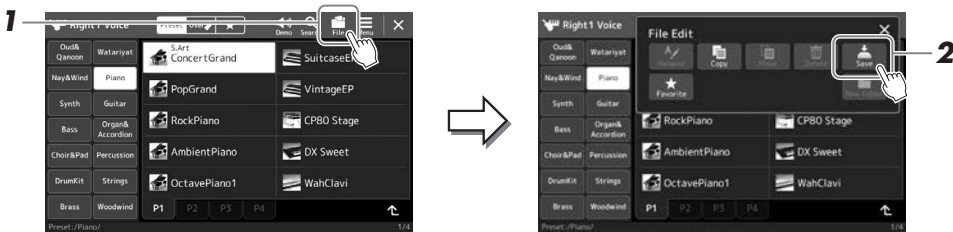
You can save your original data (such as Songs you’ve recorded and Voices you’ve edited) as a file to the User drive or the USB drive in the File Selection display (page 28).

### 1 In the relevant File Selection display (\*), touch (File Edit) to call up the File Edit pop-up window.

\* For example, the display shown below (Voice Selection) is called up via the PART SELECT [RIGHT 1] button.


### NOTE

To cancel the file operation, press the [EXIT] button.



### 2 Touch [Save] to call up the display for selecting the saving destination.

### 3 Select the location to which you want to save the file.

To show the next higher level folder, touch  (Up).



### 4 Touch [Save here] to call up the Character Entry window.

### 5 Enter the file name (page 36).

Even if you skip this step, you can rename the file at any time (page 34) after saving.

### NOTE

To cancel this operation, touch [Cancel].

## 6 Touch [OK] in the Character Entry window to actually save the file.


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

## Creating a new folder

---

Folders can be created, named and organized as desired, making it easier to find and select your original data.

### 1 In the File Selection display, touch the User tab (page 28), and then select the location to which you want to create a new folder.

To show the next higher level folder, touch  (Up).

### 2 Touch (File Edit) to call up the File Edit pop-up window.

### 3 Touch [New Folder] to call up the Character Entry window.

### 4 Input the name of the new folder (page 36).

#### NOTE

The maximum number of files/folders which can be stored in a folder is 2500.

#### NOTE

A new folder cannot be created in the Preset tab or the "Expansion" folder (page 100) in the User tab.

## Renaming a file/folder

---

You can rename files/folders.

### 1 Call up the File Selection display, on which the desired file/folder is shown.

### 2 Touch (File Edit) to call up the File Edit pop-up window.

### 3 Touch [Rename] in the File Management menu, to call up the display for selecting the desired file/folder.

### 4 Select the desired file or folder by touching it.

### 5 Touch [Rename] at the top of the display to call up the Character Entry window.

### 6 Input the name of the selected file or folder (page 36).

#### NOTE

Files in the Preset tab or the "Expansion" folder (page 100) in the User tab cannot be renamed.

#### NOTE

Only one file or folder can be renamed at a time.

## Copying or moving files

---

You can copy or cut a file and paste it to another location (folder). You can also copy a folder (without moving it) by using the same procedure.

### 1 Call up the appropriate File Selection display, on which the desired files/folders are shown.

### 2 Touch (File Edit) to call up the File Edit pop-up window.

### 3 Touch [Copy] or [Move] in the File Management menu, to call up the display for selecting the desired files/folders.

#### NOTE

- Files in the Preset tabs cannot be copied/moved.
- Files in the "Expansion" folder (page 100) in the User tab cannot be copied/moved.

**4 Select the desired files/folders by touching each item.**

One or more files/folders can be selected (highlighted). To cancel the selection, touch the same item again.

Touch [Select All] to select all items indicated on the current display including the other pages. To cancel the selection, touch [All Off].

**5 Touch [Copy] or [Move] at the top of the display, to call up the display for selecting the destination.****6 Select the desired destination (path) to paste the files/folders.****7 Touch [Copy here] or [Move here] to paste the files/folders you've selected in step 4.**

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

**NOTE**

To cancel this operation, touch [Cancel] before going to step 7.

## Deleting files/folders

---

You can delete files/folders.

**1 Call up the appropriate File Selection display, on which the desired files/folders are shown.****2 Touch  (File Edit) to call up the File Edit pop-up window.****3 Touch [Delete] in the File Management menu, to call up the display for selecting the desired files/folders.****4 Select the desired files/folders by touching each item.**

One or more files/folders can be selected (highlighted). To cancel the selection, touch the same item again.

Touch [Select All] to select all items indicated on the current display including the other pages. To cancel the selection, touch [All Off].

**5 Touch [Delete] at the top of the display.**

A confirmation message appears. To cancel this operation, touch [No] before going to step 6.

**6 Touch [Yes] to actually delete the files/folders you've selected in step 3.****NOTE**

Files in the Preset tabs or the "Expansion" folder (page 100) in the User tab cannot be deleted.


## Registering files to the Favorite tab

---

You can call up your favorite or often used Style or Voice files quickly by registering them to the Favorite tab. For details, refer to the Reference Manual on the website (page 9).

## Searching for files

---

You can search for desired files by name, on the display called up by touching  (File Search). In the case of Registration Memory Bank files, you can also search for them by specifying other detailed properties. For details, refer to the Reference Manual on the website (page 9).

# Entering Characters

This section covers how to enter characters for naming your files/folders, inputting keywords when searching for files, etc. Entering characters is done in the display shown below.



## 1 Touch the character type.

Touching [Symbol] (or [abc]) switches between entering symbols or Roman letters (and numbers).

To switch between entering capital letters or small letters, touch  (Shift).

## 2 Touch [◀]/[▶], rotate the Data dial or the press [DEC]/[INC] buttons to move the cursor to the desired location.

## 3 Input the desired characters one by one.

To delete a single character, touch [Delete]; to delete all characters at once, touch and hold [Delete]. To enter a space, touch the space key indicated in the illustration above.

### To input letters with auxiliary symbols:

You can input letters with auxiliary symbols, such as an umlaut, by touching and holding a letter to call up a list. For example, touch and hold “E” to enter “Ë” from the list.

### To select custom icons for files (shown at left of file name):

You can select custom icons for the file. Touch [Icon] to call up the pop-up window, and then select the desired icon.

## 4 Touch [OK] to finalize the characters (name, keywords, etc.) you have input.

### NOTE

- Depending on the display for character entry you are working in, some types of characters cannot be entered.
- A file name can contain up to 46 characters and a folder name can contain up to 50 characters.
- The following characters (half size) cannot be used: \ / : \* ? \* < > |

### NOTE

To cancel this operation, touch [Cancel] before going on to step 4.

## Locking the Panel Settings (Panel Lock)

When the panel settings are locked, nothing happens, even when you press any of the panel buttons. For example, when you take a break during your performance and leave the instrument unattended, this feature protects the panel settings from being accessed by others.

### 1 Call up the Panel Lock display via [MENU] → [Panel Lock].

The numeric keypad for PIN code entry is called up.

### 2 Input a four-number PIN code by touching the numeric keypad, and then touch [OK] to enter it.

The panel settings are locked. The main display is also in “lock” mode during the panel lock.

### 3 To unlock the instrument, touch the display, then input the same PIN code you entered in step 2.

#### NOTE

If you have forgotten the PIN code, simply turn the power off and back on again to unlock the instrument.

## Using the Metronome

The metronome provides a click sound, giving you an accurate tempo guide when you practice, or letting you hear and check how a specific tempo sounds. When recording without Style playback, turning the metronome on makes your recording sessions much more efficient.

### 1 Call up the Metronome display via [MENU] → [Metronome].



### 2 Touch the icon to turn the metronome On/Off.

For information on the other items on the display, refer to “Metronome Settings” of the Reference Manual on the website.

#### NOTE

The Metronome can also be turned on/off by touching the Metronome On/Off button on each recording display. (page 87)

# Workflow Guide—for Performing on the PSR-A5000

## ■ Creating panel settings manually and performing a single song

Playing the keyboard with Styles (Auto Accompaniment)

**Setting up the Style**  
... p. 40

**Optimum panel settings for the current Style (One Touch Setting)** ... p. 43

Calling up the most appropriate panel settings (Keyboard Parts, Harmony/Arpeggio, or Multi Pads) for the selected Style.

or

**Setting up the Voices** ... p. 44  
(Setting up keyboard parts)

**Setting up Harmony/Arpeggio** ... p. 50

or  
Singing with Song playback

**Making Song playback settings** ... p. 66

## ■ Storing the song's panel settings for easy recall

**Storing the song's panel settings to Registration Memory** ... p. 90  
For details about Registration Memory and Registration Memory Bank, refer to page 89.

## ■ Calling up the stored panel settings for your performance

**Selecting the desired Registration Memory Bank file**

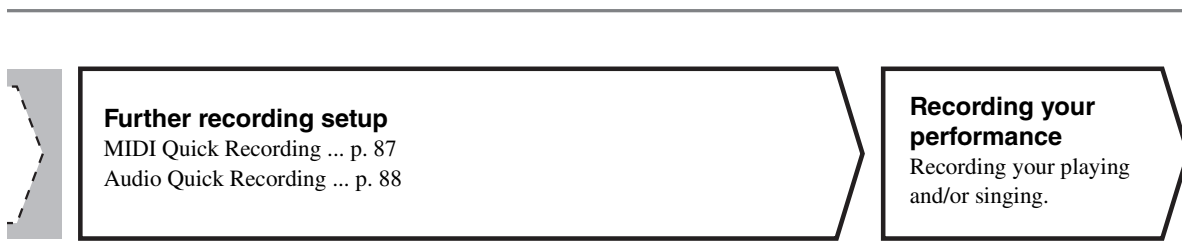
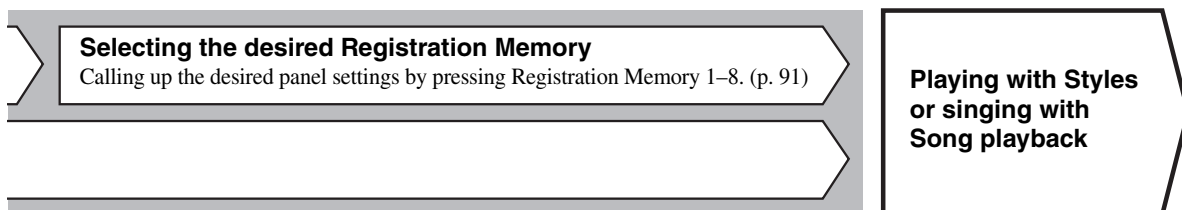
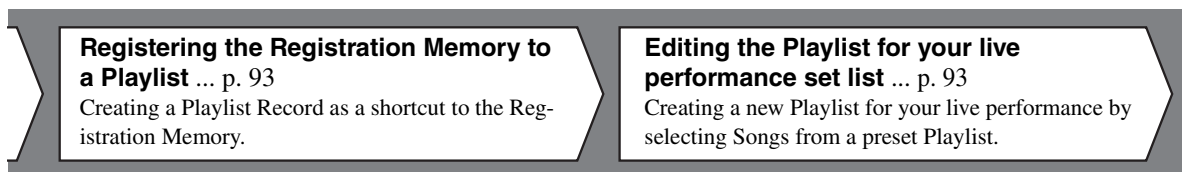
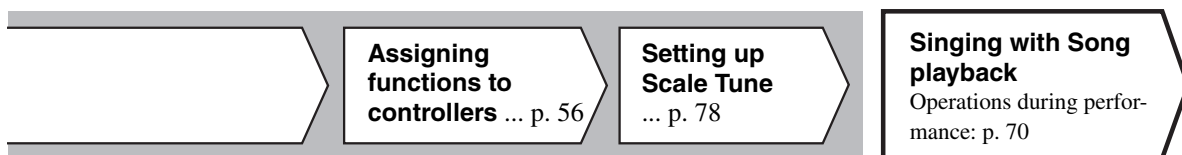
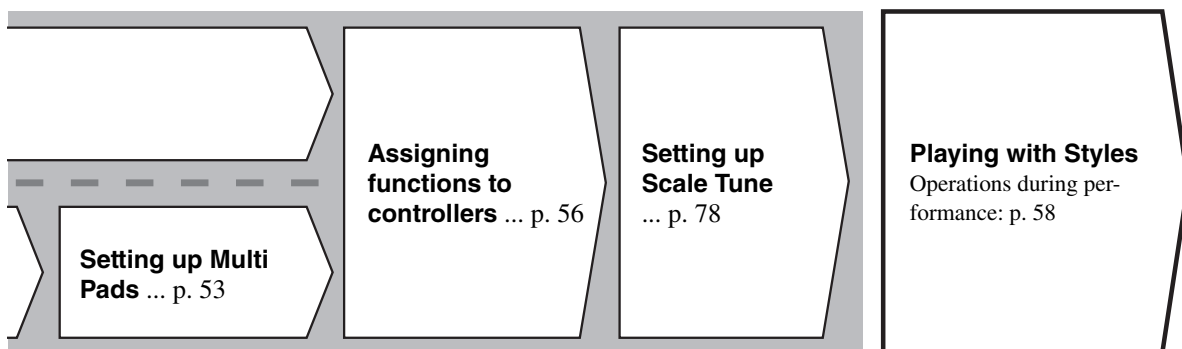
Calling up the Registration Memories 1–8 for the Bank file. (p. 91)

**Calling up the desired song's panel settings from the Playlist in a single step**

Selecting the desired Playlist Record for calling up the corresponding linked Registration Memory. (p. 95)

## ■ Recording your keyboard performance

**Recording setup: Calling up a Registration Memory from the Playlist, etc.**



# Playing with Styles—Setting Up

This section gives you basic steps on how to enhance your keyboard performance with Styles (Rhythm and Auto Accompaniment). Follow the various instructions below for completely setting up your performance of a single Song, including a Style, Keyboard Parts (Voices), Multi Pad, and various types of controllers.

The settings made in this section can be collectively stored in the Registration Memory as one song setting (page 89).

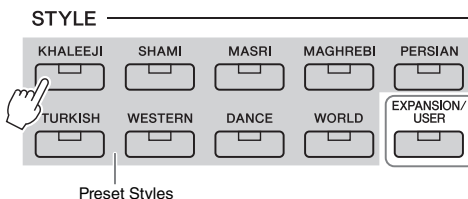
## Setting up Styles

### Selecting the desired Style and turning Auto Accompaniment (ACMP) on

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

**NOTE**

You can also call up the Style Selection display via the Home display (page 26).



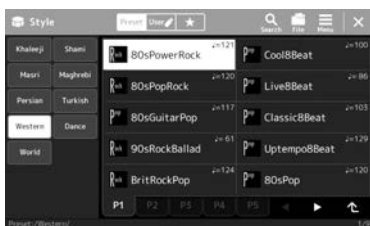
- **Expansion Styles**  
Styles additionally installed (page 100).
- **User Styles**  
Styles created with the Style Creator function (refer to the Reference Manual on the website), or Styles copied to the User drive (page 34).

**2** Touch the desired **Style**.

For example, touch the category [Western], and then [80sPowerRock].

**NOTE**

For basic operations of the Style Selection display, refer to "File Selection Display" (page 28).

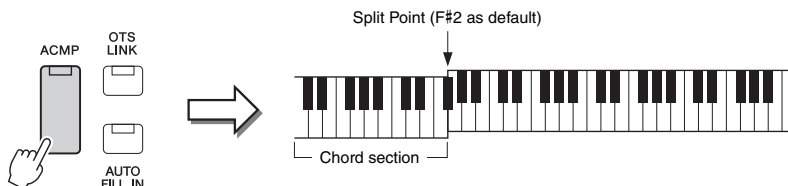


**3** Press the **STYLE CONTROL [ACMP]** button to turn on the **Auto Accompaniment**.

**NOTE**

The Split Point can be changed as desired (page 45).


When the button is turned on, both the rhythm part and auto accompaniment can be played back during Style playback.



At the same time, the specific left-hand section of the keyboard can be used as 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 If necessary, try out the selected Style.

Press the STYLE CONTROL [  ] (SYNC START) button, and then play chords with your left hand.

To stop Style Playback, press the STYLE CONTROL [  ] (START/STOP) button.

### NOTE

For more details on operating Style playback, refer to page 58.

### Style Characteristics

The particular type of Style is indicated the upper left of the Style name in the Style Selection display. The defining characteristics of these Styles and their performance advantages are described below.



- **Session:** These Styles provide even greater realism and authentic backing by mixing in original chord types and changes, as well as special riffs with chord changes, with the Main sections. These have been programmed to add “spice” and a professional touch to your performances of certain songs and in certain genres. Keep in mind, however, that the Styles may not necessarily be appropriate—or even harmonically correct—for all songs and for all chord playing. In some cases for example, playing a simple major triad for a country song may result in a “jazzy” seventh chord, or playing an on-bass chord may result in inappropriate or unexpected accompaniment.
- **Free Play:** These Styles are characterized by rubato performance. You can perform freely with remarkably expressive accompaniment, without being constrained by a strict tempo.
- **DJ:** These contain their own special chord progressions, so you can add chord changes to your performance simply by changing the root key. The Multi Pad (page 53) data in the “DJ Phrase” category are specially created for these Styles. You can call up the suitable Multi Pads by using the One Touch Setting function (page 43).

### NOTE

You cannot specify the chord type, such as major and minor, when using the DJ Styles.

For the Preset Style List, refer to the Data List on the website.

A Style generally consists of eight parts (channels): rhythm, bass, etc. You can add variations and change the feeling of a Style by selectively turning channels on/off or by changing the Voices (page 85).

In some particular Styles, some sections consist of only rhythm parts to showcase their musical characteristics. For details, refer to the Data List on the website.

### Style File Compatibility

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

## Adjusting the tempo

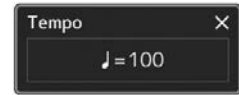
The TEMPO [-] and [+] buttons let you change the playback tempo of the Metronome, Style and MIDI Song. The tempo of the Style and MIDI Song can also be adjusted via the [RESET/TAP TEMPO] button.

### ● 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 changes the value continuously. Pressing both TEMPO [-] and [+] buttons calls up the default tempo of the last selected Style or Song.

#### NOTE

If you want to adjust the tempo of an Audio Song, use the Time Stretch function on page 72.



### ● [RESET/TAP TEMPO] button

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

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

During playback of a Style, you can rewind to the top of the section (“reset” the playback position, for stutter repeat effects) by tapping the [RESET/TAP TEMPO] button. This is called “Style Section Reset.”

#### NOTE

This button can also be set to change the tempo during Style playback, instead of Section Reset. The setting is made on the display called up via [MENU] → [Metronome] → [Tap Tempo]. For details, refer to the Reference Manual on the website.

## 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. Chord fingering type can be changed via the Split Point/Fingering window:

[MENU] → [Split & Fingering].

The following types can be selected:

### ● 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 finger your own chords on the chord section of the keyboard, while the instrument supplies appropriately orchestrated rhythm, bass, and chord accompaniment in the selected Style. The Fingered type recognizes the various chord types which are listed on the Data List on the website (page 9), and can be looked up using the Chord Tutor function called up via [MENU] → [Chord Tutor].

### ● 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 specific ways to play/indicate the chords. (Depending on the song arrangement, AI Full Keyboard may not always produce appropriate accompaniment.)

#### NOTE

When the chord detection area is set to “Upper” (page 47), only “Fingered\*” is available.

For other types, refer to the Reference Manual on the website (page 9).

#### NOTE

In the case of a specific fingering type (Fingered, Fingered On Bass, AI Fingered), you can create a state in which no chord is input by entering a special chord named “Cancel.” This is called as “Chord Cancel.” For more information on entering chords including “Cancel,” refer to the “Chord Types Recognized in the Fingered Mode” in the Reference Manual on the website.

## Optimum Panel Settings for the Current Style (One Touch Setting)


One Touch Setting is a powerful and convenient feature that automatically calls up the most appropriate panel settings (Voices, 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.

### 1 Select the desired Style (steps 1–2 on page 40).

### 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 and are most commonly used with 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, touch  (Menu) followed by [Style Information] to call up the Information window that shows what Voices are assigned to the ONE TOUCH SETTING [1]–[4] buttons for the current Style. You can call up the desired settings also by touching one of the One Touch Settings numbers 1–4 directly on the Information window.

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

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

#### NOTE

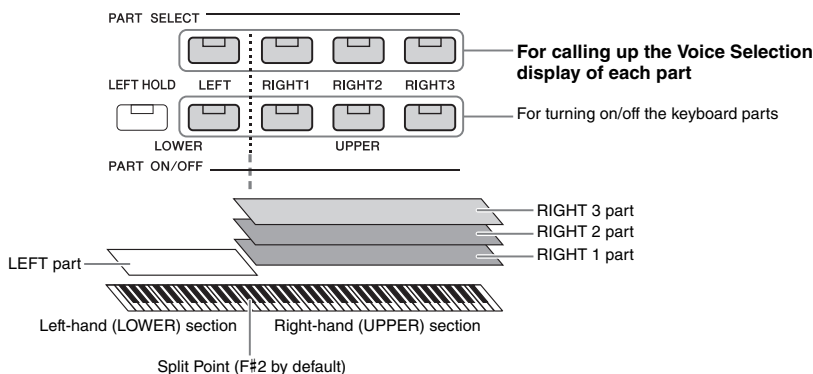
For information on panel settings that are called up by One Touch Setting, refer to the OTS section of "Parameter Chart" in the Data List on the website (page 9).

#### NOTE

You can automatically have the One Touch Settings change when you select a Main section (A–D) of the selected Style. For details, refer to "OTS LINK" (page 59).

## Setting up Keyboard Parts

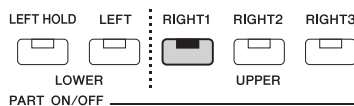
There are four keyboard parts for your manual performance: LEFT, RIGHT 1, RIGHT 2 and RIGHT 3, and each part has one Voice. You can combine these parts by using the PART ON/OFF buttons to create luscious instrument textures and convenient performance combinations.



