
DIGITAL KEYBOARD

OWNER'S MANUAL

PSR-I300

Setting Up

Reference

Appendix

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



EN

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 Avenue, Buena Park, CA 90620, U.S.A.

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

(529-M04 FCC class B YCA 02)

COMPLIANCE INFORMATION STATEMENT (Supplier's declaration of conformity procedure)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Avenue, Buena Park, CA. 90620, U.S.A.
Telephone : 714-522-9011
Type of Equipment : Digital Keyboard
Model Name : PSR-I300

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.

(529-M02 FCC sdoc YCA 02)

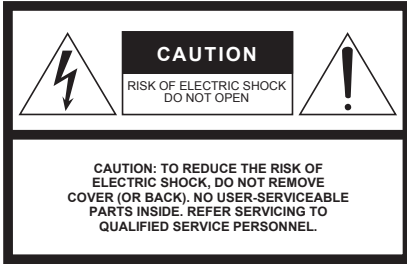
The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No.

Serial No.

(1003-M06 plate bottom en 01)

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.

(502-M01 UL 60065-1 en 01)

For Singapore

Users are only allowed to use EN 50075 detachable and interchangeable 2-pin plugs or BS 1363-3 or SS 145-3 detachable and interchangeable 3-pin plugs that are approved and suitable to use in Singapore.

(604-M02 SG adaptor 01)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Especially in the case of children, a guardian should provide guidance on how to properly use and handle the product before actual use.

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



WARNING

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

Power supply

- 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.
- Do not touch the product or the power plug during an electrical storm.
- Use only the correct voltage specified for the product. The required voltage is printed on the name plate of the product.
- Use only the supplied or the specified AC adaptor (page 91). Do not use the AC adaptor for other devices.
- Check the power plug periodically and remove any dirt or dust which may have accumulated on it.
- Insert the power plug firmly all the way into the AC outlet. Using the product when it is not plugged in sufficiently can cause dust to accumulate on the plug, possibly resulting in fire or skin burns.
- 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, as long as the power cord is not unplugged from the wall AC outlet, the product will not be disconnected from the power source.
- Do not connect the product to an electrical outlet using a multi-plug outlet extender. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When disconnecting the power plug, always hold the plug itself and not the cord. Pulling by the cord can damage it and cause electric shocks or a fire.
- If not using the product for long periods of time, be sure to pull the power plug from the AC outlet.

Do not disassemble

- This product contains no user-serviceable parts. Do not attempt to disassemble the internal parts or modify them in any way.

Water warning

- Do not expose the product 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 or places where water may drop. A liquid such as water getting into the product may cause a fire, electric shocks, or malfunctions.

- Use the AC adaptor indoors only. Do not use in any wet environments.
- Never insert or remove a power plug with wet hands.

Fire warning

- Do not place any burning items or open flames near the product, since they may cause a fire.

Handling

- Magnetism from this product may affect electro-medical devices, such as a heart pacemaker implant or defibrillator implant.
 - Keep the product away from a heart pacemaker implant or a defibrillator implant.

Batteries

- Do not dispose of a battery in a fire.
- Do not expose the battery to conditions of extreme low air pressure, cold or heat (such as in direct sunlight or a fire) or excessive dust or humidity. Doing so may result in the battery bursting, causing a fire or injury.
- Follow the precautions below. Failure to do so might result in battery fluid leakage. If the contents of the battery gets on your hands or in your eyes, it can cause blindness, chemical burns, and damage of the product.
 - Use the specified battery type (page 91) only.
 - Do not use new batteries together with old ones.
 - Do not mix battery types.
 - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
 - Do not disassemble a battery.
 - When the batteries run out, or if the product is not to be used for a long time, remove the batteries from the product.
 - Do not attempt to recharge batteries that are not designed to be charged.

- 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.
- When using rechargeable batteries, follow the instructions that came with the batteries. Use only the specified charger device and within the specified charging temperature range when charging. Charging with an unspecified charger or at a temperature outside the range may cause leakage, overheating, explosion, or malfunction.
- Keep batteries away from children. A child could accidentally swallow a battery. Failure to observe this may also cause inflammation due to battery fluid leaks.

- Do not put batteries in a pocket or bag, or carry or store them together with pieces of metal. Batteries kept in such condition could short, burst, or leak, causing a fire or injury.

If you notice any abnormality

- If any of the following problems occur, immediately turn off the power switch and disconnect the power plug from the outlet. If you are using batteries, remove all batteries from the product. Finally have the device inspected by Yamaha service personnel.
 - The power cord or plug becomes frayed or damaged.
 - Unusual smells or smoke are emitted.
 - Some object, or water has been dropped into the product.
 - There is a sudden loss of sound during use of the product.
 - Cracks or other visible damage appear on the product.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the product or other property. These precautions include, but are not limited to, the following:

Location

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over and cause injury.
- Before moving the product, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- Use only the stand specified for the product. When attaching it, use the provided screws only. Failure to do so could cause damage to the internal components or result in the product falling over.

Connections

- Before connecting the product 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 product to set the desired listening level.

Handling

- Do not insert your finger or hand in any gaps on the product.
- Do not insert foreign materials such as metal or paper into any openings or gaps of the product. Failure to observe this may cause a fire, electric shocks, or malfunctions.
- Do not rest your weight on, or place heavy objects on the product, and do not use excessive force on the buttons, switches or connectors.
- Do not use the product 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.
- Remove the power plug from the AC outlet before cleaning the unit. Failure to observe this may cause electric shocks.

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

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

Even when the [⏻] (Standby/On) switch is in standby status (display is 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 you unplug the power cord from the wall AC outlet.

Make sure to discard used batteries according to local regulations.

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 app on your smart device, such as a smartphone or tablet, we recommend that you enable “Airplane Mode” on the device 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 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 instrument.
- 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/slightly damp 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 53) are retained when the power is turned off. However, the saved data may be lost due to some failure, an operation mistake, etc. Save your important data onto an external device such as a computer (page 52).

Information

■ About copyrights

- The copyright of the “content” *1 installed in this product belongs to Yamaha Corporation or its copyright holder. Except as permitted by copyright laws and other relevant laws, such as copying for personal use, it is prohibited to “reproduce or divert” *2 without the permission of the copyright holder. When using the content, consult with a copyright expert.
- If you create music or perform with the contents through the original use of the product, and then record and distribute them, the permission of Yamaha Corporation is not required regardless of whether the distribution method is paid or free of charge.

*1: The word “content” includes a computer program, audio data, Accompaniment Style data, MIDI data, waveform data, voice recording data, music score, and score data, etc.

*2: The phrase “reproduce or divert” includes taking out the content itself in this product, or recording and distributing it without changes in a similar manner.

■ 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 the appearance of this product

- This product may appear to have lines or scratches on the surface. The apparent lines or scratches are called “weld lines.” They occur during the process of modeling the case and do not affect the functionality of the product.

■ About this manual

- The illustrations and LCD screens as shown in this manual are for instructional purposes only.
- iPhone, iPad 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.

■ About this manual

- When disposing of this product, please contact the appropriate local authorities.
- Make sure to discard used batteries according to local regulations.

About the Manuals

In addition to this Owner's Manual, the following Online materials (PDF files) are available.



Drum Kit List

This contains detailed information of the Drum Kit Voices (Voice Nos. 260–279; page 72). When you select these Voices, various drum, percussion and SFX sounds listed here are assigned to each key.



MIDI Reference

This contains MIDI-related information, such as the MIDI Implementation Chart.



Computer-related Operations

This contains instructions about computer-related functions.



Smart Device Connection Manual

This explains how to connect the instrument to smart devices, such as smartphones, tablet devices, etc.

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

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

NOTE

- For a general overview of MIDI and how you can effectively use it, search for “MIDI Basics” (only in English, German, French and Spanish) on the website above.



Song Book (only in English and French)

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>

Included Accessories

- Owner's Manual (this book)
- AC adaptor*
- Music rest
- Online Member Product Registration

* May not be included depending on your particular locale. Check with your Yamaha dealer.

Formats and functions



GM System Level 1

“GM System Level 1” is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GM-compatible tone generator, regardless of manufacturer. The GM mark is affixed to all software and hardware products that support GM System Level.



XGlite

As its name implies, “XGlite” is a simplified version of Yamaha's high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects.



Style File Format (SFF)

The Style File Format combines all of Yamaha's auto accompaniment know-how into a single unified format.



USB

USB is an abbreviation for Universal Serial Bus. It is a serial interface for connecting a computer with peripheral devices. It allows “hot swapping” (connecting peripheral devices while the power to the computer is on).



Touch Response

The exceptionally natural Touch Response feature gives you maximum expressive control over the level of the Voices.

Thank you for purchasing this Yamaha Digital Keyboard!
This instrument is loaded with various sounds, preset Songs and many convenient functions—
so that even beginners can enjoy playing it right away.
We recommend that you read this manual carefully so 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.

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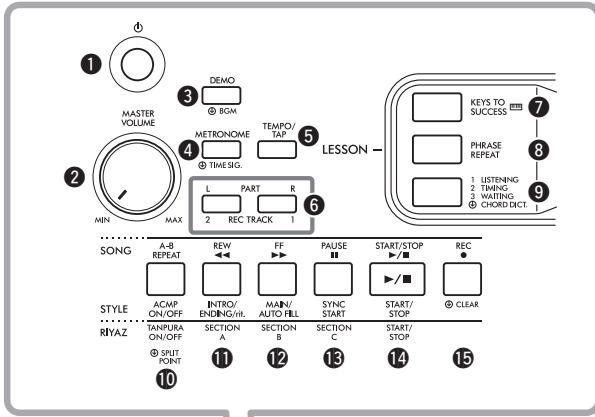
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Panel Controls and Terminals

Front Panel



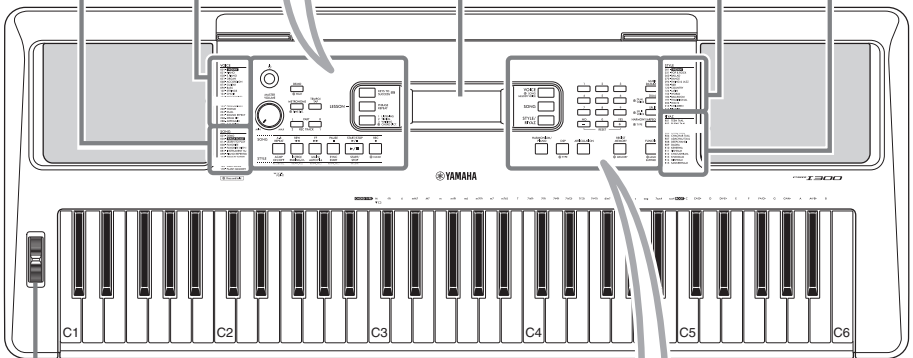
Song List
(page 81)

Voice List
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Display
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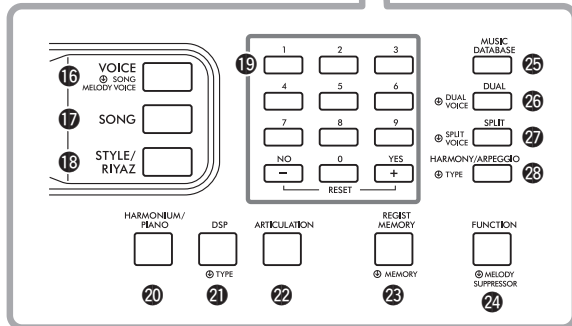
Style List
(page 82)

Riyaz
(page 83)



As illustrated, each note of the keyboard has a specific note number and name (e.g., 036/C1), which is used in making various settings, such as Split Point (page 25).

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- ❶ [⏻] (Standby/On) switch page 13
- ❷ [MASTER VOLUME] dial page 14
- ❸ [DEMO] button page 33
- ❹ [METRONOME] button page 16
- ❺ [TEMPO/TAP] button page 31

In the Lesson mode

- ❻ PART
 - [L] button page 40
 - [R] button page 40

In the Recording mode

- ❻ [REC TRACK 2] button page 45
- [REC TRACK 1] button page 45

- ❼ [KEYS TO SUCCESS] button page 37
- ❽ [PHRASE REPEAT] button page 39
- ❾ [1 LISTENING 2 TIMING 3 WAITING] button
..... page 40

In the Song mode

- ❿ [A-B REPEAT] button page 35
- ⓫ [REW] button page 34
- ⓬ [FF] button page 34
- ⓭ [PAUSE] button page 34

In the Style mode

- ⓯ [ACMP ON/OFF] button page 25
- ⓰ [INTRO/ENDING/rit.] button page 26
- ⓱ [MAIN/AUTO FILL] button page 26
- ⓲ [SYNC START] button page 25

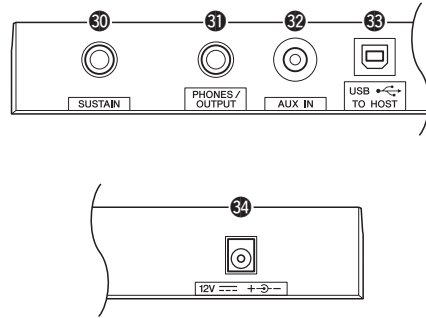
In the Riyaz mode

- ⓳ [TANPURA ON/OFF] button page 32
- ⓴ [SECTION A] button page 32
- ⓵ [SECTION B] button page 32
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- ⓷ [START/STOP] button page 33
- ⓸ [REC] button page 45
- ⓹ [VOICE] button page 16
- ⓺ [SONG] button page 33
- ⓻ [STYLE/RIYAZ] button page 25
- ⓼ Number buttons [0]–[9], [+ / YES], [- / NO] page 15
- ⓽ [HARMONIUM/PIANO] button page 16
- ⓾ [DSP] button page 19
- ⓿ [ARTICULATION] button page 19
- ⓿ [REGIST MEMORY] button page 47
- ⓿ [FUNCTION] button page 54
- ⓿ [MUSIC DATABASE] button page 30

- ⓿ [DUAL] button page 17
- ⓿ [SPLIT] button page 17
- ⓿ [HARMONY/ARPEGGIO] button page 21
- ⓿ [PITCH BEND] wheel page 18

Rear Panel




- ⓿ [SUSTAIN] jack page 14
- ⓿ [PHONES/OUTPUT] jack page 14
- ⓿ [AUX IN] jack page 50
- ⓿ [USB TO HOST] terminal* page 52
- * For connecting to a computer. For details, refer to "Computer-related Operations" (page 8) on the website. When connecting, use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.
- ⓿ DC IN jack page 12

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.

The "Press and hold" Symbol

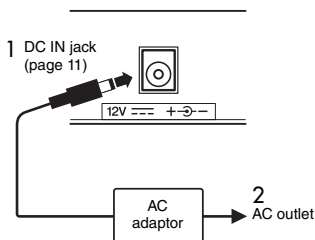
 Buttons having this indication can be used to call up an alternate function when the relevant button is pressed and held. Hold down this button until the function is called up.

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.

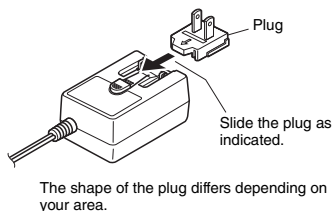


WARNING

- Use the specified AC adaptor (page 91) 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.

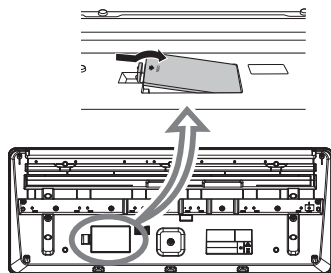
Using Batteries

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.

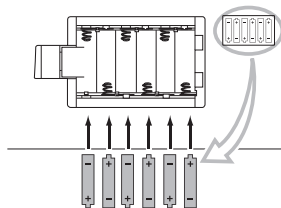
WARNING

- 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 13).

NOTICE

- Connecting or disconnecting the AC adaptor with batteries installed may turn the power off, resulting in loss of data being recorded or transferred 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

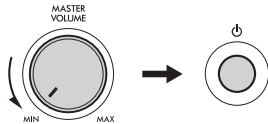
Depending on the battery to be installed, you may need to change the battery type setting, although “Alkaline (and manganese)” is set by default. After installing new batteries, call up Function number 063 (page 57), and then set the Battery Type (rechargeable or not).

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.

Setting the Auto Power Off function

To prevent unnecessary power consumption, this instrument turns off automatically if not operated for 30 minutes by default. This non-operation time can be changed as desired.

■ To change the non-operation time which enables Auto Power Off

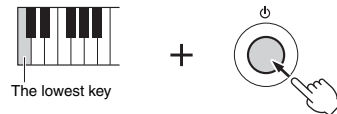
Press the [FUNCTION] button several times until “AutoOff” (Function 062; page 57) appears, and then use the [+ / YES] or [- / NO] button to select the desired value.

Settings: OFF, 5, 10, 15, 30, 60, 120 (minutes)

Default value: 30 (minutes)

■ To cancel Auto Power Off when turning on the instrument

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

**NOTICE**

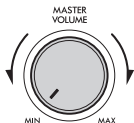
- Depending on the instrument status, the power may not turn off automatically, even after the elapse of the specified period of time. Always turn off the power manually when the instrument is not in use.
- When the instrument is not operated for a specified time while connected to an external device such as an amplifier, speaker or computer, make sure to turn off all connected devices including the instrument, in order to protect the devices from possible damage from power turning off automatically. Alternately, if you want to avoid doing this, simply disable the Auto Power Off function.

NOTE

- Generally, the data and settings are maintained even when the power is turned off with the Auto Power Off function. For details, see page 53.

Adjusting the Master Volume

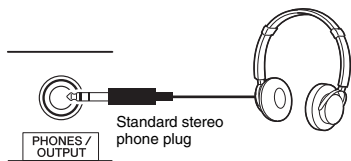
To adjust the volume of the entire keyboard sound, use the [MASTER VOLUME] dial while playing the keyboard.



CAUTION

- Do not use the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss.

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 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.

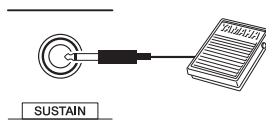
CAUTION

- 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 an external device via the [PHONES/OUTPUT] jack, turn off both the device and the instrument. After connecting, set all volume levels to minimum, and then turn on/off both the device and the instrument. When turning on, turn on the instrument first, and then the device; when turning off, turn off the device and then the instrument. Otherwise, damage to the instrument and device or electrical shock may occur.

