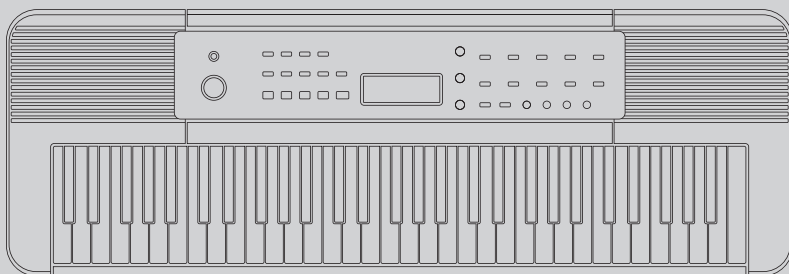


DIGITAL KEYBOARD

OWNER'S MANUAL

— **PSR-E273**

— **YPT-270**



Before using the instrument, be sure to read
“PRECAUTIONS” on pages 5–7.

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 elec-

tronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

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

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

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

(class B)

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-E273/YPT-270

This device complies with Part 15 of the FCC Rules.

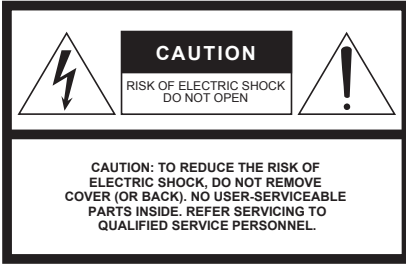
Operation is subject to the following two conditions:

- 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)

For 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 this 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 24) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

Do not open

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

Water warning

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

Fire warning

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

Battery

- Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.
 - Do not tamper with or disassemble batteries.
 - Do not dispose of batteries in fire.

- Do not attempt to recharge batteries that are not designed to be charged.
- Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
- Use the specified battery type (page 24) only.
- Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
- Always make sure all batteries are inserted in conformity with the +/- polarity markings.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
- When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

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. (If you are using batteries, remove all batteries from the instrument.) 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.

- Use only the stand specified for the instrument. When attaching it, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

Connections


- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument 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.

Make sure to discard used batteries according to local regulations.

DMI-7 3/3

NOTICE

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

■ Handling

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise. When you use the instrument along with an application on your smart device such as a smartphone or tablet, we recommend that you enable "Airplane Mode" on that device in order to avoid noise caused by communication.
- Depending on the condition of surrounding radio waves, the instrument may possibly malfunction.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F.)
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not press the LCD screen with your finger because it is a sensitive, precision-made part. Doing so might cause an appearance abnormality, such as a stripe on the LCD, although this abnormality should disappear again within a short time.

■ Maintenance

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

■ Saving data

- Some of the data of this instrument (page 23) are retained when the power is turned off. However, the saved data may be lost due to some failure, an operation mistake, etc.

Information

■ About copyrights

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

■ About functions/data bundled with the instrument

- Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original.

■ About this manual

- 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 company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

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

Model No.

Serial No.

(bottom_en_01)

Thank you for purchasing this Yamaha Digital Keyboard!

This instrument is loaded with various sounds, preset Songs and may convenient functions—so that even beginners can enjoy playing it right away.

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.

About the Manuals

■ Included Document



Owner's Manual (this book)

■ Online Materials (Downloadable from the Web)



Drum Kit List

This contains detailed information of the Drum Kit Voices (Voice No. 117-124, 378-386; pages 26–28). When selecting these Voices, various drum, percussion and SFX sounds listed here are assigned to each key.

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

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



SONG BOOK

This contains music scores for the preset Songs (excluding the Demo Songs) of this instrument.

To obtain this SONG BOOK, access the Yamaha website and download it from the product web page.

Yamaha Global Site: <https://www.yamaha.com>

■ Video Manual

Special video manuals are available that explain how to use this product, letting you see and hear how to enjoy playing with “Style” etc.



Scan the code at left or access the website below.

https://www.yamaha.com/2/portable_keyboards/

*If subtitles for your own language are not displayed, set them with the “Subtitles/closed captions (c)” and “Settings” buttons at the lower right on the YouTube screen.



“Settings” button (Sets language of the subtitles etc.)

“Subtitles/closed captions (c)” button (Switches the subtitle display on/off.)

Included Accessories

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

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Information for users on collection and disposal of old equipment and used batteries:



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation.



By disposing of these products and batteries 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 and batteries, 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:

These symbols are 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.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the EU Battery Directive for the chemical involved.

Cd

(weee_battery_eu_en_02)

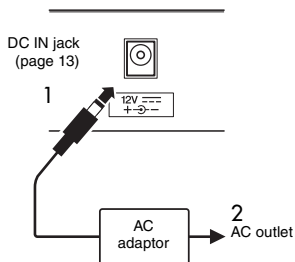
Setting Up

Power Requirements

Although the instrument will run either from an AC adaptor or batteries, Yamaha recommends use of an AC adaptor whenever possible. An AC adaptor is more environmentally friendly than batteries and does not deplete resources.

■ Using an AC Adaptor

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

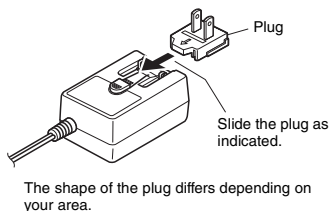


⚠ WARNING

- Use the specified AC adaptor (page 24) only. Using the wrong AC adaptor can result in damage to the instrument or overheating.

⚠ WARNING

- When using the AC adaptor with a removable plug, make sure to keep the plug attached to the AC adaptor. Using the plug alone can cause electric shock or fire.
- If the plug is accidentally removed from the AC adaptor, slide it back in until it clicks into place, taking care to avoid touching any internal metal parts. To avoid electric shock, short circuit or damage, also be careful that there is no dust between the AC adaptor and plug.



⚠ CAUTION

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

NOTE

- Follow the order shown above in reverse when disconnecting the AC adaptor.

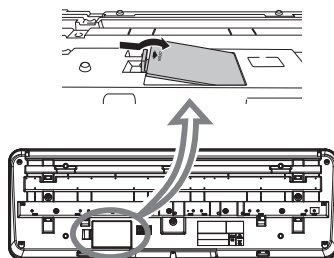
■ Using Batteries

This instrument requires six “AA” size, Alkaline (LR6)/Manganese (R6) batteries, or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries). The Alkaline batteries or rechargeable Ni-MH batteries are recommended for this instrument, since other types may result in poorer battery performance.

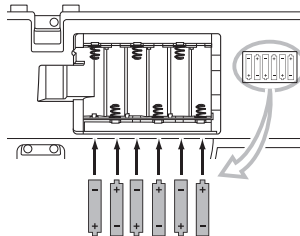
⚠ WARNING

- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.

- 1 Make sure that the power of the instrument is off.
- 2 Open the battery compartment cover located on the instrument's bottom panel.



- 3 Insert the six new batteries, being careful to follow the polarity markings on the inside of the compartment.



- 4 Replace the compartment cover, making sure that it locks firmly in place.

Make sure to set the battery type correctly (page 11).

NOTICE

- Connecting or disconnecting the power adaptor with batteries installed may turn the power off, resulting in loss of data being recorded at the time.
- When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries with new ones or already recharged ones.

NOTE

- This instrument cannot charge the batteries. Use only the specified charger device when charging.
- Power will be automatically drawn from the AC adaptor if an AC adaptor is connected while batteries are installed in the instrument.

■ Setting the battery type

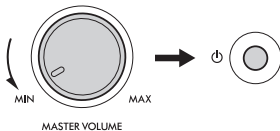
Depending on the battery type to be used, you may need to change the battery type setting on this instrument. Alkaline (and manganese) batteries are chosen by default. After installing new batteries and turning the power on, make sure to set the Battery Type appropriately (rechargeable or not) via Function Type number 027 (page 23).

NOTICE

- Failure to set the battery type may shorten the amount of the battery life. Make sure to set the battery type correctly.

Turning the Power On

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



- 2 Press the [⏻] (Standby/On) switch to turn the power on. The Voice name appears on the display. Adjust the volume as desired while playing the keyboard.
- 3 Press and hold the [⏻] (Standby/On) switch for about a second to set the instrument to standby mode.

**CAUTION**

- Even when the [⏻] (Standby/On) switch is in standby status, electricity is still flowing to the product at the minimum level. Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

NOTICE

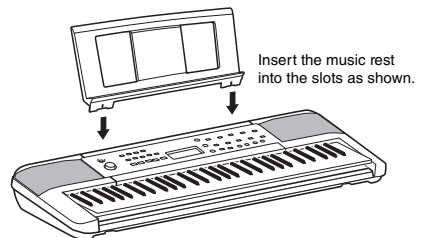
- Press only the [⏻] (Standby/On) switch when turning the power on. Any other operations such as pressing the pedal are not allowed. Doing so may cause the instrument to malfunction.