## Creating combinations of keyboard parts (Layer, Split)

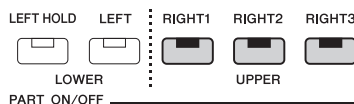
### ● To play one single Voice over the entire keyboard:

Turn on the RIGHT 1, 2 or 3 part. Make sure the LEFT part is turned off.



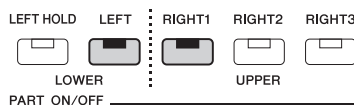
### ● To play two or three different Voices simultaneously (Layer):

Turn on two or more parts from RIGHT 1, 2 and 3.



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

Turn on the LEFT part and at least one of the RIGHT 1–3 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, 2 and 3 parts. The key which divides the keyboard into the left-hand and right-hand sections is referred to as the “Split Point.”



### Turning each keyboard part on/off from the display

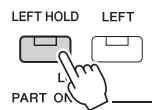
You can also turn parts on/off via the Home display, or the Voice Part Setup display. For details, see “Home Display” (page 26), or “Voice Part Setup Display” (Reference Manual on the web site).

### 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.

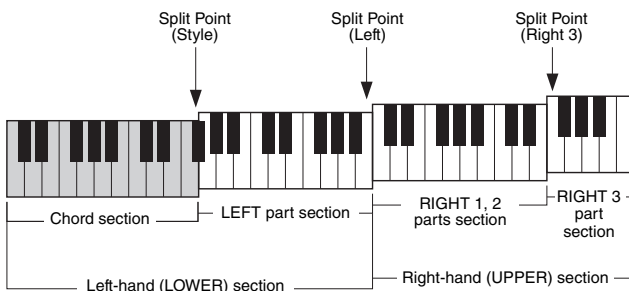
Non-decaying Voices such as strings are held continuously, while decay-type Voices such as piano decay more slowly (as if the sustain pedal has been pressed). This function is convenient when used along with Style playback since the sound of the chords matching Style playback are maintained.

To stop the LEFT part Voice from sounding, stop Style or Song playback, or turn the [LEFT HOLD] button off.



## Setting the Split Point

The key which divides the keyboard into two areas is referred to as “Split Point.” There are three types of Split Point: Split Point (Style), Split Point (Left), and Split Point (Right 3). You can set them individually (as shown).



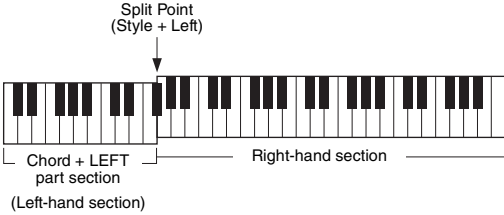
- **Split Point (Style):**.....Divides the left-hand (LOWER) section into the Chord section and the LEFT part section.
- **Split Point (Left):** .....Divides the keyboard into the left-hand (LOWER) section and the right-hand (UPPER) section.
- **Split Point (Right 3):**.....Divides the right-hand (UPPER) section into the RIGHT 1, 2 parts section and the RIGHT 3 part section.

### 1 Call up the Split Point/Fingering window.

[MENU] → [Split & Fingering]

### 2 Set the Split Point.



<p>① Split Point (Style + Left)</p>	<p>Sets Split Point (Style) and Split Point (Left) to the same note. In this case, the Chord Section and the LEFT part section occupy the same area.</p> <p>Specify the Split Point directly from the keyboard by simultaneously holding [Style + Left] on the display and pressing the desired key on the keyboard.</p> 
<p>② Split Point (Style, Left, Right 3)</p>	<p>Sets each Split Point individually.</p> <p>Specify the Split Point directly from the keyboard by simultaneously holding the corresponding item on the display and pressing the desired key on the keyboard.</p>

You can also specify each Split Point by note name, touching the [◀]/[▶] controls. Split Point (Style) is indicated by “Style,” Split Point (Left) is indicated by “Left,” and Split Point (Right 3) is indicated by “Right 3.”

 **NOTE**

Once you have touched [◀]/[▶], the Split Point type you are controlling is focused (corresponding indicator is colored). In this condition, you can change the value of the focused Split Point type by rotating the Data dial.

 **NOTE**

Split Point (Left) cannot be set lower than Split Point (Style), and Split Point (Right 3) cannot be set lower than Split Point (Left).

# Specifying chords with your right hand for Style playback

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 play chords for controlling Style playback.

## 1 Call up the Split Point/Fingering window.

[MENU] → [Split & Fingering]

## 2 Make the necessary settings by touching the display.

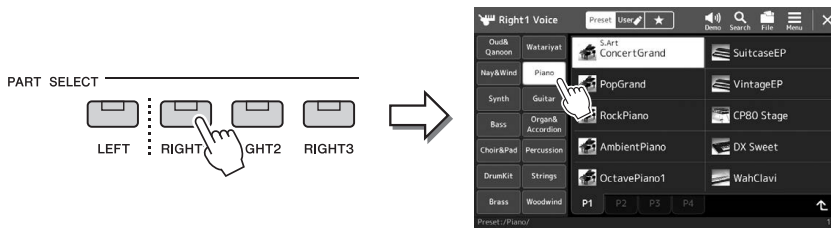


<p>Chord Detection Area</p>	<p>Select “Upper.” The Chord section is set to the right of the left Split Point. Fingering type is set to “Fingered*” automatically.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• “Fingered*” is basically same as “Fingered,” except that “1+5,” “1+8” and Chord Cancel are not available.</li> <li>• For information about when the “Chord Detection Area” is set to “Lower,” refer to “Setting the Split Point” (page 45).</li> </ul>
<p>Manual Bass</p>	<p>When this is set to “On,” the bass part of the current Style is muted and the Voice of the muted bass part is assigned to the left part.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• Manual Bass is set to “On” automatically by the default settings when you select “Upper” in the Chord Detection Area above.</li> <li>• This parameter is available only when the “Chord Detection Area” is set to “Upper.”</li> </ul>

# Selecting a Voice for Each Keyboard Part

## 1 Press the PART SELECT button corresponding to the desired part.

The Voice Selection display (for the desired part) appears.

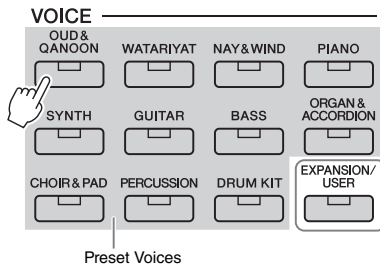


### NOTE

You can also call up the Voice Selection display via the Home display (page 26) or the Voice Part Setup display (Reference Manual on the web site).

## 2 Touch the desired Voice.

You can also select the sub category of the Voice by pressing one of the VOICE category selection buttons.



### • Expansion Voices

Voices additionally installed (page 100).

### • 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 34).

### NOTE

For basic operations of the Voice Selection display, refer to "File Selection Display" (page 28).

### To hear the characteristics of the Voices:

Touch (Demo) to start demo playback of the selected Voice. Touch (Demo) again to stop playback.

## 3 If necessary, try out the selected Voice.

Make sure that the desired keyboard part is turned on, and play the keyboard.

### Voice Characteristics

The Voice type and its defining characteristics are indicated above the Voice name. There are various Voice characteristics; however, only the following ones are covered here. For detailed explanations, refer to the Reference Manual on the website (page 9).

#### • S.Art (Super Articulation) Voices (page 63)

Lets you create subtle, very realistic expressive nuances, simply by how you play or by pressing a foot pedal connected to the FOOT PEDAL [2] jack.

#### • Organ Flutes Voices (page 49)

Lets you recreate all of the classic organ sounds by adjusting the flute footage levels and the percussive sounds, just like on conventional organs.

#### • Drums/SFX Voices

These let you play various drums and percussion instruments or SFX (sound effects) sounds on the keyboard, collected together in what are called Drum/SFX kits. For details, see the "Drum/SFX Kit List" of the Data List on the website.





# Creating Original Organ Flutes Voices


This instrument uses advanced digital technology to recreate the legendary sound of vintage organs. Just as on a traditional electronic organ, you can create your own sound by increasing and decreasing the levels of the flute footages. The created Voice can be saved for future recall.

**NOTE**

The term “footage” is a reference to the sound generation of traditional pipe organs, in which the sound is produced by pipes of different lengths (in feet).

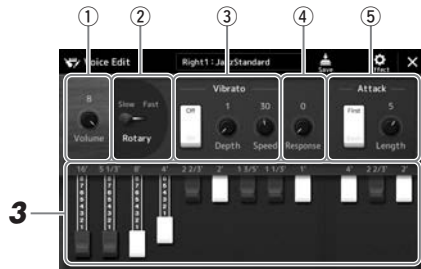
**1 On the Voice Selection display, select the desired Organ Flutes Voice.**

Touch the [Organ] in the sub categories, and then select the desired Organ Flutes Voice.

**2 Return to the Home display, and then touch  (Organ Flutes) located at the lower right of the Voice name to call up the Organ Flutes Voice Edit display.**

**3 Slide the Footage levers to adjust the footage settings.**

The footage settings determine the basic sound of the Organ Flutes.



**NOTE**

- The available parameters differ depending on the Organ type.
- You can also make Effects and EQ settings. For details, refer to the Reference Manual on the website (page 9).

You can also change other settings here, such as Rotary Speaker and Vibrato.

①	Volume	Determines the volume of the entire Organ Flutes sound.
②	Rotary Speaker	Alternately switches between the slow and fast rotary speaker speeds. This parameter is available only when an effect which contains “Rotary” or “Rot” in its name is applied.
③	Vibrato	Turns the vibrato on or off, and allows you to adjust the vibrato depth and vibrato speed.
④	Response	Adjusts the response speed of both the Attack and Release portions of the sound.
⑤	Attack	Switches between two different Attack modes: First and Each, and determines the length of the Attack sound.

**4 Touch  (Save) and save the created Organ Voice.**

For instructions on saving, refer to “File Management” (page 33).

**NOTICE**

The settings will be lost if you select another Voice or turn the power to the instrument off without executing the Save operation.

# Setting up Keyboard Harmony/Arpeggio

You can apply the Keyboard Harmony or Arpeggio features to enhance or change the sound of the right-hand parts (RIGHT 1–3). Keyboard Harmony applies performance effects such as harmony (duet, trio, etc.), echo, tremolo and trill to the notes played in the right-hand section. 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 and rhythmically dynamic phrases. This feature can be used for music production as well as live performance.

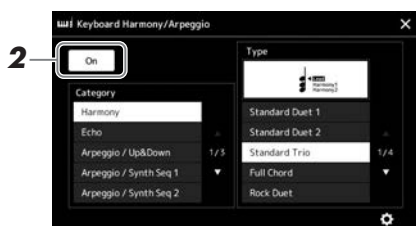
## NOTE

When you select another Voice for the RIGHT 1 part, the Keyboard Harmony/Arpeggio type is automatically set to the type which is memorized as the Voice Set. For details on the Voice Set function, refer to the Reference Manual on the website.

## Using Keyboard Harmony

### 1 Call up the operation display.

[MENU] → [Kbd Harmony/Arp]




### 2 Set the Keyboard Harmony/Arpeggio function to “On.”

When this is set to “On,” Keyboard Harmony is applied to your keyboard performance automatically.

### 3 Touch to select the desired category, “Harmony” or “Echo.”

### 4 Touch the desired Harmony or Echo type.

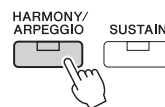
Touching  (detailed settings) calls up the detailed settings popup window. For more information, refer to the Reference Manual on the web site.

### 5 Play the keyboard.

The effect selected in step 4 is applied to the right-hand melody.

## NOTE

You can also set the function to “On” by turning the [HARMONY/ARPEGGIO] button on.



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

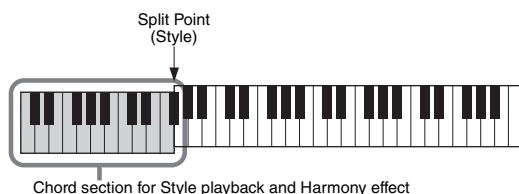
## ■ Keyboard Harmony category types (Harmony/Echo)

### ● Harmony Category

#### Standard Duet—Strum

These types apply the harmony effect to notes played in the right-hand section of the keyboard according to the chord specified in the left-hand section of the keyboard. (Note that the “1+5” and “Octave” settings are not affected by the chord.)

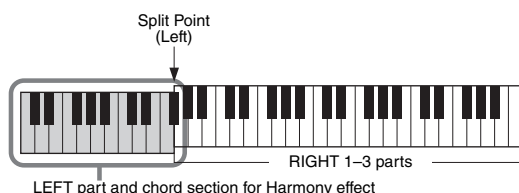
- When the [ACMP] button is on and the LEFT part is off:



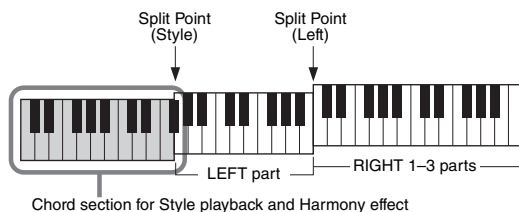
## NOTE

For details on the Split Point, refer to page 45.

- 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 the notes of chords you play on the right-hand section of the keyboard to separate parts (Voices). For example, if you play a three-note chord, the first note you press is played by the RIGHT 1 Voice, the second by the RIGHT 2 Voice, and the third by the RIGHT 3 Voice. The Multi Assign effect is not affected by the [ACMP] and LEFT part on/off status.

### ● 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 only 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.

## Using Arpeggio

### 1 Call up the operation display.

[MENU] → [Kbd Harmony/Arp]




### 2 Set the Keyboard Harmony/Arpeggio function to “On.”

When this is set to “On,” Keyboard Harmony is applied to your keyboard performance automatically.

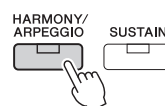
### 3 Touch to select a category other than “Harmony” or “Echo.”

### 4 Touch the desired Arpeggio type.

Touching  (detailed settings) calls up the detailed settings popup window. For more information, refer to the Reference Manual on the web site.

#### NOTE

You can also set the function to “On” by turning the [HARMONY/ARPEGGIO] button on.



## **5** 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.

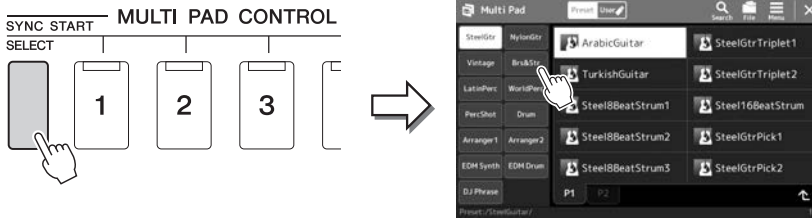
### **NOTE**

- By using the Arpeggio Quantize function, Arpeggio playback can be synchronized with Song/Style playback, allowing any slight imperfections in the timing to be corrected. This can be set in the display: [MENU] → [Voice Setting] → [Arpeggio].
- Arpeggio playback can be continued even after the note has been released, by assigning the Arpeggio Hold function to the footswitch. For instructions, refer to page 57.

# Setting up Multi Pads

## Selecting Multi Pads

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



### NOTE

You can also call up the Multi Pad Selection display via the Home display (page 26).

- 2 Touch the desired Multi Pad Bank.**

- 3 If desired, try out the selected Multi Pad(s).**

Simply press the MULTI PAD CONTROL [1]–[4] buttons to start playback of the corresponding phrase. To stop playback, press the [STOP] button.

For more information on Multi Pad playback control, refer to “Controlling Multi Pad Playback” (page 64).

### NOTE

For basic operations of the Multi Pad Selection display, refer to “File Selection Display” (page 28).

### Creating and Editing Multi Pads

You can create your original Multi Pads in one of three ways:

- Recording new phrases
- Editing existing Multi Pad phrases
- Linking with audio files (Audio Link Multi Pad)

Also, you can make your original Multi Pad Bank by managing each Multi Pad. For details, refer to the Reference Manual on the web site (page 9).

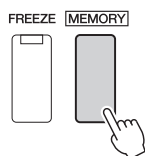
## Memorizing Original Panel Settings to One Touch Setting

You can memorize your original panel settings (mainly Style, Voices, and Multi Pads) to a One Touch Setting (OTS). The newly created One Touch Setting will be saved in the User drive or a USB flash drive as a Style, and you can call up the One Touch Setting as a part of the Style.

### NOTE

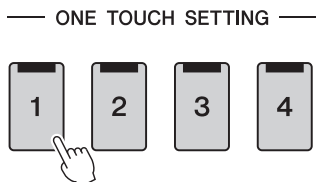
For information on which panel settings are memorized to One Touch Setting, refer to "Parameter Chart" in the Data List on the website (page 9).

- 1** Select the desired Style to memorize your One Touch Setting.
- 2** Make the desired panel settings, such as those for Voices and Effects.
- 3** Press the [MEMORY] button in the REGISTRATION MEMORY section.



A message appears. However, you do not need to make any settings here, since the On/Off settings in this display do not affect the One Touch Setting function.

- 4** Press the desired ONE TOUCH SETTING [1]–[4] button to which you wish to memorize your panel settings.



A message appears prompting you to save the panel settings at this time. To go on and memorize various panel settings to other buttons, touch [No], and then repeat steps 2–4 as necessary, finally saving all your new settings in Step 5 below.

- 5** Touch [Yes] to call up the Style Selection display for saving your data, and then save the current settings as a User Style.

For instructions on saving, refer to "File Management" (page 33).

### NOTE

For OTS buttons to which your panel settings have not been memorized, the OTS settings of the original Style will be maintained.

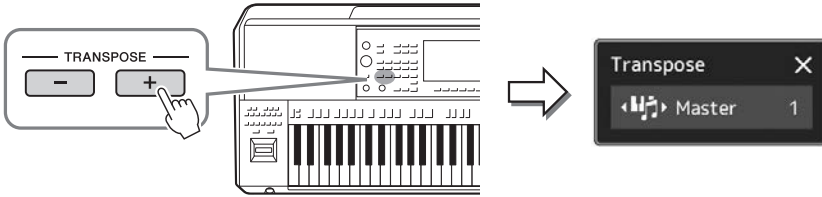
### **NOTICE**

The memorized One Touch Setting will be lost if you change the Style or turn the power off without carrying out the Save operation.

# Changing the Pitch of the Keyboard

## Transposing the pitch in semitones (TRANPOSE [-]/[+] buttons)

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



### NOTE

- If you want to transpose the pitch of the Audio Song, use the Pitch Shift parameter on page 72.
- The Transpose functions do not affect the Drum Kit or SFX Kit Voices.

You can independently select the part to be transposed as desired. Touch the Transpose pop-up several times until the desired part appears, and then use the TRANPOSE [-]/[+] buttons to transpose it.

### NOTE

Transpose can be done on the display also via [MENU] → [Transpose]. For details, refer to the Reference Manual on the website.

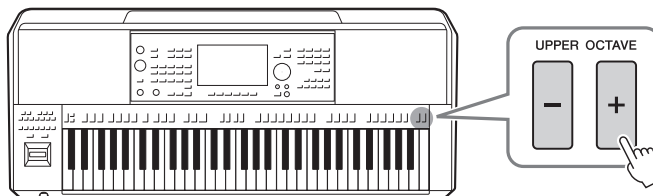
Master	Transposes the pitch of the entire sound, with the exception of the Audio Song and input sound from the [MIC/GUITAR INPUT] or the [AUX IN] jacks.
Keyboard	Transposes the keyboard pitch including the chord root for triggering Style Playback.
Song	Transposes the pitch of the MIDI Song.

### Fine Tuning the Pitch

By default, the pitch of the entire instrument is set to 440.0 Hz according to equal temperament. This setup can be changed from the display called up via [MENU] → [Master Tune]. For details, refer to the Reference Manual on the website.

## Transposing the pitch in octaves (UPPER OCTAVE [-]/[+] buttons)

The UPPER OCTAVE [-]/[+] buttons allow you to shift the pitch of the Right 1–3 parts up or down in octave units. To instantly reset the octave value to 0, press the [-] and [+] buttons simultaneously.

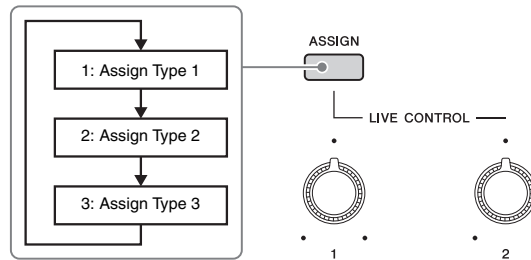


## Setting up Assignable Controllers

You can assign parameters and functions to the LIVE CONTROL knobs, the LIVE CONTROL joystick, the [STYLE TEMPO LOCK/ASSIGNABLE] button, or optional footswitches for quick operations and expressive control during your keyboard performance. The setup of assignable controllers is stored/recalled from the registration memory so you can change them all together at once.

### Selecting the Assign Types of the LIVE CONTROL knobs

Each setup of assigned parameters for knobs is called “Knob Assign Type.” There are three Knob Assign Types (1–3) and they can be switched in sequence by pressing the LIVE CONTROL [ASSIGN] button. The selected Assign Types for knobs will be reset when the power is turned off; however, these can be conveniently saved to Registration Memory (page 89).