NOTE

- When the [PHONES/OUTPUT] jack is connected, set the Master EQ (page 49) to "3 Headphone."

Using a Pedal



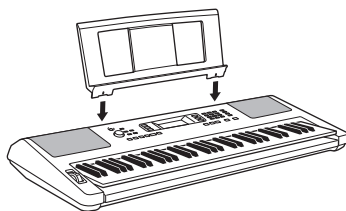
By using a pedal, you can control one of four functions in real time as you play: Sustain, Articulation (page 20), Arpeggio (page 22) and Sostenuto (page 56). Make sure the footswitch (FC5 or FC4A; sold separately) plugged into the [SUSTAIN] jack. By default, Sustain is assigned, so that the sound can be heard for a long time even if you take your finger off the keyboard while pressing the foot switch, like a damper pedal on a piano. To use a function other than Sustain, use the function settings (Function 031; page 56).

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 Split Voices (page 17), Style (automatic accompaniment; page 24) and Riyaz (page 32).

Using the Music Rest

Insert the music rest into the slots as shown.



Display Items and Basic Operations

Display Items

Function status

- HARMONY** Harmony (page 21)
- ARPEGGIO** Arpeggio (page 21)
- DUAL** Dual (page 17)
- SPLIT** Split (page 17)
- DSP** DSP (page 19)
- DUO** Duo (page 23)
- S.Art Life** Articulation (page 19)

Voice/Song/Style

- VOICE** Voice selection mode
- SONG** Song mode
- STYLE** Style/Riyaz mode

VOICE is always shown while either **SONG** or **STYLE** is shown.

▶ appears only when the settings of the corresponding function can be edited.

Registration Memory

REGIST

1 2 3
4 5 6
7 8 9

(page 47)

Touch Indication

TOUCH

Touch Response (page 18)

Strength Meter

is a meter that lights up according to the strength with which you play the keyboard.

(pages 18, 42)

■ represents the target strength when practicing with songs in the "Touch Tutor" category. (page 42)

Lesson Indication

This area indicates the Lesson related status.

Keys To Success (page 37)

PHRASE

Phrase Repeat (page 39)
Chord Progression (page 44)

★★★
Indicates the Passing Status (page 38) of the Keys To Success lesson.

Chord

Indicates the chord which is played in the Auto Accompaniment range (page 25) of the keyboard, or specified via Song playback.

Function or Measure

Normally indicates the current measure number of the current Style, Riyaz or Song. When the [FUNCTION] button (page 54) is in use, this indicates the Function number.

Beat

Indicates the current beat of playback.

Keyboard Display

Indicates notes you are currently playing, or notes specified via the Song Lesson function or Chord Dictionary function.

Song Track status

Indicates the on/off status of Song playback or target track of Song recording (pages 35, 46).

L R

R Lit: Track contains data

R Unlit: Track is muted or contains no data

R Flashing: Track is selected as recording track

A-B Repeat

Appears when the A-B Repeat function is active. (page 35)

Auto Accompaniment

Appears when the Auto Accompaniment function is on. (page 25)

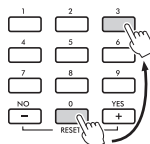
Basic Operations

■ Number buttons

Use the Number buttons to directly enter an item or value. For numbers that start with one or two zeroes, the first zeroes can be omitted.

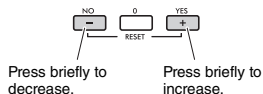
Example: Selecting Voice 003, Harmmum3.

Press number buttons [0], [0], [3], or simply press [3].



■ [-/NO] and [+ /YES] buttons

Press the [+ /YES] button briefly to increase the value by 1, or press the [- /NO] button briefly to decrease the value by 1. Press and hold either button to continuously increase or decrease the value in the corresponding direction.



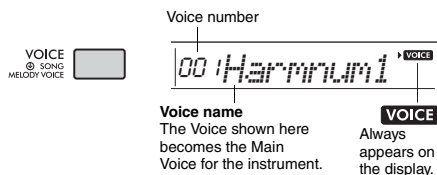
Playing a Variety of Instrument Voices

In addition to piano, organ, and other “conventional” keyboard instruments, this instrument has a large range of Voices that includes guitar, bass, strings, sax, trumpet, drums and percussion, and even sound effects—giving you a wide variety of musical sounds.

Selecting a Main Voice

1 Press the [VOICE] button.

The Voice number and name will be shown.



NOTE

- **VOICE** is not displayed alone. It is always displayed with **SONG** or **STYLE**. Refer to page 15.

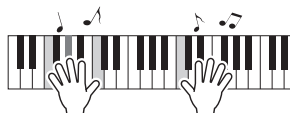
2 Use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons to select the desired Voice.

Refer to the Voice List on page 70.



Select the Voice you want to play

3 Play the keyboard.



Preset Voice Types

001–030 (Indian Voices)	Used for Indian music performance.
001–259	Instrument Voices (including sound effects).
260–279 (Drum Kit)	Various drum and percussion sounds are assigned to individual keys, from which they can be played. Details on the instruments and key assignments of each Drum Kit can be found on page 72.
280–299	Arpeggios are automatically reproduced by simply playing the keyboard (page 21).
300–644	XGlite Voices (page 73)
000	One Touch Setting The One Touch Setting feature automatically selects the most suitable Voice when you select a Style, Riyaz or Song (excepting Songs and Styles input from other devices). Simply select Voice number “000” to activate this feature.

Playing the “Harmonium/Piano”

When you want to reset various settings to default and simply play a Harmonium sound, press the [HARMONIUM/PIANO] button.



The Voice “001 Harmonium Single” is selected automatically as the Main Voice. When “001 Harmonium Single” is already selected, “031 Live! Concert Grand Piano” is selected instead.

Using the Metronome

The instrument features a built-in metronome (a device that keeps an accurate tempo), convenient for practicing.

1 Press the [METRONOME] button to start the metronome.



2 Press the [METRONOME] button again to stop the metronome.

To change the tempo:

Press the [TEMPO/TAP] button to call up the Tempo value, and then use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons.



Current Tempo value

Press the [+ / YES] and [- / NO] buttons simultaneously to call up the default tempo value of the current Style, Riyaz or Song.

To set the Time Signature:

Press and hold the [METRONOME] button to call up “TimeSigN” (Functions 032; page 56), and then use the number buttons, or [+ / YES] and [- / NO] buttons.

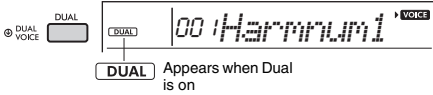
To set the Metronome Volume:

Call up Function number 034 (page 56).

Layering a Dual Voice

In addition to the Main Voice, you can layer a different Voice over the entire keyboard as a “Dual Voice.”

1 Press the [DUAL] button to turn Dual on.



2 Play the keyboard.



3 Press the [DUAL] button again to exit from Dual.

To select a different Dual Voice:

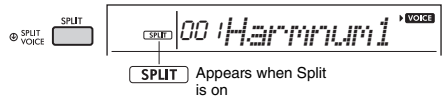
Although turning on Dual will select a Dual Voice suitable for the current Main Voice, you can easily select a different Dual Voice by pressing and holding the [DUAL] button to call up “D.Voice” (Function 009; page 55), then using the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons.

Playing a Split Voice in the Left-hand Area

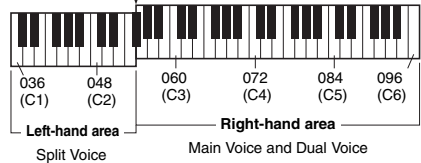
By dividing the keyboard into two separate areas, you can play a different Voice between the left-hand and right-hand areas.

1 Press the [SPLIT] button to turn on Split.

The keyboard is divided into left- and right-hand areas.

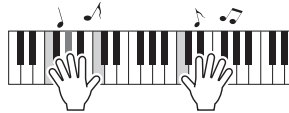


Split Point default setting: 054 (F#2)



You can play a “Split Voice” in the left-hand area of the keyboard while playing a Main Voice and Dual Voice in the right-hand area of the keyboard. The highest key for the left-hand area is referred to as the “SplitPnt” (Function 004; page 54) which can be changed from the default F#2 key.

2 Play the keyboard.



3 Press the [SPLIT] button again to exit from Split.

To select another Split Voice:

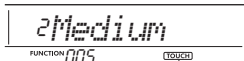
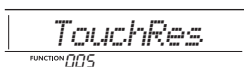
Press and hold the [SPLIT] button to call up “S.Voice” (Function 013; page 55), and then use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons.

Changing the Touch Response of the Keyboard

The keyboard of this instrument is equipped with a Touch Response feature that lets you dynamically and expressively control the level of the Voices according to your playing strength.

1 Press the [FUNCTION] button several times until “TouchRes” (Function 005; page 54) appears.

After a few seconds, the current Touch Response appears.



[TOUCH] Appears when the Touch Response is not “Fixed.”

2 Use the number buttons [1]–[4], [+ / YES], [- / NO] buttons to select a Touch Response setting between 1 and 4.

Touch Response

1	Soft	Produces relatively high volume even with light playing strength. Best for players with a light touch who want to maintain a consistent, relatively loud volume.
2	Medium	Produces a fairly “standard” keyboard response.
3	Hard	The keys must be played very strongly to generate loud volume. This setting is best for a wide dynamic range and optimum expressive control of the sound, from pianissimo to fortissimo.
4	Fixed	All notes are produced at the same volume no matter how hard the keyboard is played.

3 Play the keyboard.

The strength meter will light according to the strength with which you play the keyboard.

When playing softly: ■■■■■■■■

When playing at medium strength: ■■■■■■■■

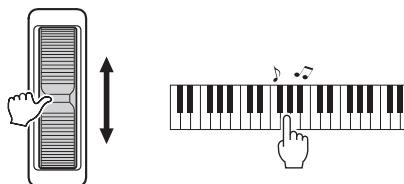
When playing strongly: ■■■■■■■■

[NOTE]

- When Touch Response is set to “Fixed,” the strength meter is fixed at medium strength.

Pitch Controls —the [PITCH BEND] Wheel

The [PITCH BEND] wheel can be used to add smooth pitch variations to notes you play on the keyboard. Roll the wheel upward to raise the pitch, or downward to lower the pitch.



You can change the amount of pitch bend produced by the wheel in the Function Settings (page 54, Function 003).

Applying Effects to the Sound

This instrument can apply various Effects to the instrument's sound (as described below).

● DSP

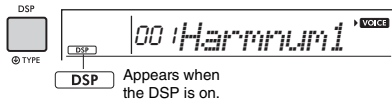
This effect applies digital signal processing to the Main Voice and Song part when a Voice or Song that includes the DSP setting is selected. The DSP effect can be turned on/off, and also features various Types (page 88) which can be selected via the following procedure.

- 1 Press the [DSP] button to turn on the DSP.

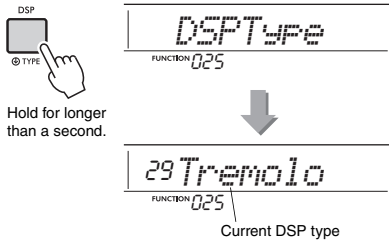
NOTE

- Among the Voices in the keyboard performance, the DSP effect is applied only to the Main Voice.
- The DSP cannot be turned on during lessons.

Although the DSP type (page 88) is automatically determined according to the current Main Voice, you can select another type.



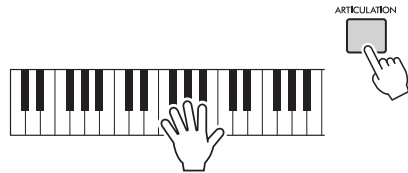
- 2 Hold down the [DSP] button for a while until the DSP-related indication appears.



- 3 Use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons to select the desired type.
- 4 Play the keyboard.
- 5 Press the [DSP] button again to turn off the DSP.

● Articulation

This effect reproduces the sounds of playing methods that are unique to specific instruments. To enjoy this effect, select one of the S.Art Lite Voices, indicated by “****” in the Voice List (page 70), and then play the keyboard while holding down the [ARTICULATION] button.



Examples of the Articulation effect

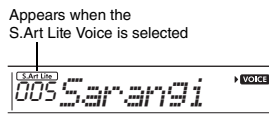
If you select the following voices, you can realistically reproduce the specific playing techniques below.

Example 1: Voice number 005 “S.Art Lite Sarangi”

When you play the keyboard while holding down the [ARTICULATION] button, the attack part sounds with the pitch bending up.

Example 2: Voice number 012 “S.Art Lite Santoor”

When you press the [ARTICULATION] button, tremolo sound is produced.



For Voices other than S.Art Lite Voices

Modulation or Portamento effects are suitably assigned according to the characteristics of each Voice. To use the Modulation effect, follow the same manner as with Articulation. To use the Portamento effect, follow the instructions below instead. For details on Portamento, refer to page 20.

- 1 To enable the Portamento effect, press the [ARTICULATION] button before you start playing the keyboard.
- 2 To disable the Portamento effect, press the [ARTICULATION] button again.

Adding the Articulation effect by using a pedal

If you assign the Articulation function to a pedal (foot switch) with “PdIFunc” (Function 031; page 56), you can apply the effect by pressing on the pedal.

NOTE

- The Articulation effect is applied only to the Main Voice.
- S.Art Lite Voices sound differently depending on the velocity, etc.

● Portamento

Portamento is a function that creates a smooth transition in pitch from the first note played on the keyboard to the next. Using this function effectively provides even greater expressive nuance to your performance. On this instrument, Portamento is available on the following Voices.

006	SlSrangi
007	Pungi
008	SlBansri
011	Sarod
016	IndBanjo
017	Mandolin
020	Flabab
154	Trombone
164	80sBrass
167	TechBras
168	SynBrass
171	SquareLd
172	Saw.Lead
174	UndrHeim
175	PortTone
176	Analogn1
177	Fargo 1
178	Analogn2
179	Fargo 2
181	Funky Ld
202	Timpani
214	Er Hu

To enable Portamento, press the [ARTICULATION] button when one of the Voices above is selected.

● Reverb

Adds room ambience of a club or concert hall to the sound. Although the best-suited Reverb type is called up by selecting a Song, Style and Riyaz, you can select another one via Function number 022 (page 55). You can also set the Reverb depth via Function number 023 (page 55).

● Chorus

Makes the Voice sound richer, warmer and more spacious. Although the best-suited Chorus type is called up by selecting a Song, Style and Riyaz, you can select another one via Function number 024 (page 55). You can also set the Chorus depth for Voices only for keyboard performance via Function numbers 008 (page 54), 012, 016 (page 55).

● Sustain

By turning on the Sustain parameter of Function number 026 (page 55), you can add a fixed, automatic sustain to the Main/Dual Voices played on the keyboard. Or, you can produce a natural sustain as desired with the footswitch (sold separately; page 14).

NOTE

- Even if you turn on Sustain, there are some Voices to which sustain is not applied.

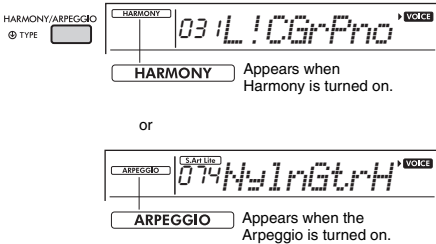
Adding Harmony or Arpeggio

You can add harmony or arpeggio notes to the Voice played on the keyboard.

By specifying the Harmony Type, you can apply harmony parts, such as duet or trio, or add tremolo or echo effects to the played sound of the Main Voice.

Also, when the Arpeggio Type is selected, arpeggios (broken chords) are automatically played back when you simply play the appropriate notes on the keyboard. For example, you could play the notes of a triad—the root, third, and fifth—and the Arpeggio function will automatically create a variety of interesting phrases. This feature can be used creatively in music production as well as performance.

1 Press the [HARMONY/ARPEGGIO] button to turn on the Harmony or Arpeggio function.

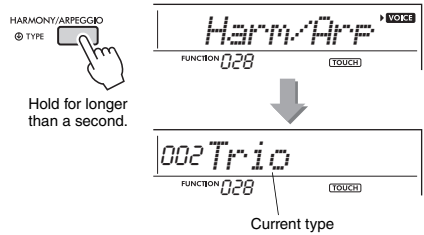


When Harmony or the Arpeggio is turned on, the most suitable type will be selected for the current Main Voice.

If you want to select a specific type, select it by operation steps 2 and 3 below.

2 Hold down the [HARMONY/ARPEGGIO] button for longer than a second until “Harm/Arp” (Functions 028; page 55) appears on the display.

After “Harm/Arp” is shown for a few seconds, the current type appears.



3 Use the number buttons [0]–[9], or [+ /YES] and [- /NO] buttons to select the desired type.

When you want to specify a Harmony Type, refer to the Harmony Type list on page 86; to specify an Arpeggio Type, refer to the Arpeggio Type list on page 87.

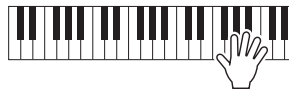
NOTE

- When playing one of the Arpeggio Types 143 to 188, select the corresponding Voice below as the Main Voice. 143–173: Select a Drum Kit (Voice No.260–270). 174 (China): Select “Chinese Kit” (Voice No.271). 175 (Indian): Select “Indian Kit 1” (Voice No.27) or “Indian Kit 2” (Voice No.28). 176 (Arabic): Select “Arabic Kit” (Voice No.275). 177–188: Select “Tabla Kit 1” (Voice No.25) or “Tabla Kit 2” (Voice No.26).

4 Press a note or notes on the keyboard to trigger the Harmony or Arpeggio.

When a Harmony Type is selected, a harmony part (for example, duet or trio) or an effect (for example, tremolo or echo) can be added to the played sound of the Main Voice.

When an Arpeggio Type is selected, arpeggios (broken chords) are automatically played back when you simply play the appropriate notes on the keyboard. The particular arpeggio phrase differs depending on the number of pressed notes and the area of the keyboard.