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 approximately 30 minutes by default; however, you can change this setting (Function Number 026; page 23).

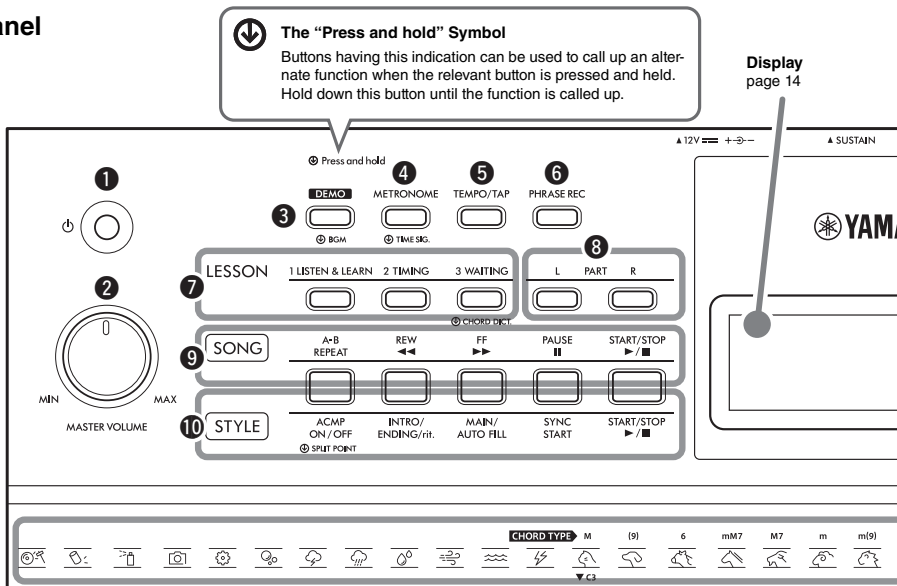
■ To disable the Auto Power Off function:

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

**Using the Music Rest**

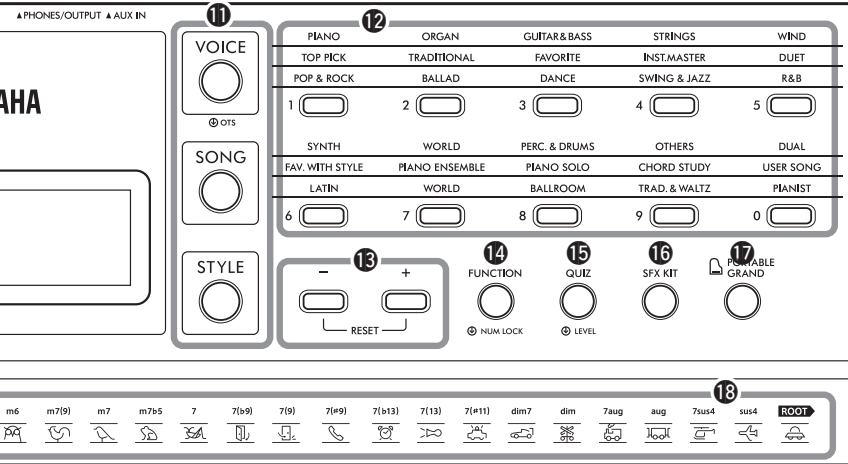
Panel Controls and Terminals

■ Front Panel



Display
page 14

- 1** [] (Standby/On) Switch page 11
Turns the instrument's power on or off.
- 2** [MASTER VOLUME] dial..... page 11
Adjusts the overall volume.
- 3** [DEMO] button page 23
Starts/stops the DEMO Songs.
 BGM page 23
Determines the repeat playback group (Demo Group) (Function Number 024; page 23).
- 4** [METRONOME] button
Starts/stops the metronome.
 TIME SIG. page 22
Determines the time signature of the metronome (Function Number 019; page 22).
- 5** [TEMPO/TAP] button
Determines the tempo of the SONG/STYLE/metronome. Pressing this button enables you to use the **12** VOICE/SONG/STYLE Category buttons as Number buttons.
 "Tempo" appears on the display, and then use the **12** Number buttons or **13** [+]/[-] buttons or to adjust the tempo value. Press the [+] and [-] buttons simultaneously to reset the value to the default tempo of the current Song or Style.
Tap Start
 You can start play back of the Song or Style by tapping this button at the required tempo-four times for time signatures in 4, and three times for time signatures in 3.
- 6** [PHRASE REC] button page 19
Records your performance.
- 7** Lesson buttons page 16
These start/stop playback of the selected Song Lesson.
 CHORD DICT. page 18
Lets you know how to play a certain chord when you know the name.
- 8** PART [L]/[R] buttons page 16
For selecting a lesson part or a mute part of the current Song.
- 9** Song control buttons page 16
For controlling Song playback.
- 10** Style control buttons page 17
For controlling Style playback.
- 11** Mode selection buttons page 14
For entering the Voice or Song or Style mode and calling up the selection display of the selected mode.
 OTS (One Touch Setting)
 Automatically selects the most suitable Voice (Voice No. 000) when you select a Style or Song (excepting the Song inputted from the **19** [AUX IN] jack).



12 VOICE/SONG/STYLE Category buttons, Number buttons [0]–[9] page 14

For selecting the desired Voice/Song/Style or directly entering setting values, etc.

13 [+]/[-] buttons

For selecting items or setting values. Press and hold either button to continuously increase or decrease the value in the corresponding direction. Press these buttons simultaneously to reset the value to the default.

14 [FUNCTION] buttonpage 21

Calls up the Function setting display.

15 NUM LOCK..... page 14

Calls up the **NUM LOCK** icon on the display and lets you use the 12 buttons as Number buttons.

16 [QUIZ] button.....page 19

Starts/Stop the Quiz function.

17 LEVEL

Determines the Quiz Level (page 19).

18 [SFX KIT] buttonpages 15, 29

Lets you play various sound effects from the keyboard.

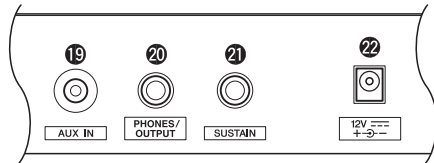
19 [PORTABLE GRAND] button..... page 15

Automatically selects Voice Number 001 “Grand Piano” for the Voice.

20 SFX Kit illustrationspage 29

Indicates the sound effects assigned to each key when pressing the 16 [SFX KIT] button.

■ Rear Panel



19 [AUX IN] jack..... page 20

For connecting an external audio device such as a smartphone.

20 [PHONES/OUTPUT] jack..... page 20

For connecting headphones and external speakers.

21 [SUSTAIN] jack page 20

For connecting a footswitch.

22 DC IN jack page 10

For connecting the AC adaptor.

Display Items

Each icon appears on the display when each function is on.

[DUAL] Indicates that a Dual Voice (No. 387–401) is selected.

[WIDE] Ultra-Wide Stereo (Function Number 017; page 22)

[DUO] Duo Mode (Function Number 022; page 23)

While this icon appears on the display, the VOICE/SONG/STYLE Category buttons can be used as Number buttons.

- ▶ **[VOICE]**Voice selection mode
- ▶ **[SONG]**Song mode
- ▶ **[STYLE]**Style mode

* The ▶ mark next to the mode name indicates which mode is active and whose contents can be selected with the Category buttons or [+]/[-] buttons.

* **[VOICE]** always appears on the display.

Indicates the information about the Quiz (page 19).

[L R] Part (page 16)

[A=B] A-B Repeat (page 16)

[ACMP] Style (page 17)

Indicates the chord which is played on the Auto Accompaniment range (page 17) of the keyboard, or specified via Song playback.

Indicates the current measure number of current Style/Song or the Function Number (page 21).

Indicates notes currently being played. Indicates the correct notes when using the Quiz function, the melody notes of a Song when using the Song lesson function, or the notes of chord for the Auto Accompaniment, etc.

How to Select a Voice/Song/Style

1 Press one of the [VOICE], [SONG], and [STYLE] buttons.

2 Select your desired Voice/Song/Style by one of the following **1–3** methods.

1 Select using the Category buttons (12; page 13).

The Voice category names are displayed in the upper row of the panel, the Song category names are in the middle row, and the Style category names are in the lower row. You can select the Voice/Song/Style in each category. Each time these buttons are pressed, the Voice/Song/Style switches sequentially.

2 Select using the [+]/[-] buttons (18; page 13). Press the [+] button to select the next Voice/Song/Style and [-] button to select the previous one.