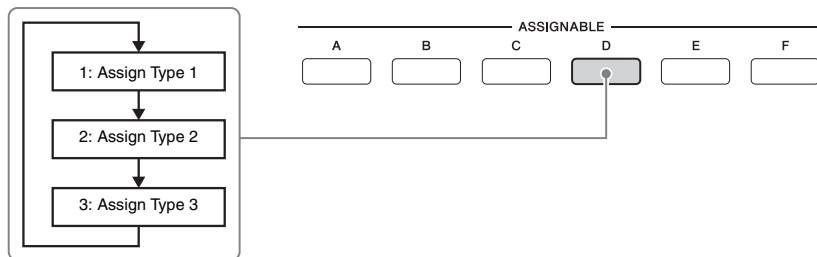


#### Editing the Assign Type of the knobs

Knob Assign Types 1–3 can be edited in the Edit display which is called up via [MENU] → [Live Control]. For details of editable items, refer to the Reference Manual on the website.

### Selecting the Assign Types of the LIVE CONTROL joystick

Each setup of assigned parameters for the joystick is called “Joystick Assign Type.” There are three Joystick Assign Types (1–3) and they can be switched in sequence by pressing the ASSIGNABLE [D] button by default. The selected Assign Types for the joystick will be reset when the power is turned off; however, these can be conveniently saved to Registration Memory (page 89).



#### Editing the Assign Type of the joystick

Joystick Assign Types 1–3 can be edited in the Edit display which is called up as follows: [MENU] → [Live Control]. For details of editable items, refer to the Reference Manual on the website.



## Assigning functions to the assignable buttons

Various functions can be assigned to the ASSIGNABLE [A]–[F] buttons and the [STYLE TEMPO LOCK/ASSIGNABLE] button.

- 1 To call up the Edit display, touch [MENU] → [Assignable].



- 2 Double-tap (touch twice) the desired item on the “Assignable Buttons” area (shown above).

The function selection pop-up window appears.

- 3 Touch the desired function.

### NOTE

There are some differences between the ASSIGNABLE [A]–[F] buttons and the [STYLE TEMPO LOCK/ASSIGNABLE] button on which functions can be assigned. For details on assignable functions, refer to the Reference Manual on the website.

## Assigning functions to footswitches/foot controllers

You can assign various functions to optional footswitches/foot controllers.

- 1 To call up the Edit display, touch [MENU] → [Assignable].



- 2 Double-tap (touch twice) the desired item in the “Foot Pedals” area (shown above).

The function selection pop-up window appears.

- 3 Touch the desired function.

### NOTE

- For details on assignable parameters and functions, refer to the Reference Manual on the website.
- For connecting footswitches/foot controllers, refer to “Connecting Footswitches/Foot Controllers” (page 107).

# Playing with Styles—Operations While Performing

If you've made all desired settings for a single song (in the previous sections), now you're ready to play the keyboard. This section mainly explains the various Style-related operations you'll use during your keyboard performance: Style playback, applying expressive effects, and Multi Pad playback.

## Operating Style Playback

### Starting and stopping Style playback

#### ● [START/STOP] button

Starts playback of the rhythm part of the current Style. To stop playback, press the button again.



#### Playing back both rhythm and auto accompaniment (ACMP)

If the [ACMP] button is turned on, 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

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

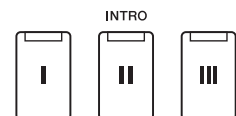


#### NOTE

When the Fingering type (page 42) is set to "Full Keyboard" or "All Full Keyboard," Sync Stop cannot be turned on.

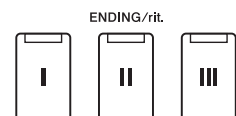
#### ● INTRO [I]–[III] buttons

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



#### ● ENDING/rit. [I]–[III] buttons

The instrument features three different Ending sections that let you add an ending before stopping Style playback. When you press one of the ENDING [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 button once again, while the ending is playing.



## Fading In/Out

The Fade In/Out function produces smooth fade-ins and fade-outs when starting/stopping the playback of a Style or Song. You can assign this function to the assignable buttons and foot pedals.

### NOTE

For information on assigning functions to each controller, refer to “Setting up Assignable Controllers” (page 56) and “Setting the Functions or Shortcuts to the ASSIGNABLE Buttons” (page 97).

- **To start playback with a fade-in:**

When playback is stopped, press the button/pedal to which this function has been assigned. Then press the [START/STOP] button for Style (or the [▶/⏸] (PLAY/PAUSE) button for MIDI Song).

- **To stop playback with a fade-out:**

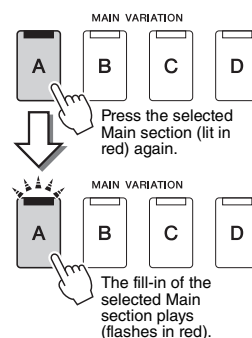
During playback, press the button/pedal to which this function has been assigned.

## Changing pattern variations (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.

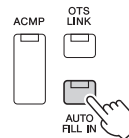
- **MAIN VARIATION [A]–[D] buttons**

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 or more and it plays indefinitely. Pressing the selected MAIN VARIATION button again plays an appropriate fill-in pattern to spice up the rhythm and break the repetition. After the fill-in finishes playing, it leads smoothly into the Main section.



### AUTO FILL IN 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.



### Style Section Reset

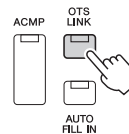
During playback of a Style, you can rewind to the top of the section (“reset” the playback position, for stutter repeat effects) by pressing the [RESET/TAP TEMPO] button (page 42).

### Style Section Change Timing

You can choose behavior when Style sections are changed. For details, 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 with the MAIN VARIATION [A]–[D] changes. To do this, call up the display via [MENU] → [Style Setting] → [Setting], then set the OTS Link Timing parameter. For details, refer to the Reference Manual on the website (page 9)

## ● [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, Style playback automatically shifts to the Main section.



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

- **Orange:** The section is currently selected.
- **Orange (flashing):** The section will be played next, following the currently selected section.
  - \* The MAIN VARIATION [A]–[D] button lamps also flash in orange when the fill-in is playing.
- **Blue:** The section contains data but is not currently selected.
- **Off:** The section contains no data and cannot be played.

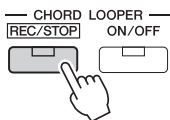
## Recording and Playing Back a Chord Sequence—Chord Looper

While playing back a Style, you usually specify chords with your left hand. However, with the convenient Chord Looper function, you can record a sequence of the chords and play it back in a loop. For example, if you record a “C → F → G → C” chord progression, Style playback will continue automatically with the chords “C → F → G → C → C → F → G → C → ...” Since the chords play back in a loop, you don’t need to repeat the chord pattern manually anymore—letting you focus on your performance and other operations.

### Loop playback a chord sequence while playing back the Style

You can record desired chord sequence instantly and loop it.

- 1 While playing back a Style, press the CHORD LOOPER [REC/STOP] button.**



#### NOTE

When the [REC/STOP] is turned on, the [ACMP] button is turned on automatically.

The [REC/STOP] button flashes to indicate the Chord Looper function is standby to record.

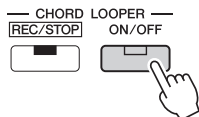
On the next measure of the Style, the [REC/STOP] button is turned on and the recording starts.

- 2 Enter the chords on the keyboard, according to the playback tempo of the Style.**



The chord sequence continues to be recorded until you stop recording in step 3.

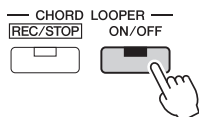
### 3 Press the CHORD LOOPER [ON/OFF] button to stop recording and start loop playback of the chord sequence.



Recording stops, and the [ON/OFF] button flashes in orange and loop playback standby is entered.

On the next measure of the Style, the [ON/OFF] button lights in orange, and the chord sequence recorded in step 2 will be played back in loop.

### 4 Press the CHORD LOOPER [ON/OFF] button to stop loop playback.



The playback of the chord sequence is stopped, and the Style will return to normal playback.

#### NOTE

While the chord sequence is played back, the [ACMP] button flashes, chord input from the keyboard is disabled, and the entire keyboard is only used for performance.

#### NOTE

- The [ON/OFF] button lights in blue to indicate the chord sequence has been recorded and loop playback stops.
- Pressing the [ON/OFF] button restarts loop playback of the chord sequence recorded on steps 1–3.

#### Advanced features of the Chord Looper function

You can start recording the chord sequence when Style playback is stopped, using SYNC START.

Also, you can save recorded chord sequences from the display called up via [MENU] → [Chord Looper].

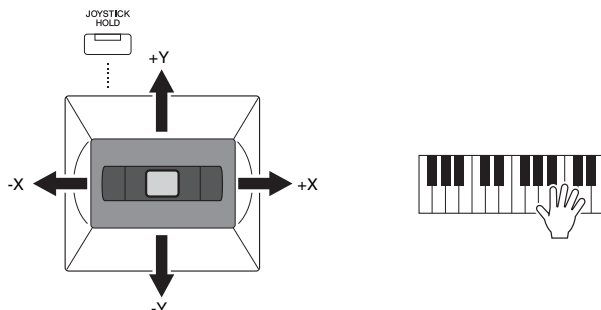
- Up to eight chord sequences can be memorized.
- You can save each chord sequence as a file individually for future recall.

For details, refer to the Reference Manual on the website.

# Expressively Controlling Your Performance

## Using the Joystick

By default, by moving the joystick in a horizontal (X) or vertical (Y) direction, you can bend the pitches up or down, or apply modulation effects. Move the joystick to control the sound while playing the keyboard.



### ● X: Pitch Bend

Bends pitches up (by moving the joystick to the right) or down (by moving the joystick to the left) while playing the keyboard. This is applied to all keyboard parts (RIGHT 1–3 and LEFT).

### ● Y: Modulation

The Modulation function applies a vibrato effect to notes played on the keyboard. By default, this is applied to the keyboard parts RIGHT 1–3.

You can assign various parameters to control with the joystick. For details, refer to the Reference Manual on the website.

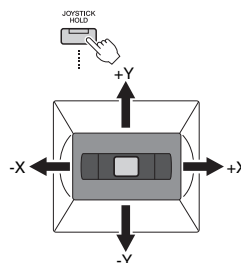
### NOTE

The effects of the Pitch Bend and the Modulation may not be applied to the LEFT part during Style playback, depending on the Style setting.

### Holding the values (JOYSTICK HOLD)

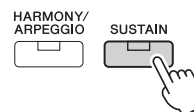
The Joystick is self-centering when released. However, you can hold the current values by pressing the [JOYSTICK HOLD] button.

- If the [JOYSTICK HOLD] button is turned on while the Joystick is moved, the values are fixed and held even after the Joystick is released. By default, only the value of the Y-axis is fixed and held. For details, refer to the Reference Manual on the website.
- If the [JOYSTICK HOLD] button is turned off, the held values are released.



## Applying sustain to the RIGHT 1–3 Voices

The [SUSTAIN] button turns the Sustain function on and off. When on, all notes played on the keyboard with the right-hand parts (RIGHT 1, 2, 3) have a longer sustain.



## Playing and Controlling Super Articulation Voices

The word “articulation” in music usually refers to the transition or continuity between notes. This is often reflected in specific performance techniques, such as staccato, legato and slur.

The Super Articulation Voices (S.Art Voices) enable you to create subtle, very realistic expressive nuances, simply by how you play. The Voice type (S.Art) is indicated above the name of Super Articulation Voices, on the Voice Selection display.

### NOTE

The applied articulation effect differs depending on the selected Voice. For details, refer to the Data List on the website.

## Automatic articulation effects of Super Articulation Voices

### ■ S.Art Voices

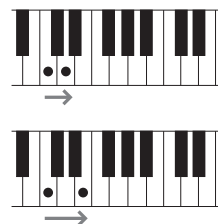
The S.Art Voices provide many benefits with great playability and expressive real-time control.

#### Example: Saxophone Voice

If you play a C note and then an adjacent D in a very legato way, you will hear the note change seamlessly, as though a saxophone player played it in a single breath.

#### Example: Concert Guitar Voice

If you play a C note and then the E just above in a very legato but firm way, the pitch slides up from C to E.



### NOTE

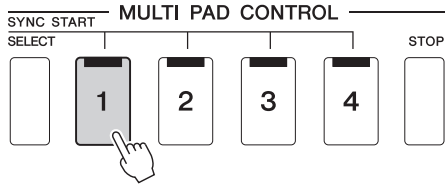
You can also add articulation sounds manually by using the functions “Articulation 1–2” when the Voice has the corresponding sounds. These functions can be assigned to the ASSIGNABLE buttons, the [STYLE TEMPO LOCK/ASSIGNABLE] button, or the foot pedals (pages 57, 97).

# Controlling Multi Pad Playback

## Playing the Multi Pads

### 1 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 the end. Others will be played back repeatedly (loop).
- Pressing the pad during its playback will stop playing and restart the phrase from the top.

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

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

#### NOTE

- While the Style or MIDI Song is playing back, pressing the Multi Pad button starts playback at the top of the next measure. When the Style or MIDI Song is stopped, pressing the Multi Pad button starts playback immediately.
- While the Style or MIDI Song is playing back, pressing the STYLE CONTROL [START/STOP] or MIDI [▶/■] (PLAY/PAUSE) button also stops playback of the Multi Pad(s). While both the Style and MIDI Song are playing back, pressing the MIDI [▶/■] (PLAY/PAUSE) button stops playback of the Song, Style and Multi Pad(s). This behavior can be changed with settings on the Song Setting and Style Setting displays. For details, refer to the Reference Manual on the website.

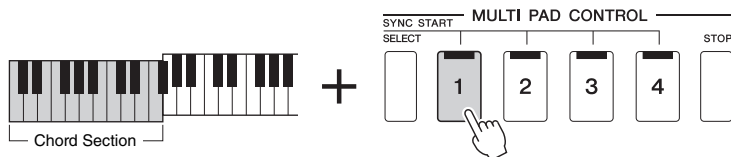
#### About the lamp status of the MULTI PAD CONTROL [1]–[4] buttons

- **Blue:** Indicates that the corresponding pad contains data (phrase).
- **Orange:** Indicates that the corresponding pad is playing back.
- **Orange (flashing):** Indicates that the corresponding pad is in standby (Synchro Start; refer to page 65).
- **Off:** Indicates the corresponding pad contains no data and cannot be played.

#### 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.

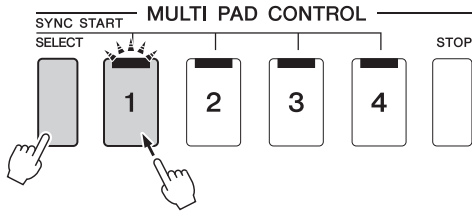


## Using the Multi Pad Synchro Start Function

You can also 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 orange, indicating 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 enable standby for a Multi Pad 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 standby status, pressing any one of them starts simultaneous playback of all of them.

This section explains how to set up for your singing performance with Songs, using Song selection.

As is the case in Chapter 1, the settings made in this section can be collectively stored in the Registration Memory as one song setting (page 89).

## Setting Up Song Playback

### Songs—MIDI and Audio

---

For this instrument, “Song” refers to MIDI or audio data which include preset songs, commercially available music files, etc. Not only can you playback a song and listen to it, but you can also play the keyboard or sing along with Song playback.

There are two kinds of Songs that can be recorded and played back on this instrument: MIDI Songs and Audio Songs.

#### ● MIDI Songs

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 (of the instrument, etc.) outputs the corresponding sound. Since MIDI Song data contains the information such as keyboard part and Voice, you can play more effectively by viewing the score, turning the particular part on or off, or changing Voices.

#### ● Audio Songs

An Audio Song is a recording of the performed sound itself. This data is recorded in the same way as that used in recording cassette tapes, or with voice recorders, etc. Audio Songs can be played back on portable music players and many other devices, making it easy for you to let others hear what you have played.

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

#### NOTE

Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 108.

## Song File Compatibility

You can play back the following types of Songs.

- Preset Songs (MIDI Songs)
- Your own recorded Songs (for instructions on recording, see page 87)
- Commercially available Songs: MIDI files in SMF (Standard MIDI File) format, Audio files in WAV or MP3 format.

**WAV** ..... 44.1 kHz sample rate, 16 bit resolution, stereo

**MP3** ..... 44.1/48.0 kHz sample rate, 64–320 kbps bit rate or VBR, mono/stereo

### NOTE

- For a general overview of MIDI and how you can effectively use it, refer to "MIDI Basics" on the website (page 9).
- For information on compatible MIDI formats, refer to page 8.

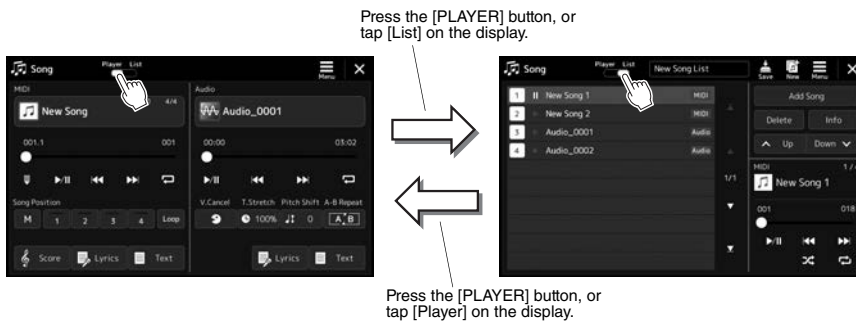
## Switching Song playback modes

This instrument features two Song playback modes: Song Player and Song List. The Song Player mode simultaneously plays back both a MIDI Song and an Audio Song. The Song List mode plays back Songs continuously along with a previously created Song List.

### 1 Press the [PLAYER] button to call up the Song Playback display.

The Song Player function or Song List is displayed, depending on which you selected last time.

### 2 Touch the display or press the [PLAYER] button to switch the Song playback mode.



## Selecting Songs (Song Player mode)

- 1 Press the [PLAYER] button to call up the Song Playback display. Make sure that Song Player mode is selected.




- 2 Touch the Song name in the MIDI or Audio area.

The Song Selection display for the corresponding Song type (MIDI or Audio) appears.


- 3 Select the desired Song.

### Viewing Audio information

When an Audio Song is selected on the Song Selection display, touching  (Menu) then [Audio Information] calls up the information window.

For detailed playback operations, refer to page 70.

### NOTE

- For basic operations of the Song Selection display, refer to "File Selection Display" (page 28).
- You can call up the display of Song playback related settings, via  (Menu) → [Song Setting].
- You can adjust the volume balance between MIDI Song playback and Audio Song playback, using the LIVE CONTROL knob/joystick to which "MIDI/Audio Song Balance" has been assigned. For details in assigning the LIVE CONTROL knob function, refer to the Reference Manual on the website.


## Selecting Songs (Song List mode)

- 1** Press the [SONG] button to call up the Song Playback display. Make sure that Song List mode is selected.



## 2 Prepare a Song List

### ● When creating a new Song List

Touching  (New) on the display allows you to create a new Song List.

For details on how to edit the Song List, refer to the Reference Manual on the website.

### ● When selecting an existing Song List

**2-1** Call up the Song List File Selection display by touching the Song List name.

**2-2** Touch the desired Song List file.

## 3 Touch the desired Song from the selected Song List.

The selected Song is highlighted.

For detailed playback controls, refer to page 70.

For information on controlling continuous playback of the Songs on the list, refer to the Reference Manual on the website.

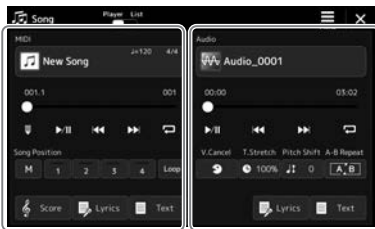
# Singing with Song Playback—Operations While Performing

This section explains operations you can do during your singing performance with Songs: Song playback, displaying score and lyrics, and Audio Song, and switching microphone-related functions.

## Controlling Song Playback

Song playback can be controlled by pressing buttons on the panel or from the Song Playback display which is called up by pressing the SONG [PLAYER] button. The control displays for MIDI Song and Audio Song (if used) appear, allowing you to control the currently selected Songs on the screen.

### Song Playback display



Song Player mode  
(MIDI Song, Audio Song)

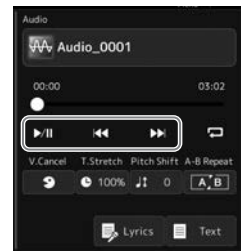
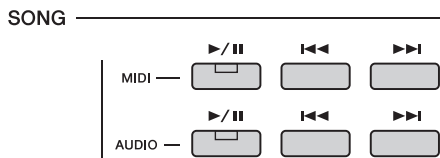


Song List mode  
(Common for MIDI and Audio Songs)

### NOTE

- For details on MIDI Song/Audio Song, switching between Song playback modes, and Song selection, refer to page 66.
- In the Song List mode, only basic playback operations are possible. On the other hand, you can playback multiple Songs continuously. For details, refer to the Reference Manual on the website.

## Basic playback operations (for MIDI and Audio Songs)



### ■ Play/Pause ([▶/||] (PLAY/PAUSE) button)

Press the [▶/||] (PLAY/PAUSE) button (or touch ) to start playback of the corresponding Song (MIDI or Audio). During playback, pressing it pauses playback. Pressing it again resumes Song playback from the current position.

### ■ Selecting previous/next Song ([◀◀] (PREV) or [▶▶] (NEXT) button)

Press the [◀◀] (PREV) or [▶▶] (NEXT) button (or touch or ) to select the previous/next Song. In the Song player mode, this operation selects the previous/next Song file in the same folder. In the Song List mode, this operation selects the previous/next Song on the Song List.

### ■ Rewind/Fast Forward ([◀◀] (PREV) or [▶▶] (NEXT) button)

Hold the [◀◀] (PREV) or [▶▶] (NEXT) button ( or ) to move backward/forward continuously through the current file.

### NOTE

You can change the behavior when pressing the [◀◀] (PREV) button so that it only returns the playback position to the Song top and does not move to the previous Song, on the display called up via [MENU] → [Song Setting] → [Play]. For details, refer to the Reference Manual on the website.