5 To turn the Harmony or Arpeggio off, press the [HARMONY/ARPEGGIO] button again.

How to play the various Types

For 01–05, the harmony notes are added to notes played with the Main Voice by turning the Auto Accompaniment on and playing the chord in the left-hand area. For 06–26, the corresponding effect is applied to notes played with the Main Voice whether Auto Accompaniment is on or off. For 27 and later, Arpeggio playback is applied to notes played according to the Split on/off status.

- Harmony Types 001 to 005



Press the right-hand keys while playing chords in the auto accompaniment range of the keyboard when Auto Accompaniment or Riyaz Lite are on (page 25).

- Harmony Types 006 to 012 (Trill)



Hold down two keys.

- Harmony Types 013 to 019 (Tremolo)



Keep holding down the keys.

- Harmony Types 020 to 026 (Echo)



Play the keys.

- Arpeggio Types 027 to 188

When Split is off:



Arpeggio function applies to both the Main Voice and Dual Voice.

When Split is on:



Arpeggio function applies only to the Split Voice.

NOTE

- Selecting a Voice number between 280 and 299 as the Main Voice will turn on Arpeggio and Split automatically.

To adjust the Harmony Volume:

Call up Function number 029 (page 55).

To adjust the Arpeggio Velocity:

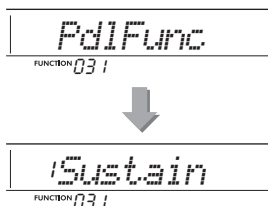
Call up Function number 030 (page 55).

Holding the Arpeggio Playback via the Footswitch (Hold)

You can set the instrument so that Arpeggio playback continues even after the note has been released, by pressing the footswitch connected to the [SUSTAIN] jack.

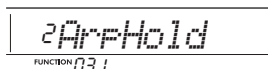
1 Press the [FUNCTION] button a number of times until the “PdIFunc” (Function 031; page 56) item appears on the display.

After “PdIFunc” is shown for a few seconds, the current setting is shown.



2 Use the number buttons [1]–[3], [+ / YES], [- / NO] buttons to select “ArpHold.”

If you want to restore the footswitch function to sustain, select “Sustain.” If you want to use both hold and sustain functions, select “Sus+ArpH.”



3 Try playing the keyboard with Arpeggio playback using the footswitch.

Even if you release the notes, Arpeggio playback will continue. To stop Arpeggio playback, release the footswitch.

Playing the keyboard with two persons (Duo mode)

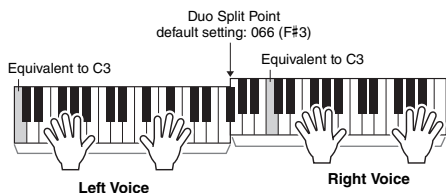
When the Duo mode is activated on this instrument, two different players can play the instrument simultaneously, with the same sound, over the same octave range—one person on the left and the other on the right. This is useful for learning applications, in which one person (a teacher, for example) plays a model performance and the other person watches and practices while sitting at the first person's side.

1 Press the [FUNCTION] button several times until “DuoMode” (Function 050; page 57) appears on the display.

2 Use the [+ / YES] button to select “on.”
The F#3 key becomes the Duo Split Point and the keyboard is divided into two sections: one for the left Voice and one for the right Voice.



DUO Appears when Duo is turned on.



NOTE

- The right Voice section and the left Voice section of the keyboard are both set to the same Voice (Main Voice).
- The Duo Split Point can be changed via Function number 052 (page 57).

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, select “off” via “DuoMode” (Function 050; page 57) by executing steps 1 and 2.

Changing the Left Voice

To change only the Left Voice, select the desired Left Voice with “DuoLVc” (Function 051; page 57). If the Left Voice is different from the Right Voice, the Right Voice is shown on the display.

NOTE

- Certain functions such as Lesson, Harmony/Arpeggio and Dual cannot be used in the Duo mode.

How sounds are output in the Duo mode

The performance sound of the left Voice will sound from the left speaker, and the performance sound of the right Voice will sound from the right speaker, in the initial Duo mode setting. This output setting can be changed from the “DuoType” setting (Function 057; page 57).

NOTE

- In the Duo mode, the pan, volume and tonal characteristics of the stereo sound may differ from those in the normal mode, due to the setting of DuoType = “Separate” (page 57). Particularly with Drum Kits, the difference may be more obvious, since each key of a Drum Kit features a different stereo pan position.

Using sustain in the Duo mode

Sustain can be applied to the left and right Voice sections in Duo mode just as it normally is by using one of the following methods in the Duo mode like the usual mode.

- Press the foot switch (page 14) connected to the [SUSTAIN] jack.
- Set “Sustain” (Function 026; page 55) to on. Sustain is applied to all notes.

NOTE

- Sustain cannot be applied independently to the left Voice section and the right Voice section.
- While Sustain is on, the setting of hold is maintained even when the power is turned off.

Playing Rhythm and Accompaniment (Style)

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

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

Fingering Type

When playing the Styles, specify how to play chords in the Auto Accompaniment range via “FingType” (“Fingering Type” Function 019; page 55). With this instrument, you can choose from two fingering types.

- **“SmartChord” (Default setting)**
You can play the Style by playing only the root note of a chord.
- **“Multi”**
This is a way to play the Style by playing all notes of a chord. However, major, minor, seventh, and minor sevenths can also be easily played by pressing one to three keys.

For information about chords, refer to “Chord Types for Style Playback” (page 27) or use the Chord Dictionary function (page 29).

Setting the Fingering Type

- 1 Press the [FUNCTION] button several times until “FingType” (Function 019; page 55) appears.

“FingType” is shown in the display for a few seconds, followed by the current Fingering Type.



- 2 Use the number buttons [0]-[9] or [+ / YES] and [- / NO] buttons to select “SmartChrd” or “Multi.”
- 3 Press the [STYLE/RIYAZ] button to exit from the Fingering Type settings.

Setting the Smart Chord Key

If “SmartChrd” is selected in the “FingType,” you need to set the keys of the Songs you want to play in advance. The specified key is called the Smart Chord Key.

- 1 Use the [FUNCTION] button until “S.ChdKey” (Function 020; page 55) appears.

The current Smart Chord Key appears.

- 2 Press the [+ / YES] and [- / NO] buttons to select the Smart Chord Key that matches the score.

For example, when you want to play the music score below, you need to set the Smart Chord Key to “FL2” (2 flats) (page 28).

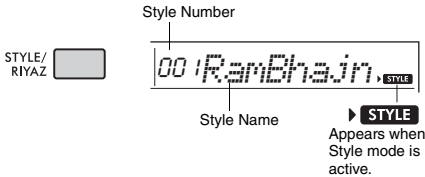


- 3 Press the [STYLE/RIYAZ] button to exit from the Smart Chord Key settings.

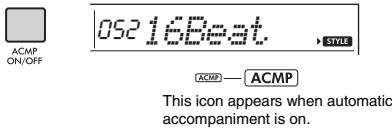
Playing Styles

- 1 Press the [STYLE/RIYAZ] button, and then use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons to select the desired Style.

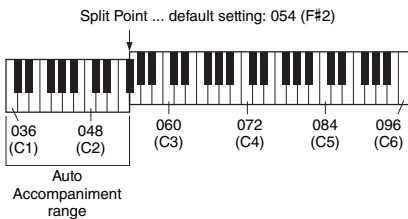
The Style List is provided on the front panel, or in the Style List (page 82).



- 2 Press the [ACMP ON/OFF] button to turn on the 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.



You can change the Split Point via Function number 004 (page 54) by holding down the [ACMP ON/OFF] button for longer than a second.

NOTE 1

- The strength meter (page 18) does not respond to playing in the Auto Accompaniment range.

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

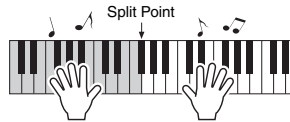
This puts the Style playback in “standby” and the Style starts playing back when you play the keyboard.



Flashes when sync start is on.

- 4 Play a key in the Auto Accompaniment range to start playback.

If “SmartChd” is selected, play the root note of a chord with your left hand. If “Multi” is selected, refer to page 27 for instructions on how to play. Play a melody with your right hand and chords with your left.



- 5 Press the [START/STOP] button to stop playback.



You can add intro, ending and rhythm variations to Style playback by using “Sections.” For details, refer to page 26.

To play back the rhythm part only

If you press the [START/STOP] button (without pressing the [ACMP ON/OFF] button in step 2), only the rhythm part can be played back, and you can play a melody performance using the entire keyboard range.

NOTE 1

- Since the Styles numbered 030, 216–224 have no rhythm parts, no sound will be produced if you start rhythm-only playback. When playing these Styles, make sure to carry out Steps 2–4 on this page.

Adjusting the Style Volume

To adjust the volume balance between Style playback and keyboard, you can adjust the Style Volume. This can be set via Function number 018 (page 55).

Style Variations

Each Style consists of “Sections” that allow you to vary the arrangement of the accompaniment to match the song you are playing.



● INTRO

This is used for the beginning of the Song. When the Intro finishes, Style playback shifts to the Main section. The length of the Intro (in measures) differs depending on the selected Style.

● MAIN

This is used for playing the main part of the Song. Playback of the Main section repeats indefinitely until another Section's button is pressed. There are two variations (A and B), and the Style playback sound changes harmonically in response on the chords you play with your left hand.

● AUTO FILL

This is automatically added before changing to Main A or B.

● ENDING

This is used for the ending of the Song. When the Ending finishes, the Style playback stops automatically. The length of the Ending (in measures) differs depending on the selected Style.

1-3

Same as Steps 1-3 in page 25.

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



5 Press the [INTRO/ENDING/rit.] button.

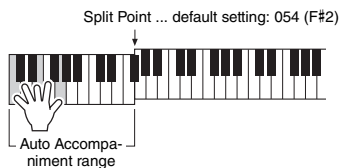


Now, you're ready to start Style playback from the Intro section.

6 Play a chord with your left hand to start playback of the Intro.

For example, play a C major chord.

For information on how to enter chords, refer to page 27.



7 After the Intro finishes, play the keyboard according to the progression of the Song you are playing.

Play chords with your left hand while playing melodies with your right hand and press the [MAIN/AUTO FILL] button as necessary. The Section will change to Fill-in, and then Main A or B.



8 Press the [INTRO/ENDING/rit.] button.



The Section switches to the Ending. When the Ending is finished, Style playback stops automatically. You can have the Ending gradually slow down (ritardando) by pressing the [INTRO/ENDING/rit.] button again while the Ending is playing back.

Chord Types for Style Playback

For users who are new to chords, this chart conveniently shows how to play common chords in the Auto Accompaniment range of the keyboard. Since there are many useful chords and many different ways to use them musically, refer to commercially available chord books for further details.

When Multi is selected, play the notes that make up the chord in the automatic accompaniment range. When Smart Chord is selected, play the root note "★" in the automatic accompaniment range.

★ indicates the root note.

Major	Minor	Seventh	Minor Seventh	Major Seventh
C 	Cm 	C7 	Cm7 	CM7
D 	Dm 	D7 	Dm7 	DM7
E 	Em 	E7 	Em7 	EM7
F 	Fm 	F7 	Fm7 	FM7
G 	Gm 	G7 	Gm7 	GM7
A 	Am 	A7 	Am7 	AM7
B 	Bm 	B7 	Bm7 	BM7

- Inversions can be used as well as in "root" position—with the following exceptions:
m7, m7♯5, m7(11), 6, m6, sus4, aug, dim7, 7♯5, 6(9), sus2
- Inversions of 7sus4 chords are not recognized if any constituent notes are omitted.
- When playing a chord which cannot be recognized by this instrument, nothing is shown on the display. In such a case, only a specific part, such as the rhythm, will be played.

When "Multi" is selected, major, minor, seventh, and minor seventh chords can also be easily played by pressing one to three keys.

Easy Chords for root "C"



To play a major triad
Press the root note (★) of the chord.



To play a minor triad
Press the root note together with the nearest black key to the left of it.



To play a seventh chord
Press the root note together with the nearest white key to the left of it.



To play a minor seventh chord
Press the root note together with the nearest white and black keys to the left of it (three keys altogether).

Chords Heard When Smart Chord is Selected

When you select Smart Chord and set the Smart Chord Key based on the composition of the score (page 24), play just the root note in the automatic accompaniment range. Even if you don't have knowledge of music theory, this lets you play the chords below and easily create useful, musical chord progressions for the Smart Chord Key.

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 refers to chords whose 3rd note is omitted and can adapt to both use cases in relative keys, which share the same key signature between a major key and a minor key.

Looking Up Chords Using the Chord Dictionary

The Dictionary function is useful when you know the name of a certain chord and want to quickly learn how to play it.

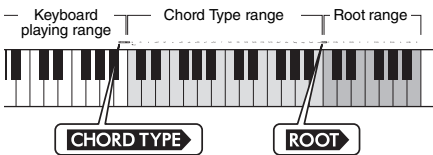
1 Press and hold the [1 LISTENING 2 TIMING 3 WAITING] button for longer than a second to call up “Dict.”

“Dict.” will appear in the display.



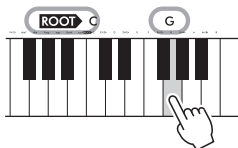
This operation will divide the entire keyboard into the three ranges as illustrated below.

- The range to the right of “ROOT”: Lets you specify the Chord Root, but produces no sound.
- The range between “CHORD TYPE” and “ROOT”: Lets you specify the Chord Type, but produces no sound.
- The range to the left of “CHORD TYPE”: Lets you play and confirm the Chord specified in the above two ranges.

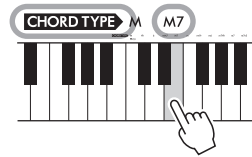


2 As an example, learn how to play a GM7 (GMaj7) chord.

- 2-1. Press the “G” key in the section to the right of “ROOT” so that the “G” is shown as the root note.



- 2-2. Press the key labeled “M7” in the section between “CHORD TYPE” and “ROOT.” The notes you should play for the specified chord are shown in the keyboard display.



Chord name (root and type)



Individual notes of chord (keyboard)

- To call up possible inversions of the chord, press the [+ / YES] / [- / NO] buttons.

NOTE

- About major chords: As is common in music theory, major triads are indicated only with the pitch names of each chord root. However, when specifying major chords here, make sure to select “M” (major) after pressing the root note.
- These chords are not shown in the Chord Dictionary function: 6(9), M7(9), M7(#11), ♭5, M7♭5, M7aug, m7(11), mM7(9), mM7♭5, 7♭5, sus2

3 Following the notation and keyboard diagram in the display, try playing a chord in the range to the left of “CHORD TYPE.”

When you’ve played the chord properly, a bell sound signals your success and the chord name in the display flashes.

4 To exit from the Chord Dictionary mode, press one of these buttons; [VOICE], [SONG] or [STYLE/RIYAZ].

Using the Music Database

If you have difficulty finding and selecting the desired Style and Voice, use this feature. From the Music Database, just selecting the favorite music genre calls up the ideal settings.

1 Press the [MUSIC DATABASE] button.

Both Auto Accompaniment and Synchro Start are automatically turned on.



2 Use the number buttons [0]–[9], or [+ / YES] and [- / NO] buttons to select the desired Music Database.

This operation calls up the panel settings (such as Voice and Style) that are registered to the selected Music Database. The category name of Music Database List is provided on the front panel, or in the Music Database List (page 84).

3 Play the keyboard as described in Steps 4–5 on page 25.

Registering a Style File

Style data created on another instrument or computer can be registered (loaded) to Style numbers 225–234, and you can play them just the same as the internal preset Styles.

1 Transfer the Style file (***.STY) from a computer to this instrument by connecting this instrument to a computer.

For instructions, refer to “Computer-related Operations” (page 8) on the website.

2 Press the [FUNCTION] button several times until “StyleReg” (Function 059; page 57) appears.



After about two seconds, a registerable Style file name will appear in the display.

3 If necessary, select the desired Style by using the [+ / YES] or [- / NO] button.

4 Press the [0] button.

As the Load destination, “***LoadTo?” (***: 225–234) appears on the display. If desired, select a different number using the [+ / YES] or [- / NO] button.

5 Press the [0] button.

A confirmation message will appear. To cancel the operation, press the [- / NO] button.

6 Press the [+ / YES] button to actually load the file.

After a while, a message indicating completion of the operation appears.

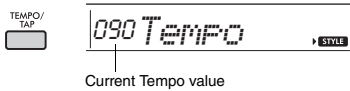
NOTICE

- The load operation cannot be cancelled during execution. Never turn off the power during the operation. Doing so may result in data loss.

7 Press the [STYLE/RIYAZ] button, use the [+ / YES] or [- / NO] button to select a Style from 225–234, and then try playing it back.

Changing the Tempo

Press the [TEMPO/TAP] button to call up the Tempo value, and then use the number buttons, [-/NO] and [+ /YES] buttons to adjust the Tempo value.



Press the [+ /YES] and [- /NO] buttons simultaneously to reset the value to the default tempo of the current Style or Song.

Using the Tap function

While a Song, Style or Riyaz is playing back, press the [TEMPO/TAP] button just twice at the desired tempo to change the tempo. While Song or Style playback is stopped, tap the [TEMPO/TAP] button several times to start playback at the tapped tempo—four times for a 4-beat Song or Style or three times for a 3-beat Song or Style.



Playing with Riyaz Lite

This instrument provides 15 phrase patterns (consisting of several measures) using authentic Tabla/Mridangam and Tanpura sounds with looped playback. By using the Riyaz Lite function, try out conventional Indian music with the flexibility of changing keys.

- 1 While Style mode is active, press the [STYLE/RIYAZ] button. Then, use the number buttons [0]–[9] or [+ / YES] and [- / NO] buttons to select the desired Riyaz pattern.

For the Riyaz List, see the front panel or page 83.

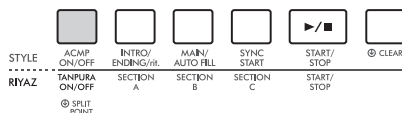


- 2 Press the [START/STOP] button to start looped playback.

At first, only the Tabla sound plays back. During playback, enjoy creating sound variations via the following operations.

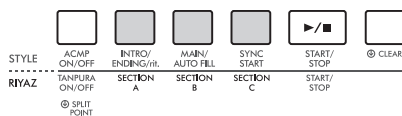


Adding a Tanpura phrase



Press the [TANPURA ON/OFF] button to add the Tanpura shared among all Riyaz patterns. To turn off the Tanpura sound, press the [TANPURA ON/OFF] button again.