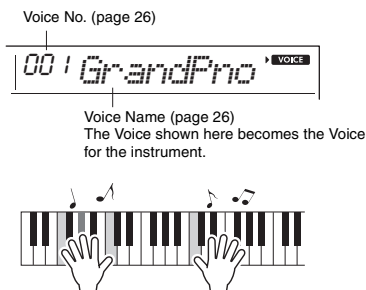
3 Select using the Number buttons (12; page 13) (NUM LOCK NUMLOCK).

Pressing the [FUNCTION] button for longer than a second enables you to use the Category buttons as Number buttons. Press your desired Voice/Song/Style Number referring to the Voice/Song/Style Lists (pages 26–32). To quit the numerical input, press the [FUNCTION] button for longer than a second again.

Playing the Keyboard

Playing a Variety of Instrument Voices

Select and play the various instrument Voices (page 14).



To play “Fun Sounds” (Sound effects):

Pressing the [SFX KIT] enables you to play various sound effects from the keyboard; barking, yelling, and much more. Try out each key and enjoy the sounds. Don't forget the black keys!

For details on the sound effects assigned to each key, refer to the illustration on the front panel (page 12) or “SFX Kit List” on page 29.

To simply play a Piano sound:

Press the [PORTABLE GRAND] button. The various settings will be reset to default and Voice Number 001 “Grand Piano” will automatically be selected as the Voice.

To apply effects or play with enhanced, more spacious sound:

Try using the effects or functions to enhance the sound. (Refer to the Function list on page 21.)

- Reverb
- Chorus
- Ultra-Wide Stereo

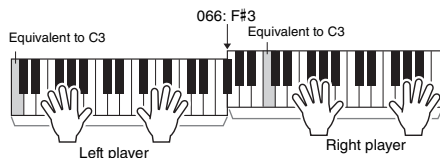
Playing the Keyboard with Two Persons (Duo mode)

When the Duo mode is activated on this instrument, two different players can play the instrument simultaneously, with the same sound, over the same octave range—one person on the left and other on the right.

NOTE

- You cannot select different Voices for the left and right sections in the Duo mode.

- 1 Press the [FUNCTION] button several times to call up “DuoMode” (Function Number 022; page 23).
- 2 Press the [+] to set the Duo mode to “on.” The keyboard is divided into two sections: left and right at the F#3 key.



- 3 One person should play the left Voice section of the keyboard while the other plays the right Voice section.
- 4 To exit from the Duo mode, call up “Duo-Mode” (see the step 1 above) and press the [-] button to set it to “oFF.”

Controlling sound output in the Duo mode

This output setting can be changed from the “Duo-Type” (Function Number 023; page 23).

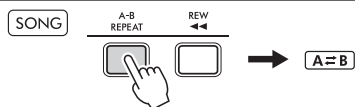
Playing and Practice Songs

You can simply enjoy listening to the internal Songs, or use them with just about any of the functions, such as lesson.

Playing Songs

- 1 Select the desired Song for playback (page 14).
- 2 Press the [START/STOP] button to start playback.
To stop playback, press the [START/STOP] button again.

A-B Repeat



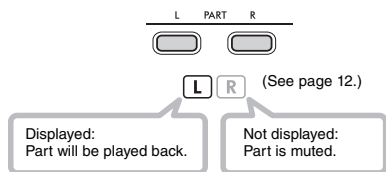
While playing a Song, press the [A-B REPEAT] button at the point you want to specify as the start point (A). Press the button again at the point you want to specify as the end point (B). To cancel repeat playback, press the button again.

To change the tempo:

Refer to **5** [TEMPO/TAP] button on page 12.

To listen only one part of a Song:

While playing a Song, press the [R] or [L] button to mute the part to that you do not want to listen. For example, pressing the [L] button to mute the left part enables you to listen and practice only right part.

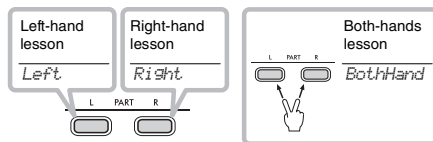


To adjust the Song Volume:

Adjust the Song Volume via "SongVol" (Function Number 010; page 21).

Using the Song Lesson Feature

- 1 Select the desired Song for lesson (page 14).
- 2 Press either or both the [R] and [L] buttons to select the part you want to practice. "Left" or "Right" or "BothHand" will appear on the display.



NOTE

- In this step, "No LPart" may appear, indicating that the current Song does not contain a left-hand part.

- 3 Select and press one of the buttons corresponding to the desired lesson (from the three below) and start the lesson.

Lesson 1 - Listen & Learn

The part you selected will sound as a model. Listen to it carefully and remember it well.

Lesson 2 - Timing

Learn to play the notes at the correct timing. Even if you play wrong notes, the correct notes shown in the display will sound.

Lesson 3 - Waiting

Learn to play the correct notes shown on the display. The Song pauses until you play the right note.

NOTE

- When starting playback of the Song Lesson, the Voice changes to "000" (OTS; page 12).

- 4 When Lesson playback reaches to the end, check your evaluation Grade (Excellent!, Very Good!, Good, or OK) on the display. (Only for Lesson 2 and 3)
- 5 Press the [START/STOP] button to stop the Lesson mode.

Chord Study

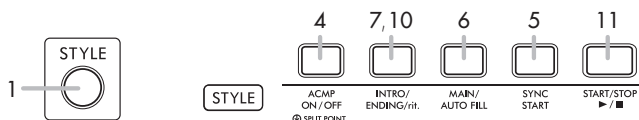
You can hear and experience the sound of the chords used in a typical performance by playing back Song numbers 101 to 112 (in the "CHORD STUDY" category). For details, refer to the "Song List" on page 32.

Playing Rhythm and Accompaniment (Style)

This instrument includes the Auto Accompaniment feature that automatically plays appropriate “Styles” (rhythm + bass + chord accompaniment), controlled simply playing chords with your left hand.

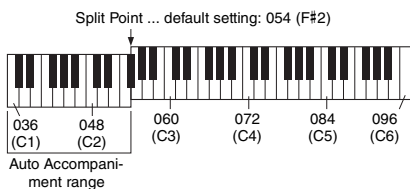
You can select how you want to play the chords from two ways: “Smart Chord,” which lets you play chords by playing a key with only one finger, and “Multi Finger,” which lets you play them normally, with all the constituent notes.

The explanations here apply when playing Styles with “Smart Chord.” If you want to play all the notes of the chords yourself, set the Fingering Type to “Multi Finger.”



- 1 Press the [STYLE] button.
- 2 Select your desired Style (page 14).
- 3 Set the Function Setting “Smart Chord Key” (Function Number 009; page 21) to match the key signature of your music score.
For details on “Smart Chord Key,” refer to page 18.
- 4 Press the [ACMP ON/OFF] button to turn on Auto Accompaniment.

With this operation, the area of the keyboard to the left of the Split Point (054: F#2) becomes the “Auto Accompaniment range” and is used only for specifying the chords.



The Split Point can be changed on the Function setting display by holding down the [ACMP ON/OFF] button for longer than a second.

To play back the rhythm part only

If you press the [START/STOP] button without pressing the [ACMP ON/OFF] button in this step, only the rhythm part can be played back.

- 5 Press the [SYNC START] button to turn Synchro Start on.

Synchro Start: This function lets you start the Style as soon as you start playing the keyboard in the Auto Accompaniment range.

- 6 Press the [MAIN/AUTO FILL] button to select Main A or Main B.

MAIN: This is the accompaniment pattern for the main part of the Song. There are two variations (A and B).

- 7 Press the [INTRO/ENDING/rit.] button to add an Intro part before starting Style playback.

- 8 Play a key with your left hand in the Auto Accompaniment range to start playback of the Intro.

Play just the root note with your left hand while playing melodies with your right hand.

Press the [MAIN/AUTO FILL] button as necessary to switch between Main A and B. The Fill-in is added between them.

FILL-IN(AUTO FILL): A short phrase is automatically added before changing to Main A or B.

- 9 Press the [INTRO/ENDING/rit.] button to add an Ending part before stopping Style playback.

You can have the Ending gradually slow down (ritardando) by pressing the [INTRO/ENDING/rit.] button again while the Ending is playing back.

You can also stop the Style by pressing the [START/STOP] button.

To adjust the Style Volume:

Adjust the Style Volume via “StyleVol” (Function Number 007; page 21).

To change the tempo:

Refer to **⏪** [TEMPO/TAP] button on page 12.

How to Play Chords when Playing the Style (Fingering Type)

The way to play a chord when playing the Style differs by Fingering Types. Set the desired Fingering Type via Function Number 008 (page 21) and enjoy playing the keyboard with the Style.

● Smart Chord (Default setting)

You can play the Style with playing only root note of a chord.

Smart Chord Key setting

When playing with the Style played with the Smart Chord function, you need to set the “key” of the Songs you want to play in advance. Set the number of the sharps (#) or flats (b) on your music score via the Function setting “Smart Chord Key” (Function Number 009; page 21).