### Moving the Song Playback Position (Song Position pop-up window)

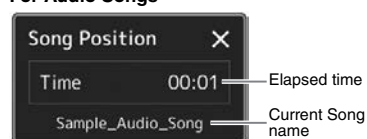
When you press and hold the [◀◀] (PREV) or [▶▶] (NEXT) button, a setting display appears showing the current position of the Song. When the window is shown on the display, you can also use the Data dial to move backward/forward continuously through the current file.

The Phrase Mark number appears only when a MIDI Song containing Phrase Marks is selected. You can select whether the Song playback position moves backward or forward in Bar or Phrase Mark units by touching the setting display beforehand.

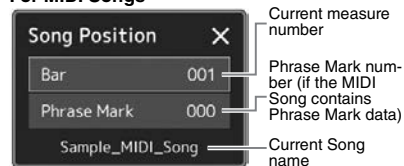
#### NOTE

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

#### For Audio Songs



#### For MIDI Songs




### Moving the Song Playback Position (progress bar on the display)



In each Song area, the current position of the Song playback is shown. This can be moved forward or backward by moving the slider on the display.

### Queuing the next Song for playback

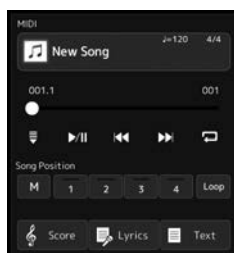
While a MIDI Song is playing back, you can queue up the next MIDI Song for playback. This is convenient for chaining it to the next Song smoothly during live performance. To queue up, select the Song you want to play next in the Song Selection display, while a Song is playing back. The “Next” indication appears at the upper right of the corresponding Song name. To cancel this setting, touch  (Next Cancel) on the Song Selection display.

You can also queue up the next Audio Song for playback while a Audio Song is playing back, in the same way as for a MIDI Song.


#### NOTE

When the Recording function is used, the queue for playback is canceled.

## Playback Operations exclusively for MIDI Songs



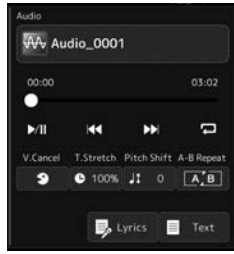
### ■ Synchro Start

You can conveniently start playback of a MIDI Song as soon as you start playing the keyboard. Touching  (Synchro start) puts Synchro Start in standby status, regardless of whether the Song is currently playing or stopped. To cancel the Synchro Start function, repeat the same operation.

### ■ Playback Using Song Position Markers ([M], [1]–[4], [Loop])


Using Song Position markers, you can navigate quickly and easily through the MIDI Song data, as well as set up convenient playback loops, for ease in song arranging. For details, refer to “Using Song Position Markers” (page 73).

# Playback Operations exclusively for Audio Songs





## ■ Vocal Cancel

This lets you cancel or attenuate the center position of the stereo sound in Audio Song playback. This lets you sing “karaoke” style with just instrumental backing, or play the melody part on the keyboard, since the vocal sound is usually at the center of the stereo image in most recordings.

To turn the Vocal Cancel function on/off, first select an Audio Song, and then turn on/off  (Vocal Cancel).

## ■ Time Stretch

Like Tempo adjustment of a MIDI Song, this lets you adjust the playback speed of an Audio Song by stretching or compressing it. To do this, touch  100% (Time Stretch) to call up the setup window. Touch  in this window to set the value (from 70% to 160%). Higher values result in a faster tempo.

## ■ Pitch Shift



Like the Transpose function of the MIDI Song, this lets you shift the pitch of an Audio Song in semitone steps (from -12 to 12).

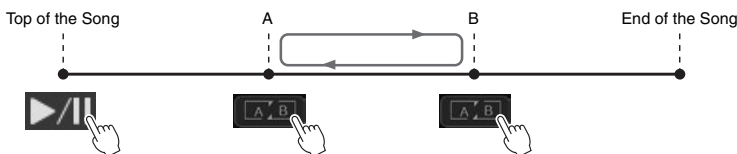
## ■ A-B Repeat Playback

This lets you repeatedly play back a specified range (between points A and B).

**1** Touch  (Play/Pause) to start playback.

**2** Specify the repeat range.

When playback reaches the point you want to specify as the starting point (A), turn on  (A-B Repeat). When playback reaches the point you want to specify as the ending point (B), touch  (A-B Repeat) again. The range from Point A to Point B will be played back repeatedly.



**3** To cancel A-B repeat playback, turn off  (A-B Repeat).

The time of point A and B are cleared, and Repeat Playback is canceled.



### NOTE

Though the Vocal Cancel function is highly effective on most audio recordings, the vocal sound on some songs may not be completely cancelled.

### NOTE

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

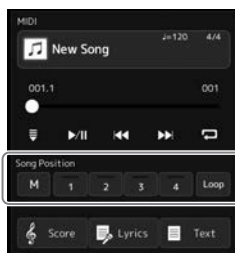
### Specifying the repeat range while Song playback is stopped

1. Fast-forward the Song to Point A, and then turn on  (A-B Repeat).
2. Fast-forward the Song to Point B, and then touch  (A-B Repeat) again.



## Using Song Position Markers (MIDI Songs only)

Song Position markers (SP1–SP4) can be placed in the MIDI Song data. These not only let you navigate quickly and easily through the MIDI Song data, but also let you set up convenient playback loops—allowing you to create dynamic Song arrangements “on the fly,” as you perform.



### Entering Song Position Markers

- 1** Select the desired MIDI Song (page 68), and start playback (page 70).
- 2** Enter the Song Position markers.
  - 2-1** Touch **M** (Song Position Memorize) to turn it on.
  - 2-2** When the Song reaches the point at which you wish to enter a marker, touch the desired marker number ([1]–[4]) on the display.  
The corresponding Song Position marker is entered, and Song Position Memorize is automatically turned off.
- 3** As desired, enter other markers in the same way as step 2.
- 4** Pause Song Playback (page 70).
- 5** Save the Song.
  - 5-1** Touch the Song name to call up the Song Selection Display.
  - 5-2** Save the Song file (page 33).

#### **NOTICE**

The entered marker settings will be lost if you change to another Song or you turn the power off without executing the Save operation.

#### **About the status of Song Position [1]–[4]**

- **Off:** Song Position is not entered to the button.
- **Green:** Song Position is entered to the button.
- **Red (flashes):** Playback jump is ready. See below (“Jumping to a Song Position Marker during playback”).
- **Red:** The Song Position has been passed and Song playback continues to the next Song button.

### Jumping to a Song Position Marker during playback

Simply touching the one of the Song Position [1]–[4] during Song playback jumps to the corresponding position, after the current played measure reaches its end. (The button will flash in red, indicating that playback jump is ready.) You can cancel the jump by touching the same Song Position again before the actual jump.

### Starting playback from a specific Marker


First, touch one of Song Position [1]–[4] while Song playback is stopped, and then start playback (page 70).

## Using Markers in loop playback

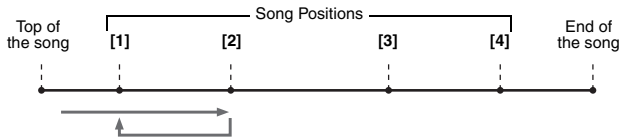
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In this section, we'll explain loop playback by the example of looping between markers [1] and [2].

**1** Touch  (Play/Pause) to start playback from the top of the Song.

**2** After passing the [1] point, touch  (Loop) to turn the loop function on.

The Song plays back up to the [2] point, then goes back to [1] and loops between the two points.



**3** To stop the loop and continue normal playback, touch  (Loop) again.

When this is turned off, playback continues past the [2] point.

# Displaying Score, Lyrics, and Text files during Playback

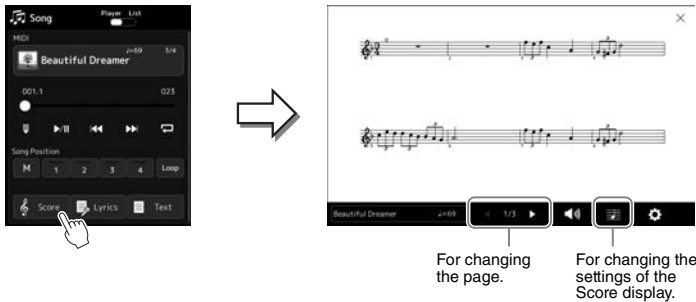
## Displaying the music notation (Score) of a MIDI Song

You can view the music notation (score) of the selected MIDI Song. We suggest that you read through the music notation before starting to practice.

**1** Select a MIDI Song (page 68).

**2** Touch  (Score) on the Song Playback display to call up the Score display.

You can look through the entire notation by touching [◀] or [▶] when Song playback is stopped. While the Song is playing back, the “ball” bounces along through the score, indicating the current position.



### NOTE

- You can call up the Score display as well, via [MENU] → [Score].
- The instrument can display the music notation of commercially available music data or your own recorded Songs.
- 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.

### Changing the Size of the Score and Displaying Lyrics in a Score

By touching the note icon shown on the lower right of the display, you can change the settings of the Score display, such as changing the size of the score, or displaying note names or lyrics within the score, and so on. For details on the Score display, refer to the Reference Manual on the website.

### NOTE

Lyrics can be shown only when the Song contains lyric data.

## Displaying Lyrics of the Song

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When the selected Song contains lyric data, you can view it on the instrument's display during playback.

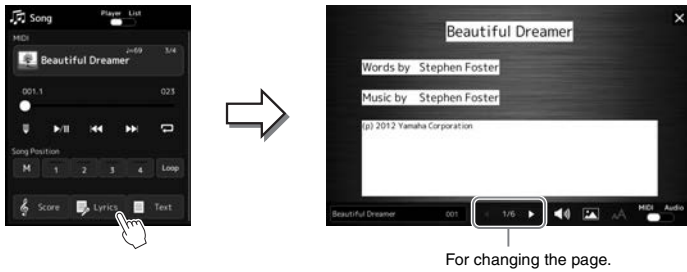
### 1 Select a Song (page 68).

### 2 Touch (Lyrics) on the Song Playback display to call up the Lyrics display.

When the Song data contains lyrics data, the lyrics are shown on the display. You can look through the entire lyrics by touching [◀] or [▶] when Song playback is stopped. While the Song is playing back, the color of the lyrics changes, indicating the current position.

#### NOTE


- You can call up the Lyrics display as well, via [MENU] → [Lyrics].
- Audio Songs can also show lyrics as well as MIDI Songs, if the particular Song contains compatible lyrics data. For details, refer to the Reference Manual on the website.



For details on the Lyrics display, refer to the Reference Manual on the website.

## Displaying Text

---

Regardless of whether a Song is selected or not, you can view computer-created text files (.txt) on the instrument's display. To call up the display, touch  (Text) on the Song Playback display. This feature enables various useful possibilities, such as the showing of lyrics, chord charts and performance notes. For details on the Text display, refer to the Reference Manual on the website.

## Using the Talk function

The Talk function lets you instantly change the microphone settings for speaking to your audience. This is useful when you want to make announcements between song performances without distracting reverb effects, etc.

### 1 Call up the Mic Setting display via [MENU] → [Mic Setting].



### 2 Touch [Talk] on the display to turn on the Talk function.

To turn the function off, touch [Vocal] on the display.

You can also change the Talk settings to suit your preferences. For details, refer to the Reference Manual on the website.

#### NOTE

To get the most convenient use of this function, you can assign a foot pedal or one of the ASSIGNABLE buttons to turn the Talk function on/off during a performance. For details, refer to the Reference Manual.

# 5

# Selecting and/or Creating a Temperament (Scale Tune)

You can change the temperament of the instrument to fit the music you want to play. The operation display can be called up via [MENU] → [Scale Tune].

## Basic Structure of Scale Tune

There are two ways to change the temperament; Main Scale and Sub Scale.

### ● Main Scale:

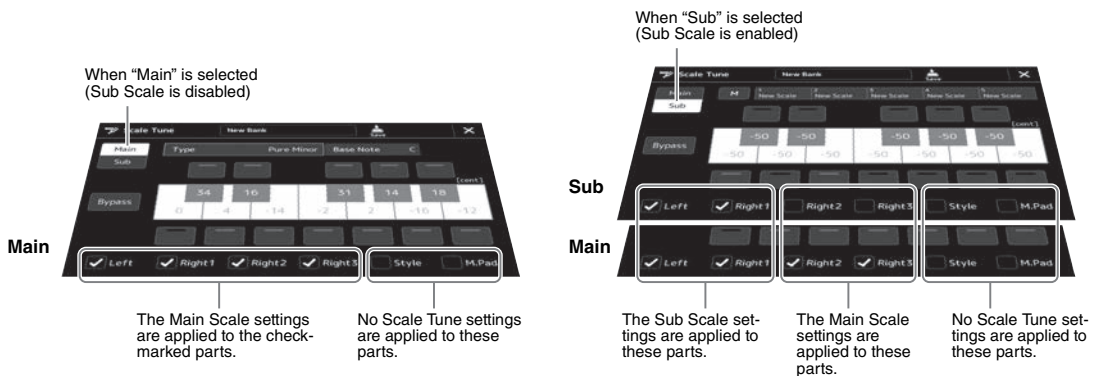
Sets the basic scale of the instrument. You can choose from an existing scale type or adjust it manually. The setting can be saved and called up by the Registration Memory function.

### ● Sub Scale:

Temporarily changes the scale only while the Sub Scale is enabled (e.g., when selected by pressing one of the SCALE TUNE MEMORY [1]–[5] buttons). This lets you temporarily set a Scale Tune setting (which is different from the Main Scale setting) to the desired parts. This setting takes priority over the Main Scale setting, regarding the checkmarked parts (see below). You can manually adjust the setting that can be memorized to the SCALE TUNE MEMORY [1]–[5] buttons or [1]–[5] on the Scale Tune display for instant recall.

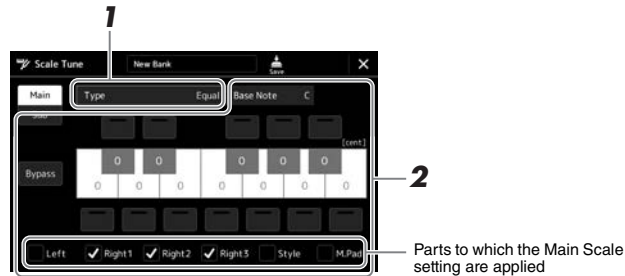
You can enable/disable the Sub Scale by touching “Main/Sub” on the display, or by using the function “Scale Tune Quick Setting” that can be set to the assignable buttons or foot pedals. For details, refer to the Reference Manual on the website.

For which settings are applied to each part depending on the checkmarks on the display, see the examples below.



# Selecting or Creating a Temperament from the Preset Types (Main Scale)

You can select various scales for playing in custom tunings for specific historical periods or music genres.



## 1 Select the desired Scale type (temperament).

Type	<ul style="list-style-type: none"> <li>• <b>Equal:</b> The pitch range of each octave is divided equally into twelve parts, with each half-step evenly spaced in pitch. This is the most commonly used tuning in music today.</li> <li>• <b>Pure Major, Pure Minor:</b> These tunings preserve the pure mathematical intervals of each scale, especially for triad chords (root, third, fifth). You can hear this best in actual vocal harmonies—such as choirs and a cappella singing.</li> <li>• <b>Pythagorean:</b> This scale was devised by the famous Greek philosopher and is created from a series of perfect fifths, which are collapsed into a single octave. The 3rd in this tuning is slightly unstable, but the 4th and 5th are beautiful and suitable for some leads.</li> <li>• <b>Mean-Tone:</b> This scale was created as an improvement on the Pythagorean scale, by making the major third interval more “in tune.” It was especially popular from the 16th century to the 18th century. Handel, among others, used this scale.</li> <li>• <b>Werckmeister, Kirnberger:</b> This composite scale combines the Werckmeister and Kirnberger systems, which were themselves improvements on the mean-tone and Pythagorean scales. The main feature of this scale is that each key has its own unique character. The scale was used extensively during the time of Bach and Beethoven, and even now it is often used when performing period music on the harpsichord.</li> <li>• <b>Bayati, Rast, Rast Jaharka, Rast Nawa, Rast Hosseini:</b> Use these tunings when playing Arabic music.</li> </ul>
------	--

## 2 Change the following settings as necessary.

Base Note	Determines the base note for each scale. When the base note is changed, the pitch of the keyboard is transposed, yet maintains the original pitch relationship between the notes.
Tune	<p>Touch the desired key of the keyboard illustration on the display, and then tune it in cents. The boxes at the upper and lower side of each key determines whether the tune setting is applied to the note. You can turn this on/off by touching it when the value is something other than 0. If you edit this parameter, “(Edited)” is shown at the right of “Type” in step 1.</p> <p><b>NOTE</b> In musical terms a “cent” is 1/100th of a semitone. (100 cents equal one semitone.)</p>
Bypass	Turning this on with the [BYPASS] button or [Bypass] on the Scale Tune display disables all the Scale Tune settings temporarily. This lets you hear the sound for comparison purposes.
Parts (Left, Right 1, etc.)	Checkmark the part to which the Main Scale setting is applied.

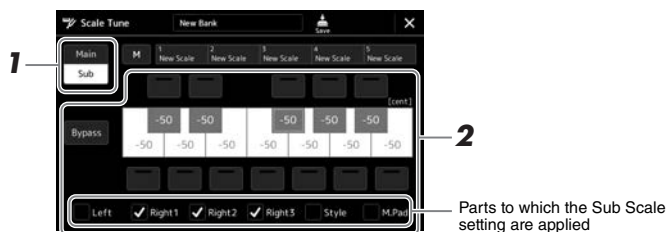
### To store the Scale Tune (Main Scale) settings

If you want to store the Scale Tune (Main Scale) settings, use the Registration Memory. Press the [MEMORY] button in the REGISTRATION MEMORY section, then checkmark “Scale Tune” and press one of the REGISTRATION MEMORY [1]–[8] buttons to register the Scale Tune settings.

## Creating and Using a Temperament (Sub Scale)

You can create your own scales using the Sub Scale setting. This setting, when being edited, takes priority over the Main Scale setting. The setting is effective only while the Sub Scale is enabled (e.g., “Sub” is selected on the Scale Tune display)

### 1 On the Scale Tune display, touch [Sub] to select the Sub Scale setting.



The Sub Scale setting is applied to checkmarked parts on bottom of the display. Even if the Sub Scale is selected, the Main Scale setting is applied to the parts which are not checkmarked on bottom of the Sub Scale display but checkmarked on the Main Scale display.

### 2 Change the following settings.

Tune	<div style="text-align: center;"> </div> <p>You can easily lower the pitches of the desired note by 50 cents. Turning the boxes on/off in the following ways lets you determine whether the tune setting is applied to the note or not.</p> <ul style="list-style-type: none"> <li>• Pressing the SCALE TUNE SETTING buttons</li> <li>• Touching the boxes at the upper and lower side of the keyboard illustration</li> </ul> <p>You can also adjust the tune value by touching the desired key illustration and tune it in cents.</p>
Bypass	Turning this on with the [BYPASS] button or [Bypass] on the Scale Tune display disables all the Scale Tune settings temporarily. This lets you hear the sound for comparison purposes.
Parts (Left, Right 1, etc.)	Checkmark the part to which the Sub Scale setting is applied.

If you return to the home display in this condition, the Sub Scale setting remains enabled.

### 3 To stop using the Sub Scale setting, touch [Main] on the Scale Tune display.

The Sub Scale setting is disabled, and all Sub Scale tune settings are reset to their default values.

#### NOTE

The Sub Scale setting is also disabled and reset to default when the power of instrument is turned off.

#### NOTE

You can enable/disable the Sub Scale setting and make the Sub Scale setting quickly, using the function “Scale Tune Quick Setting,” which can be assigned to the assignable buttons or foot pedals. For details, refer to the Reference Manual on the website.



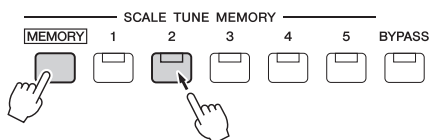
## Memorizing the Sub Scale Setting

The Sub Scale setting you make (using the SCALE TUNE SETTING buttons and in the Scale Tune display) can be memorized to the SCALE TUNE MEMORY buttons for instant recall.

- 1 Set up the settings of Sub Scale as desired, using the SCALE TUNE SETTING buttons and the parameters in the Scale Tune display.**
- 2 While holding the SCALE TUNE MEMORY [MEMORY] button, press one of the SCALE TUNE MEMORY [1]–[5] buttons (the desired one for memorizing the Sub Scale setting).**

### NOTE

The data memorized are the name, on/off, tuning values and enabled parts of Sub Scale Tune.



The corresponding SCALE TUNE MEMORY button lights. Any data that was previously in the selected location is erased and replaced by the new Sub Scale setting.

### About the lamp status of the [1]–[5] buttons

- **On:** Data registered and currently selected
- **Off:** No data registered, or not currently selected

### NOTE

The [BYPASS] button lights up when Bypass is on.

- 3 Memorize the Sub Scale settings to the other buttons by repeating steps 1 and 2.**

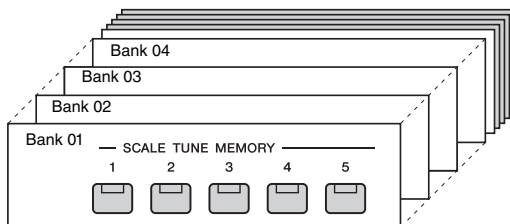
The memorized Sub Scale settings can be recalled by simply pressing the desired number button.

### **NOTICE**


The scale settings memorized to the numbered button will be lost if you turn the power to the instrument off without carrying out the Save operation (see below).

## Saving the Scale Tune Memory as a Bank File

The Sub Scale settings memorized to the SCALE TUNE MEMORY [1]–[5] buttons can be saved as a single Scale Tune Memory Bank file.