Changing the Section



To change the Section, press the [SECTION A], [SECTION B], and/or [SECTION C] buttons.

Transposing playback

To transpose the playback key, play the tonic note of the key (the first note of the key scale) in the Auto Accompaniment range.

- 3 Press the [START/STOP] button to stop playback.



NOTE

- The Riyaz performance cannot be recorded.

Playing Songs

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

● Song Category

The Songs are organized by category as listed below.

SONG

- 001 - DEMO
 - 004 - RAGA SCALE
 - 014 - LEARN TO PLAY
 - 030 - FAVORITE
 - 061 - FAVORITE WITH STYLE
 - 081 - INSTRUMENT MASTER
 - 090 - PIANO REPERTOIRE
 - 113 - TOUCH TUTOR
 - 123 - CHORD STUDY
 - 135 - CHORD PROGRESSION
 - 165 - USER SONG
 - 170 - FLASH MEMORY
- These demonstration songs showcase the various sounds of the instrument.
 - Practice Songs for studying the traditional scale of India.
 - Each of these songs has two variations: an easy one which even beginners can practice with ease, and another more challenging version.
 - We've collected various folk songs from around the world which have been handed down from through the generations, as well as famous classical pieces. Try playing the melodies of these songs.
 - Enjoy performing a piece with Style accompaniment (automatic accompaniment data). (Keys to Success is designed so that you master playing the melody with your right hand first, and then learn the roots of the chords with your left hand.)
 - These songs feature solo instruments other than piano—letting you enjoy playing other instrumental voices along with orchestral accompaniment.
 - These include famous pieces from around the world along with well-known piano pieces. Enjoy the beautiful, resonant piano sound as you play solo or along with orchestral backing.
 - Learn how to use expressive "touch" control while playing the keyboard according to the strength level displayed in the LCD.
 - Hear and experience the sound of chords and easy chord progressions while playing the keyboard according to the LCD display indications.
 - Learn how to play chords with Songs featuring simple, fundamental chord progressions.
 - Songs (User Songs) you record yourself.
 - Songs transferred from a computer (refer to "Computer-related Operations," page 8).

Listening to a Demo Song

Press the [DEMO] button to play the Demo Songs in sequence.



When the Demo Songs (Song numbers 001 to 003) are played back in sequence and the last Song (003) is finished, playback will repeat continuously, starting again from the first Song (001).

To stop playback, press the [DEMO] button or the [START/STOP] button.

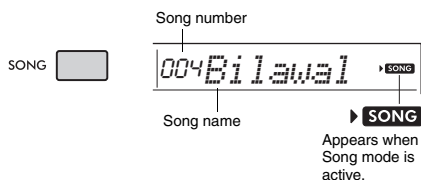
NOTE

- You can select the next or previous Song in order by using the [+YES]/[-NO] buttons after pressing the [DEMO] button. The selection range is all Songs in the selected Demo Group (Function 060; page 57). For details on Demo Group, see page 34.

Selecting and Playing Back a Song

- 1 Press the [SONG] button, and then use the Number buttons to select the desired Song.

Refer to the Song List (page 81).



- 2 Press the [START/STOP] button to start playback.

To stop playback, press the [START/STOP] button again.



To change the tempo:

Refer to "Changing the Tempo" on page 31.

Adjusting the Song Volume

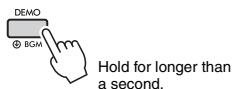
To adjust the volume balance between Song playback and the keyboard, adjust the Song Volume. This can be set via Function number 017 (page 55).

BGM Playback

With the default setting, pressing the [DEMO] button repeatedly will play back just the three internal Demo Songs. This setting can be changed so that, for example, all internal Songs automatically play back, letting you use the instrument as a background music source.

1 Hold down the [DEMO] button for longer than a second.

“DemoGrp” (Function 060; page 57) is shown in the display for a few seconds, followed by the current repeat playback target.



2 Use the [+ / YES] or [- / NO] button to select a playback group.

Demo	Preset songs (001–003)
Preset	All preset songs (001–112)
User	All User songs (165–169)
Download	All songs transferred from a computer (170–)

NOTE

- When User songs and Download songs data do not exist, Demo songs are played back.

3 Press the [DEMO] button to start playback.

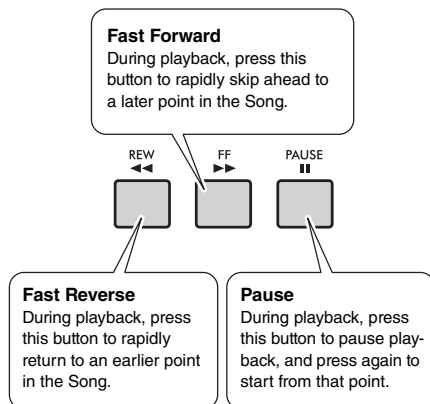
To stop playback, press the [DEMO] button again or press the [START/STOP] button.

Random Song Playback

When the Demo Group (above) is set to something other than “Demo,” the playback order via the [DEMO] button can be changed between numerical order and random order. To do this, press the [FUNCTION] button several times until “PlayMode” (Function 061; page 57) is called up, and then select “Normal” or “Random.”

Song Fast Forward, Fast Reverse, and Pause

Like the transport controls on an audio player, this instrument lets you fast forward (FF), rewind (REW) and pause (PAUSE) playback of the Song.



NOTE

- When the A-B repeat (page 35) is specified, the Fast Reverse and Fast Forward will only work within the range between A and B.
- [REW], [FF] and [PAUSE] button cannot be used during Song playback by using the [DEMO] button.

Changing the Melody Voice

You can change a Song's melody Voice to any other desired Voice.

- 1 Select a Song.
- 2 Select the desired Voice.
- 3 Press and hold the [VOICE] button for longer than a second.

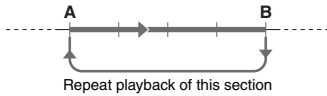
“SONG MELODY VOICE” appears in the display for a few seconds, and the selected Voice replaces the Song's original melody Voice.

NOTE

- Selecting another Song will cancel the changed Melody Voice.
- You cannot change the melody Voice of a User Song.

A-B Repeat

You can repeatedly play back just one specific section of a Song by setting the A point (start point) and B point (end point) in one-measure increments.



- 1 Start playback of the Song (page 33).
- 2 When playback reaches to the point you want to specify as the start point, press the [A-B REPEAT] button to set the A point.



- 3 When playback reaches to the point you want to specify as the end point, press the [A-B REPEAT] button again to set the B point.
The specified A-B section of the song will now play repeatedly.

NOTE 1

- You can also set the A-B Repeat function when the Song is stopped. Simply use the [REW] and [FF] buttons to select the desired measures, pressing the [A-B REPEAT] button for each point, and then start playback.
- If you want to set the start point "A" at the top of the Song, press the [A-B REPEAT] button before starting playback.

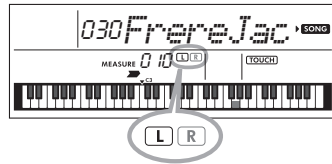
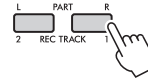
- 4 To cancel repeat playback, press the [A-B REPEAT] button.
To stop playback, press the [START/STOP] button.

NOTE 2

- The A-B Repeat function will be canceled when you select another Song.

Turning Each Part On/Off

As indicated above the panel buttons (shown below), Songs other than Song numbers 135 to 164 consist of two Parts, which can be turned on or off individually by pressing the corresponding button, L or R.



- When a User Song (number 165-169; page 45) is selected
The L and R indicators light when the tracks contain data, and are unlit when a track is muted or contains no data.

- When songs other than a User Song is selected
The L and R indicators always light regardless of whether a track contains data or not.

By turning the left- and right-hand parts on or off during playback, you can listen to the Part (that is turned on), or practice the other part (that is turned off) on the keyboard.

NOTE 3

- Selecting another Song will cancel the on/off status of the Parts.

Playing Songs Loaded From a Computer

By using a USB cable to connect the [USB TO HOST] terminal of this instrument to a computer, you can load song files from the computer. For details, refer to the "Using with a Computer or Smart Device" on page 52.

Using the Song Lesson Feature

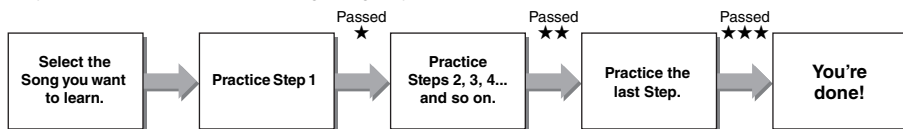
Use these convenient features to practice the preset Songs and improve your playing skills. The lessons are arranged for optimum, enjoyable learning, so select the one suitable for you, and take your keyboard skills higher, step by step.

You can refer to the music score in the Song Book (free downloadable scores). To obtain the SONG BOOK, access the Yamaha website and download it from the product web page.
<https://www.yamaha.com>

Keys To Success

(Page 37)

You can select just the key phrases of the Song—the ones you like most or need to work on—and practice them one by one. This lesson is ideal for beginning players.



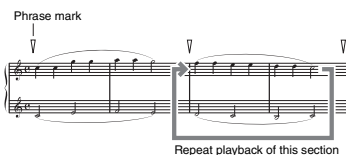
Each Song consists of several Steps. Each time you play all the way through the current Step, your performance will be evaluated. A score of “60” or more indicates that you passed this Step and you should try the next Step, which begins automatically.

The passing status ★ is saved, but you can go on to the next Step even when you didn’t pass the Step, or you can retry the Step later.

Phrase Repeat

(Page 39)

You can practice two or more phrases at once repeatedly by specifying them, as desired. This is ideal as a finishing practice before you try a last (finishing) Step to pass in the Keys to Success mode, or when you just want to practice the difficult phrase(s) repeatedly.

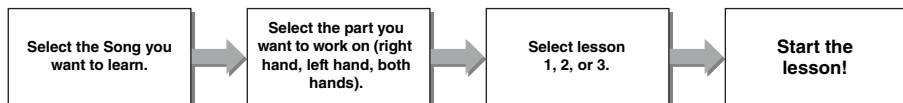


Listening, Timing and Waiting

(Page 40)

You can practice the preset Songs in three steps, independently for the right or left hand, or both hands together. This is ideal when you want to practice all the way through the Song with the selected part.

- **Lesson 1 (Listening)** Listen to the playback part you will play. Remember it as best as you can.
- **Lesson 2 (Timing)** Learn to play the notes with the correct timing. Even if you play wrong notes, the correct notes will sound.
- **Lesson 3 (Waiting)** Learn to play the correct notes. The Song pauses until you play the right note.



You can combine the Keys to Success lesson (page 37) with the Listening, Timing or Waiting lesson (page 40). If you feel it difficult to play the specific phrase in the Keys to Success lesson, use the Listening, Timing or Waiting lesson to listen to the phrase, to practice only the timing to play, or to let the phrase pause until you play the correct notes.

The passing status is not shown when the selected lesson playback starts in the Keys to Success mode.

In addition, various learning functions are provided for your enjoyable playing experience as follows:

- **Touch Tutor (page 42)**

Lets you learn how hard or soft to play the keys for more expressive performances.

- **Chord Study (page 43)**

Lets you hear and experience the sound of the chords to use styles efficiently.

- **Chord Progressions (page 44)**

Lets you hear and experience standard chord progressions. Mastering the typical chord progressions in specific musical genres enables you to play a wider variety of songs with the Style function.

Keys To Success

In this lesson, you can practice individual phrases in the Song (with each Step) to effectively master the entire Song.

1 Obtain the Song Book.

Download the Song Book from the Yamaha website (page 8), or you can refer to the scores of some Songs at the end of this manual.

The amount of Steps and lesson parts (which are pre-programmed) will differ depending on the Song. For details, refer to the Song Book.

NOTE

- All preset Songs 014 to 112 other than 001–003 and 113–164 can be used with this mode, especially the “LEARN TO PLAY” category Songs.

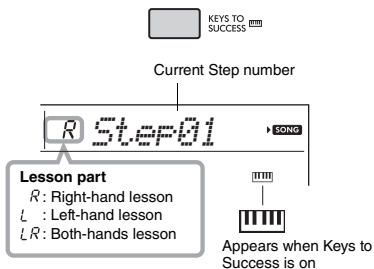
2 Press the [SONG] button, and then select a Song for your lesson.

Here, select song “Für Elise (Basic)” from the “LEARN TO PLAY” category, and then go to the corresponding page of the Song Book.



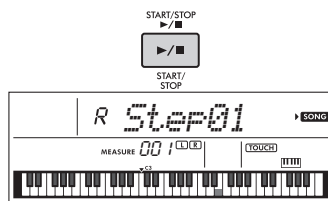
3 Press the [KEYS TO SUCCESS] button to engage this lesson.

The keyboard icon, “Step01” and lesson part (“R” or “L” or “LR”) appears on the display, indicating that you are to start this lesson from scratch. If you have already passed several Steps, the next Step number appears on the display.



4 Press the [START/STOP] button to start Lesson.

After a lead-in, playback of the current Step starts.



NOTE

- For your practice enjoyment, a special arrangement is applied to each Song. This is why playback tempo may be slower than original.

5 Practice the phrase in the current Step.

Referring to the notation in the Song Book and the keyboard indications shown on the display, play the notes.

6 Confirm the evaluation in the current Step.

When the current Step reaches the end, your performance will be evaluated and your score (from 0–100) is shown in the display.



★
Displayed when you've passed the Step.

A score between “0”–“59” indicates that you did not pass this Step and you should try the same Step again, which begins automatically. A score of “60”–“100” indicates that you passed this Step and you should try the next Step, which begins automatically.

NOTE

- If the specified part is both hands, you cannot pass the Step until you play both hands, even if you play one of the hands well. Only a message such as “Left Part is correct!” appears in the display.

7 Execute Step 02, 03, 04, and so on.

In the last Step of each Song, you will practice all the way through the Song. When you pass all Steps, the Keys to Success mode will automatically be turned off and playback stops.

NOTE

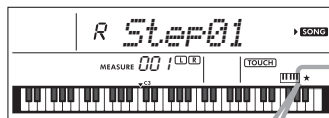
- Even during a Lesson, you can select another Step by using the [+YES]/[-NO] buttons.

8 To stop this Lesson, press the [KEYS TO SUCCESS] button.

Confirming the Passing Status

You can confirm the passing status of each Song simply by selecting a Song and each Step.

● When Step is selected



★ : Passed
No information: Not yet passed

● When Song is selected



- ★ : There are one or more Steps not yet passed in addition to the last Step
- ★ ★ : Only last Step passed
- ★ ★ ★ : All Steps passed other than last Step
- ★ ★ ★ ★ : All Steps passed

Clearing the Passing Status

You can clear existing passing status entries for the entire Song or a specific Step of the Song.

● To clear the passing status entries of all Steps:

Select the desired Song, and then hold down the [KEYS TO SUCCESS] button for longer than three seconds, with the Keys to Success mode disabled. A “Cleared” message will appear on the display.

● To clear the passing status entry for a specific Step:

Select the desired Song, enable Keys to Success, select the desired Step, and then hold down the [KEYS TO SUCCESS] button for longer than three seconds. A “Cleared” message will appear on the display.

NOTE

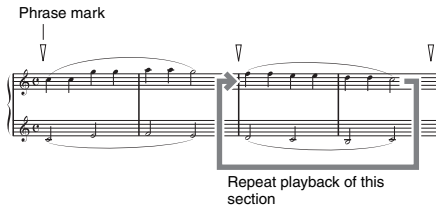
- This operation cannot be executed during playback.

Phrase Repeat

You can practice a difficult phrase repeatedly by selecting a specific number of the Phrase Marks pre-programmed in the Preset Songs (excepting the Song numbers 001–003, 113–164). You can confirm the Phrase Mark location in the Song Book (page 8).

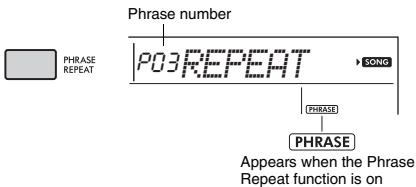
NOTE

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



Practicing only a single Phrase

During Song playback, press the [PHRASE REPEAT] button at the phrase you want to practice. The corresponding Phrase number will appear in the display and, after a lead-in, repeat playback will start. Turn off the L or R part (page 35), and then practice the phrase which is turned off repeatedly until you are satisfied.



Even during repeat playback, you can select any other phrase number via the [+ / YES] or [- / NO] button, and you can return to normal playback by pressing the [PHRASE REPEAT] button again.

Practicing two or more Phrases

By setting Phrase A (as the start point) and Phrase B (as the end point), you can practice two or more Phrases repeatedly. During Phrase Repeat playback, press the [A-B REPEAT] button to assign the current Phrase to Phrase A. When playback reaches to the desired Phrase, press the [A-B REPEAT] button again to assign Phrase B. "A-B Rep" appears on the display, and Repeat playback between Phrases A and B starts. To cancel this setting, press the [A-B REPEAT] button again.

NOTE

- You can set Phrases A and B also when playback is stopped by selecting the Phrase number via the [+ / YES] and [- / NO] buttons.
- Specifying only Point A results in repeat playback between Point A and the end of the Song.

Listening, Timing and Waiting

● Lesson 1—Listening

In this Lesson, you need not play the keyboard. The model melody/chords of the part you selected will sound. Listen to it carefully and remember it well.

● Lesson 2—Timing

In this Lesson, simply concentrate on playing the notes with the correct timing. Even if you play wrong notes, the correct notes shown in the display will sound.

● Lesson 3—Waiting

In this Lesson, try playing the correct notes shown on the display. The Song pauses until you play the right note, and playback tempo will change to match the speed at which you are playing at.

NOTE

- If you want to keep a steady playback tempo maintained during Lesson 3: Waiting, set the Your Tempo parameter to OFF via the Function number 037 (page 56).

1 Press the [SONG] button then select a Song for your lesson.

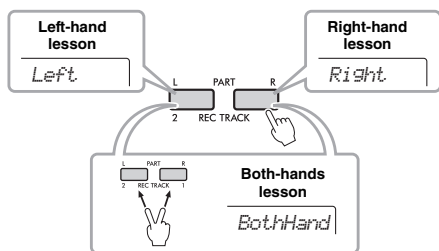
NOTE

- The Song Lesson can be applied also to the Songs transferred from a computer (page 52), but cannot be applied to the User Songs.