For example, when you want to play the music score below, you need to set the Smart Chord Key to “FL2” (2 flats).



Smart Chord Chart

When setting the Fingering Type to Smart Chord, the appropriate chord plays according to the root note of a chord. However, the melody of some Songs may not be suitable for the chord. For details on the chords you can play, refer to “Smart Chord Chart” on page 33.

NOTE

- When playing a Song which modulates (changes key) in the middle, “Multi Finger” is recommended.

● Multi Finger

With this Fingering Type, you can use the following two methods to play the Styles.

Fingered: Lets you play the notes of the chords in the normal way.

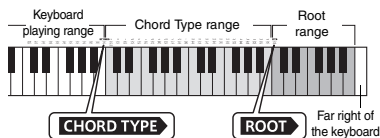
Single Finger: Lets you easily play chords using only one, two, or three fingers based on the simple rule (refer to “SONG BOOK” on page 8). (Only for Major, Minor, Seventh, and Minor seventh chords)

For details on the way to play a chord with “Multi Finger,” refer to “SONG BOOK”.

● Looking Up Chords Using the Chord Dictionary

This Dictionary function is useful when you know the name of a certain chord but do not know the constituent notes to play.

Press and hold the [3 WAITING] button (page 12) for longer than a second to call up “Dict.” This operation will divide the entire keyboard into the three ranges, split at C3 and C5 as illustrated below:



- 1 Press the root note of the chord in the Root range.
- 2 Specify a chord type in the Chord Type range referring to the illustration above the keyboard in the range. The notes you should play are shown in the display.
- 3 Play the corresponding notes in the Keyboard playing range. When you've played the chord properly, a bell sound signals your success.
- 4 To exit the Chord Dictionary, press one of these buttons; [VOICE], [SONG], or [STYLE].

Since chord information and some music scores in the “SONG BOOK” (page 8) gives you indications that let you experience the performance along with Styles, refer to that as well as this manual.

Try the Quiz - and Guess the Sound!

With this instrument, you can develop your ear for pitch by playing with the Quiz function as well as enjoying playing the keyboard.

1 Select the desired Voice that you want to guess (page 14) in advance.

Pressing the [SFX KIT] button lets you to try to guess some fun sounds.

2 Press the [QUIZ] button to start Quiz.



3 Select the same note from the instrument and play the key.

When you pressed the [SFX KIT] button in step 1, select the illustration above the keyboard that matches the sound from the instrument and play the key.

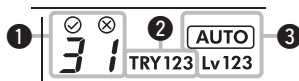
- There are a total of 10 questions.
- The answer time for a question is about 10 seconds.
- You can try the same Quiz question three times and check the number of times of answering on the display.
- When the Quiz finishes with the 10th question, you can check your grade (Excellent!, Very Good!, or Good) on the display.

To quit the Quiz before the 10th question, press the [QUIZ] button again.

To change the Quiz Level (difficulty):

Press the [QUIZ] button for longer than a second to change the Quiz Level. The difficulty differs by level. Select your desired level and enjoy the Quiz! For details on the level, refer to the "Quiz Level" (Function Number 018; page 22).

Display items for the Quiz



1 The number of correct answers

- ☑ means the number of correct answers and ☒ means the number of incorrect answers.

NOTE

- When the Quiz finishes with the 10th question, ☑ and ☒ disappear and only the number of correct answers appears.

2 The number of times of answering

You can check how many times you tried the same question.

3 Quiz Level (difficulty)

You can check the current Quiz Level.

Recording Your Performance (Phrase Recording)

You can record your performance as a User Song (Song No. 113), which can then be played back on the instrument.

1 Select the desired Voice to play (page 14).

2 Press the [PHRASE REC] button to enable the Record mode.

To exit from the Record mode press the [PHRASE REC] button again.

NOTICE

- If the User Song is recorded, you will record over and erase previous data in "User Song."

3 Play the keyboard or press the [START/STOP] button to start recording.

NOTICE

- Never attempt turn the power off or connect or disconnect the AC adaptor. Doing so can result in a loss of data.

4 Press the [START/STOP] button to stop recording.

5 To play back the recorded Song, press the [START/STOP] button.

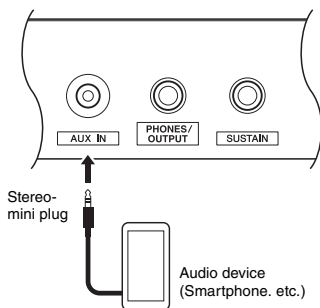
NOTE

- To delete the User Song, press the [START/STOP] button again after pressing the [START/STOP] button in step 3, without playing any key.

Connecting to Other Devices

Playing an External Audio Device, such as a Smartphone, with the Built-in Speakers

- 1 Turn off the power for both the audio device and this instrument.
- 2 Connect the audio device to the instrument's [AUX IN] jack.
Use an audio cable with no resistance having a stereo-mini plug on one side for connecting to this instrument, and a proper plug to match the output jack of the audio device on the other side.



- 3 Turn on the audio device, then this instrument.
- 4 Play back the connected audio device.
The sound of the audio device is output through the speakers of this instrument.
- 5 Adjust the Volume balance between the audio device and this instrument.
If possible, adjust the playback level of the audio device first, to achieve optimum balance.
- 6 Stop playback of the audio device.

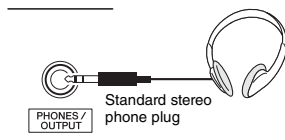
CAUTION

- Before connecting, turn off the power of both this instrument and the external audio device. Also, before turning the power on or off, make sure to set all volume levels to minimum(0). Otherwise, damage to the devices, electrical shock, or even permanent hearing loss may occur.

NOTICE

- To avoid possible damage to the external audio device and this instrument, first turn on the power to the external audio device, then to this instrument. Reverse this order when you turn the power off.

Connecting Headphones or External Speakers



Connect a pair of headphones to the [PHONES/OUTPUT] jack. This jack also functions as an external output. By connecting to a computer, keyboard amplifier, recorder, or other audio device, you can output the audio signal of this instrument to that external device. The speakers of this instrument are automatically shut off when a plug is inserted into this jack.

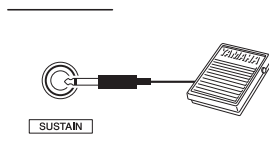
CAUTION

- Do not use the instrument or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss.
- Before connecting the instrument to other electronic components, turn off the power of all the components. Also, before turning any components on or off, make sure to set all volume levels to minimum. Otherwise, damage to the components or electrical shock may occur.

NOTICE

- To avoid possible damage to the external device, first turn on the power to the instrument, then to the external device. Reverse this order when you turn the power off.

Using a Pedal (Sustain)



You can produce a natural sustain as you play by pressing a footswitch (FC5 or FC4A; sold separately) plugged into the [SUSTAIN] jack.

NOTE

- Plug or unplug the footswitch while the power is off. Also, do not press the footswitch when turning the power on. Doing so changes the polarity of the footswitch, resulting in reversed operation.
- The sustain function does not affect Style (Auto Accompaniment; page 17).

The Functions

The Functions settings provide access to range of detailed instrument parameters such as Tuning, Split Point, Voices and Effects.

- 1 Press the [FUNCTION] button several times until the desired item appears.
To decrease the Function Number by one, simultaneously hold down the [FUNCTION] button and press the [-] button briefly. Simply pressing only [+] or [-] button does not change the Function Number.
- 2 Set the value by using the Number buttons or [+]/[-] buttons.

Press the [+] and [-] buttons simultaneously to recall the default setting.

NOTE

- Press the [FUNCTION] button in the step 1 enables you to use the VOICE/SONG/STYLE Category buttons as Number buttons.

- 3 To exit the Function settings, press one of these buttons; [VOICE], [SONG] or [STYLE].