**1** Make sure the Sub Scale settings you want to save are memorized to the SCALE TUNE MEMORY [1]–[5] buttons.

**2** Touch  (Save) to save the Bank file.

For instructions on saving, refer to “File Management” (page 33).

## Recalling a Memorized Sub Scale Setting

The memorized Sub Scale settings can be recalled by selecting the Scale Tune Memory Bank file as described below.

**1** Call up the Scale Tune display via [MENU] → [Scale Tune].

**2** Touch the Bank file name to call up the pop-up window.



**3** Touch and select the desired Bank on the display.

**4** Touch and select the desired Sub Scale setting.

You can also use the SCALE TUNE MEMORY [1]–[5] buttons to select the Sub Scale setting.

# Adjusting the Parameters of Each Part— Mixer

The Mixer gives you intuitive control over aspects of the keyboard parts and Song/Style 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 determine how the effects are applied. This section covers the basic procedures for the Mixer. For details, refer to the Reference Manual on the website.

## Basic Procedure for the Mixer

**1** Press the [MIXER/EQ] button to call up the Mixer display.



**2** Touch the appropriate tab for editing the balance among the desired parts.

**NOTE**

You can also switch among the tabs by pressing the [MIXER/EQ] button.

Panel	Use this display when you want to adjust the balance among the entire Style part, entire Multi Pad part, Left part, Right 1–3 parts, entire MIDI Song part, Audio Song part, Mic part, Aux In Audio part, and the Wireless LAN Audio part (*). * An audio input via the optional wireless LAN adaptor. The optional USB wireless LAN adaptor may not be available depending on your area.
Style	Use this display when you want to adjust the balance among the channels of the Style. About each channel, refer to “Style Channels” (page 85).
M.Pad	Use this display when you want to adjust the balance among the four Audio Link Multi Pads.
Song	Use this display when you want to adjust the balance among all the parts of the MIDI Song.
Master	Unlike the other displays, use this display when you want to adjust the tonal characteristics of the entire sound (except for Audio Songs) of this instrument. For details on this display, refer to page 99.

### 3 Touch a tab for editing the desired parameters.

Filter	For adjusting Resonance, and Cutoff (sound brightness).
EQ	For adjusting equalization parameters to correct the tone or timbre of the sound.
Effect	For selecting an Effect type and adjusting its depth for each part.
Chorus/Reverb	For selecting a Chorus/Reverb type and adjusting its depth for each part.
Pan/Volume	For adjusting panning and volume for each part.

### 4 Set the value of each parameter.

### 5 Save your Mixer settings.

#### NOTE

To reset each parameter to the default value, touch the number value or setting and hold it.

#### ■ To save the Panel 1/2 Mixer settings:

Register them to Registration Memory (page 90).

#### ■ To save the Style 1/2 Mixer Settings:

Save them as a Style file to the User drive or USB flash drive. If you want to recall the settings for future use, select the Style file saved here.

- 1 Call up the operation display via [MENU] → [Style Creator].
- 2 Touch [Save] to call up the Style Selection display, and then save the settings as a Style file (page 33).

#### ■ To save the MIDI Song Ch 1–8 / 9–16 Mixer Settings:

When editing and saving the MIDI Song Channel settings, a different operation is needed. For details, see “Editing and Saving the MIDI Song Ch 1–8 / 9–16 Mixer Settings” below.

## Editing and Saving the MIDI Song Ch 1–8 / 9–16 Mixer Settings

First select a MIDI Song, and edit the parameters. Second, register the edited settings as part of the MIDI Song data (Setup), and then save the Song to the User drive or USB flash drive. If you want to recall the settings for future use, select the Song file saved here.

- 1 Call up the operation display via [RECORDING] → MIDI [Multi Recording].
- 2 Touch the Song name “New Song” to call up the Song Selection display, and then select the desired Song.
- 3 Edit the desired parameters, according to “Basic Procedure for the Mixer” (page 83) steps 1–4.
- 4 Press the [RECORDING] button to call up the MIDI Multi Recording display again.
- 5 Register the edited settings to the MIDI Song.
  - 5-1 Touch [Setup] to call up the Setup display.
  - 5-2 Touch [Execute] to register the edited settings as part of the MIDI Song data.
- 6 Touch [Save] to call up the Song Selection display, and then save the settings as a Song file (page 33).

## Turning Each Channel of the Style or MIDI Song On/Off

You can add variations and change the feeling of a Style or a MIDI Song by selectively turning channels on/off.

### Style Channels

Each Style contains the channels listed below.

- **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.
- **Chord 1/2:** These comprise the rhythmic chord backing, commonly consisting of piano or guitar Voices.
- **Pad:** This part is used for sustained instruments such as strings, organ, choir, etc.
- **Phrase 1/2:** These parts are used for punchy brass stabs, arpeggiated chords, and other extras that make the accompaniment more interesting.

**1** In the Mixer display, touch the [Style] tab or [Song] tab.

**2** Touch the Channel which you want to turn on/off.



If you want to play back only one particular channel (solo playback), touch and hold the desired channel until the number is highlighted in purple. To cancel solo, simply touch the (purple) channel number again.

**3** As necessary, make other settings, and then save them as a Style file or Song file (step 5 on page 84).

## Changing the Voice for Each Channel of the Style or MIDI Song

You can change the Voice for each channel via the Mixer display.

- 1** In the Mixer display, touch the [Style] tab or [Song] tab.
- 2** Touch the instrument icon below the channel name to call up the Voice Selection display, and then select the desired Voice.



- 3** As necessary, make other settings, and then save them as a Style file or Song file (step 5 on page 84).

This instrument allows you to record your performance in two ways: MIDI recording and Audio recording. In addition, MIDI recording features two different methods: Quick Recording, which is the easiest, most convenient way to record, and Multi Recording, which allows you to record each channel or each track independently. In this section, we'll take a look at MIDI Quick Recording and Audio Quick Recording.

### ■ MIDI Quick Recording

With this method, recorded performances are saved to the instrument or a USB flash drive as an SMF (format 0) MIDI file. If you want to re-record a specific section or change Voices and edit other parameters, use this method. This instrument allows you to record up to approximately 3 MB per Song.

### ■ Audio Quick Recording

With this method, recorded performances are saved to the instrument as an Audio file. Recording is done without designating the recorded part. Since it is saved in stereo WAV format of normal CD quality resolution (44.1kHz/16-bit) by default, it can be transmitted to and played on portable music players by using a computer. It can also be recorded in MP3 format (44.1 kHz sample rate, 128/256/320 kbps bit rate, stereo). This instrument allows you to record up to 80 minutes per single recording.

#### Multi Recording

- **MIDI Multi Recording:** This lets you create a MIDI Song consisting of 16 channels by recording your performance to each channel one by one.

For details on Multi Recording, refer to the Reference Manual on the website.

## MIDI Quick Recording

Before recording, make the necessary settings such as Voice/Style selection. As necessary, connect the USB flash drive to the [USB TO DEVICE] terminal. With this type of recording, each part will be recorded to the following channels.

- **Keyboard parts:** channels 1–4
- **Multi Pad parts:** channels 5–8
- **Style parts:** channels 9–16

### 1 Call up the MIDI Quick Recording display via [RECORDING] → MIDI [Quick Recording].

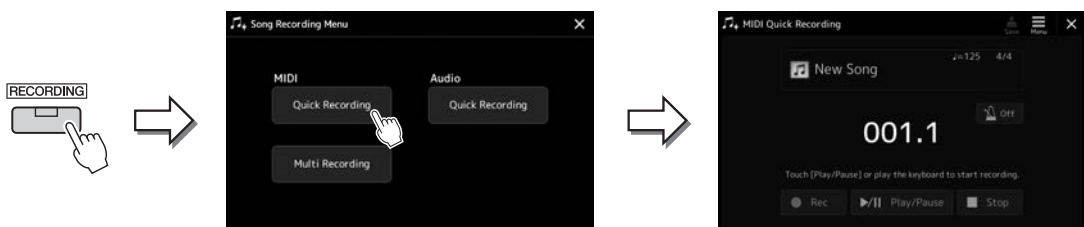
The display appears and a new blank Song is automatically set to record standby status.

#### NOTE

- Audio data such as the rhythm channels created via the audio data of Audio Link Multi Pad and Audio Link Songs cannot be recorded to the MIDI Songs.
- Before using a USB flash drive, be sure to read "Connecting USB Devices" on page 108.

#### NOTE

To cancel the recording, touch [Stop] on the display, and then press the [EXIT] button, before going on to step 2.



## 2 Start recording.

You can start recording by playing the keyboard, starting the Style, playing a Multi Pad, or touching [Play/Pause].

## 3 After you finish your performance, touch [Stop] to stop recording.

## 4 Touch [Save] to call up the Song Selection display, and then save the recorded performance as a file (page 33).

### NOTICE

The recorded Song will be lost if you close the display or you turn the power off without executing the save operation.

## Audio Quick Recording

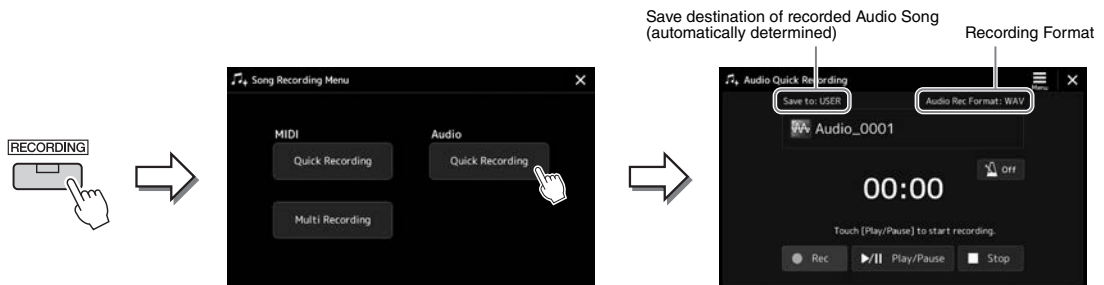
Before recording, make the necessary settings such as Voice/Style selection and the microphone connection (if you want to record your singing).

### 1 Call up the Audio Quick Recording display via [RECORDING] → Audio [Quick Recording].

The display appears and a new empty audio file is created, with record standby status enabled. However, unlike MIDI Quick Recording, recording does not start automatically with keyboard performance, Style playback, or Multi pad playback.

### NOTE

To cancel the recording, touch [Stop] on the display, and then press the [EXIT] button, before going on to step 2.



### 2 Touch [Play/Pause] to start recording.

Immediately after this operation, start and record your performance.

### 3 After you finish your performance, touch [Stop] to stop recording.

Recorded data is automatically saved to the destination as a file with the name automatically set. The recorded Audio Song appears in the User category on the Song Selection display.

### NOTE

- The destination to save the recorded Audio Song is automatically determined, according to the connection status of the USB flash drive. You can change the priority storage setting via (Menu) on the display.
- You can also change the recording format via (Menu) on the display.

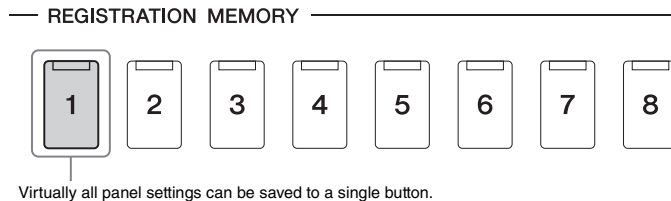


# Storing and Calling up Custom Panel Set-ups—Registration Memory and Playlist

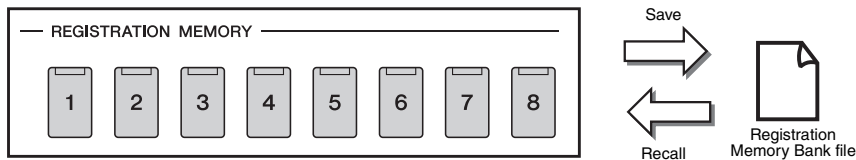
The Registration Memory function and the Playlist function allow you to save (or “register”) virtually all panel settings, and then instantly recall your custom panel settings for your performances by a simple, one-touch operation. The Playlist is especially useful for managing your repertoire, letting you select only the desired panel settings from the huge repertoire in the Registration Memory and create a new list.

## ■ Registration Memory

This function allows you to save (register) your custom panel settings to one of the Registration Memory buttons for easy recall.



There are eight Registration Memory buttons on the panel. You can save all eight registered panel setups as a Single Registration Memory Bank file.

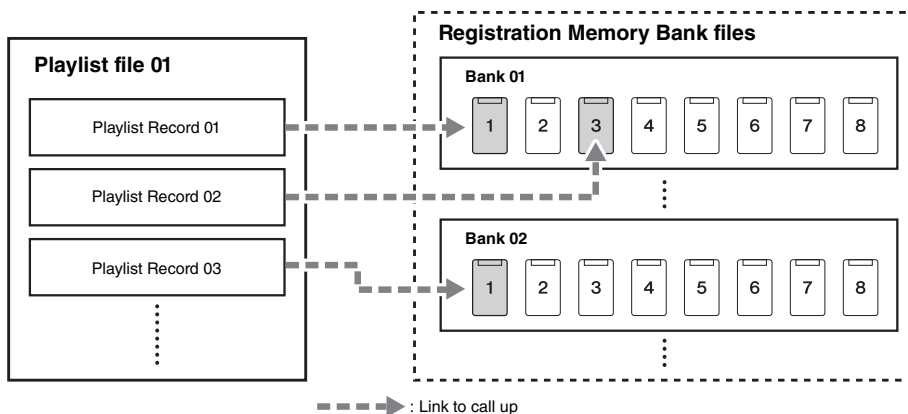


**NOTE**

For information on the parameters 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.

## ■ Playlist

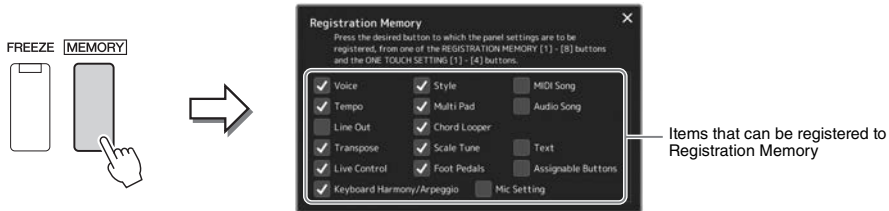
The Playlist function allows you to create your own live performance set list. The advantage of this is that you can select only the specific files you want from the huge number of the Registration Memory Bank files—without having to change the bank file configuration. Each Playlist Record can directly recall a specified Registration Memory in the selected Registration Memory Bank file. You can collectively store the Playlist Records as a single Playlist file.



# Saving and Recalling Custom Panel Setups with Registration Memory

## Registering Your Panel Setups

- 1 Make the desired panel Settings, such as those for Voices, Styles and Effects.
- 2 Press the [MEMORY] button in the REGISTRATION MEMORY section to call up the Registration Memory window.

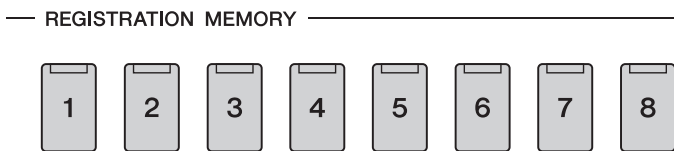


### Selecting the items to be registered

The Registration Memory window shows a list of items that can be selected and registered. Before going on to step 3, enter or remove checkmarks by touching the desired items. Items having checkmarks will be registered.

- 3 Press the desired REGISTRATION MEMORY [1]–[8] button to which you wish to memorize the panel setup.

The memorized button lights in orange, which indicates that the button contains data and its number is selected.



### About the lamp status

- **Orange:** Data registered and currently selected
- **Blue:** Data registered but not currently selected
- **Off:** No data registered

- 4 Register various panel setups to other buttons by repeating steps 1–3.

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

### NOTICE

If you selected a button whose lamp is lit in orange or blue here, the panel setup previously memorized to the button will be erased and replaced by the new settings.

### NOTE

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



- 2 Touch  (File Edit) to call up the pop-up window, and then touch [Save] to save the Bank file.

For instructions on saving, refer to “File Management” (page 33).

### NOTE

You can tag Registration Memory Bank files for easy search. For details, refer to the Reference Manual on the website.

## Recalling a Registered Panel Setup from a Bank file

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 Memory Bank Selection display.
- 2 Touch and select the desired Bank on the display.  
You can also use the REGIST BANK [-]/[+] buttons to select a Bank.
- 3 Press one of the blue-lit numbered buttons ([1]–[8]) in the Registration Memory section.  
The selected button lights in orange.

### NOTE

- When recalling setups that include Song, Style or text files selected from a USB flash drive, make sure that the appropriate USB flash drive containing the registered Song, Style or text is connected into the [USB TO DEVICE] terminal.
- Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 108.

### NOTE

Turning the [FREEZE] button on lets you disable recall of specific item(s) as desired. For instructions, refer to the Reference Manual on the website.

### NOTE

You can also call up the eight setups by using pedals or Assignable buttons in any order you specify via [MENU] → [Regist Sequence]. For details, refer to the Reference Manual on the website.

## Confirming the Registration Memory Bank Information

You can call up the information display to confirm which Voices, Style and Songs are memorized to the [1]–[8] buttons of a Registration Memory Bank.

**1** Call up the Registration Memory Bank Selection display, then select the desired Bank.

**2** Touch  (Menu) then [Regist Bank Info] to call up the Regist Bank Information display.

This display consists of two pages: Voice-related, and Style-related. You can switch between the two via [Voice]/[Style] on the display.

### NOTE

If a certain Voice part is set to off, the Voice name for the corresponding part is shown in gray.

For switching pages.



Touch to select the desired Registration Memory. The selected Registration is automatically loaded.

**3** Press the [EXIT] button to close the information display.

## Editing a Registration Memory Bank

You can edit a Registration Memory Bank (delete or rename each Registration Memory, etc.) in the Regist Bank Edit display.

**1** Call up the Registration Memory Bank Selection display, then select the desired Bank.

**2** Touch  (Menu) then [Regist Bank Edit] to call up the Regist Bank Edit display.



**3** Edit the Registration Memory Bank information.

Touch to select the desired Registration Memory. The Registration Memory is selected as a editing target, but not actually loaded.

- To change the name of the selected Registration, touch [Rename].
- To delete the selected Registration, touch [Delete].

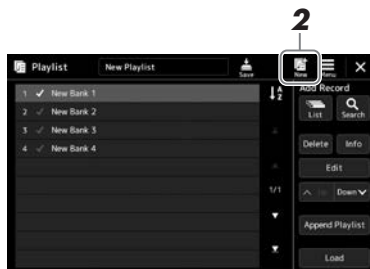
**4** Touch  (Save) to save the edited Registration Memory Bank file.

## Managing a Large Repertoire by Using the Playlist

The Playlist is useful for managing multiple set lists for your live performances. It lets you select just the specific files you want from a large repertoire (the huge number of the Registration Memory Bank files) and create a new set list for each performance.

### Creating a new Playlist

- 1 Press the [PLAYLIST] button to call up the Playlist display.



- 2 Touch  (New) on the display.

A new Playlist file is created.

### Adding a Record to the Playlist

By adding a Record to the Playlist, you can directly recall your desired Registration Memory.

- 1 Press the [PLAYLIST] button to call up the Playlist display.

The Playlist file which was selected the last time appears. (The sample preset Playlist will appear for the first time.)



- 2 Add a Record to the Playlist.

- To add a Record via the Registration Memory Bank Selection display:

- 2-1 Touch Add Record [List] on the display.

The Registration Memory Bank Select display appears.

- 2-2 Select the desired Registration Memory Bank file to register as a Playlist Record.

Touching [Add to Playlist] closes the display, and the new Playlist Record is added to the Playlist.

● **To add a Record by using the search function:**

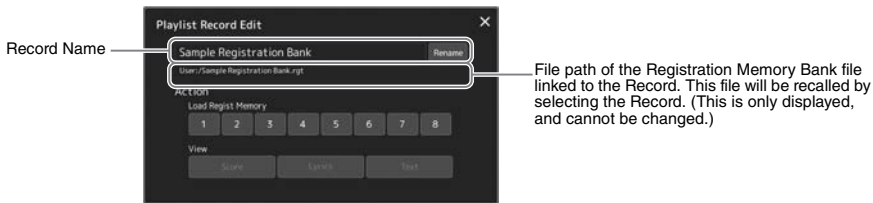
Touching Add Record [Search] on the display calls up the operation display for searching for the desired Registration Memory Bank file. For details on searching for files, refer to the Reference Manual on the website.

From the search result, select the desired file and then touch [Add to Playlist] to close the display, and the new Playlist Record is added.

**3 If necessary, edit the Playlist Record.**

The newly added Playlist Record simply recalls the selected Registration Memory Bank file. If you want to set more detailed settings (such as directly recalling a specified Registration Memory and automatically switching the screen view), you can edit the Playlist Record.

**3-1** Touch [Edit] to call up the Record Edit display.



**3-2** Touch to edit the Record.

Record Name	Determines the name of the Record. Touching [Rename] calls up the Character Entry window.
Action	Additional actions after selecting the Record and recalling the Bank. <ul style="list-style-type: none"> <li>• <b>Load Regist Memory:</b> Recalls the Registration Memory corresponding to the selected number. When no item is selected, no Registration Memory is recalled.</li> <li>• <b>View:</b> Displays the selected view. When no item is selected, no view is displayed.</li> </ul>

**3-3** Close the display.

**4** Touch  (Save) to save the added Record to the current Playlist file.

To recall the registered Record, touch the desired Record on the Playlist display.

## Recalling custom panel setups via the Playlist

- 1 Press the [PLAYLIST] button to call up the Playlist display.




- 2 Touch the Playlist file name to call up the Playlist File Selection display.
- 3 Touch the desired Playlist file, and then close the display.
- 4 Touch the Record name on the Playlist display, and then touch [Load].