NOTE

- Songs 135 to 164 are not compatible with the Listening, Timing and Waiting Lessons.

2 Press either or both the [R] and [L] buttons to select the part you want to practice.



NOTE

- In this step, "NoLPart" may appear, indicating that the current Song does not contain a left-hand part.

3 Press the [1 LISTENING 2 TIMING 3 WAITING] button to start playback of the Song Lesson.

Pressing this button repeatedly will change the Lesson number from 1: LISTENING → 2: TIMING → 3: WAITING → off → 1.... Press this button until the desired number is shown on the display.

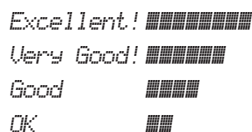


NOTE

- During playback, you can change the Lesson mode by pressing this button, and you can stop the Lesson at any time by pressing the [START/STOP] button.
- When you play the Lesson song, the Main Voice changes to "000" (One Touch Lesson page 16).

4 When Lesson playback reaches to the end, check your evaluation Grade on the display.

"2 Timing" and "3 Waiting" will evaluate your performance in four levels.



After the evaluation display has appeared, the Lesson will start again from the beginning.

NOTE

- When the melody Voice of the Song is changed, the key position shown in the display may be shifted (in octave units), depending on the selected Voice.

NOTE

- The Dual or Split mode cannot be engaged during a Lesson.

5 Stop the Lesson mode.

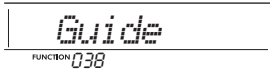
You can stop the Lesson mode at any time by pressing the [START/STOP] button.

Turning the Guide notes off

When the “Guide” function is on, you can hear Guide notes while you are practicing with Lesson 3 (Waiting), and this is ideal when you are not sure of which keys to play next. The Guide note will sound slightly behind the timing to indicate the correct note, when you fail to play the correct note with the correct timing, the Guide note will not sound and the playback continues.

If you don't want to hear the Guide notes, turn the function off in the following steps.

- 1 Press the [FUNCTION] button several times until “Guide” (Function 038; page 56) appears.



- 2 Use the [+ / YES] and [- / NO] buttons to select the value “oFF.”

The default value of this function is “on” (Guide note will sound.)

NOTE

- The Guide setting cannot be changed during the Lesson mode.

The Guide function can be used for all preset Songs, except Songs in categories “FAVORITE WITH STYLE” (left-hand part) and “CHORD PROGRESSION,” and No.89.

Keys to Success with Listening, Timing or Waiting

You can combine the Keys to Success Lesson (page 37) with the Listening, Timing or Waiting Lesson (page 40).

- 1 **Enable the Keys to Success Lesson.**
Refer to Steps 1–3 on page 37.
- 2 **Select the desired Step via the [+ / YES] / [- / NO] buttons, then press the [1 LISTENING 2 TIMING 3 WAITING] button repeatedly to select the desired Lesson.**
The selected lesson playback starts in the Keys to Success mode. Practice the phrase of the current Step with the selected Lesson. As evaluation for each Step, just “Timing is correct!” or “Your playing is correct!” appears, and the passing status is not available.
- 3 **To return to only the Keys to Success mode, press the [1 LISTENING 2 TIMING 3 WAITING] button repeatedly until “StepXX” (XX: number) appears in the display.**
- 4 **To exit from the Lesson mode, press the [KEYS TO SUCCESS] button.**

Phrase Repeat with Listening, Timing or Waiting

With Phrase Repeat set to On, press the [1 LISTENING 2 TIMING 3 WAITING] button once, twice or three times to start and use Lesson playback with Phrase Repeat. Pressing the same button again several times to exit from the Lesson mode stops playback and allows use of just the Phrase Repeat mode.

NOTE

- In this status, the evaluation function is not available.

Learning How to Use “Touch” Control (Touch Tutor)

This learning feature lets you practice how hard or soft to play the keys for musical expression, referred to as “Touch” in this chapter, by playing back Song numbers 113 to 122 (in the “Touch Tutor” category). Playing back Songs from this category shows indications for the appropriate playing strength. Try playing according to the level displayed in the LCD as the Song progresses.

NOTE

- Be sure to set the Touch Response parameter (page 18) to a value other than “Fixed.” When set to “Fixed,” the Touch Tutor function is inactive.

1 Select a Song from Song numbers 113 to 122 in the “Touch Tutor” category by executing Step 1 in “Selecting and Playing Back a Song” on page 33.

To play with the same Voice that is used in a performance data, select Voice number “000” (OTS; page 16). After this operation, make sure to go back to the Touch Tutor display by pressing the [SONG] button.



2 Press the [START/STOP] button to play back the selected Song.

3 When the following display appears, play the keyboard along with the keyboard indications shown in the display at the strength level displayed in the LCD. Play while watching the strength level.

Strength level (Target value)

TOUCH █ █ █ █ █ █ █ █ : Soft

TOUCH █ █ █ █ █ █ █ █ : Medium

TOUCH █ █ █ █ █ █ █ █ : Hard

The notes to play are indicated in the graphic keyboard in the display.

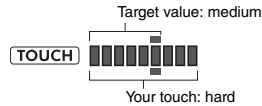
Strength targets are indicated by “█”. Your actual playing “Touch” is indicated by “█”. Try playing so that the indications below appear (as target values) while you play.



The positions of “█” and “█” are displayed with a gap when your touch is softer or harder than the target value.

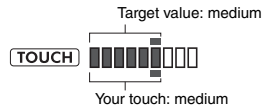
Your touch is harder than the target value

(Target value: medium; your touch: hard)



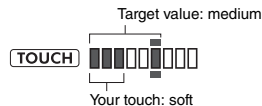
Your touch is same as the target value

(Target value: medium; your touch: medium)



Your touch is softer than the target value

(Target value: medium; your touch: soft)



When the playing is accurate, the instrument evaluates the accuracy of the touch (velocity) and indicates the following evaluation results on the display. If you continue to play the keys accurately, your grade will gradually increase. If you continue to play the keys inaccurately, your grade will gradually decrease.

Great! > Very Good > Good > OK

4 To stop playback, press the [START/STOP] button.

To exit from the Touch Tutor mode, select a Song from any other category, except “Touch Tutor.”

NOTE

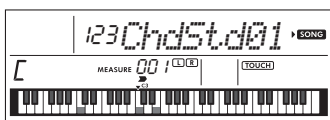
- This function cannot be used with Keys To Success.

Hearing and Experiencing the Sound of the Chords (Chord Study)

You can hear and experience the sound of the chords used in a typical performance by playing back Song numbers 123 to 134 (in the “Chord Study” category). Song numbers 123 to 129 are very simple songs consisting of a single chord (C, Dm, Em, F, G, Am, Bm; respectively) played in various positions, letting you listen to and master the chords one by one. On the other hand, Song numbers 130 to 134 consist of several chords strung together in a pattern, for experiencing and understanding basic chord progressions. Hear and experience the sound of simple chords and progressions by playing back these Songs, and play the keyboard while following along with the keyboard indications shown in the display.

Hear and Experience a Sound of a Single Chord

- 1 Select a Song from Song numbers 123 to 129 in the “CHORD STUDY” category by executing Step 1 in “Selecting and Playing Back a Song” on page 33.
- 2 Press the [START/STOP] button to play back the selected Song.
- 3 Play the keyboard while looking at the keyboard indications shown on the display.



If you feel it difficult to play the notes, use the Waiting function (page 40) to have the Song automatically pause until you play the correct notes. Press the [1 LISTENING 2 TIMING 3 WAITING] button repeatedly until “WAITING” appears in the display. To exit from the Waiting function, press the same button again.

- 4 To stop playback, press the [START/STOP] button.

Hear and Experience Basic Chord Progressions

- 1 Select a Song from Song numbers 130 to 134 by pressing the [+ / YES] / [- / NO] buttons.
- 2 Press the [START/STOP] button to play back the selected Song.
- 3 Play the keyboard while looking at the keyboard indications shown on the display.

Listen to the basic chord progression, and play along with the Song repeatedly until you can smoothly perform and play along with the chord changes.

If you feel it difficult to play the notes, use the Waiting function (page 40) to have the Song automatically pause until you play the correct notes. Press the [1 LISTENING 2 TIMING 3 WAITING] button repeatedly until “WAITING” appears in the display. To exit from the Waiting function, press the same button again.

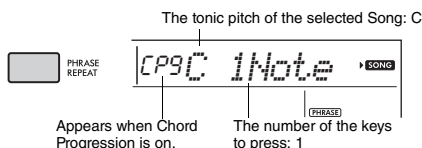
- 4 To stop playback, press the [START/STOP] button.

Playing Chords Along with Chord Progressions of a Song

Song numbers 135 to 164 in the “Chord Progression” category are constructed from typical chord progressions. You can listen to and get a feel for the chord progressions by playing back the Song and playing the keyboard while looking at the keyboard indications shown on the display. The number of keys that are indicated for you to play progress in sequence—from a single root note, to two notes, then three and four—getting you to gradually and naturally memorize the chords. Also, you can change the key of the Song, allowing you to practice the progressions in all keys for full mastery of the chords.

1 Select a Song from Song numbers 135 to 164 in the “Chord Progression” category by executing Step 1 in “Selecting and Playing Back a Song” on page 33.

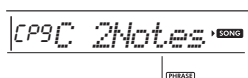
2 Press the [PHRASE REPEAT] button. After “CHORD PROGRESSION” scrolls across the display, the tonic pitch of the selected Song and the number of the keys to be pressed are shown.



NOTE

- The initial key setting is the key of C major or minor.

3 Press the [+ / YES] / [- / NO] buttons to select the number of the keys to be played. Each time the [+ / YES] button is pressed, the number of the keys to press is increased from just one root note (1Note) to two notes (2Notes), three notes (3Notes) and four notes (All).

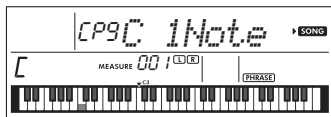


NOTE

- The number of the keys to press can also be set by using the number buttons [1]–[4].

4 Press the [START/STOP] button to play back the selected Song.

5 Play the keyboard while looking at the keyboard indications shown on the display.



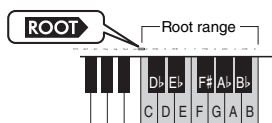
NOTE

- When you play the keyboard within the range of C5–B5, the notes will not sound.

6 Press the [PHRASE REPEAT] button again to turn the Chord Progression function off.

To change the key of a Song:

When Chord Progression is on, press one of the keys in the top octave (C5–B5; indicated to the right of “ROOT” on the panel, just above the keys) to change the tonic pitch of the Song.



For example, if you press the D5 key for a Song in the key of C major, the key changes to D major.

NOTE

- The key of a Song cannot be changed during playback.

The number of the keys to be played

- Only one root note (1Note)**
 Press only the root note of the chord.
- Two notes (2Notes)**
 Press the 3rd note with the root note, and become familiar with the difference between major chords and minor chords.
- Three notes (3Notes)**
 Press the 5th note with the root note and the 3rd note.
- Four notes (All)**
 Press all the notes that make up the chord. Very often, chords are played with just three notes; however, another interval (such as a 7th) is sometimes added. Keep in mind how many notes constitute the chord depends on its chord quality.

Playing Chords in Combination with “Waiting” of the Lesson Function

You can practice the playing the chords in combination with “Waiting” (page 40) of the Lesson function by simply pressing the [1 LISTENING 2 TIMING 3 WAITING] button once.

NOTE

- Even if you play notes in octaves outside of the notes shown on the display (excluding the range of C5–B5, which are used to change the key of a Song), as well as different inversions of the chords, the playback will progress.

Recording Your Performance

You can record up to five of your performances as User Songs (User 1–5: Song numbers 165–169). The recorded User Songs can be played back on the instrument. The recorded User Song can be played back in the same way as the preset Songs.

Track Structure of a Song

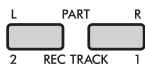
You can record your performance to the following two tracks of a User Song individually or simultaneously.

● Track 1:

Your melody performance is recorded to this track.

● Track 2:

Your melody performance, or Style playback (Chord changes and Section changes), is recorded to this track.



● Recording Data Capacity:

A total of approximately 10,000 notes can be recorded to the five User Songs.

Quick Recording

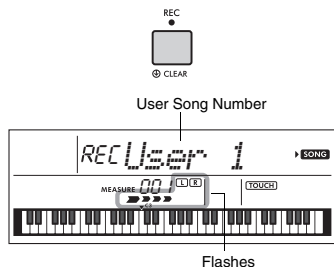
The operation is convenient for recording a new Song without having to specify a track.

1 Make the desired settings such as Voice and Style settings.

If you want to record only the melody performance, turn ACMP off (page 25). If you want to record Style playback or Rhythm playback as well as melody performance, turn ACMP on (page 25).

2 Press the [REC] button to enter the Record Ready mode.

This operation selects the lowest-numbered unrecorded User Song (“User 1”–“User 5”) as the recording target, if a User Song has not been specified in advance or if Record Ready mode has been entered from the Style mode. If you want to select another Song, use the [+ / YES] and [- / NO] buttons.



To exit from the Record mode, press the [REC] button again to stop the display from flashing.

NOTICE

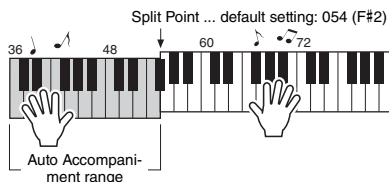
- If all User Songs contain recorded data, “User 1 (Song Number 165)” will automatically be selected. In this case, since you will record over and erase any previous data in “User 1,” we recommend that you save your important data to a computer (see page 53).

NOTE

- ACMP cannot be turned on or off in this status while you can select another Style in this status by using the [STYLE/RIYAZ] and Number buttons.

3 Play the keyboard to start recording.

If ACMP is turned on, you can independently record just the rhythm sound of Style playback by pressing the [START/STOP] button, and then changing the Section (page 26).



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

When using a Style, you can stop recording also by pressing the [INTRO/ENDING/rit.] button, and then waiting until playback ends.

NOTICE

- After Recording stops, a “Writing!” message is shown on the display for a while. Never attempt to turn the power off while this is shown in the display. Doing so can damage the internal memory and result in a loss of data.

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

Limitations while Recording

- You cannot record the Reverb Level, metronome click, or the Transpose and Tuning settings.
- The following settings and buttons are not available, or if operated, the new settings will not be recorded: ACMP ON/OFF, Split Point, Reverb Type, Chorus Type, Harmony/Arpeggio Type, [FUNCTION] button, [HARMONIUM/PIANO] button.
- You can record the DSP effect only to Track 1.

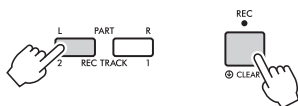
Recording to a Specific Track

1 Make the desired settings, such as those of Voice or Style.

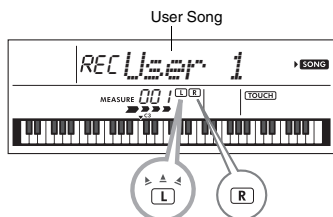
If you want to record the melody performance, turn ACMP off (page 25). If you want to record Style playback, turn ACMP on (page 25).

2 While holding down the [REC] button, press the desired Track button 1 or 2 to engage the Record mode.

If you want to record Style playback, make sure to select Track 2. If you want to record melody performance, select either Track 1 or Track 2 as desired. The illustration below is the example when selecting Track 2.



The User Song appears on the display.



The L (TRACK 1) and R (TRACK 2) indicators light when the respective track contains data. They are unlit when the respective track contains no data. Even if a track contains data, it is unlit when the track is muted. In addition, they flash when the respective track is selected as a Recording target.

If Track 2 is selected as Recording target for example and Track 1 contains already recorded data, L flashes and R lights in the display. Turning on or off R via the [REC TRACK 1] button will determine whether you listen to a previously recorded Track or not while recording a new Track.

3 Press the [+ / YES], [- / NO] buttons to select the User Song you want to record.

4 Same as in Steps 3 to 5 (page 45) in "Quick Recording."

When playing back the recorded song, pressing [REC TRACK 1] or [REC TRACK 2] button allows you to mute Track 1 or Track 2. Each time the button is pressed, playback/mute is switched.



The L (TRACK 1) and R (TRACK 2) indicators light when the respective track contains data. They are unlit when the respective track is muted, even if the track contains data.

Clearing a User Song

1 Press the [SONG] button, and then select the desired User Song by using the Number buttons.

2 Press and hold the [REC] button for longer than a second.

A confirmation message appears.

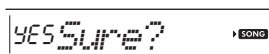


Hold for longer than a second.

To cancel the operation, press the [- / NO] button.

3 Press the [+ / YES] button.

A confirmation message appears again.



To cancel the operation, press the [- / NO] button.

4 Press the [+ / YES] button to clear the Song.

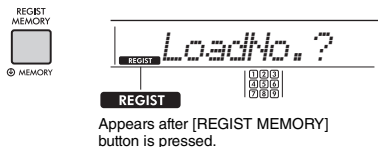
A "Writing!" message appears while the track is being cleared.

Memorizing Your Favorite Panel Settings

This instrument has a Registration Memory feature that lets you memorize your favorite settings for easy recall whenever they're needed. Up to nine complete setups can be memorized and assigned to each number button 1–9. (Factory settings are recorded to 1-9.)

Recalling Panel Settings from the Registration Memory

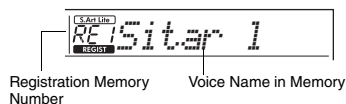
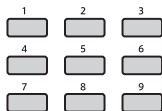
- 1 Press the [REGIST MEMORY] button.
“LoadNo.?” appears on the display.



Appears after [REGIST MEMORY] button is pressed.

- 2 Press one of the [1]–[9] buttons to call up the panel settings you memorized.

The recalled Registration Memory number and the Voice Name in the Memory appear on the display.



The Registration Memory number can be changed by pressing one of the other [1]–[9] buttons. To exit from Registration Memory, press the [REGIST MEMORY] button.