● Function List

Function Number	Function Name	Display	Range/Settings	Default Value	Descriptions
Overall					
001	Transpose	<i>TransPos</i>	-12-12	0	Determines the pitch of the instrument in semitone increments.
002	Tuning	<i>Tuning</i>	427.0Hz-453.0Hz	440.0Hz	Determines the fine tuning of the pitch of the entire instrument in approx. 0.2Hz increments.
003	Split Point	<i>SPlitPnt</i>	036-096 (C1-C6)	054(F#2)	Determines the Split "point"—in other words, the key that separates the Auto Accompaniment range and Voice (page 17).
Voice (page 15)					
004	Volume	<i>M.Vol</i>	000-127	*	Adjusts the volume of keyboard performance when performing along with a Song or a Style.
005	Octave	<i>M.Octave</i>	-2-2	*	Determines the octave range for the Voice.
006	Chorus Depth	<i>M.Chorus</i>	000-127	*	Determines how much of the Voice's signal is sent to the Chorus effect (see "Chorus Type" on page 22).
Style (page 17)					
007	Style Volume	<i>StyleVol</i>	000-127	100	Determines the volume of the Style (page 18).
008	Fingering Type	<i>FingType</i>	1 (SmartChd) 2 (Multi)	1 (SmartChd)	Determines how to play the chord in Accompaniment Section when playing with a Style.
009	Smart Chord Key	<i>S.ChdKey</i>	FL7 (7 Flats ♭) – SP0 (No Key Signature) – SP7 (7 Sharps #)	SP0 (No Key Signature)	Determines the Key Signature when the Fingering Type is set to "Smart Chord." For example, if there are 2 sharps(#) on your music score, press the [+]/[-] buttons until "SP2" appears on the display.
Song (page 16)					
010	Song Volume	<i>SongVol</i>	000-127	100	Determines the volume of the Song (page 16).
011	Song Melody Voice	<i>MelodyVc</i>	001-401	**	You can change a Song's melody Voice to any other desired Voice as follows: 1. Select a Song (page 14). 2. Select the desired Voice (page 14). 3. Press the [FUNCTION] button repeatedly to call up "MelodyVc." 4. Press the [+] button. "SONG MELODY VOICE" appears in the display for a few seconds, and the selected Voice in step 2 replaces the Song's original melody Voice. Selecting another Song will cancel the Melody Voice change.

Function Number	Function Name	Display	Range/Settings	Default Value	Descriptions	
Effect (page 15)						
012	Reverb Type	<i>Reverb</i>	01–03 (Hall 1–3) 04–05 (Room 1–2) 06–07 (Stage 1–2) 08–09 (Plate 1–2) 10 (Off)	**	Determines the Reverb type. The best suited type is called up by selecting a Song or Style. Reverb Adds the ambience of a club or concert hall to the sound.	
013	Reverb Level	<i>RevLevel</i>	000–127	64	Determines how much of the Voice's signal is sent to the Reverb effect.	
014	Chorus Type	<i>Chorus</i>	1 (Chorus1) 2 (Chorus2) 3 (Chorus3) 4 (Flanger1) 5 (Flanger2) 6 (Off)	**	Determines the Chorus type. The best suited type is called up by selecting a Song, Style or Voice. However, this Chorus effect is not applied to some Voices because their Chorus Depth (Function Number 006) are set to "000" by default. In that case, raise the Chorus Depth as desired. Chorus Makes the Voice sound richer, warmer and more spacious.	
015	Panel Sustain	<i>Sustain</i>	on/oFF	oFF	Determines whether the Panel Sustain function is on or off.	
016	Master EQ Type	<i>MasterEQ</i>	1 (Speaker) 2 (Headphone) 3 (Boost) 4 (Piano) 5 (Bright) 6 (Mild)	1 (Speaker)	Sets the equalizer applied to the speaker output for the desired sound in different listening situations. Master EQ types	
				1	Speaker	Optimum for listening via the instrument's built-in speakers.
				2	Headphone	Optimum for headphones, or for listening via external speakers.
				3	Boost	Features more powerful sound. When selecting this type, there are some Voices or Styles that may easily distort.
				4	Piano	Optimum for piano solo performance.
				5	Bright	Lowers the mid range for a brighter sound.
				6	Mild	Lowers the high range for a softer sound.
017	Wide Type	<i>Wide</i>	1 (Wide1) 2 (Wide2) 3 (Wide3) 4 (Wide Off)	4 (Wide Off)	Determines the Ultra-Wide Stereo type. Higher values produce a greater Wide effect (except for 4).	
Quiz (page 19)						
018	Quiz Level	<i>QuizLvl</i>	AUt (Auto), 1, 2, 3	AUt (Auto)	Determines the Quiz Level.	
				AUt (Auto)	The Quiz Level increases the difficulty from Level 1 to Level 3 according to the number of correct answers. Correct answers 0-4: Level 1 5-7: Level 2 8-9: Level 3	
				1	One note sounds.	
				2	Three notes sound one-by-one.	
				3	Three notes sound simultaneously.	
Metronome (page 12)						
019	Time Signature Numerator	<i>TimeSig</i>	00–15	**	Determines the time signature of the Metronome.	
020	Metronome Volume	<i>Metrvol</i>	000–127	100	Determines the volume of the Metronome.	
Lesson (page 16)						
021	Your Tempo	<i>YourTemp</i>	on/oFF	on	This parameter is for the Lesson 3 "Waiting." When set to ON, playback tempo will change for matching the speed you are playing at. When set to OFF, playback tempo will be maintained regardless of the speed you are playing at.	

Function Number	Function Name	Display	Range/Settings	Default Value	Descriptions	
Duo (page 15)						
022	Duo Mode	<i>DuoMode</i>	on/oFF	oFF	Turns Duo Mode (page 15) on or off.	
023	Duo Type	<i>DuoType</i>	1 (Balance) 2 (Separate)	2 (Separate)	Determines how sounds are output from the speaker in the Duo Mode.	
					Balance	The performance sounds of the left section and the right section will sound from both the left and right speakers.
					Separate	The performance sound of the left section will sound from the left speaker, and the performance sound of the right section will sound from the right speaker.
Demo (page 12)						
024	Demo Group	<i>DemoGrp</i>	1 (Demo) 2 (Preset) 3 (User)	1 (Demo)	Determines the repeat playback group. After holding down the [DEMO] button for longer than a second to select a playback Demo Group, pressing [DEMO] button starts playback of all internal Songs in each Demo Group.	
					Demo	Preset Songs (Song Number: 001–003)
					Preset	All preset Songs (Song Number: 001–100)
					User	User Song (Song Number: 113)
025	Demo Play Mode	<i>PlayMode</i>	1 (Normal) 2 (Random)	1 (Normal)	Determines the repeat playback mode.	
Auto Power Off (page 11)						
026	Auto Power Off Time	<i>AutoOff</i>	oFF, 5/10/15/30/60/120 (minutes)	30 minutes	Specifies the time that will elapse before the instrument's power is automatically turned off.	
Battery (page 10)						
027	Battery Type	<i>Battery</i>	1 (Alkaline) 2 (Ni-MH)	1 (Alkaline)	Selects the type of batteries you have installed to this instrument.	
					Alkaline	Alkaline battery/manganese battery
					Ni-MH	Rechargeable battery

* The appropriate value is automatically set for each Voice combination.

** The appropriate value is automatically set for each Song or Style.

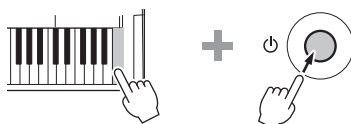
Backup and Initialization

The following Backup parameters will be maintained even if the power is turned off.

Backup parameters

- User Song (page 19)
- FUNCTION Settings:
Tuning, Fingering Type, Master EQ Type, Your Tempo, Auto Power Off Time, Battery Type

You can initialize backup data via the following method. While holding down the highest white key, press the [⏻] (Standby/On) switch to turn the power on.



Troubleshooting

Problem	Possible Cause and Solution
Not all of the Voices seem to sound, or the sound seems to be cut off.	The instrument is polyphonic up to a maximum of 32 notes—including auto accompaniment, Song, and Metronome. Notes exceeding this limit will not sound.
The sound of the Voice changes from note to note.	This is normal. The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the Voice can be slightly different from note to note.
Power suddenly and unexpectedly turns off.	This is normal and the Auto Power Off function may have been activated (page 11). If you need to disable the Auto Power Off function, select "Off" in the Function settings (Function Number 026; page 23).
When the instrument is turned on, power is turned off suddenly and unexpectedly.	The protection circuit has been activated due to over current. This may occur when an AC adaptor other than the one specified is used, or an AC adaptor is damaged. Use the specified adaptor only (see "Specifications"- "Power Supply" below). If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Specifications

Product Name

Digital Keyboard

Dimensions (W x D x H)

940 mm x 317 mm x 104 mm (37" x 12-1/2" x 4-1/8")

Weight

4.0 kg (not including batteries) (8 lb, 13 oz)

Keyboard

Number of Keys: 61 (C1 – C6)

Voices

- Polyphony (max.): 32
- Number of Voices: 384 Voices + 17 drum/SFX kits

Effects

- Types: Reverb 9 types, Chorus 5 types, Master EQ 6 types, Ultra-Wide Stereo 3 types

Accompaniment Styles

- Number of Styles: 143
- Fingering: Smart Chord, Multi Finger
- Style Control: ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL

Songs

- Number of Preset Songs: 112 (including Chord Study: 12)
- A-B Repeat

Recording

- Number of Songs: 1
- Number of Tracks: 1
- Data Capacity: Approx. 300 notes

Function

- Lesson: [1 LISTEN & LEARN], [2 TIMING], [3 WAITING]
- Chord Dictionary
- Panel Sustain
- One Touch Setting (OTS)
- Metronome
- Tempo Range: 11 – 280 (Tap Tempo: 32 – 280)
- Transpose: -12 – 0 – +12
- Tuning: 427.0 – 440.0 – 453.0 Hz (approx. 0.2 Hz increments)
- Duo
- Quiz
- Miscellaneous: PIANO button ([PORTABLE GRAND] button), SFX Kit button

Connectivity

- DC IN: 12 V
- Headphones/Output: Standard stereo phone jack (PHONES/OUTPUT) x1
- Sustain Pedal
- AUX IN: Stereo mini jack x1

Sound System

- Amplifiers: 2.5 W + 2.5 W
- Speaker: 12 cm x 2

Power Supply

- Power Supply:
 - AC Adaptor: PA-130 or an equivalent recommended by Yamaha
 - Batteries: Six "AA" size alkaline (LR6), manganese (R6) or Ni-MH rechargeable batteries
- Power Consumption: 6 W (When using PA-130 AC adaptor)
- Auto Power Off function (time is adjustable)

Included Accessories

Owner's Manual, Online Member Product Registration, Music rest, AC adaptor * (PA-130 or an equivalent recommended by Yamaha)

* May not be included depending on your area. Please check with your Yamaha dealer.

Separately Sold Accessories

(May not be available depending on your area.)

- AC adaptor
 - Users within U.S. or Europe: PA-130 or an equivalent recommended by Yamaha
 - Others: PA-3C, PA-130 or equivalent
- Headphones: HPH-50/HPH-100/HPH-150
- Footswitch: FC4A/FC5
- Keyboard stand: L-2C

* 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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Voice List

Maximum Polyphony

The instrument has 32-note maximum polyphony. This means that it can play a maximum of up to 32 notes at once, regardless of what functions are used. Auto accompaniment uses a number of the available notes, so when auto accompaniment is used the total number of available notes for playing on the keyboard is correspondingly reduced. The same applies to the Song functions. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

NOTE

- Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

Voice No.	Voice Name
PIANO	
001	Grand Piano
002	Electric Piano 1
003	Harpsichord 1
004	Clavi
005	Bright Piano
006	Mellow Piano
007	Honky-tonk Piano
008	Electric Piano 2
009	Electric Grand Piano
010	Chorus Electric Piano 1
011	Piano Strings
012	Dream
ORGAN	
013	Drawbar Organ 1
014	Percussive Organ 1
015	16+2/2/3 Organ
016	Rock Organ
017	Rotary Organ
018	Pipe Organ 1
019	Accordion
020	Tango Accordion 1
021	Harmonica 1
022	Drawbar Organ 2
023	60s Drawbar Organ 1
024	70s Drawbar Organ 1
025	Percussive Organ 2
026	Detuned Percussive Organ
027	Notre Dame
028	Reed Organ
GUITAR&BASS	
029	Nylon Guitar
030	Steel Guitar
031	Clean Guitar
032	Overdriven Guitar
033	Distortion Guitar
034	Muted Guitar
035	Finger Bass 1
036	Acoustic Bass 1
037	Pick Bass
038	Fretless Bass 1
039	Slap Bass 1
040	Slap Bass 2
041	Synth Bass 1
042	Techno Synth Bass
043	DX Bass
STRINGS	
044	Strings 1
045	Strings 2
046	Tremolo Strings
047	Orchestra 1
048	Pizzicato Strings

Voice No.	Voice Name
049	Violin
050	Cello
051	Contrabass
052	Orchestral Harp
053	Synth Strings 1
054	Synth Strings 2
055	Orchestra Hit 1
056	Choir Aahs
057	Voice Oohs
058	Synth Voice 1
WIND	
059	Brass Section
060	Trumpet
061	Trombone 1
062	French Horn 1
063	Tuba
064	Muted Trumpet
065	Sax Section
066	Tenor Sax
067	Alto Sax
068	Soprano Sax
069	Flute
070	Piccolo
071	Clarinet
072	Oboe
073	Recorder
074	Ocarina
075	Synth Brass 1
076	Resonant Synth Brass
SYNTH	
077	Square Lead 1
078	Sawtooth Lead 1
079	Sine Lead
080	Voice Lead
081	Fifths Lead
082	Funky Lead
083	Fargo
084	New Age Pad
085	Fantasy
086	Bowed Pad
087	Metallic Pad
088	Halo Pad
089	Crystal
090	Atmosphere
091	Brightness
092	Sweep Pad
093	Rain
094	Sound Track
WORLD	
095	Er Hu
096	Di Zi
097	Pi Pa

Voice No.	Voice Name
098	Sitar 1
099	Pungi
100	Harmonium 1 (Single Reed)
101	Shakuhachi
102	Koto
103	Pan Flute
104	Kanoon
105	Oud
106	Fiddle
107	Bagpipe
108	Dulcimer 1
109	Kalimba
PERC.&DRUMS	
110	Vibraphone
111	Marimba
112	Xylophone
113	Glockenspiel
114	Steel Drums
115	Tubular Bells
116	Timpani
117	Standard Kit 1
118	Standard Kit 1 + Chinese Percussion
119	Indian Kit
120	Arabic Kit
121	SE Kit 1
122	SE Kit 2
123	SE Kit 3
124	SFX Kit
OTHERS	
125	Mono Grand Piano
126	Harpsichord 2
127	Electric Piano 3
128	Chorus Electric Piano 2
129	Detuned Electric Piano
130	DX + Analog Electric Piano
131	Wah Clavi
132	60s Drawbar Organ 2
133	60s Drawbar Organ 3
134	70s Drawbar Organ 2
135	Detuned Drawbar Organ
136	70s Percussive Organ
137	Organ Bass
138	Slow Rotary Organ
139	Fast Rotary Organ
140	Pipe Organ 2
141	Pipe Organ 3
142	Organ Flute
143	Tremolo Organ Flute
144	Cheezy Organ
145	Light Organ
146	Puff Organ
147	Tango Accordion 2

Voice No.	Voice Name	Voice No.	Voice Name	Voice No.	Voice Name
148	Harmonica 2	212	Trumpet & Trombone Section	276	Bell Harp
149	Nylon & Steel Guitar	213	French Horn 2	277	Soft Vibraphone
150	Steel Guitar with Body Sound	214	French Horn Solo	278	Soft Marimba
151	Muted Steel Guitar	215	Horn Orchestra	279	Sine Marimba
152	12-string Guitar	216	Synth Brass 2	280	Balimba
153	Jazz Guitar	217	Soft Brass	281	Log Drums
154	Jazz Amp	218	Choir Brass	282	Celesta
155	Jazz Man	219	Blown Bottle	283	MusicBox 1
156	Chorus Guitar	220	Whistle	284	MusicBox 2
157	Funk Guitar	221	Square Lead 2	285	Church Bells
158	Guitar Pinch	222	LM Square	286	Carillon
159	Feedback Guitar 1	223	Sawtooth Lead 2	287	Tinkle Bell
160	Feedback Guitar 2	224	Thick Sawtooth	288	Agogo
161	Guitar Feedback	225	Dynamic Sawtooth	289	Woodblock
162	Guitar Harmonics 1	226	Digital Sawtooth	290	Castanets
163	Guitar Harmonics 2	227	Solo Sine	291	Melodic Tom 1
164	Guitar Harmonics 3	228	Calliope Lead	292	Melodic Tom 2
165	Acoustic Bass 2	229	Chiff Lead	293	Real Tom
166	Finger Bass 2	230	Charang Lead	294	Rock Tom
167	Finger Dark	231	Bass & Lead	295	Electronic Percussion
168	Finger Slap Bass	232	Hollow	296	Analog Tom
169	Fretless Bass 2	233	Shroud	297	Synth Drum
170	Fretless Bass 3	234	Mellow	298	Taiko Drum
171	Fretless Bass 4	235	Big Lead	299	Gran Cassa
172	Slap Bass 3	236	Sequenced Analog	300	Gamelimba
173	Jazz Rhythm	237	Pure Lead	301	Glass Percussion
174	Bass & Distorted Electric Guitar	238	Distorted Lead	302	Reverse Cymbal
175	Muted Pick Bass	239	Big Five	303	Banjo
176	Modulated Bass	240	Big & Low	304	Muted Banjo
177	Punch Thumb Bass	241	Fat & Perky	305	Dulcimer 2
178	Synth Bass 2	242	Warm Pad	306	Cimbalom
179	Synth Bass 2 Dark	243	Poly Synth Pad	307	Santur
180	Mellow Synth Bass	244	Equinox	308	Rabab
181	Sequenced Bass	245	Choir Pad	309	Harmonium 2 (Double Reed)
182	Click Synth Bass	246	Soft Whirl	310	Harmonium 3 (Triple Reed)
183	Modular Synth Bass	247	Itopia	311	Tanpura
184	Strings 3	248	Goblins	312	Sitar 2
185	Slow Strings	249	Echoes	313	Detuned Sitar
186	Stereo Strings	250	Sci-Fi	314	Shehnai
187	Stereo Slow Strings	251	African Wind	315	Gopichant
188	Orchestra 2	252	Carib	316	Tabla
189	60s Strings	253	Prologue	317	Gu Zheng
190	Suspense Strings	254	Synth Drum Comp	318	Yang Qin
191	Legato Strings	255	Popcorn	319	Shamisen
192	Warm Strings	256	Tiny Bells	320	Taisho-kin
193	Kingdom	257	Round Glockenspiel	321	Mandolin
194	Slow Tremolo Strings	258	Glockenspiel Chimes	322	Ukulele
195	Tremolo Orchestra	259	Clear Bells	323	Bonang
196	Slow Violin	260	Chorus Bells	324	Altair
197	Viola	261	Soft Crystal	325	Gamelan Gongs
198	Orchestra Hit 2	262	Air Bells	326	Stereo Gamelan Gongs
199	Impact	263	Warm Atmosphere	327	Rama Cymbal
200	Stereo Choir	264	Hollow Release	328	Thai Bells
201	Mellow Choir	265	Nylon Electric Piano	329	Fret Noise
202	Choir Strings	266	Nylon Harp	330	Breath Noise
203	Synth Voice 2	267	Harp Vox	331	Cutting Noise 1
204	Choral	268	Atmosphere Pad	332	Cutting Noise 2
205	Analog Voice	269	Goblins Synth	333	String Slap
206	Breathy Tenor Sax	270	Creeper	334	Flute Key Click
207	Baritone Sax	271	Ritual	335	Bird Tweet 1
208	English Horn	272	To Heaven	336	Bird Tweet 2
209	Bassoon	273	Night	337	Telephone Ring 1
210	Warm Trumpet	274	Glisten	338	Telephone Ring 2
211	Trombone 2	275	Bell Choir	339	Phone Call


