The Registration Memory Bank registered as the Playlist Record is recalled and the Action you've made is executed (page 93.)




## Copying the Playlist Records (Append Playlist)

“Append Playlist” allows you to copy the existing Playlist file as a new Playlist file.

- 1 Press the [PLAYLIST] button to call up the Playlist display.
- 2 Touch [Append Playlist] on the display.  
The Playlist File Selection display appears.
- 3 Touch the desired Playlist file to append.  
All Records in the selected Playlist file are added at the bottom of the current Playlist.
- 4 Touch  (Save) to save the appended Records to the current Playlist file.

## Changing the order of the Records in the Playlist


---

- 1** Press the [PLAYLIST] button to call up the Playlist display.
- 2** Change the order of the Records.
  - 2-1** Touch the desired Record you want to move.
  - 2-2** Touch  Up (Up)/  (Down) to move the Record you selected in Step 2-1.
- 3** Touch  (Save) to save the edited Playlist file.

## Deleting the Playlist Record from the Playlist


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- 1** On the Playlist display, touch the desired Record to select it.
- 2** Touch [Delete] on the display.

A confirmation message appears here. To cancel the deletion, touch [No].
- 3** Touch [Yes].
- 4** Touch  (Save) to save the edited Playlist file.

## Sorting the Playlist in alphabetical order

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- 1** Press the [PLAYLIST] button to call up the Playlist display.
- 2** Touch  on the display.

The Playlist items are sorted in alphabetical order. To cancel sorting, touch  again.



# Customizing for Optimum Performance

You can customize the instrument for your own personal preferences and optimum performance. This section covers how to edit shortcuts on the Home display, set ASSIGNABLE buttons, make global settings, adjust the sound at the final output, and add expansion contents, such as Voices and Styles.

## Customizing the Shortcuts on the Home Display

You can register an often used function to a shortcut on the Home display. Although six shortcuts are registered by default, you can customize them as necessary. Registered shortcuts are shown in the Shortcut area (page 26) at the bottom of the Home display, allowing you to quickly call up the desired function from the Home display.

- 1 Call up the Assignable display via [MENU] → [Assignable].



- 2 Double-tap (touch twice) the desired item from the six locations of the “Home Shortcuts” area.

The function selection pop-up window appears.

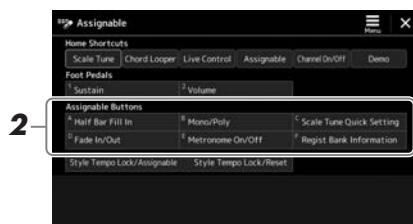
- 3 Touch the desired function.

The function will be registered to the location selected in step 2.

## Setting the Functions or Shortcuts to the ASSIGNABLE Buttons

You can assign various control functions or shortcuts to the ASSIGNABLE buttons, allowing you to quickly operate or call up the desired function.

- 1 Call up the Assignable display via [MENU] → [Assignable].



- 2 Double-tap (touch twice) the desired item from the “Assignable Buttons” area.

The function selection pop-up window appears.

- 3 Touch the desired function.

The function will be registered to the location selected in step 2.

### NOTE

For details on assignable parameters and functions, refer to the Reference Manual on the website.

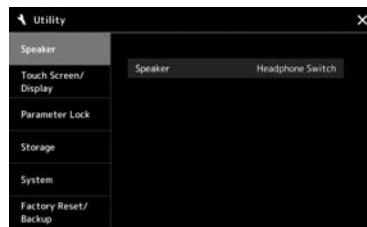
## Making Global Settings (Utility)

The Utility function provides a variety of convenient tools and settings for this instrument. These include general settings that affect the entire instrument, as well as detailed settings for specific functions. Also included are data reset functions and storage media control, such as disk formatting.

### Basic Procedure

#### 1 Call up the operation display.

[MENU] → [Utility]



#### 2 Touch the desired tab to call up the desired page, and change the settings or execute the operation.

Speaker	Determines how the sound is output from the speaker.
Touch Screen/Display	Contains display-related settings such as brightness, and touch sound On/Off settings.
Parameter Lock	Specifies the parameters to make them selectable only via the panel control.
Storage	Lets you execute the Format operation or check the memory capacity (approximate value) of the USB flash drive connected to this instrument. (page 109)
System	Indicates the firmware version and the hardware ID of this instrument, and lets you make basic settings, such as the language for the display, Auto Power Off function On/Off. (pages 21, 101)
Factory Reset/Backup	Backs up/restores whole or a part of the instrument or initializes the instrument to the factory default. (page 102)

For more information of each tabs, refer to the “Utility” section of the Reference Manual on the website.

# Adjusting the Sound at the Final Output (Master Compressor, Master EQ)

You can adjust the sound quality and the volume at the final output from the instrument by making the Master Compressor and the Master EQ settings.

- 1** Press the [MIXER/EQ] button to call up the Mixer display.
- 2** Touch the “Master” tab.



- 3** Touch a tab for editing the desired parameters.

Compressor	Lets you turn the Master Compressor (which is applied to the entire sound except audio playback) on or off, select the Master Compressor type, and edit the related parameters. Your original edits can be saved as the Master Compressor type.
EQ	Lets you select the Master EQ type applied to the entire sound except audio playback and edit the related parameters. Your original edits can be saved as the Master EQ type.


**NOTE**

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

- 4** Set the value of each parameter.

- 5** Save the settings.

Your original edits can be stored as a Master Compressor type and Master EQ type. If you want to recall the settings for future use, select the corresponding type at the upper right of each display.

- 5-1** Touch  (Save) in the “Compressor” display or “EQ” display.
- 5-2** Select one of the USER1–USER30 settings, and then touch [Save] to call up the Character Entry window.
- 5-3** In the Character Entry window, change the name as necessary, then touch [OK] to save the data.

**NOTE**

To reset each parameter to the default value, touch the number value or setting and hold it.

## 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 User tab in the Voice or Style Selection displays, allowing you to expand your music performance and creation possibilities. You can get 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 Sound & Expansion Libraries page at the Yamaha MusicSoft website:

<https://www.yamahamusicsoft.com/sound-and-expansion-libraries/>

To obtain the Yamaha Expansion Manager software and its manuals, access the following website, and search by the model name of your instrument, “PSR-A5000.”

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

This section explains how to make important overall, system-related settings, including backup/restore of settings and file data.

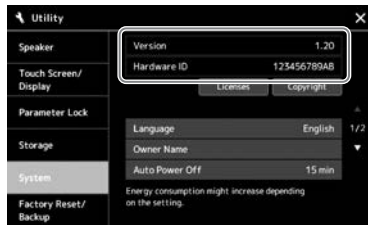
## Confirming the Firmware Version and Hardware ID

You can check the firmware version and hardware ID of this instrument.

**1** Call up the operation display via [MENU] → [Utility].

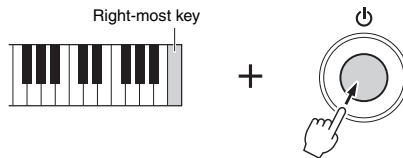
**2** Touch [System].

The program version and the hardware ID are shown in the display.



## Restoring the Factory-programmed Settings

While holding the right-most key on the keyboard, turn the power on. This restores all settings to their factory defaults.



### **NOTE**

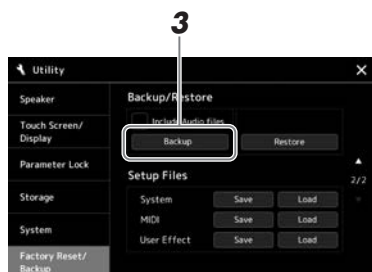
- You can also restore the factory default value of specified settings or delete all files/folders in the User drive on the display called up via [MENU] → [Utility] → [Factory Reset/Backup] → page 1/2. For details, refer to the "Utility" section of the Reference Manual on the website.
- If you simply want to restore the default value of any parameter you've changed, touch and hold the value on the display (page 30).

# Data Backup and Restore

## Data Backup

You can back up all data in the User drive of this instrument (except for Expansion Voices/Styles) and all settings to the USB flash drive as a single file. This procedure is recommended for data security and backup in case of damage.

- 1** Connect the USB flash drive to the [USB TO DEVICE] terminal as backup destination.
- 2** Call up the display via [MENU] → [Utility] → [Factory Reset/Backup] → page 2/2.



### If you want to include audio files to the backup file:

Before going on to step 3, enter a checkmark by touching the “Include Audio files” checkbox.

- 3** Touch [Backup] to save the backup file to the USB flash drive.

## Restoring the Backup file

To do this, touch [Restore] in step 3 above. When the operation is complete, the instrument will be restarted automatically.

### NOTE

- Before using a USB flash drive, be sure to read “Connecting USB Devices” on page 108.
- You can back up User data such as Voice, Song, Style, and Registration Memory by copying them individually to a USB flash drive. For instructions, refer to page 33.
- If the total size of the target data for backup exceeds 3.9 GB (excluding Audio files), the backup function is not available. If this happens, back up the User data by copying the items individually.
- You can save the System settings, MIDI settings and User Effect settings individually.

### NOTICE

**Completing the backup/restore operation may take a few minutes. Do not turn off the power during backup or restoring. If you turn off the power during backup or restoring, data may be lost or damaged.**

# Connections—Using Your Instrument with Other Devices

This chapter covers the connections of this instrument to other devices. To see where the connectors are located on the instrument, refer to pages 16–19.

## ⚠ CAUTION

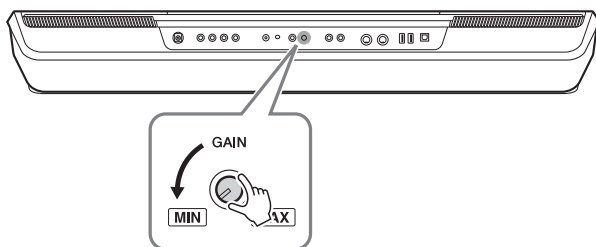
Before connecting the instrument to other electronic components, turn off the power of all components. Also, before turning any components on or off, make sure to set all volume levels to minimum (0). Otherwise, damage to the components, electrical shock, or even permanent hearing loss may occur.

## Connecting a Microphone or Guitar ([MIC/GUITAR INPUT] jack)

By connecting a microphone, you can sing along with your keyboard performance or with Song playback, as well as record your vocal performance to an Audio Song. You can also connect a guitar to the [MIC/GUITAR INPUT] jack, and output the sound from the speakers of this instrument.

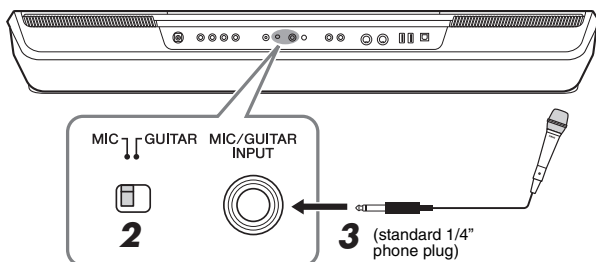
### Connecting a microphone or guitar to the instrument

- 1 Before connecting a microphone or guitar, set the [GAIN] knob to the minimum position.



- 2 Set the [MIC GUITAR] switch.

When connecting a microphone, set it to “MIC.” When connecting a guitar, set it to “GUITAR.”



## NOTE

Make sure to use a conventional dynamic microphone.

## NOTE

- When you are not using a microphone/guitar, disconnect the cable from the [MIC/GUITAR INPUT] jack.
- Always set the [GAIN] knob to minimum when nothing is connected to the [MIC/GUITAR INPUT] jack. Since the [MIC/GUITAR INPUT] jack is highly sensitive, it may pick up and produce noise even when nothing is connected.

## NOTE

When you use a guitar with active pickups, set the [MIC GUITAR] switch to “MIC,” since doing so can reduce noise.

- 3** Connect the microphone or guitar to the [MIC/GUITAR INPUT] jack.
- 4** Turn on the power of the instrument.

## Adjusting the input level of the microphone or guitar

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- 1** If necessary, turn on the microphone.
- 2** Call up the Mic Setting display via [MENU] → [Mic Setting].



Input level meter

### NOTE

The Mic Setting display can also be called up by pressing the [MIC SETTING] button.

- 3** Adjust the [GAIN] knob on the rear panel while singing into the microphone or playing the guitar.  
Adjust the [GAIN] knob so that the input level meter on the display lights in green or yellow. Make sure that the meter does not light in orange or red, since this indicates that the input level is too high.
- 4** Adjust the volume balance between the microphone or guitar sound and the instrument sound on the Mixer display (page 83).

### NOTE

You can also check the input level on the SIGNAL lamp on the [MIC SETTING] button. Make sure that the lamp does not light in orange.

## Disconnecting the microphone or guitar

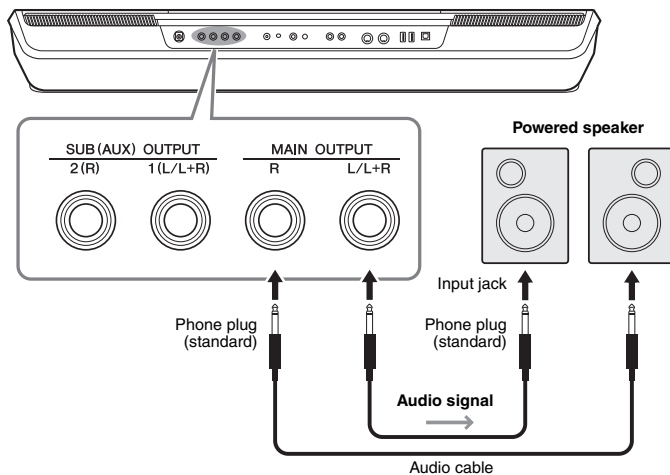
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- 1** Set the [GAIN] knob on the rear panel to the minimum position.
- 2** Disconnect the microphone or guitar from the [MIC/GUITAR INPUT] jack.



## Using an External Speaker System for Playback (MAIN OUTPUT jacks, SUB (AUX) OUTPUT jacks)

The MAIN OUTPUT jacks are used to send this instrument's output to a keyboard amplifier, stereo sound system or mixing console. If you are connecting the instrument to a mono sound system, use only the MAIN OUTPUT [L/L+R] jack. When only this jack is connected (using a standard phone plug), the left and right channels are combined and output through this jack—providing a convenient mono mix of the stereo sound.



You can use the instrument's [MASTER VOLUME] dial to adjust the volume of the sound output to the external device.

### Using the SUB (AUX) OUTPUT jacks

You can use the SUB (AUX) OUTPUT jacks as SUB OUTPUT jacks, sending a specific part to any desired SUB (AUX) OUTPUT jack. Also, you can use these jacks as AUX OUTPUT jacks by switching the function of the jacks to "AUX."

The operation display can be called up via [MENU] → [Line Out]. For details, refer to the Reference Manual on the website.

#### **NOTICE**

Do not route the output from the SUB (AUX) OUTPUT jacks to the AUX IN jack. If you make this connection, the signal input at the AUX IN jack is output from the SUB (AUX) OUTPUT jacks, possibly resulting in a feedback loop that will make normal performance impossible, and may even damage the equipment.

#### **NOTE**

The output volume from SUB (AUX) OUTPUT jacks cannot be controlled by the MASTER VOLUME control.

#### **NOTE**

Use audio cables and adaptor plugs having no (zero) resistance.

#### **NOTICE**

To avoid possible damage, first turn on the power to the instrument, and then to the external device. When turning off the power, do the opposite: first turn off the power to the external device, and then to the instrument. Since this instrument's power may automatically be turned off due to the Auto Power Off function (page 21), turn off the power to the external device, or disable Auto Power Off when you do not intend to operate the instrument.

## Listening to Audio Playback by the External Device through the Instrument's Speaker

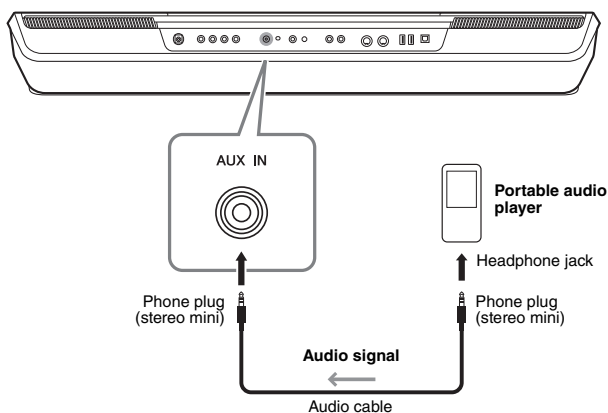
Audio playback by the connected device can be output from the instrument's speaker. To input audio, connect an external device by the method below.

### NOTE

- The volume of the audio input can be adjusted from the external device.
- You can adjust the volume balance among the sounds of the instrument and the audio input in the Mixer display. (page 83)

## Connecting to an audio player by using an audio cable ([AUX IN] jack)

You can connect the headphone jack of an audio player such as a smartphone and portable audio player to the instrument's [AUX IN] jack. Audio playback on the connected device is output from the built-in speakers of this instrument.



### **NOTICE**

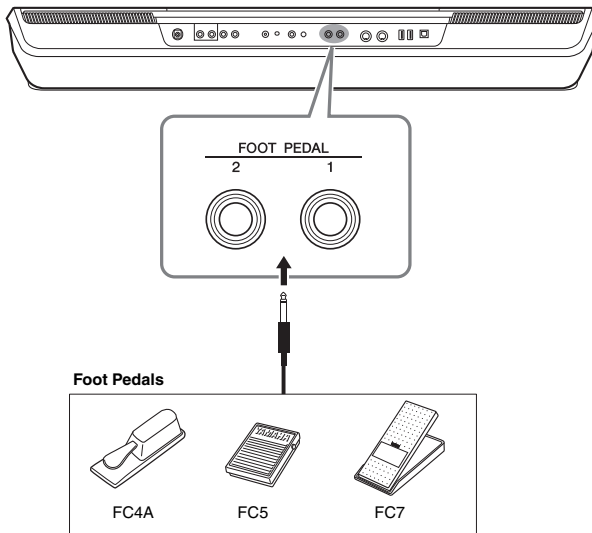
**To avoid damage to the devices, first turn on the power to the external device, and then to the instrument. When turning off the power, first turn off the power to the instrument, and then to the external device.**

### NOTE

- 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 parts such as entire keyboard can be adjusted by the Mixer display (page 83).
- Use audio cables and adaptor plugs having no (zero) resistance.

## Connecting Footswitches/Foot Controllers (FOOT PEDAL jacks)

The 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. Use the FC4A or FC5 footswitch.

- **FOOT PEDAL [1]**..... Switches sustain on or off.
- **FOOT PEDAL [2]**..... Controls volume.

You can also change the function assignments to the pedals as desired.

### ● Example: Controlling MIDI Song Start/Stop by footswitch

Connect a footswitch (FC4A or FC5) to one of the FOOT PEDAL jacks.

To assign the function to the connected pedal, select “Song MIDI Play/Pause” in the operation display: [MENU] → [Assignable].

### NOTE

For a list of the functions you can assign to the pedals, refer to the Reference Manual on the website.

## Connecting USB Devices ([USB TO DEVICE] terminal)

You can connect a USB flash drive or a USB wireless LAN adaptor to the [USB TO DEVICE] terminal. This allows you to save data you've created on the instrument to the USB flash drive (page 33), as well as connect and use the instrument with a smart device via a USB wireless LAN adaptor (page 109).

### 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; sold separately)

Other USB devices such as a 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:

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

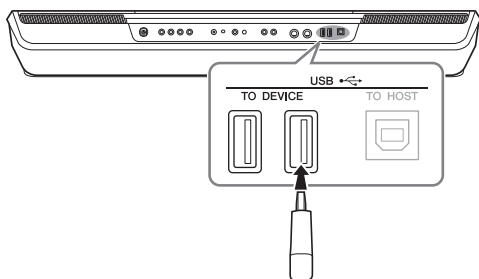
Although USB devices 1.1 to 3.0 can be used on this instrument, the amount of time for saving to or loading from the USB device may differ depending on the type of data or the status of the instrument.

#### **NOTICE**

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.

#### **NOTICE**

- When connecting then disconnecting the USB device (and vice versa), make sure to wait a few seconds between the two operations.
- Do not use an extension cable when connecting a USB device.

#### NOTE

If you intend to connect two or more devices at the same time to a terminal, you should use a bus-powered USB hub. Only one USB hub can be used. If an error message appears while using the USB hub, disconnect the hub from the instrument, then turn on the power of the instrument and reconnect the USB hub.

#### ● Using USB flash drives

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

Up to four USB flash drives can be connected to the [USB TO DEVICE] terminal. (If necessary, use a USB hub. The number of USB flash devices that can be used simultaneously with musical instruments even when a USB hub is used is a maximum of four.)

#### ● Formatting a USB flash drive

You should format the USB flash drive only with this instrument (page 109). 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. Proceed with caution, especially when connecting multiple USB flash drives.

#### ● 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.

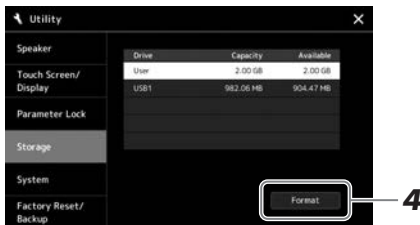
#### ● Turning off the instrument

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 or the internal User drive

To format a USB flash drive or the internal User drive, execute the Format operation. In order to format a USB flash drive, make sure that a USB flash drive is properly connected to the [USB TO DEVICE] terminal beforehand.

- 1 Connect a USB flash drive for formatting to the [USB TO DEVICE] terminal.
- 2 Call up the operation display via [MENU] → [Utility] → [Storage].



- 3 Touch the name of the desired drive to be formatted in the device list.

The indications USB 1, USB 2, etc. are displayed, depending on the number assigned to the connected device.