Factory Settings

Registration Memory Number	Voice Name in Memory
RE1	S.Art Lite Sitar 1
RE2	S.Art Lite Sitar 2
RE3	S.Art Lite Sarangi
RE4	S.Art Lite Santoor
RE5	S.Art Lite Nylon Guitar Harmonics
RE6	S.Art Lite Distortion Guitar
RE7	S.Art Lite Slap Bass
RE8	S.Art Lite Gospel Choir
RE9	S.Art Lite Brass Section

Parameters that are memorized to Registration Memory

● Style settings*

Style number, ACMP on/off, Style volume, Tempo, Main A/B, Fingering Type, Smart Chord Key

● Riyaz settings*

Riyaz number, Riyaz volume, Section (A, B, C), Tempo.

● Voice settings

Main Voice settings: Voice number and all settings of the related Functions

Dual Voice settings: Dual on/off and all settings of the related Functions

Split Voice settings: Split on/off and all settings of the related Functions

● Effect settings:

Reverb Type, Reverb level, Chorus Type, DSP on/off, DSP Type, Sustain on/off

● Harmony/Arpeggio settings:

Harmony/Arpeggio on/off and all settings of the related Functions

● Other settings:

Transpose, Split Point, Pitch Bend Range, All settings for the Function "DUO"; Pedal Function

* When a Song is selected, the Style and Riyaz settings cannot be recorded or called up.

NOTICE

- During playback of a Style or Riyaz, [1]–[9] buttons are sometimes not available until the beginning of the next measure.

Memorizing Panel Settings to the Registration Memory

- 1 Make the desired settings such as those for Voice, Style or Riyaz.
- 2 Press and hold down the [REGIST MEMORY] button for longer than a second. “MemNo.?” appears on the display.

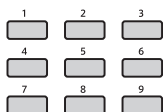


Hold for longer than a second.

Flashes after the [REGIST MEMORY] button is pressed and held for longer than a second.

- 3 Press one of the [1]–[9] buttons to memorize the current panel settings.

If you select a Registration Memory number that already contains data, an “Overwrt?” message appears in the display. To overwrite, press the [+ / YES] button; to cancel, press [- / NO].



When memorizing is completed, “MemOK” is displayed.

NOTICE

- If you select a Registration Memory number that already contains data, the previous data is deleted and overwritten by the new data.
- To restore all Registration Memories to the factory settings, execute the Backup Clear operation.
- Do not turn off the power while memorizing settings to the Registration Memory, otherwise the data may be damaged or lost.

Deleting the Registration Memory

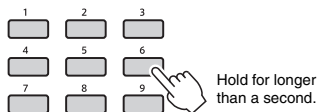
- 1 Hold down the [REGIST MEMORY] button for longer than a second. “MemNo.?” is shown in the display.



Hold for longer than a second.

Flashes after the [REGIST MEMORY] button is pressed and held for longer than a second.

- 2 Hold down one of the [1]–[9] buttons corresponding to the Registration Memory number you want to delete, for longer than a second.



“ClrRegX?” (“X” represents the Registration Memory number) is shown in the display.

- 3 Press the [+ / YES] button to delete the Registration Memory.

Press the [- / NO] button to cancel deleting the Registration Memory. When deleted, the Registration Memory number on the screen disappears.



Disabling Recall of Specific Items (Freeze)

Registration Memory lets you recall all the panel setups you made with a single button press. However, there may be times that you want certain items to remain the same, even when switching Registration Memory setups. When you want to switch the Voice settings but still maintain the Style and Riyaz settings, for example, you can “freeze” only the Style and Riyaz settings and have the settings remain, even when you select another Registration Memory number.

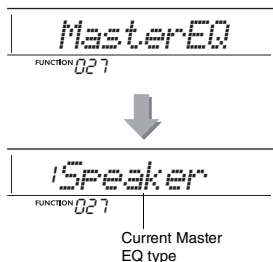
Select the items you want to freeze via Function numbers 047, 048 (page 57) and 049 (page 57).

Selecting an EQ Setting for your Favorite Sound

Six different master equalizer (EQ) settings let you create the optimum sound when listening through different reproduction systems—the instrument’s internal speakers, headphones, or an external speaker system.

- 1 Press the [FUNCTION] button several times until the “MasterEQ” (Function 027; page 55) item appears on the display.

“MasterEQ” is shown in the display for a few seconds, and the current Master EQ type appears.



- 2 Use the [+ / YES] or [- / NO] button to select the desired Master EQ type.

Master EQ Types

1	Speaker	Optimum for listening via the instrument's built-in speakers.
2	India	Optimum for listening to Indian music. The mid-range is slightly cut, to better emphasize the characteristics of the Indian instrument sounds, resulting in clear and more powerful sounds.
3	Headphone	Optimum for headphones, or for listening via external speakers.
4	Boost	Features more powerful sound.
5	Piano	Optimum for piano solo performance.
6	Bright	Lowers the mid range for a brighter sound.

Playing a Device with the Built-in Speakers

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.

You can output the sound of an audio device, such as a smartphone, with the built-in speakers of this instrument by connecting it via a cable. This lets you play the keyboard along with playback of your music player.

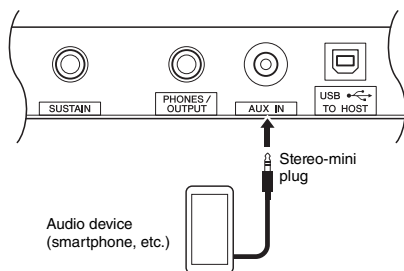
NOTICE

- To avoid damage to the external audio device and this instrument, 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.

1 Turn off the power for both the external audio device and this instrument.

2 Connect the audio device to the instrument's [AUX IN] jack.

Use a cable having a stereo-mini plug on one end for connecting to this instrument and a plug matching the output jack of the external audio device on the other end.



NOTE

- If you are using a computer or a smart device such as an iPhone/iPad, you can also connect it to the [USB TO HOST] terminal (see "Connecting to a Computer" on page 52).

3 Turn on the external audio device, and then this instrument.

4 Play back the connected external audio device.

The sound of the audio device is output through the speakers of this instrument.

5 Adjust the volume balance between the external audio device and this instrument.

Adjust the audio playback volume on the audio device, and then adjust the entire volume by rotating the [MASTER VOLUME] control of the instrument.

NOTE

- You can adjust the level of the input from the external audio device by calling up "AuxInVol" via Function number 042 (page 56) and using the [0]–[9], [+ / YES], [- / NO] buttons.

6 Play the keyboard along with the sound of the audio device.

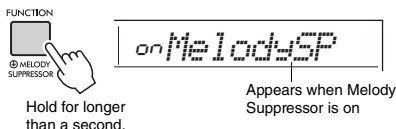
You can cancel or lower the volume of the melody part of audio playback. For details, refer to page 51.

7 After finishing your performance or practice, stop playback of the audio device.

Lowering the Volume of a Melody Part (Melody Suppressor)

When you output the audio sound of an external audio device or a computer connected to the [AUX IN] jack or the [USB TO HOST] terminal through this instrument, you can cancel or lower the volume of the melody part of audio playback. This lets you practice the melody part along with audio playback.

- 1 Play back audio on the connected external device.
- 2 Hold down the [FUNCTION] button for longer than a second to call up “MelodySP.”



- 3 Press the [+ / YES] button to select “on.”

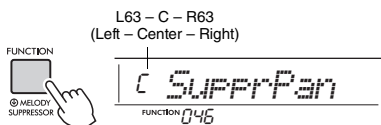
NOTE

- When the instrument is connected to the [USB TO HOST] terminal, and Audio Loop Back (page 57, Function 044) is set to OFF, the Melody Suppressor function cannot be used.

- 4 To cancel the Melody Suppressor function, select “oFF” via “MelodySP” (Function 045; page 57) by executing steps 2 and 3.

When the melody or vocal sound may not be canceled (or lowered) as expected

- 1 Press the [FUNCTION] button several times to call up “SupprPan” (Function 046; page 57) while the Melody Suppressor function is turned on.



- 2 Adjust the pan position of the sound to be canceled (lowered) by using the [+ / YES], [- / NO] buttons.

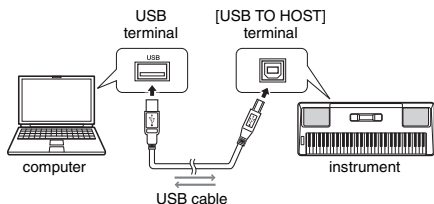
NOTE

- Depending on the particular music content, the melody or vocal sound may not be canceled as expected even if Melody Suppressor is turned on.

Using with a Computer or Smart Device

Connecting to a computer

Connecting the [USB TO HOST] terminal of this instrument and the computer via a USB cable allows you to do the following.



● When Storage Mode (Function 058; page 57) is set to on.

- File transfer (Song, Style, Backup)

● When Storage Mode is set to off.

- Performance data communication by MIDI
- Audio data communication by USB

Simply by connecting the instrument and a computer via a USB cable, the instrument is recognized by the computer. However, a dedicated driver must be installed for audio data communication. For details, refer to “Computer-related Operations” on the website (page 8).

NOTE 1

- The volume for USB audio communication data cannot be adjusted with the [MASTER VOLUME] dial.
- While Storage Mode is set to on, you cannot play the instrument. Set Storage Mode to on, only when transmitting/receiving files to/from a computer.
- While Storage Mode is set to off, not only your keyboard performance data but also automatic performance data (Style and User Song) are transmitted to the computer via MIDI.
- If you are using with a music production application, such as a DAW (Digital Audio Workstation), set “Loopback” (Function 044; page 57) to off. If this is instead set to on, a mix of the audio data and the sound of the instrument is sent to DAW, which may cause howling and unexpected loud sounds.

File transfer when Storage Mode is set to on

● Operation method

Operate on a computer. Refer to “Computer-related Operations” on the website (page 8).

● Files that can be transferred

- Song files (Extension: .MID)
Song files created on other instruments or computers can be transferred to this instrument. Note that user songs created with this instrument cannot be transferred to a computer as a single file.
- Style files (Extension: .STY)
This instrument does not have a function for creating Style files, but you can import a style file created on another device. The maximum capacity per file is 50KB. Files that exceed the limit will not be recognized on this instrument.
- Backup files (Extension: .BUP)
 - * You can transfer the data of “Parameters backed up as needed” and “Parameters backed up when the power is turned off” (excluding “Passing Status of Keys to Success”) on page 53 to the computer and save the data as a single backup file.

NOTE 1

- Files up to a total of about 1.4 MB can be transferred to this instrument.
- If you transfer a Style file to this instrument, you need to register it before using it on the instrument. For details, refer to “Registering a Style File” (page 30).
- Files transferred to the instrument are listed in the instrument in the order of symbol, number and alphabet.

Connecting a Smart Device

By connecting a smart device such as an iPhone/iPad to the instrument, you can take advantage of various functions. For details on connections, refer to the online PDF manual (page 8) “Smart Device Connection Manual.” For information about the compatible smart devices and application tools, access the following page:

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

NOTE 1

- If you are using the instrument with a music production application such as a DAW (Digital Audio Workstation), set “Loopback” (Function 044; page 57) to off. If it is set to on, a mix of the audio data and the sound of the instrument is sent to DAW, which may cause howling and unexpected loud sounds.

Backup and Initialization

Backup Parameters

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

Parameters backed up as needed

- User Songs (page 45)
- Style Number 225–234 (page 30)

Parameters backed up when the power is turned off

- Registration Memory (page 47)
- FUNCTION Settings: (page 54)
Tuning, Split Point, Touch Response, Style Volume, Riyaz Volume, Song Volume, Metronome Volume, Your Tempo, Demo Group, Demo Play Mode, Master EQ type, Sustain, Auto Power Off, Battery Type, Guide, Audio Loop Back, Fingering Type, [AUX IN] Audio Volume, [USB TO HOST] Audio Volume, Style Freeze, Transpose Freeze, Voice Freeze
- Passing Status of Keys to Success (page 38)

In addition to the Backup parameters above, all the data (including Style data that have not been loaded) transferred from the connected computer will be maintained even if you turn off the power.

Backup parameters other than “Passing Status of Keys to Success” can be transferred and saved to a computer as a single Backup file (with the extension: .BUP). This backup file can be loaded to the instrument for future.

For details on using a computer with this instrument, refer to the online PDF manual (page 8) “Computer-related Operations.”

Error during Backup operation

When connecting to a computer with Storage Mode (Function 058; page 57) set to on, there may not be enough free space on the instrument to create a backup file for transferring to the computer. In this situation, the error message “Not enough storage for backup” scrolls on the display. If you want to save a backup file to the computer, delete unnecessary Song files or Style files of the instrument to secure free space and set Storage Mode to off and back to on again. A backup file is created.

If you do not save a backup file on the computer, there is no problem if an error message is displayed, and you can ignore the message.

NOTE

- The size of a backup file varies depending on the amount of data stored on the instrument. The maximum capacity is about 620KB.
- Even if a backup file for transferring to a computer is not created, the backup data is retained in the instrument.

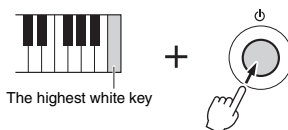
Initialization

You can initialize your original data via the following two methods.

Backup Clear

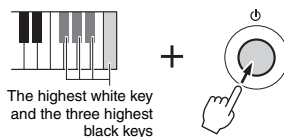
This operation initializes the backup parameters and the Registration Memories.

While holding down the highest white key, press the [⏻] (Standby/On) switch to turn the power on.



Flash Clear

This operation deletes all the Songs and Styles that have been transferred from a computer. Note that Style data registered to Style numbers 225–234 will be maintained. While simultaneously holding the highest white key and the three highest black keys, press the [⏻] (Standby/On) switch to turn the power on.



NOTICE

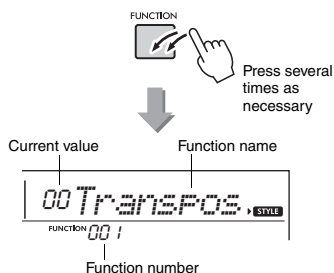
- Keep in mind that Backup Clear and Flash Clear also delete the data you have purchased. Be sure to save your important data to a computer.

The Functions

The Functions settings provide access to a 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.

Each time the [FUNCTION] button is pressed, the Function number increases one by one. To decrease the Function number by one, simultaneously hold down the [FUNCTION] button and press the [-/NO] button briefly. Simply pressing only the [+ /YES] or [-/NO] button does not change the Function number.

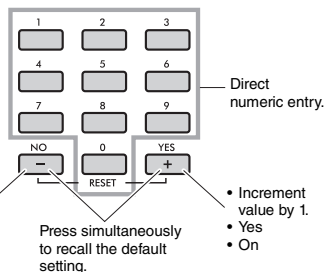


After a few seconds, the Function name may be replaced with the setting value depending on the selected Function.

NOTE

- The Function number does not appear in the display during Song, Style, Riyaz or metronome playback. The beat value appears instead.

2 Set the value by using the number buttons [0]–[9], or [+ /YES] and [- /NO] buttons.



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

Function List

Function Number	Function Name	Display	Range/Settings	Default Value	Description
Overall					
001	Transpose	<i>Transpos</i>	-12–12	00	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	Pitch Bend Range	<i>PBRange</i>	01–12	2	Sets the range over which you can control pitch by using the PITCH BEND wheel (page 18), in semitone increments.
004	Split Point	<i>SplitPnt</i>	036–096 (C1–C6)	54 (F#2)	Determines the highest key for the Split Voice and sets the Split “point”—in other words, the key that separates the Split (lower) and Main (upper) Voices. The Split Point setting (page 17) and Accompaniment Split Point setting (page 25) are automatically set to the same value.
005	Touch Response	<i>TouchRes</i>	1 (Soft), 2 (Medium), 3 (Hard), 4 (Fixed)	2 (Medium)	Refer to page 18.
Main Voice (page 16)					
006	Volume	<i>M. Volume</i>	000–127	*	Determines the volume of the keyboard performance when performing along with a Song, a Style or a Riyaz.
007	Octave	<i>M. Octave</i>	-2 – +2	*	Determines the octave range for the Main Voice.
008	Chorus Depth	<i>M. Chorus</i>	000–127	*	Determines how much of the Main Voice’s signal is sent to the Chorus effect.

Function Number	Function Name	Display	Range/Settings	Default Value	Description
Dual Voice (page 17)					
009	Dual Voice	<i>D.Voice</i>	001-644	*	Determines the Dual Voice.
010	Volume	<i>D.Volume</i>	000-127	*	Determines the volume of the Dual Voice.
011	Octave	<i>D.Octave</i>	-2-+2	*	Determines the octave range for the Dual Voice.
012	Chorus Depth	<i>D.Chorus</i>	000-127	*	Determines how much of the Dual Voice's signal is sent to the Chorus effect.
Split Voice (page 17)					
013	Split Voice	<i>S.Voice</i>	001-644	*	Determines the Split Voice.
014	Volume	<i>S.Volume</i>	000-127	*	Determines the volume of the Split Voice.
015	Octave	<i>S.Octave</i>	-2-+2	*	Determines the octave range for the Split Voice.
016	Chorus Depth	<i>S.Chorus</i>	000-127	*	Determines how much of the Split Voice's signal is sent to the Chorus effect.
Riyaz (page 33)					
017	Song Volume	<i>SongVol</i>	000-127	100	Determines the volume of the Song when a Song is selected (page 33).
Style (page 24)					
018	Style Volume	<i>StyleVol</i>	000-127	100	Determines the volume of the Style while a Style is selected (page 25).
019	Fingering Type	<i>FingType</i>	1 (SmartChord) 2 (Multi)	1 (SmartChord)	Determines the method of chord detection in the Accompaniment Section when playing with a Style.
020	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 (#) in your music score, press the [+]/YES/[+]/NO buttons until "SP2" appears on the display.
Riyaz (page 32)					
021	Riyaz Volume	<i>RiyazVol</i>	000-127	100	Determines the volume of the Riyaz while a Riyaz is selected (page 32).
Effects					
022	Reverb Type	<i>Reverb</i>	1-4 (Hall 1-4) 5 (Cathedral) 6-8 (Room 1-3) 9-10 (Stage 1-2) 11-12 (Plate 1-2) 13 (Off)	**	Determines the Reverb type, including Off (page 88).
023	Reverb Level	<i>RevLevel</i>	000-127	64	Determines how much of the Voice's signal is sent to the Reverb effect.
024	Chorus Type	<i>Chorus</i>	1 (Chorus1) 2 (Chorus2) 3 (Chorus3) 4 (Flanger1) 5 (Flanger2) 6 (Off)	**	Determines the Chorus type, including Off (page 88).
025	DSP Type	<i>DSPType</i>	01-38	*	Determines the DSP Type (page 88).
026	Sustain	<i>Sustain</i>	ON/OFF	OFF	Determines whether the Sustain function is on or off (page 20).
027	Master EQ Type	<i>MasterEQ</i>	1 (Speaker) 2 (India) 3 (Headphone) 4 (Bass) 5 (Piano) 6 (Bright)	1 (Speaker)	Determines what type of equalization is applied to the speaker output or headphone output for optimum sound in different listening situations (page 49).
Harmony/Arpeggio (page 21)					
028	Harmony/Arpeggio Type	<i>Harm/Arp</i>	001-026 (Harmony) 027-188 (Arpeggio)	*	Determines whether the Harmony type or Arpeggio type is selected.
029	Harmony Volume	<i>HarmVol</i>	000-127	*	Determines the volume of the Harmony effect.
030	Arpeggio Velocity	<i>ArpVelo</i>	1 (Original) 2 (Key)	**	Determines the Arpeggio velocity. If "Key" is selected, arpeggios will be played back at a volume matching the strength at which you play the keyboard. If "Original" is selected, arpeggios will be played back at their original volume regardless of your playing strength.