Voice List





















Voice No.	Voice Name
340	Shower
341	Thunder
342	Wind
343	Stream
344	Seashore
345	Bubble
346	Feed
347	Dog
348	Horse
349	Maou
350	Door Squeak
351	Door Slam
352	Scratch Cut
353	Scratch Split
354	Wind Chime
355	Car Engine Ignition
356	Car Tires Squeal
357	Car Passing
358	Car Crash
359	Siren
360	Train
361	Helicopter
362	Jet Plane
363	Starship
364	Burst
365	Roller Coaster
366	Submarine
367	Laugh
368	Scream
369	Punch
370	Heartbeat
371	Footsteps
372	Applause
373	Gunshot
374	Machine Gun
375	Laser Gun
376	Explosion
377	Firework
378	Standard Kit 2
379	Room Kit
380	Rock Kit
381	Electronic Kit
382	Analog Kit
383	Dance Kit
384	Jazz Kit
385	Brush Kit
386	Symphony Kit
DUAL*	
387	Octave Piano
388	Piano & Pizzicato Strings
389	Piano & Flute
390	Piano Pad
391	Octave Honky-tonk Piano
392	Harpsichord & Strings
393	Electric Piano Pad 1
394	Electric Piano Pad 2
395	Electric Piano Pad 3
396	Octave Strings
397	Octave Brass
398	Orchestra Tutti
399	Octave Choir
400	Jazz Section
401	Flute & Clarinet

* When you select a Voice of the DUAL category, two voices sound at the same time.

SFX Kit List

The lowest key

		Voice No. 124	
		SFX Kit	
C1		C 1	Punch
	C#1	C# 1	Laugh
D1		D 1	Footsteps
	D#1	D# 1	Scream
E1		E 1	Handclap
F1		F 1	Applause
	F#1	F# 1	Question Setting
G1		G 1	Announcement Start
	G#1	G# 1	Correct
A1		A 1	Announcement End
	A#1	A# 1	Wrong
B1		B 1	Gong 1
C2		C 2	 Gong 2
	C#2	C# 2	 Kick a can
D2		D 2	 Spray
	D#2	D# 2	 Camera
E2		E 2	 Gear
F2		F 2	 Bubble
	F#2	F# 2	 Thunder
G2		G 2	 Rain
	G#2	G# 2	 Splash
A2		A 2	 Wind
	A#2	A# 2	 Stream
B2		B 2	 Short Circuit
C3		C 3	 Cat
	C#3	C# 3	 Dog
D3		D 3	 Cow
	D#3	D# 3	 Horse
E3		E 3	 Goat

		Voice No. 124	
		SFX Kit	
F3		F 3	 Sheep
	F#3	F# 3	 Lion
G3		G 3	 Owl
	G#3	G# 3	 Rooster
A3		A 3	 Bird
	A#3	A# 3	 Frog
B3		B 3	 Insect
C4		C 4	 Door Squeak
	C#4	C# 4	 Door Slam
D4		D 4	 Dial Tone
	D#4	D# 4	 Alarm Bell
E4		E 4	 Bicycle Horn
F4		F 4	 Siren
	F#4	F# 4	 Car Passing
G4		G 4	 Railroad Crossing
	G#4	G# 4	 Steam Engine Whistle
A4		A 4	 Train
	A#4	A# 4	 Helicopter
B4		B 4	 Jet Plane
C5		C 5	 UFO
	C#5	C# 5	Car Engine Ignition
D5		D 5	Car Horn
	D#5	D# 5	Metallic Sound
E5		E 5	Laser
F5		F 5	Chime
	F#5	F# 5	Cash register drawer
G5		G 5	Barcode Scanner
	G#5	G# 5	Zipper
A5		A 5	Cuckoo Clock
	A#5	A# 5	Clock Tick
B5		B 5	Big Clock
C6		C 6	Chau Gong

Style List

Style No.	Style Name
POP & ROCK	
001	BritPopRock
002	8BeatModern
003	Cool8Beat
004	60sGuitarPop
005	8BeatAdria
006	60s8Beat
007	8Beat
008	OffBeat
009	60sRock
010	HardRock
011	RockShuffle
012	8BeatRock
013	16Beat
014	PopShuffle
015	GuitarPop
016	16BeatUptempo
017	KoolShuffle
018	HipHopLight
BALLAD	
019	70sGlamPiano
020	PianoBallad
021	LoveSong
022	6/8ModernEP
023	6/8SlowRock
024	OrganBallad
025	PopBallad
026	16BeatBallad
DANCE	
027	EuroTrance
028	Ibiza
029	SwingHouse
030	Clubdance
031	ClubLatin
032	Garage 1
033	Garage 2
034	TechnoParty
035	UKPop
036	HipHopGroove
037	HipShuffle
038	HipHopPop
039	70sDisco
040	LatinDisco
041	SaturdayNight
042	DiscoHands
SWING & JAZZ	
043	BigBandFast
044	BigBandBallad
045	JazzClub
046	Swing 1
047	Swing 2
048	Five/Four

Style No.	Style Name
049	Dixieland
050	Ragtime
R&B	
051	Soul
052	DetroitPop
053	6/8Soul
054	CrocoTwist
055	Rock&Roll
056	ComboBoogie
057	6/8Blues
LATIN	
058	BrazilianSamba
059	BossaNova
060	Forro
061	Sertanejo
062	Joropo
063	Parranda
064	Reggaeton
065	Tijuana
066	PasoDuranguense
067	CumbiaGrupera
068	Mambo
069	Salsa
070	Beguine
071	Reggae
WORLD	
072	CountryPop
073	CountrySwing
074	Country2/4
075	Bluegrass
076	Hawaiian
077	CelticDance
078	ScottishReel
079	Saeidy
080	WehdaSaghira
081	IranianElec
082	Emarati
083	AfricanGospelReggae
084	Makossa
085	ModernAfrobeat
086	HighLife
087	OrganHighLife
088	IgboHighLife
089	SocaCalypso
090	Azonto
091	IndianPop
092	Bhangra
093	Bhajan
094	BollyMix
095	Tamil
096	Kerala
097	GoanPop