- 4 Touch [Format] to execute the Format operation, and then follow the onscreen instructions.

### NOTICE

The Format operation deletes any previously existing data. Make sure that the USB flash drive you are formatting does not contain important data. Proceed with caution, especially when connecting multiple USB flash drives.

## Connecting to a smartphone/tablet ([USB TO DEVICE], [USB TO HOST], or MIDI terminals)

You can use a smart device, such as a smartphone or tablet, 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 (\*).
- Connect to the [USB TO HOST] terminal via a Wireless MIDI Adaptor: UD-BT01 (\*).
- Connect to the MIDI terminals via a Wireless MIDI Adaptor: MD-BT01 (\*).

\* These accessories are sold separately, but may not be available depending on your area.

For details on connections, refer to the “Smart Device Connection Manual” and the Reference Manual on the website.

For information about the compatible smart devices and application tools, access the following page:

<https://www.yamaha.com/kbdapps/>

### NOTICE

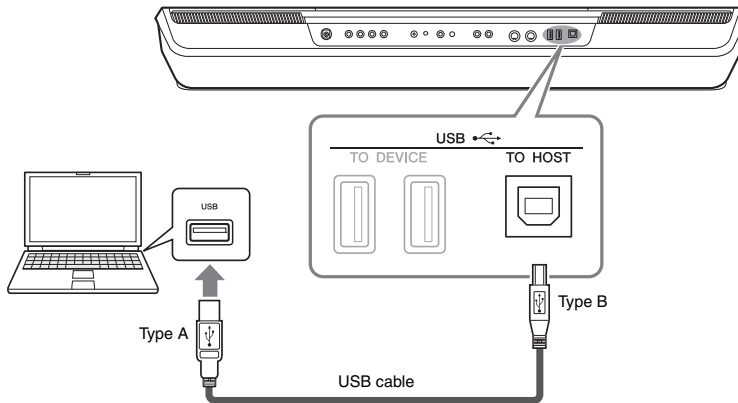
- Do not place your smart device in an unstable position. Doing so may cause the device to fall and result in damage.
- Do not connect this product to a public Wi-Fi and/or Internet service directly. Only connect this product to the Internet through a router with strong password protections. Consult your router manufacturer for information on optimum security practices.

### NOTE

When you use the instrument along with an application on your smart device, we recommend that you first set “Airplane Mode” to “ON,” and then set “Wi-Fi” to “ON” on your smart device 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” section on the website.



### NOTICE

Use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.

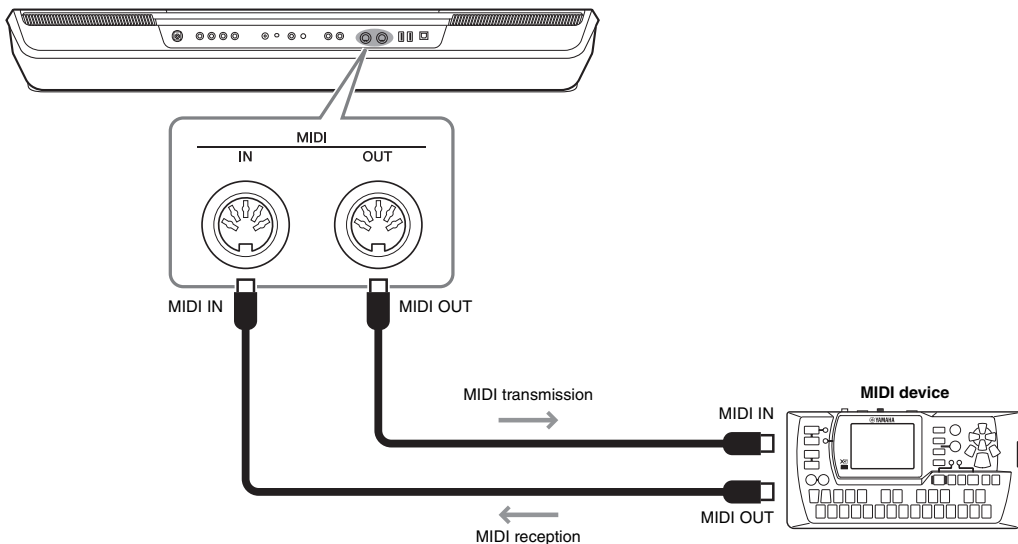
### NOTE

- 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.

## Connecting External MIDI Devices (MIDI terminals)

Use the [MIDI] terminals and standard MIDI cables to connect external MIDI devices (keyboard, sequencer, etc.).

- **MIDI IN**.....Receives MIDI messages from another MIDI device.
- **MIDI OUT**.....Transmits MIDI messages generated by the instrument to another MIDI device.



The MIDI settings such as transmit/receive channels on the instrument can be set via [MENU] → [MIDI]. For details, refer to the Reference Manual on the website.

### NOTE

For a general overview of MIDI and how you can effectively use it, refer to “MIDI Basics,” which is downloadable from the website.

# Function List

This section simply and very briefly explains what you can do in the displays called up by pressing the buttons on the panel, or by touching each icon on the Menu display.

For more information, refer to the page indicated below or the Reference manual on the website.

The “●” mark indicates that corresponding detailed information is described in the Reference Manual.

## Displays accessible by the panel buttons

Display	Button to access	Description	Pages	Reference Manual
Home	[DIRECT ACCESS] + [EXIT]	Portal of the instrument's display structure, which provides at-a-glance information on all current settings.	26	-
Menu	[MENU]	By touching each of the icons, you can call up the menus for the various functions listed below.	29	-
Style Selection	STYLE category selection buttons	For selecting Style files.	40	-
Song Playback	SONG [PLAYER]	For controlling Song playback.	66, 70	●
Playlist	[PLAYLIST]	For selecting and editing Playlists, and managing your repertoire.	93	●
Song Recording	SONG [RECORDING]	For recording your performance.	87	●
Mixer	[MIXER/EQ]	For adjusting the parameters of each part, such as volume, pan, and EQ. It also allows you to adjust overall sound controls, such as Master Compressor and Master EQ.	83	●
Voice Selection	PART SELECT [LEFT]–[RIGHT 3], VOICE category selection buttons	For assigning Voices to each of the keyboard parts.	48	●
Multi Pad Selection	MULTI PAD CONTROL [SELECT]	For selecting Multi Pads.	53	●
Registration Memory Bank Selection	REGIST BANK SELECT [-]/[+]	For selecting Registration Memory Banks.	91	●
Registration Memory window	[MEMORY]	For registering the current panel settings.	90	-
Mic Setting	[MIC SETTING]	For making settings for the microphone and guitar sound.	104	●

## Menu display functions

Menu	Description	Pages	Reference Manual
Mixer	For adjusting the parameters of each part, such as volume, pan, and EQ. It also allows you to adjust overall sound controls, such as Master Compressor and Master EQ.	83	●
Channel On/Off	For turning on and off each channel of the Style, and MIDI Song.	-	●
Voice Part Setup	For making detailed settings such as Voice Edit and Effect settings of the keyboard parts.	-	●
Line Out	Determines which jack is used to output each part and each drum & percussion instrument.	-	●
Score	For displaying the music notation (score) of the current MIDI Song.	75	●
Lyrics	For displaying the lyrics of the current Song.	76	●
Text Viewer	For displaying text files created on your computer.	-	●
Chord Looper	For recording a sequence of the chords and playing it back in a loop.	60	●
Kbd Harmony/Arp	For adding the Harmony/Arpeggio effect to the right-hand section of the keyboard. Parameters such as Harmony/Arpeggio type can be set.	50	●
Split & Fingering	For setting the Split Point or change the Chord Fingering type and Chord Detection area.	42, 45, 47	●
Mic Setting	For making settings for the microphone and guitar sound.	104	●
Regist Sequence	Determines the order for calling up Registration Memory settings when using a pedal.	-	●
Regist Freeze	Determines the item(s) that remain unchanged even when you call up panel setups from the Registration Memory.	-	●
Tempo	For adjusting the tempo of MIDI Song, Style or Metronome. The same operation as using Tempo [-]/[+] and [RESET/TAP TEMPO] buttons can be done on the display.	42	●

Menu	Description	Pages	Reference Manual
<b>Metronome</b>	For making settings of the metronome and the [RESET/TAP TEMPO] button.	37	●
<b>Live Control</b>	Determines the functions assigned to the LIVE CONTROL knobs and joystick.	56	●
<b>Assignable</b>	Determines the functions assigned to the pedals, assignable buttons, and the shortcuts on the Home display.	57, 97	●
<b>Panel Lock</b>	For locking the panel settings. When the panel settings are locked, nothing happens even when pressing any panel buttons.	37	-
<b>Demo</b>	For calling up the Demo display.	32	-
<b>Voice Edit</b>	For editing the preset Voices to create your own Voices. The display differs depending on whether an Organ Flutes Voice or another kind of Voice is selected.	-	●
<b>Style Creator</b>	For creating a Style by editing the preset Style, or by recording Style channels one by one.	-	●
<b>Song Recording</b>	For recording your performance. (This is same as the [RECORDING] button on the panel.)	87	●
<b>M.Pad Creator</b>	For creating a Multi Pad by editing an existing preset Multi Pad, or by recording a new one.	-	●
<b>Voice Setting</b>	Determines the detailed settings of the keyboard parts, such as the pitch for each part, and Voice Set filter.	-	●
<b>Style Setting</b>	For making Style playback related settings such as OTS Link timing, Dynamics Control, etc.	-	●
<b>Song Setting</b>	For making Song playback related settings such as Guide function, Channel settings, etc.	-	●
<b>Chord Tutor</b>	Indicates how to play chords that correspond to the specified chord names.	-	●
<b>Scale Tune</b>	For adjusting scales to play music you want to play.	78	●
<b>Master Tune</b>	For fine-tuning the pitch of the entire instrument.	-	●
<b>Transpose</b>	For transposing the pitch of the entire sound in semitones, or just the sound of the keyboard or MIDI Song.	55	●
<b>Keyboard</b>	Determines the Touch Response of the keyboard.	-	●
<b>MIDI</b>	For making MIDI-related settings.	-	●
<b>Utility</b>	For making global settings, managing the USB flash drives, initializing the instrument to the factory default, or backing up the data stored in the instrument, etc.	98	●
<b>Expansion</b>	For installing Expansion Packs for adding extra contents downloaded from the website or created on your own by using the Yamaha Expansion Manager.	-	●
<b>Wireless LAN*</b>	For making settings for connecting the instrument to a smart device via the wireless LAN function.	-	●

\* This icon appears only when the optional USB Wireless LAN adaptor is connected.



## Direct Access Chart

Press the [DIRECT ACCESS] button, and then press one of the buttons (or move the appropriate knob, joystick or pedal) listed below to call up the desired display.

Control		Display called up with the Direct Access Function				
SONG	[PLAYER]	Menu	Song Setting	-	-	
	[RECORDING]			Guide	-	
MIDI SONG	[PLAY/PAUSE]	Menu	Score	-	-	
	[PREV]			Lyrics	-	
	[NEXT]			Text Viewer	-	
AUDIO SONG	[PLAY/PAUSE]	Menu	Song Setting	Part Ch	-	
	[PREV]			Lyrics	-	
	[NEXT]			Play	-	
STYLE	Category Selection Button 1	Menu	Mixer	Filter	Style 1	
	Category Selection Button 2			EQ		
	Category Selection Button 3			Effect		
	Category Selection Button 4			Chorus/Reverb		
	Category Selection Button 5			Pan/Volume		
	Category Selection Button 6					
	Category Selection Button 7					
	Category Selection Button 8					
	Category Selection Button 9					
	Category Selection Button 10					
LIVE CONTROL	[ASSIGN] Knob 1-2	Menu	Live Control	Knob	-	
TRANPOSE	[-]/[+]	Menu	Transpose	-	-	
TEMPO	[-]	Menu	Tempo	-	-	
	[+]		Metronome	Metronome	-	
[RESET/TAP TEMPO]		Menu	Metronome	Tap Tempo	-	
[MIXER/EQ]		Menu	Channel On/Off	-	-	
CHORD LOOPER	[REC/STOP]	Menu	Chord Looper	-	-	
	[ON/OFF]			-	-	
DIRECT ACCESS		-	-	-	-	
ASSIGNABLE Button	[A]-[F]	Menu	Assignable	-	-	
ASSIGNABLE FOOT PEDAL	[1]-[2]	Menu	Assignable	-	-	
[MIC SETTING]		Mic Setting Selection	-	-	-	
[MENU]		Menu	Utility	-	-	
[PLAYLIST]		Playlist Selection	-	-	-	
Data Dial		-	-	-	-	
[DEC]		-	-	-	-	
[INC]		-	-	-	-	
[EXIT]		Home	-	-	-	
[ENTER]		Menu	Scale Tune	-	-	
VOICE	Category Selection Button 1	Menu	Mixer	Filter	Panel 1	
	Category Selection Button 2			EQ		
	Category Selection Button 3			Effect		
	Category Selection Button 4			Chorus/Reverb		
	Category Selection Button 5			Pan/Volume		
	Category Selection Button 6					
	Category Selection Button 7					
	Category Selection Button 8					
	Category Selection Button 9					
	Category Selection Button 10					
	Category Selection Button 11					
	Category Selection Button 12					
	[HARMONY/ARPEGGIO]					
	[SUSTAIN]					
	PART SELECT [LEFT]-[RIGHT 3]					
	PART ON/OFF [LEFT HOLD]					
	PART ON/OFF [LEFT]					
PART ON/OFF [RIGHT 1]						
PART ON/OFF [RIGHT 2]						
PART ON/OFF [RIGHT 3]						
			Voice Part Setup	-	-	
			Expansion	-	-	
			Keyboard Harmony/Arpeggio	-	-	
			Voice Edit	Common 1	Page 2	
			Voice Setting	Voice Set Filter	-	
			Split Point & Fingering	-	-	
			Voice Edit	-	Left	
					-	Right 1
					-	Right 2
					-	Right 3

Control		Display called up with the Direct Access Function				
<b>SCALE TUNE SETTING</b>	[C]-[B]	Menu	Scale Tune	-	-	
<b>SCALE TUNE MEMORY</b>	[MEMORY]	Scale Tune Memory Bank Selection	-	-	-	
	[1]-[5]	(Scale Tune Memory Bank Selection)	Scale Tune Memory Bank Edit	-	-	
<b>[BYPASS]</b>		Menu	Scale Tune	-	-	
<b>Joystick</b>	[JOYSTICK HOLD]					
	Joystick X (+)	Menu	Live Control	Joystick	-	
	Joystick X (-)					
	Joystick Y (+)					
	Joystick Y (-)					
<b>[STYLE TEMPO LOCK/ASSIGNABLE]</b>	Menu	Assignable	-	-		
<b>STYLE CONTROL</b>	[ACMP]	Menu	Mixer	Split Point & Fingering	-	-
	[AUTO FILL IN]			Style Setting	Setting	-
	[OTS LINK]			EQ	Multi Pad	
	INTRO [I]					Chorus/Reverb
	INTRO [II]					
	INTRO [III]			Pan/Volume	Master	
	MAIN VARIATION [A]					Compressor EQ
	MAIN VARIATION [B]			Style Setting	Change Behavior	
	MAIN VARIATION [C]					Style Setting
	MAIN VARIATION [D]			Split Point & Fingering	-	
	[BREAK]					Style Setting
	ENDING/rit. [I]-[III]					
	[SYNC STOP]					
	[SYNC START]					
	[START/STOP]					
	<b>REGISTRATION MEMORY</b>			REGIST BANK [-]/[+]	(Registration Memory Bank Selection)	Regist Bank Edit
[FREEZE]		Menu	Registration Freeze	-	-	
[MEMORY]			Registration Sequence	-	-	
[1]-[4]		(Registration Memory Bank Selection)	Regist Bank Information	Voice	-	
<b>ONE TOUCH SETTING</b>	[1]-[4]	(Style Selection)	Style Information	-	-	
<b>MULTI PAD CONTROL</b>	[SELECT]	(Multi Pad Selection)	Multi Pad Edit	-	-	
	[1]					
	[2]					
	[3]					
	[4]					
[STOP]		Audio Link Multi Pad	-	-		
<b>UPPER OCTAVE</b>	[-]/[+]	Menu	Voice Setting	Tune	-	

# 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 21).
Noise is heard from the instrument.	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 a smart device.	When you use the instrument along with the application on your smart device, we recommend that you set "Airplane Mode" to "ON" on your smart device in order to avoid noise caused by communication.
In the LCD, there are some specific points that are always lit or unlit.	These are the result of defective pixels and occasionally occur in TFT-LCDs; they do not indicate a problem in operation.
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]/[RIGHT 3]/[LEFT] button to turn it on (page 44).
	The volume of individual parts may be set too low. Raise the volume in the Mixer display (page 83).
	Make sure the desired channel is set to on in the Mixer display (page 85).
	Headphones are connected, disabling the speaker output. Unplug the headphones.
	Connect the footswitch to the appropriate jack.
The sound is distorted or noisy.	Make sure that the Speaker setting is set to "On" or "Headphone switch": [MENU] → [Utility]
	The volume may be turned up too high. Make sure all relevant volume settings are appropriate.
Sound from the speaker is occasionally interrupted.	This may be caused by certain effects or filter resonance settings. Check the effect or filter settings and change them accordingly in the Mixer display, referring to the Reference Manual on the website.
	The sound level is too high, so the speaker protection function is activated and the sound stops. Set the sound to an appropriate level by turning down the [MASTER VOLUME] dial.
Not all simultaneously played notes sound.	You are probably exceeding the maximum polyphony of the instrument. When the maximum polyphony is exceeded, the least important notes (such as soft notes and notes currently decaying) will stop sounding first.
The keyboard volume is lower than the Style/Song playback volume.	The volume of the keyboard parts may be set too low. Raise the volume in the Mixer display (page 83).
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 in a long interval between turning the power on and appearance of the Home 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 names (page 21).
An existing file is not shown.	The file extension (.MID, etc.) may have been changed or deleted. Manually rename the file on a computer, adding the appropriate extension.
	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.

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 the 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 (pages 45, 47).
Styles in a USB flash drive cannot be selected.	If the size of the Style data is large (about 540 KB or greater), the Style cannot be selected because the data is too large to be read by the instrument.
Style playback seems to “skip” when the keyboard is played.	You are probably exceeding the maximum polyphony of the instrument. The instrument can play up to 128 notes at the same time—including RIGHT 1/RIGHT 2/RIGHT 3/ LEFT Voices, Style, Song, and Multi Pad notes. When the maximum polyphony is exceeded, the least important notes (such as soft notes and notes currently decaying) will stop sounding first.
Style does not change even when a different chord is played, or the chord is not recognized.	Make sure to play notes on the chord section of the keyboard (pages 45, 47).
Voice	
The Voice selected from the Voice Selection display does not sound.	Check whether the selected part is turned on or not (page 44).
A strange “flanging” or “doubling” sound occurs. The sound is slightly different each time the keys are played.	The RIGHT 1, RIGHT 2 and/or RIGHT 3 parts are set to “ON,” and the parts are set to play the same Voice. Turn “ON” only one of the parts or set different Voices for the parts.
The sound is slightly different each time the keys are played.	If you are routing the MIDI OUT on the instrument to a sequencer and back to the MIDI IN, you may need to set Local Control setting to “off” in the System page of the MIDI display (refer to the Reference Manual on the website).
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.
Song	
MIDI Songs cannot be selected.	If the size of the Song data is large (about 3 MB or greater), the Song cannot be selected because the data is too large to be read by the instrument.
	MIDI Songs cannot be played back during MIDI recording operation. Stop MIDI Recording when you want to play back a MIDI Song.
Audio Songs cannot be selected.	The file format may not be compatible with the instrument. Compatible formats are: MP3 and WAV. DRM protected files cannot be played back.
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 [◀◀] (PREV) button of corresponding Song type (MIDI or AUDIO).
(MIDI) The measure number is different from that of the score in the Song Position display, shown by pressing and holding the [◀◀] (PREV) or [▶▶] (NEXT) button.	This happens when playing back music data for which a specific, fixed tempo is set.
(MIDI) 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 85).
(MIDI) The tempo, beat, measure and music notation are 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.
(MIDI) When viewing the lyrics on the Score display, some lyrics are omitted and cannot be seen.	There is not enough space to show the lyrics. Change the size of the Score to other than “Medium” via the View Setting (page 75).
(Audio) 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 90 plays back the file at the same volume as when it was recorded (page 83).
In the Audio Recording function, an error message appears and audio cannot be recorded to the internal User drive.	The data on the User drive is fragmented and cannot be used as is. Since there is no defragmentation function in Audio Recording, the drive can only be defragmented by formatting it. To do this, first back up the data by using the data backup function (page 102), format the drive, and then finally restore the backup data. Performing this backup/restore operation effectively defragments the drive, allowing you to use it again.

In the Audio Recording function, an error message appears and audio cannot be recorded to the USB flash drive.	Make sure to use a compatible USB flash drive.
	The USB flash drive may not have enough free space. Check the available space on the display called up via [MENU] → [Utility] → [Storage]. (page 109)
	If you are using a USB flash drive to which data has already been recorded, check first that no important data remains on the drive, format it (page 109), and then try recording again.
<b>Mixer</b>	
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. You can restore the original sound by selecting the same Style or Song again.
<b>Microphone, Guitar</b>	
The microphone or guitar input signal cannot be recorded.	The microphone or guitar input signal cannot be recorded by MIDI recording. Record by using Audio recording (page 88).
<b>FOOT PEDAL jacks</b>	
The on/off setting of the footswitch connected to the ASSIGNABLE FOOT PEDAL jack is reversed.	Turn the instrument's power off, and then turn it on again making sure not to press the footswitch.
<b>Connections</b>	
Sound input to the AUX IN jacks is interrupted.	The output volume of the external device connected to this instrument is too low. Increase the output volume of the external device. The volume level reproduced via this instrument can be adjusted by using the [MASTER VOLUME] dial.
The Wireless LAN icon is not shown in the Menu display even though the USB wireless LAN adaptor is connected.	Disconnect the USB wireless LAN adaptor and connect it again.