Function Number	Function Name	Display	Range/Settings	Default Value	Description
Pedal (pages 20, 22)					
031	Pedal Function	<i>Pd1Func</i>	1 (Sustain) 2 (ArpHold) 3 (Sus+ArpH) 4 (Articulation) 5 (Sostenuto)	1 (Sustain)	Sustain: Sustain will be applied to the Main Voice and Dual Voice while the pedal is held down. ArpHold: Arpeggio playback will continue while the pedal is held down. Sus + ArpH: Sustain will be produced and Arpeggio playback will continue while the pedal is held down. Articulation: Articulation effect will be produced while the pedal is held down. Sostenuto: When Split is turned on, Sostenuto will be applied to the Split Voice while the pedal is held down. When Split is turned off, Sostenuto will be applied to the Main Voice and Dual Voice while the pedal is held down. When Duo mode is turned on, Sostenuto will be applied to the Main Voice and Duo L Voice while the pedal is held down.
Metronome (page 16)					
032	Time Signature Numerator	<i>TimeSigN</i>	00-60	**	Determines the time signature of the Metronome.
033	Time Signature Denominator	<i>TimeSigD</i>	Half note, Quarter note, Eighth note, Sixteenth note	**	Determines the length of each metronome beat.
034	Metronome Volume	<i>MetroVol</i>	000-127	100	Determines the volume of the Metronome.
Lesson (page 36)					
035	Lesson Track (R)	<i>R-Part</i>	01-16	01	Determines the guide track number for your right hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer. Select a Song you want to use for the lessons, select the "R-Part," and then use the number buttons [0]-[9], or [+YES] and [-NO] buttons to select the channel you want to play back as the specified right-hand part. We recommend that you select channel 1 for the right-hand part.
036	Lesson Track (L)	<i>L-Part</i>	01-16	02	Determines the guide track number for your left hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer. Select a Song you want to use for the lessons, select the "L-Part," and then use the number buttons [0]-[9], or [+YES] and [-NO] buttons to select the channel you want to play back as the specified left-hand part. We recommend that you select channel 2 for the left part.
037	Your Tempo	<i>YourTemp</i>	ON/OFF	ON	This parameter is for Lesson 3 "Waiting." When this is set to ON, playback tempo will change to match your playing speed. When this is set to OFF, playback tempo will remain constant regardless of your playing speed.
038	Guide	<i>Guide</i>	ON/OFF	ON	Determines whether the Guide note sounds (ON) or not (OFF) during the "Waiting" lesson.
MIDI					
039	Local Control	<i>Local</i>	ON/OFF	ON	Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF). When you are recording your keyboard performance to application software on the computer via MIDI, set this parameter to OFF.
040	External Clock	<i>ExtClock</i>	ON/OFF	OFF	Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON). When you are recording your keyboard performance to application software on the computer via MIDI, set this parameter to ON.
041	Initial Send	<i>InitSend</i>	YES/NO	-	Allows you to send the data of the panel settings to a computer. Press [+YES] to send, or press [-NO] to cancel. This operation should be done immediately after starting the recording operation on the computer.
Audio (pages 50, 51, 52)					
042	[AUX IN] Audio Volume	<i>AuxInVol</i>	000-127	50	Determines the volume of audio playback, input from the [AUX IN] jack (page 50).
043	[USB TO HOST] Audio Volume	<i>USBInVol</i>	000-127	100	Determines the volume of audio playback, input from the [USB TO HOST] terminal (page 52).

Function Number	Function Name	Display	Range/Settings	Default Value	Description
044	Audio Loop Back	<i>Loopback</i>	ON/OFF	ON	Determines whether Audio sound input from the [USB TO HOST] terminal is returned to the computer or not with the performance played on the instrument. If you want to output only the sound played on this instrument to the computer, set this parameter to OFF.
045	Melody Suppressor	<i>MelodySP</i>	ON/OFF	OFF	When you output the audio sound of an external audio device or a computer connected to the [AUX IN] jack or the [USB TO HOST] terminal through this instrument, select "ON" to cancel or lower the volume of the melody part of audio playback.
046	Suppressor Pan	<i>SUPPRPan</i>	L63-C-R63	C	Determines the position of the playback sound of the external audio device to be canceled or lowered (page 51).
Regist Freeze (page 48)					
047	Style Freeze	<i>StyleFrz</i>	ON/OFF	OFF	When you want to call up the Registration Memory without overwriting the current Style and Riyaz settings select "ON."
048	Transpose Freeze	<i>TransFrz</i>	ON/OFF	OFF	When you want to call up the Registration Memory without overwriting the current Transpose setting, select "ON."
049	Voice Freeze	<i>VoiceFrz</i>	ON/OFF	OFF	When you want to call up the Registration Memory without overwriting the current Voice setting, select "ON."
Duo (page 23)					
050	Duo Mode	<i>DuoMode</i>	ON/OFF	OFF	Select "ON" to divide the keyboard range into the left section and right section.
051	Duo L Voice	<i>DuoLVc</i>	001-644	*	Determines the Voice in the left section.
052	Duo Split Point	<i>DuoPnt</i>	036-096 (C1-C6)	66 (F#3)	Sets the boundary between the left section and right section.
053	Duo R Volume	<i>DuoRVol</i>	000-127	*	Determines the volume of the right section.
054	Duo L Volume	<i>DuoLVol</i>	000-127	*	Determines the volume of the left section.
055	Duo R Octave	<i>DuoROct</i>	-3 - +3	*	Determines the pitch of the right section in octave units.
056	Duo L Octave	<i>DuoLOct</i>	-3 - +3	*	Determines the pitch of the left section in octave units.
057	Duo Type	<i>DuoType</i>	1 (Balance) 2 (Separate)	2 (Separate)	This function is effective in Duo Mode (page 23). 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.
Storage					
058	Storage Mode	<i>Storage</i>	ON/OFF	OFF	Select "ON" if you want the computer to recognize the instrument as storage when it is connected to the computer. When "ON" is selected, the operation of the instrument will be locked; for example, no sound will be produced when you play the keyboard. Select "OFF" if you want the computer to recognize the instrument as a MIDI device when it is connected to the computer. While Storage Mode is set to ON, you cannot play the instrument. Set Storage Mode to ON only when transmitting/receiving files to/from a computer.
Style File					
059	Style Register	<i>StyleReg</i>	001-nnn	-	Select and register a Style file from flash files that are loaded from computer (page 30).
Demo (page 33)					
060	Demo Group	<i>DemoGrp</i>	1 (Demo) 2 (Preset) 3 (User) 4 (Download)	1 (Demo)	Determines the repeat playback group.
061	Demo Play Mode	<i>PlayMode</i>	1 (Normal) 2 (Random)	1 (Normal)	Determines the repeat playback mode.
Auto Power Off (page 13)					
062	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 12)					
063	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, Style, Riyaz or Arpeggio.

Troubleshooting

Problem	Possible Cause and Solution
When the instrument is turned on or off, a popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, 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 an 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.
There is no sound even when the keyboard is played or when a song or style is being played back.	Check that nothing is connected to the [PHONES/OUTPUT] jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
	Check the Local Control on/off setting. (See page 56 Function 039.) Make sure Local Control is set to ON.
The instrument does not respond when the instrument is operated.	Is Storage Mode set to ON? Make sure Storage Mode is set to OFF; refer to "Storage" on page 57 (Function 058).
Playing keys in the right hand area of the keyboard does not produce any sound.	When using the Dictionary function (page 29), the keys in the right hand area are used only for entering the chord root and type.
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 48 notes—including Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.
The harmony doesn't sound.	The method of sounding the Harmony effect (001–026) differs depending on the selected type. For Types 001–005, turn the Auto Accompaniment on and play it by pressing a chord in the auto accompaniment section of the keyboard, and then play some keys in the right-hand side to produce the Harmony effect. For Types 006–026, turning auto accompaniment on or off has no effect. However, it is necessary to play two notes simultaneously for Types 006–012.
The Style or Song does not play back when the [START/STOP] button is pressed.	Is External Clock set to ON? Make sure External Clock is set to OFF; refer to "Function Settings" on page 56 (Function 040).
The ACMP ON indicator does not appear when the [ACMP ON/OFF] button is pressed.	<ul style="list-style-type: none"> • Always press the [STYLE/RIYAZ] button first when you are going to use any Style-related function. • The ACMP ON indicator does not appear when the Duo mode is on.
The Style does not sound properly.	Make sure that the Style Volume (page 55 Function 018) is set to an appropriate level.
	Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate key (page 54 Function 004). Is the "ACMP" indicator showing in the display? If it is not showing, press the [ACMP ON/OFF] button so that it does show.
The Style does not sound as you play a chord.	<p>If the Fingering Type (Function 019; page 55) is set to Multi, the following conditions will occur.</p> <ul style="list-style-type: none"> • The auto accompaniment will sometimes not change when related chords are played in sequence (e.g., some minor chords followed by the minor seventh). • Two-note fingerings will produce a chord based on the previously played chord. • Playing two same root keys in the adjacent octaves produces accompaniment based only on the root.
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the [SUSTAIN] jack before turning on the power.
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 may be slightly different from note to note.

Problem	Possible Cause and Solution
<ul style="list-style-type: none"> • The volume is too soft. • The sound quality is poor. • The rhythm stops unexpectedly or will not play. • The recorded data of the song, etc. does not play correctly. • The LCD display suddenly goes dark, and all panel settings are reset. 	<p>The batteries are low or dead. Replace all six batteries with completely new ones, or use the included AC adaptor.</p>
<p>Power suddenly and unexpectedly turns off.</p>	<p>This is normal and the Auto Power Off function may have been activated (page 13). If you need to disable the Auto Power Off function, select "Off" in the Function settings (Function 062; page 57).</p>
<p>When the instrument is turned on, power is turned off suddenly and unexpectedly.</p>	<p>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 (page 91) only. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.</p>
<p>The application on your smart device doesn't recognize the instrument.</p>	<p>Is Storage Mode set to ON? Make sure that Storage Mode is set to OFF; refer to "Function Settings" on page 57 (Function 058).</p>
<p>Some notes don't sound properly when playing back a User Song using A-B Repeat.</p>	<p>This is normal. It takes time to reset DSP settings every repeat when playing back a User Song using A-B Repeat. To prevent this from occurring, try the following when recording.</p> <ul style="list-style-type: none"> • Turn off the DSP • Use other Voices

Song Book Sample

This score is provided with the part of the song book (free downloadable scores).
The song book contains not only the scores for all internal songs (excepting Songs 1–3) but also music terms and important points for your practice. To obtain this Song Book, access the Yamaha website and download it from the product web page.

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

* The Song book is provided in English and French.
This example introduces part of the English song book.

Für Elise

L. v. Beethoven

Basic

Song No.014

Für Elise ~ With Step Map ~ 12

Für Elise is an all-time classical favorite.

The beautiful, well-known melody is repeated a number of times.

In each step you won't be practicing alone. You have a wonderful orchestra to back you up!

First, listen to the example a few times. It won't be long before you'll want to start playing it yourself!

Step 01	Warm-up Exercise - "The Semitone Mystery"	14
Step 02	Diligent Practice Time	15
Step 03	Warm-up Exercise - "Basic Accompaniment"	16
Step 04	Diligent Practice Time	16
Step 05	First Half Review	17
Step 06	Diligent Practice Time	17
Step 07	Warm-up Exercise - "The Jump Competition"	18
Step 08	"EEEEEE!"	18
Step 09	"Left! Right! Left! Right!"	19
Step 10	Second Half Review	19
Step 11	Play the Whole Song!	19

Song No.014

Basic

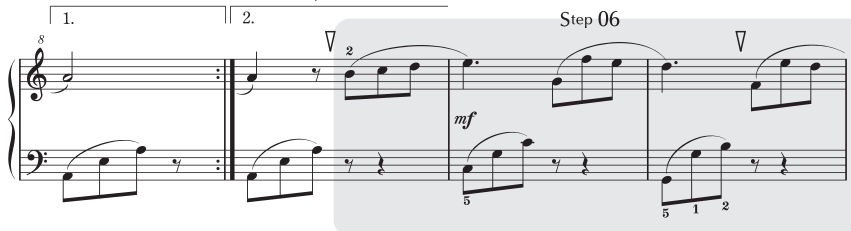
Für Elise

~ With Step Map ~

Play with both hands as if gently telling a story. It might help to sing or hum the melody as you play.
 Similar melody lines and rhythms are repeated in this song, so there aren't as many sections to practice as you might think. Enjoy learning each section as you build proficiency.

Step 05 From here... ▶

Step 05 ...to here Step 10 From here...



1. 2. Step 06


mf

8

5 5 1 2

Detailed description: This block shows the first system of the piece, starting at measure 8. It features two first endings (1. and 2.) for Step 05. Step 10 begins at measure 10 and continues through measure 12. The right hand plays a melody with slurs and accents, while the left hand provides a bass line. A dynamic marking of *mf* is present. Fingering numbers 5, 5, 1, and 2 are shown for the left hand in the final measure.

Step 08 Step 09



19

p *pp*

5 5 1 5 3 2

Step 07

Detailed description: This block covers measures 19 to 22. Step 08 is in measures 19-20, and Step 09 is in measures 21-22. The right hand has a melody with slurs and accents. The left hand has a bass line. Dynamic markings *p* and *pp* are used. Fingering numbers 5, 5, 1, 5, 3, and 2 are shown for the left hand. A dashed box highlights a fingering change in the left hand at the start of Step 07 (measure 19).



23

4 4

Detailed description: This block shows measures 23 to 26. The right hand plays a melody with slurs and accents. The left hand has a bass line. Fingering numbers 4 and 4 are shown for the right hand.

Step 10 ...to here



27

4 4

Detailed description: This block shows measures 27 to 30. The right hand plays a melody with slurs and accents. The left hand has a bass line. Fingering numbers 4 and 4 are shown for the right hand. A dashed line indicates the end of Step 10.

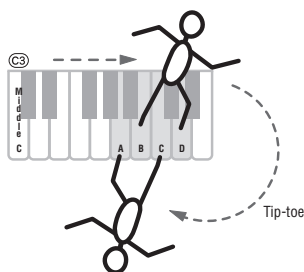
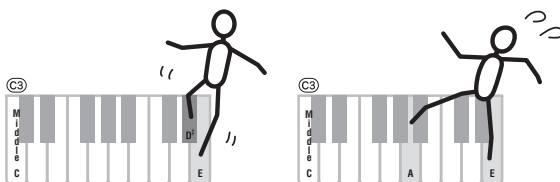
Step 01



Warm-up Exercise - "The Semitone Mystery"

Let's start with a warm-up exercise using three fingers of the right hand. We'll start by ascending and descending the white and black keys. Check out the illustrations until you understand how the fingers are supposed to move, then get started!

You'll find it easier to play if you bend your fingers slightly.



Go back to the beginning and play it again.

Step 02



Diligent Practice Time

Right! Now that we're warmed up let's try playing along with the orchestra in 3/4 time.

The melody will be built up little by little.

Compare each line... notice that many of the shapes formed by the notes are very similar.



Short break

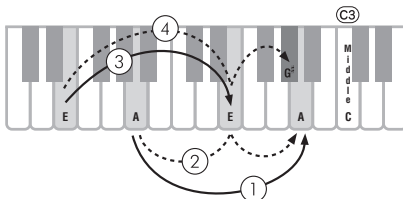


Step 03



Warm-up Exercise - "Basic Accompaniment"

And now a warm-up exercise for the left hand.
It's important to spread your fingers widely from the start.
Don't play the black keys too strongly.



Step 04



Diligent Practice Time

Connect the notes smoothly, as if the left hand were passing them to the right hand. You'll be able to play smoothly if you move the left hand into position for the next phrase as soon as it finishes playing the first phrase.

Step 05**First Half Review**

You've reached the halfway step! Have you learned all the material provided in the preceding steps? Now let's go back and play through all the first-half exercises. If you find that you're having trouble playing any of the material, go back and review the steps using the Step Map as a guide.

Step 06**Diligent Practice Time**

OK, let's begin the second half!

You'll be able to play the melody nicely if you lift your fingers from the keyboard between the slurs.

It might be easier to grasp the key release timing if you sing along with the melody.

Don't panic and play too strongly where the left hand has to play short notes.

Always have left-hand finger 5 ready to play the next note!

Song No.014  Für Elise **Basic**

Step 07

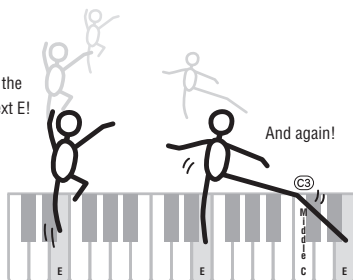


Jump to the next E!

Warm-up Exercise - "The Jump Competition"

The first note has a staccato dot.