Style No.	Style Name
098	Rajasthan
099	Dandiya
100	Qawwali
101	FolkHills
102	ModernDangdut 1
103	ModernDangdut 2
104	Keroncong
105	VietnamesePopBallad
106	Vietnamese6/8Ballad
107	XiQingLuoGu
108	YiZuMinGe
109	JingJueZou
BALLROOM	
110	VienneseWaltz
111	EnglishWaltz
112	Slowfox
113	Foxtrot
114	Quickstep
115	Tango
116	Pasodoble
117	Samba
118	ChaChaCha
119	Rumba
120	Jive
TRAD. & WALTZ	
121	US March
122	6/8March
123	GermanMarch
124	PolkaPop
125	OberkrainerPolka
126	Tarantella
127	Showtune
128	ChristmasSwing
129	ChristmasWaltz
130	ItalianWaltz
131	SwingWaltz
132	JazzWaltz
133	CountryWaltz
134	OberkrainerWalzer
135	Musette
PIANIST	
136	Stride
137	PianoSwing
138	Arpeggio
139	Habanera
140	SlowRock
141	8BeatPianoBallad
142	6/8PianoMarch
143	PianoWaltz

Song List

Song No.	Song Name
TOP PICK	
001	Demo 1
002	Demo 2
003	Demo 3
TRADITIONAL	
004	Frère Jacques
005	Der Froschgesang
006	Aura Lee
007	London Bridge
008	Sur le pont d'Avignon
009	Nedelka
010	Sippin' Cider Through a Straw
011	Bury Me Not on the Lone Prairie
012	Old MacDonald Had A Farm
013	If You're Happy and You Know It
014	Greensleeves
015	Kalinka
016	Holdilia Cook
017	La Cucaracha
FAVORITE	
018	Aloha Oe
019	Old Folks at Home
020	Santa Lucia
021	Beautiful Dreamer
022	Ring de Banjo
023	Funiculi Funicula
024	Largo (from the New World)
025	Brahms' Lullaby
026	Liebesträume Nr.3
027	Pomp and Circumstance
028	Chanson du Toreador
029	Jupiter, the Bringer of Jollity
030	The Polovetsian Dances
031	Die Moldau
032	Salut d'Amour op.12
033	Humoresques
034	Symphony No.9 (from the New World - 4th movement)
INST. (INSTRUMENT) MASTER	
035	Sicilienne/Fauré
036	Swan Lake
037	Grand March (Aida)
038	Serenade for Strings in C major, op.48
039	Pizzicato Polka
040	Romance de Amor
041	Menuett BWV Anh.114
042	Ave Verum Corpus
DUET	
043	Ten Little Indians (DUET)
044	The Cuckoo (DUET)
045	Close Your Hands, Open Your Hands (DUET)
046	O du lieber Augustin (DUET)

Song No.	Song Name
047	We Wish You A Merry Christmas (DUET)
048	London Bridge (DUET)
049	Scarborough Fair (DUET)
050	Twinkle Twinkle Little Star (DUET)
051	Im Mai (DUET)
052	O Christmas Tree (DUET)
053	Pop Goes The Weasel (DUET)
054	Mary Had a Little Lamb (DUET)
055	Row Row Row Your Boat (DUET)
056	On Top of Old Smoky (DUET)
FAV. (FAVORITE) WITH STYLE	
057	Amazing Grace
058	Oh! Susanna
059	Joy to the World
060	Little Brown Jug
061	Yankee Doodle
062	My Darling Clementine
063	Auld Lang Syne
064	My Bonnie
065	When the Saints Go Marching In
066	The Danube Waves
067	Battle Hymn of the Republic
068	I've Been Working On The Railroad
069	Grandfather's Clock
070	Bill Bailey (Won't You Please Come Home)
071	Down by the Riverside
072	Camptown Races
073	When Irish Eyes Are Smiling
074	Ave Maria
075	American Patrol
076	Valse Des Fleurs (From "The Nutcracker")
077	Frühlingsstimmen
PIANO ENSEMBLE	
078	Wenn ich ein Vöglein wär
079	Die Lorelei
080	Home Sweet Home
081	Scarborough Fair
082	My Old Kentucky Home
083	Loch Lomond
084	Silent Night
085	Deck the Halls
086	O Christmas Tree
087	Sonata Pathétique 2nd Adagio Cantabile
088	Ave Maria/J. S. Bach - Gounod
089	Jesus bleibet meine Freude
090	Prelude op.28-15 "Raindrop"
091	Nocturne op.9-2
092	Etude op.10-3 "Chanson de L'adieu"

Song No.	Song Name
093	Romanze (Serenade K.525)
PIANO SOLO	
094	Arabesque
095	La Chevaleresque
096	Für Elise
097	Turkish March
098	24 Preludes op.28-7
099	Annie Laurie
100	Jeanie with the Light Brown Hair

- Some Songs have been edited for length or for ease in learning, and may not be exactly the same as the original.
- A SONG BOOK (free downloadable scores) is available that includes scores for all built-in Songs (excepting Songs 1-3). To obtain the SONG BOOK, access the Yamaha Website below and download it from the product web page.

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

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Song No.	Song Name
Special Appendix - CHORD STUDY*	
101–112	Chord Study 01–Chord Study 12
USER SONG	
113	User Song

* You can hear and experience the sound of the chords used in a typical performance by playing back Song in this category. Song numbers 101 to 107 are very simple songs consisting of a single chord played in various positions, letting you listen to and master the chords one by one. On the other hand, Song numbers 108 to 112 consist of several chords strung together in patterns, for experiencing and understanding basic chord progressions.

Effect Type List

Reverb Types

No.	Reverb Type	Description
01–03	Hall 1–3	Concert hall reverb.
04–05	Room 1–2	Small room reverb.
06–07	Stage 1–2	Reverb for solo instruments.
08–09	Plate 1–2	Simulated steel plate reverb.
10	Off	No effect.

Chorus Types

No.	Chorus Type	Description
1–3	Chorus 1–3	Conventional chorus program with rich, warm chorusing.
4–5	Flanger 1–2	This produces a rich, animated wavering effect in the sound.
6	Off	No effect.

NOTE

- The Reverb/Chorus types not included in the lists above may be called up as best-suited types when selecting some Songs or Styles.
- Selecting another Song or Style will reset the Reverb/Chorus type.

Smart Chord Chart

Key Signature on the music score	Smart Chord Key (Display)	Root Note											
		D \flat			E \flat			F \sharp		G \sharp		B \flat	
		C	D	E	F	G	A	B					
	FL7	C dim	D \flat m	D dim7	E \flat 1+5	E	F dim	F \sharp 7	G	G \sharp m	A	B \flat m7 \flat 5	B
	FL6	C dim	D \flat 7	D	E \flat m	E	F m7 \flat 5	F \sharp	G dim	G \sharp m	A dim7	B \flat 1+5	B
	FL5	C m7 \flat 5	D \flat	D dim	E \flat m	E dim7	F 1+5	F \sharp	G dim	G \sharp 7	A	B \flat m	B
	FL4	C 1+5	D \flat	D dim	E \flat 7	E	F m	F \sharp	G m7 \flat 5	G \sharp	A dim	B \flat m	B dim7
	FL3	C m	D \flat	D m7 \flat 5	E \flat	E dim	F m	F \sharp dim7	G 1+5	G \sharp	A dim	B \flat 7	B
	FL2	C m	D \flat dim7	D 1+5	E \flat	E dim	F 7	F \sharp	G m	G \sharp	A m7 \flat 5	B \flat	B dim
	FL1	C 7	D \flat	D m	E \flat	E m7 \flat 5	F	F \sharp dim	G m	G \sharp dim7	A 1+5	B \flat	B dim
No key signature 	SP0 (Default)	C	D \flat dim	D m	E \flat dim7	E 1+5	F	F \sharp dim	G 7	G \sharp	A m	B \flat	B m7 \flat 5
	SP1	C	D \flat dim	D 7	E \flat	E m	F	F \sharp m7 \flat 5	G	G \sharp dim	A m	B \flat dim7	B 1+5
	SP2	C	D \flat m7 \flat 5	D	E \flat dim	E m	F dim7	F \sharp 1+5	G	G \sharp dim	A 7	B \flat	B m
	SP3	C dim7	D \flat 1+5	D	E \flat dim	E 7	F	F \sharp m	G	G \sharp m7 \flat 5	A	B \flat dim	B m
	SP4	C	D \flat m	D	E \flat m7 \flat 5	E	F dim	F \sharp m	G dim7	G \sharp 1+5	A	B \flat dim	B 7
	SP5	C dim	D \flat m	D dim7	E \flat 1+5	E	F dim	F \sharp 7	G	G \sharp m	A	B \flat m7 \flat 5	B
	SP6	C dim	D \flat 7	D	E \flat m	E	F m7 \flat 5	F \sharp	G dim	G \sharp m	A dim7	B \flat 1+5	B
	SP7	C m7 \flat 5	D \flat	D dim	E \flat m	E dim7	F 1+5	F \sharp	G dim	G \sharp 7	A	B \flat m	B

NOTE

• The "1+5" chord indication on the instrument's display is the same as that of a major chord.



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