# Specifications

<b>Product Name</b>		Digital Keyboard		
<b>Size/Weight</b>	Dimensions (W x D x H)		1,017 mm x 431 mm x 139 mm (40-1/16" x 17" x 5-1/2")	
	Weight		11.5 kg (25 lb, 6 oz)	
<b>Control Interface</b>	Keyboard	Number of Keys	61	
		Type	Organ (FSB), Initial Touch	
		Touch Response	Normal, Soft 1, Soft 2, Hard 1, Hard 2	
	Other Controllers	Joystick	Yes (Assignable)	
		Knobs	2 (Assignable)	
		Assignable Buttons	7	
		Scale Tune Memory Buttons	5	
		Scale Tune Setting Buttons	Yes	
	Display	Type	TFT Color Wide VGA LCD	
		Size	800 x 480 dots 7 inch	
		Touch Screen	Yes	
		Language	English, German, French, Spanish, Italian	
Panel	Language	English		
<b>Voices</b>	Tone Generation	Tone Generation Technology	AWM Stereo Sampling	
	Polyphony		128 (max.)	
	Preset	Number of Voices	1,161 Voices + 86 Drum/SFX Kits + 480 XG Voices	
		Featured Voices	219 S.Art!, 25 MegaVoice, 41 Sweet!, 64 Cool!, 91 Live!, 24 OrganFlutes, 20 Revo!SFX (including 299 Oriental Voices, 44 Oriental Drum Kits)	
	Compatibility		XG (for Song playback), GS (for Song playback), GM, GM2	
<b>Effects</b>	Types	Keyboard Part	Right 1, Right 2, Right 3, Left	
		Reverb	59 Presets + 30 User	
		Chorus	106 Presets + 30 User	
		Variation Effect	322 Presets (with VCM) + 30 User	
		Insertion Effect	1–8: 322 Preset (with VCM) + 30 User	
		Master Compressor	5 Presets + 30 User	
		Master EQ	5 Presets + 30 User	
		Part EQ	28 Parts	
		Others	Mic/Guitar Effects: Noise Gate, Compressor, 3 Band EQ	
		<b>Styles</b>	Preset	Number of Styles
Featured Styles	429 Pro, 15 Session, 10 DJ			
Fingering	Single Finger, Multi Finger, Fingered, Fingered On Bass, Full Keyboard, AI Fingered, AI Full Keyboard			
Style Control	INTRO x 3, MAIN VARIATION x 4, FILL IN x 4, BREAK, ENDING x 3			
One Touch Setting (OTS)	4 for each Style			
Chord Looper	Yes			
Style Section Reset	Yes			
Style Section Change Timing	Yes			
Style Section Time Signature	Yes			
Compatibility				Style File Format (SFF), Style File Format GE (SFF GE)
<b>Expandability</b>	Expansion Voice		Yes (approx. 1 GB)	
	Expansion Style		Yes (Internal Memory)	
	Expansion Audio Style		Yes (Internal Memory)	
<b>Songs (MIDI)</b>	Preset	Number of Preset Songs		
	Recording	Number of Tracks		
		Data Capacity		
		Function		
	Format	Playback		
Recording				
<b>Songs (Audio)</b>	Recording	Data Capacity		
	Format	Playback		
		Recording		
	Time Stretch		Yes	
	Pitch Shift		Yes	
	Vocal Cancel		Yes	
	<b>Multi Pads</b>	Number of Multi Pad Banks		257 banks x 4 Pads
Audio Link		Yes		

<b>Functions</b>	Voices	Harmony	Yes
		Arpeggio	Yes
		Panel Sustain	Yes
		Mono/Poly	Yes
	Styles	Style Creator	Yes
		OTS Information	Yes
	Songs	Score Display Function	Yes
		Lyrics 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
	Playlist	Number of Records	2,500 (max.) Records per Playlist file
	Search		Yes
	Demo		Yes
	Overall Controls	Metronome	Yes
		Tempo Range	5 – 500, Tap Tempo
		Transpose	-12 – 0 – +12
		Tuning	414.8 – 440 – 466.8 Hz
		Upper Octave	-3 – 0 – +3
		Scale Type	12 types
Sub Scale Setting		Yes	
Scale Tune Memory		5	
Miscellaneous	Direct Access	Yes	
	Text Display Function	Yes	
	Wallpaper Customization	Yes	
<b>Storage and Connectivity</b>	Storage	Internal Memory (USER Drive)	Yes (approx. 2 GB)
		External Drives	USB flash drive
	Connectivity	DC IN	16 V
		Headphones	Standard stereo phone jack
		Microphone/Guitar	Yes
		MIDI	IN, OUT
		AUX IN	Stereo mini jack
		LINE OUT	MAIN OUTPUT (L/L+R, R), SUB (AUX) OUTPUT (1,2 (L/L+R, R))
		FOOT PEDAL	2 (Assignable)
		USB TO DEVICE	Yes (x 2)
		USB TO HOST	Yes
<b>Sound System</b>	Amplifiers	15 W x 2	
	Speakers	13 cm x 2 + 5 cm x 2	
<b>Power Supply</b>	AC Adaptor	PA-300C (Output: DC 16 V, 2.4 A) or an equivalent recommended by Yamaha	
	Power Consumption	24 W	
	Standby Power Consumption	0.3 W	
	Auto Power Off	Yes	
<b>Included Accessories</b>	Owner's Manual (this book) Online Member Product Registration Music rest AC adaptor* (PA-300C or an equivalent recommended by Yamaha) * May not be included depending on your area. Check with your Yamaha dealer.		
<b>Separately Sold Accessories (May not be available depending on your area.)</b>	AC adaptor: PA-300C or an equivalent recommended by Yamaha Headphones: HPH-50, HPH-100, HPH-150 Footswitch: FC4A, FC5 Foot controller: FC7 USB wireless LAN adaptor: UD-WL01 Wireless MIDI adaptor: UD-BT01, MD-BT01 Subwoofer: KS-SW100 Keyboard stand: L-6, L-7B (The exterior size of the PSR-A5000 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 publishing 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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Version 2, June 1991

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### THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel  
Email local part: ph10  
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University of Cambridge Computing Service,  
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<b>Fontos figyelemzetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára</b> A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájl is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselői irodával. * EGT: Európai Gazdasági Térség	<b>Magyar</b>
<b>Oluline märkus: Garantiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele</b> Täpsemat teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval printitav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond	<b>Eesti keel</b>
<b>Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē</b> Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona	<b>Latviešu</b>
<b>Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje</b> Jei reikia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdinintas failas) arba kreipkitės į „Yamaha“ atstovybę savo šaliai. *EEE – Europos ekonominė erdvė	<b>Lietuvių kalba</b>
<b>Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku</b> Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise 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	<b>Slovenčina</b>
<b>Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici</b> Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor	<b>Slovenščina</b>
<b>Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария</b> За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската 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	<b>Български език</b>
<b>Notificarea importantă: Informații despre garanție pentru clienții din SEE* și Elveția</b> Pentru informații detaliate privind acest 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	<b>Limba română</b>
<b>Važna obavijest: Informacije o jamstvu za države EGP-a i Švicarske</b> Za detaljne informacije o jamstvu za ovaj Yamahin proizvod te jamstvenom servisu za cijeli EGP i Švicarsku, molimo Vas da posjetite web-stranicu navedenu u nastavku ili kontaktirate ovlaštenog Yamahinog dobavljača u svojoj zemlji. * EGP: Evropski gospodarski prostor	<b>Hrvatski</b>

<https://europe.yamaha.com/warranty/>

URL\_5



## 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.

**In Order to Obtain Warranty Service:** Warranty service will only be provided for defective products within the Warranted Area. Contact your local authorized Yamaha dealer who will advise you of the procedures to be followed. If this is not successful, contact Yamaha at the address, telephone number or website shown below. Yamaha may request that you send the defective product to a local authorized Yamaha Servicer or authorize return of the defective product to Yamaha for repair. If you are uncertain as to whether a dealer has been authorized by Yamaha, please contact Yamaha's Service Department at the number shown below, or check Yamaha's website at [www.Yamaha.com](http://www.Yamaha.com). Product(s) shipped for service should be packed securely and must be accompanied by a detailed explanation of the problem(s) requiring service, together with the original or a machine reproduction of the bill of sale or other dated, proof-of-purchase document describing the product, as evidence of warranty coverage. Should any product submitted for warranty service be found ineligible therefore, an estimate of repair cost will be furnished and the repair will be accomplished only if requested by you and upon receipt of payment or acceptable arrangement for payment.

**Limitation of Implied Warranties and Exclusion of Damages:** ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE APPLICABLE PERIOD OF TIME SET FORTH ABOVE. YAMAHA SHALL NOT BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE OR INTERRUPTION OF PERFORMANCES OR ANY CONSEQUENCES. YAMAHA'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AT YAMAHA'S OPTION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This is the only express warranty applicable to the product specified herein; Yamaha neither assumes nor authorizes anyone to assume for it any other express warranty.

If you have any questions about service received or if you need assistance in locating an authorized Yamaha Servicer, please contact:



CUSTOMER SERVICE  
Yamaha Corporation of America  
6600 Orangethorpe Avenue, Buena Park, California 90620-1373  
Telephone: 800-854-1569  
[www.yamaha.com](http://www.yamaha.com)

**Do not return any product to the above address without a written Return Authorization issued by YAMAHA.**

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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.

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\_02)

### SIMPLIFIED UK DECLARATION OF CONFORMITY

Hereby, Yamaha Corporation declares that the [PSR-A5000] is in compliance with the Product Security and Telecommunications Infrastructure Regulations. The full text of the UK Declaration of Conformity is available at the following internet address:

<https://europe.yamaha.com/en/support/compliance/doc.html>

(657-M01 UK cybersecurity 01)

## Important Notice: Power management information for customers in European Economic Area (EEA), Switzerland and Turkey

### Remarque importante : Informations sur la gestion de l'alimentation pour les clients de l'Espace économique européen (EEE), de Suisse et de Turquie

Yamaha products are equipped with a power management function. Some products allow you to disable that function, or to extend the amount of time that elapses before the power is turned off or set to standby. In these cases, energy consumption will increase.	English
Yamaha-Produkte sind mit einer Power-Management-Funktion ausgestattet. Bei einigen Produkten können Sie diese Funktion ausschalten oder die Zeitdauer, die verstreicht, bis das Instrument ausgeschaltet oder in Bereitschaft versetzt wird, verlängern. In diesen Fällen erhöht sich der Energieverbrauch.	Deutsch
Les produits Yamaha sont équipés d'une fonction de gestion de l'alimentation. Certains produits vous permettent de désactiver cette fonction ou d'allonger le délai avant la mise hors tension ou la mise en veille. Dans ces cas, la consommation d'énergie augmente.	Français
Yamaha-producten zijn uitgerust met een energiebeheerfunctie. Bij sommige producten kunt u die functie uitschakelen of de tijd verlengen die verstrijkt voordat de stroom wordt uitgeschakeld of in stand-by wordt gezet. In deze gevallen zal het energieverbruik toenemen.	Nederlands
Los productos Yamaha están equipados con una función de administración de energía. Algunos productos permiten desactivar esa función o ampliar el tiempo que transcurre antes de apagar la alimentación o poner el producto en modo de espera. En estos casos, el consumo de energía aumentará.	Español
I prodotti Yamaha sono dotati di una funzione di gestione dell'alimentazione. Alcuni prodotti consentono di disattivare tale funzione o di estendere il periodo di tempo che trascorre prima che l'alimentazione venga spenta o impostata in standby. In questi casi, il consumo energetico aumenterà.	Italiano
Os produtos Yamaha são equipados com uma função de gerenciamento de energia. Alguns produtos permitem desativar essa função ou estender o tempo decorrido antes de se desligar ou entrar em standby. Nesses casos, o consumo de energia aumentará.	Português
Τα προϊόντα της Yamaha είναι εξοπλισμένα με μια λειτουργία διαχείρισης ισχύος. Ορισμένα προϊόντα σας δίνουν τη δυνατότητα να απενεργοποιείτε αυτή τη λειτουργία ή να επεκτείνετε το χρονικό διάστημα μέχρι την απενεργοποίηση ή τη θέση σε κατάσταση αναμονής. Σε αυτές τις περιπτώσεις, η κατανάλωση ενέργειας θα αυξηθεί.	Ελληνικά
Yamaha-produkterna är utrustade med en energihanteringsfunktion. För vissa produkter kan du inaktivera den funktionen eller för att förlänga tiden som förlutit innan strömmen stängs av eller ställs i vänteläge. I dessa fall ökar energiförbrukningen.	Svenska
Yamahas produkter har en strømstyringsfunktion. På nogle produkter er det muligt at deaktivere denne funktion eller at forlænge den tid, der går, før der slukkes for strømmen, eller sættes på standby. I disse tilfælde vil strømforbruget stige.	Dansk
Yamaha-tuotteet on varustettu virranhallintatoiminnolla. Joissakin tuotteissa voit poistaa toiminnon käytöstä tai pidentää aikaa, joka kuluu ennen virran katkaisemista tai valmiustilaan asettamista. Näissä tapauksissa energiankulutus kasvaa.	Suomi
Produkty Yamaha są wyposażone w funkcję zarządzania energią. Niektóre produkty umożliwiają wyłączenie tej funkcji lub wydłużenie czasu, jaki upływa do wyłączenia zasilania lub przejścia w tryb gotowości. W takich przypadkach zużycie energii wzrośnie.	Polski
Produkty Yamaha jsou vybaveny funkcí správy napájení. Některé produkty umožňují tuto funkci zakázat nebo prodloužit dobu, která má uběhnout před vypnutím napájení nebo pohotovostním režimem. V těchto případech se zvýší spotřeba elektřiny.	Čeština
A Yamaha terméknek energiamedzszment funkcióval vannak ellátva. Egyes termékek lehetővé teszik, hogy letiltás ezt a funkciót, vagy meghosszabbítsa a kikapcsolás vagy készenléti állapotha helyezés előtt eltelt időt. Ezekben az esetekben az energiafogyasztás növekedni fog.	Magyar
Yamaha tooted on varustatud toitehalduse funktsiooniga. Mõned tooted võimaldavad teil selle funktsiooni keelata või pikendada aega, mis möödub enne toite väljalülitamist või ooterežiimi seadmist. Sellistel juhtudel suureneb energiatarbimine.	Eesti
Yamaha izstrādājumi ir aprīkoti ar barošanas pārvaldības funkciju. Dažiem izstrādājumiem šo funkciju var atspējot vai paildināt laiku, kam jāpaiet pirms barošanas atslēgšanas vai pāriešanas gaidstāves režīmā. Šādā gadījumā palielināsies enerģijas patēriņš.	Latviešu
„Yamaha“ gaminiuose yra energijos sąnaudų valdymo funkcija. Kai kurie gaminiai leidžia išjungti šią funkciją arba pratęsti laiką, praėjusį prieš išjungiant maitinimą arba įjungiant budėjimo režimą. Tokiais atvejais energijos suvartojimas padidės.	Lietuvių
Produkty spoločnosti Yamaha sú vybavené funkciou správy napájania. Niektoré produkty vám umožňujú túto funkciu vypnúť alebo predĺžiť čas, po uplynutí ktorých sa napájanie vypne alebo nastaví do pohotovostného režimu. V takýchto prípadoch sa zvýši spotreba energie.	Slovenčina
Yamahini izdelki imajo funkcijo upravljanja z napajanjem. Nekateri izdelki vam omogočajo, da onemogočite to funkcijo ali podaljšate čas, ki mora preteči, preden se napajanje izklopi ali nastavi v stanje pripravljenosti. V teh primerih se bo poraba energije povečala.	Slovenščina
Продуктите на Yamaha са снабдени с функция за управление на захранването. Някои продукти ви позволяват да забраните тази функция или да удължите времето, което ще изтече, преди захранването да се изключи или да се настрои в режим на готовност. В тези случаи консумацията на енергия ще се увеличи.	Български
Produsele Yamaha sunt echipate cu o funcție de gestionare a energiei. Unele produse vă permit să dezactivați această funcție sau să prelungiți perioada de timp care trece înainte ca alimentarea să fie oprită sau setată în standby. În aceste cazuri, consumul de energie va crește.	Română
Yamaha proizvodi opremljeni su funkcijom upravljanja potrošnjom energije. Neki vam proizvodi omogućuju onemogućavanje te funkcije ili produženje vremena koje protekne prije isključivanja napajanja ili postavljanja u stanje pripravnosti. U tim će se slučajevima povećati potrošnja energije.	Hrvatski
Yamaha ürünlerinde güç yönetimi işlevi vardır. Bazı ürünler, bu işlevi devre dışı bırakmanıza veya güç kapatılmadan ya da bekleme moduna alınmadan önce geçen süreyi uzatmanıza olanak tanır. Bu gibi durumlarda, enerji tüketimi artacaktır.	Türkçe

# Yamaha Worldwide Representative Offices

## English

For details on the product(s), contact your nearest Yamaha representative or the authorized distributor, found by accessing the 2D barcode below.

## Deutsch

Wenden Sie sich für nähere Informationen zu Produkten an eine Yamaha-Vertretung oder einen autorisierten Händler in Ihrer Nähe. Diese finden Sie mithilfe des unten abgebildeten 2D-Strichcodes.

## Français

Pour obtenir des informations sur le ou les produits, contactez votre représentant ou revendeur agréé Yamaha le plus proche. Vous le trouverez à l'aide du code-barres 2D ci-dessous.

## Español

Para ver información detallada sobre el producto, contacte con su representante o distribuidor autorizado Yamaha más cercano. Lo encontrará escaneando el siguiente código de barras 2D.

## Português

Para mais informações sobre o(s) produto(s), fale com seu representante da Yamaha mais próximo ou com o distribuidor autorizado acessando o código de barras 2D abaixo.

## Italiano

Per dettagli sui prodotti, contattare il rappresentante Yamaha o il distributore autorizzato più vicino, che è possibile trovare tramite il codice a barre 2D in basso.

## Nederlands

Neem voor meer informatie over de producten contact op met uw dichtstbijzijnde Yamaha-vertegenwoordiger of de geautoriseerde distributeur, te vinden via de onderstaande 2D-barcode.

## Polski

Aby uzyskać szczegółowe informacje na temat produktów, skontaktuj się z najbliższym przedstawicielem firmy Yamaha lub autoryzowanym dystrybutorem, którego znajdziesz za pośrednictwem poniższego kodu kreskowego 2D.

## Русский

Чтобы узнать подробнее о продукте (продуктах), свяжитесь с ближайшим представителем или авторизованным дистрибьютором Yamaha, воспользовавшись двухмерным штрихкодом ниже.

## Dansk

Hvis du vil have detaljer om produktet/produkterne, kan du kontakte den nærmeste Yamaha-repræsentant eller autoriserede Yamaha-distributør, som du finder ved at scanne 2D-stregkode nedenfor.

## Svenska

Om du vill ha mer information om produkterna kan du kontakta närmaste Yamaha-representant eller auktoriserade distributör med hjälp av 2D-streckkoden nedan.

## Čeština

Podrobnosti o produktu(ech) získáte od nejbližšího zástupce společnosti Yamaha nebo autorizovaného distributora, který byl nalezen při použití 2D čárového kódu níže.

## Slovenčina

Podrobné informácie o produkte(-och) vám poskytne najbližší zástupca spoločnosti Yamaha alebo autorizovaný distribútor, ktorého nájdete pomocou nižšie uvedeného 2D čiarového kódu.

## Magyar

A termék(ek)re vonatkozó részletekért forduljon a legközelebbi Yamaha képviselőhez vagy a hivatalos forgalmazóhoz, amelyet az alábbi 2D vonalkód segítségével találhat meg.

## Slovenščina

Če želite podrobnejše informacije o izdelkih, se obrnite na najbližjega Yamahinega predstavnika ali pooblaščenega distributerja, ki ga najdete prek 2D-kode v nadaljevanju.

## Български

За подробности относно продукта/ите се свържете с най-близкия представител на Yamaha или оторизиран дистрибутор, който можете да откриете, като използвате 2D баркода по-долу.

## Română

Pentru detalii privind produsele, contactați cel mai apropiat reprezentant Yamaha sau distribuitorul autorizat, pe care îl puteți găsi accesând codul de bare 2D de mai jos.

## Latviešu

Lai iegūtu plašāku informāciju par izstrādājumiem, sazinieties ar tuvāko Yamaha pārstāvi vai pilnvaroto izplatītāju, kuru atradīsiet, izmantojot tālāk pieejamo 2D svītrkodu.

## Lietuvių

Norėdami gauti daugiau informacijos apie gaminį (-ius), kreipkitės į artimiausią „Yamaha“ atstovą arba įgaliotąjį platintoją, kurį rasite nuskaityę toliau pateiktą 2D brūkšninį kodą.

## Eesti

Toodete kohta täpsema teabe saamiseks võtke ühendust lähima Yamaha esindaja või autoriseeritud levitajaga, kelle leiате allpool asuva 2D-võõtkoodi kaudu.

## Hrvatski

Za detalje o proizvodima obratite se lokalnom predstavku ili ovlaštenom distributeru tvrtke Yamaha, kojeg možete pronaći skeniranjem 2D crtičnog koda u nastavku.

## Türkçe

Ürünler hakkında ayrıntılar için, aşağıdaki 2D kodlu motora erişerek bulunan size en yakın Yamaha temsilcisine veya yetkili bayiye başvurun.



[https://manual.yamaha.com/dmi/address\\_list/](https://manual.yamaha.com/dmi/address_list/)



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