Spread your fingers wide and jump quickly to the next note!



Step 08



"EEEEEE!"

The only note in this step is E!

Make the connection between the left and right hands as smooth as possible.

Step 09**“Left! Right! Left! Right!”**

Play “D[♯] E” repeatedly, alternating the left and right hands.

Have the next hand ready in position to play D[♯] so you won't have to rush.

Step 10**Second Half Review**

Try playing all the way through the second half.

As we did after the first half, if there are places you can't play with confidence go back and review the steps.

Step 11**Play the Whole Song!**

This is the finishing step!

Don't be afraid of making mistakes. Just concentrate on playing the entire song from start to finish.

Practice this with the lessons learned in each step in mind, and gradually you'll master the whole song.

Voice List

Maximum Polyphony

The instrument has 48-note maximum polyphony. This means that it can play a maximum of up to 48 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 Split Voice and 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

- The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the instrument via MIDI from an external device.
- Program change numbers are often specified as numbers "0-127." For these cases, it is necessary to subtract 1 from the intended program change number to select the appropriate sound, because this list uses a "1-128" numbering system. For example, to select program change number 38 in the list below, transmit program change number 37.
- Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

Panel Voice List

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
INDIAN				
1	0	113	21	Harmonium Single
2	0	114	21	Harmonium Double
3	0	115	21	Harmonium Triple
4	0	123	112	Shehnai
5	8	96	79	S.Art Lite Sarangi ***
6	51	0	23	Sweet! Sarangi
7	0	124	112	Pungi
8	51	0	11	Sweet! Bansuri
9	8	97	127	S.Art Lite Sitar 1 ***
10	8	96	127	S.Art Lite Sitar 2 ***
11	0	115	105	Sarod
12	8	96	128	S.Art Lite Santoor ***
13	0	118	16	Santoor
14	51	0	24	Tanpura 1
15	0	114	105	Tanpura 2
16	0	120	108	Indian Banjo
17	0	124	26	Mandolin
18	0	121	108	Swarmandal
19	0	117	105	Ektara
20	0	118	105	East Rabab
21	0	113	10	Bell
22	0	127	89	Early Morning
23	0	117	12	Sun Vibes
24	0	116	117	Tabla
25	126	0	116	Tabla Kit 1
26	126	0	117	Tabla Kit 2
27	126	0	40	Indian Kit 1
28	126	0	115	Indian Kit 2
29	126	0	33	Indian Mix Kit
30	126	0	112	Animal Kit
PIANO				
31	0	115	1	Live! Concert Grand Piano
32	0	112	1	Grand Piano
33	0	112	2	Bright Piano
34	0	112	7	Harpisichord
35	0	112	4	Honky Tonk Piano
36	0	112	3	MIDI Grand Piano
37	0	113	3	CP80
E.PIANO				
38	0	118	5	Cool! Suitcase Electric Piano
39	0	118	6	Jazz Chorus Electric Piano
40	0	120	5	Phase Electric Piano
41	0	119	5	Cool! Tremolo Electric Piano
42	0	121	5	Cool! Electric Piano
43	0	117	5	Stage Electric Piano
44	0	114	5	Cool! Galaxy Electric Piano

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
45	0	113	6	Hyper Tines
46	0	112	5	Funky Electric Piano
47	0	112	6	DX Modern Electric Piano
48	0	114	6	Venus Electric Piano
49	0	112	8	Clavi
50	0	113	8	Wah Clavi
ORGAN				
51	0	118	19	Cool! Organ
52	0	117	19	Cool! Rotor Organ
53	0	112	17	Jazz Organ 1
54	104	49	17	Jazz Organ 1 + Rotary Fast
55	0	113	17	Jazz Organ 2
56	104	50	17	Jazz Organ 2 + Rotary Fast
57	0	112	19	Rock Organ
58	0	120	19	Octave Shift Organ
59	0	114	19	Purple Organ
60	0	112	18	Click Organ
61	0	116	17	Bright Organ
62	0	127	19	Theatre Organ
63	0	121	20	16' + 2' Organ
64	0	120	20	16' + 4' Organ
65	0	113	20	Chapel Organ
66	0	112	20	Pipe Organ
67	0	112	21	Reed Organ
ACCORDION				
68	0	112	22	Musette Accordion
69	0	113	22	Traditional Accordion
70	0	113	24	Bandoneon
71	0	113	23	Modern Harp
72	0	114	23	Blues Harp
73	0	115	23	Harmonica
GUITAR				
74	8	96	1	S.Art Lite Nylon Guitar Harmonics ***
75	8	96	2	S.Art Lite Steel Guitar Harmonics ***
76	8	97	1	S.Art Lite Nylon Guitar Slide ***
77	8	97	2	S.Art Lite Steel Guitar Slide ***
78	8	96	6	S.Art Lite Distortion Guitar ***
79	0	116	25	Dynamic Nylon Guitar
80	0	118	30	Dynamic Overdriven
81	0	121	31	Dynamic Distortion Guitar
82	0	122	25	Nylon Guitar
83	0	112	25	Classical Guitar
84	104	25	26	Steel Guitar
85	0	112	26	Folk Guitar
86	0	112	27	Jazz Guitar

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
87	0	117	28	60s Clean Guitar
88	0	113	26	12Strings Guitar
89	0	112	28	Clean Guitar
90	0	127	28	Wah Guitar
91	0	113	27	Octave Guitar
92	0	112	29	Muted Guitar
93	0	112	30	Overdriven Guitar
94	0	112	31	Distortion Guitar
95	0	127	31	Wah Distortion Guitar
BASS				
96	8	96	18	S.Art Lite Slap Bass ***
97	0	116	34	Dynamic Electric Bass
98	0	112	34	Finger Bass
99	0	112	33	Acoustic Bass
100	0	112	35	Pick Bass
101	0	112	36	Fretless Bass
102	0	112	37	Slap Bass
103	0	121	40	Funk Bass
104	0	112	39	Synth Bass
105	0	113	39	Hi-Q Bass
106	0	113	40	Dance Bass
STRINGS				
107	8	96	50	S.Art Lite Strings ***
108	0	117	50	Live! Strings
109	104	23	49	Studio Strings
110	0	112	49	Strings
111	0	112	50	Chamber Strings
112	0	115	50	Marcato Strings
113	0	113	50	Slow Strings
114	0	112	45	Tremolo Strings
115	0	112	51	Synth Strings
116	0	112	46	Pizzicato Strings
117	0	116	46	Orchestra Pizzicato Strings
118	0	113	41	Sweet! Violin
119	0	112	41	Violin
120	0	112	43	Cello
121	0	112	44	Contrabass
122	0	112	47	Harp
123	0	112	56	Orchestra Hit
CHOIR				
124	8	96	55	S.Art Lite Gospel Choir ***
125	0	112	53	Choir
126	104	12	54	Gospel Hm
127	104	13	54	Gospel Wow
128	0	113	53	Vocal Ensemble
129	0	112	55	Air Choir
130	0	112	54	Vox Humana
WOODWIND				
131	8	96	83	S.Art Lite Tenor Sax ***
132	0	122	67	Sax Section
133	0	117	67	Sweet! Tenor Sax
134	0	112	67	Tenor Sax
135	0	112	66	Alto Sax
136	0	112	65	Soprano Sax
137	0	112	68	Baritone Sax
138	0	114	67	Breathy Tenor Sax
139	0	116	66	Small Sax Section
140	0	112	72	Clarinet
141	0	112	69	Oboe
142	0	112	70	English Horn
143	0	112	71	Bassoon
144	8	96	74	S.Art Lite Flute ***

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
145	0	114	74	Sweet! Flute
146	0	115	74	Sweet! Classical Flute
147	0	112	74	Flute
148	0	112	73	Piccolo
149	0	112	76	Pan Flute
150	0	112	75	Recorder
151	0	112	80	Ocarina
BRASS				
152	0	112	57	Trumpet
153	0	127	57	Distortion Trumpet
154	0	112	58	Trombone
155	0	113	58	Trombone Section
156	0	112	60	Muted Trumpet
157	0	112	61	French Horn
158	0	112	59	Tuba
159	8	96	57	S.Art Lite Brass Section ***
160	0	117	63	Live! Brass
161	0	112	62	Brass Section
162	0	113	62	Big Band Brass
163	0	116	62	Octave Brass
164	0	113	63	80s Brass
165	0	119	62	Mellow Horns
166	0	115	63	Funky Brass
167	0	114	63	Techno Brass
168	0	112	63	Synth Brass
SYNTH				
169	104	20	91	Gemini
170	104	21	91	Hands Up!
171	0	112	81	Square Lead
172	0	112	82	Sawtooth Lead
173	0	108	82	RS Tech Saw
174	0	112	88	Under Heim
175	0	112	85	Portatone
176	0	115	82	Analogon 1
177	0	119	82	Fargo 1
178	104	53	82	Analogon 2
179	104	54	82	Fargo 2
180	0	112	86	Voice Lead
181	0	121	82	Funky Lead
182	0	118	89	Sweet Heaven
183	0	121	89	Dream Heaven
184	0	113	89	Symbiont
185	0	112	99	Stardust
186	0	112	101	Brightness
187	0	112	92	Xenon Pad
188	0	112	95	Equinox
189	0	112	89	Fantasia
190	0	113	90	Dark Moon
191	0	113	101	Bell Pad
192	0	126	90	RS Analog Pad
193	0	116	91	RS Short Resonance
PERCUSSION				
194	0	112	12	Vibraphone
195	0	113	12	Jazz Vibes
196	0	112	13	Marimba
197	0	112	14	Xylophone
198	0	112	115	Steel Drums
199	0	112	9	Celesta
200	0	112	11	Music Box
201	0	112	15	Tubular Bells
202	0	112	48	Timpani

Voice List

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
WORLD				
203	0	112	106	Banjo
204	0	0	111	Fiddle
205	0	0	110	Bagpipe
206	0	0	16	Dulcimer 1
207	0	35	16	Dulcimer 2
208	0	96	16	Cimbalom
209	0	121	16	Santur
210	0	97	108	Kanoon
211	0	98	106	Oud
212	0	96	106	Rabab
213	0	0	109	Kalimba
214	0	115	111	Er Hu
215	0	118	74	Di Zi
216	0	116	106	Pi Pa
217	0	113	108	Gu Zheng
218	0	40	47	Yang Qin
219	0	120	111	Morin Khuur
220	0	124	74	Suling
221	0	0	107	Shamisen
222	0	0	108	Koto
223	0	96	108	Taisho-kin
DUAL*				
224	0	115	1	Octave Piano
225	0	115	1	Piano & Strings
226	0	115	1	Piano Pad
227	0	112	7	Octave Harpsichord
228	0	113	6	Tiny Electric Piano
229	0	114	5	Electric Piano Pad
230	0	120	20	Full Organ
231	0	112	27	Octave Jazz Guitar
232	0	115	50	Octave Strings
233	0	112	49	Orchestra Section
234	0	116	46	Octave Pizzicato Strings
235	0	112	41	Strings Session
236	0	112	62	Brass Tutti
237	0	112	49	Orchestra Tutti
238	0	112	61	Octave French Horns
239	0	112	47	Octave Harp
240	0	112	56	Orchestra Hit & Timpani
241	0	112	53	Octave Choir
242	0	113	62	Jazz Brass Section
243	0	113	62	Jazz Section
244	0	116	66	Ballroom Sax Ensemble
245	0	113	62	Ballroom Brass
246	0	112	74	Flute & Clarinet
247	0	112	57	Trumpet & Trombone
248	0	113	63	Fat Synth Brass
249	0	112	88	Octave Lead
250	0	0	87	Super 5th Lead
SOUND EFFECT				
251	0	0	121	Fret Noise
252	0	0	122	Breath Noise
253	0	0	123	Seashore
254	0	0	124	Bird Tweet
255	0	0	125	Telephone Ring
256	0	0	126	Helicopter
257	0	0	127	Applause
258	0	113	116	Hand Clap
259	0	0	128	Gunshot

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
DRUM KIT				
260	127	0	88	Power Kit
261	127	0	1	Standard Kit 1
262	127	0	2	Standard Kit 2
263	127	0	9	Room Kit
264	127	0	17	Rock Kit
265	127	0	25	Electronic Kit
266	127	0	26	Analog Kit
267	127	0	113	Dance Kit
268	127	0	33	Jazz Kit
269	127	0	41	Brush Kit
270	127	0	49	Symphony Kit
271	126	0	128	Chinese kit
272	126	0	55	Indonesian Kit 1
273	126	0	56	Indonesian Kit 2
274	126	0	57	Indonesian Kit 3
275	126	0	37	Arabic Kit
276	126	0	41	Cuban Kit
277	126	0	1	SFX Kit 1
278	126	0	2	SFX Kit 2
279	126	0	113	Sound Effect Kit
ARPEGGIO**				
280	0	112	49	Concerto
281	0	112	2	Latin Rock
282	0	112	62	Brass Section
283	0	112	1	Piano Ballad
284	0	96	82	Synth Sequence
285	0	117	28	Guitarist
286	0	112	26	Pickin'
287	0	112	25	Spanish
288	0	112	8	Funky Clavi
289	0	112	47	Harpeggio
290	0	112	1	Finger Bass Left
291	0	112	1	Combo Jazz Left
292	0	112	1	Pau's Bass Left
293	0	112	1	Trance Bass Left
294	0	112	1	Acid Bass Left
295	0	112	1	Piano Ballad Left
296	0	112	2	Salsa Piano Left
297	0	112	1	Piano Arpeggio Left
298	0	112	1	Guitar Arpeggio Left
299	0	112	1	Strum Left

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

** Selecting a Voice number between 280 and 299 will turn on Arpeggio.

*** S.Art Lite voice (page 19)

XGlite Voice List

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
XG PIANO				
300	0	0	1	Grand Piano
301	0	1	1	Grand Piano KSP
302	0	40	1	Piano Strings
303	0	41	1	Dream
304	0	0	2	Bright Piano
305	0	1	2	Bright Piano KSP
306	0	0	3	Electric Grand Piano
307	0	1	3	Electric Grand Piano KSP
308	0	32	3	Detuned CP80
309	0	0	4	Honky Tonk Piano
310	0	1	4	Honky Tonk Piano KSP
311	0	0	5	Electric Piano 1
312	0	1	5	Electric Piano 1 KSP
313	0	32	5	Chorus Electric Piano 1
314	0	0	6	Electric Piano 2
315	0	1	6	Electric Piano 2 KSP
316	0	32	6	Chorus Electric Piano 2
317	0	41	6	DX + Analog Electric Piano
318	0	0	7	Harpsichord 1
319	0	1	7	Harpsichord KSP
320	0	35	7	Harpsichord 2
321	0	0	8	Clavi
322	0	1	8	Clavi KSP
XG CHROMATIC				
323	0	0	9	Celesta
324	0	0	10	Glockenspiel
325	0	0	11	Music Box 1
326	0	64	11	Music Box 2
327	0	0	12	Vibraphone
328	0	1	12	Vibraphone KSP
329	0	0	13	Marimba
330	0	1	13	Marimba KSP
331	0	64	13	Sine Marimba
332	0	97	13	Balimba
333	0	98	13	Log Drums
334	0	0	14	Xylophone
335	0	0	15	Tubular Bells
336	0	96	15	Church Bells
337	0	97	15	Carillon
XG ORGAN				
338	0	0	17	Drawbar Organ 1
339	0	32	17	Detuned Drawbar Organ
340	0	33	17	60s Drawbar Organ 1
341	0	34	17	60s Drawbar Organ 2
342	0	35	17	70s Drawbar Organ 1
343	0	37	17	60s Drawbar Organ 3
344	0	40	17	16' + 2'2/3 Organ
345	0	64	17	Organ Bass
346	0	65	17	70s Drawbar Organ 2
347	0	66	17	Cheezy Organ
348	0	67	17	Drawbar Organ 2
349	0	0	18	Percussive Organ 1
350	0	24	18	70s Percussive Organ
351	0	32	18	Detuned Percussive Organ
352	0	33	18	Light Organ
353	0	37	18	Percussive Organ 2
354	0	0	19	Rock Organ
355	0	64	19	Rotary Organ
356	0	65	19	Slow Rotary Organ

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
357	0	66	19	Fast Rotary Organ
358	0	0	20	Church Organ 1
359	0	32	20	Church Organ 3
360	0	35	20	Church Organ 2
361	0	40	20	Notre Dame
362	0	64	20	Organ Flute
363	0	65	20	Tremolo Organ Flute
364	0	0	21	Reed Organ
365	0	40	21	Puff Organ
366	0	0	22	Accordion
367	0	0	23	Harmonica 1
368	0	32	23	Harmonica 2
369	0	0	24	Tango Accordion 1
370	0	64	24	Tango Accordion 2
XG GUITAR				
371	0	0	25	Nylon Guitar 1
372	0	25	25	Nylon Guitar 3
373	0	43	25	Velocity Guitar Harmonics
374	0	96	25	Ukulele
375	0	0	26	Steel Guitar
376	0	35	26	12Strings Guitar
377	0	40	26	Nylon & Steel Guitar
378	0	41	26	Steel Guitar with Body Sound
379	0	96	26	Mandolin
380	0	0	27	Jazz Guitar
381	0	32	27	Jazz Amp
382	0	0	28	Clean Guitar
383	0	32	28	Chorus Guitar
384	0	0	29	Muted Guitar
385	0	40	29	Funk Guitar
386	0	41	29	Muted Steel Guitar
387	0	45	29	Jazz Man
388	0	0	30	Overdriven Guitar
389	0	43	30	Guitar Pinch
390	0	0	31	Distortion Guitar
391	0	40	31	Feedback Guitar 1
392	0	41	31	Feedback Guitar 2
393	0	0	32	Guitar Harmonics 1
394	0	65	32	Guitar Feedback
395	0	66	32	Guitar Harmonics 2
XG BASS				
396	0	0	33	Acoustic Bass
397	0	40	33	Jazz Rhythm
398	0	45	33	Velocity Crossfade Upright Bass
399	0	0	34	Finger Bass 1
400	0	18	34	Finger Bass Dark
401	0	40	34	Bass & Distorted Electric Guitar
402	0	43	34	Finger Slap Bass
403	0	45	34	Finger Bass 2
404	0	65	34	Modulated Bass
405	0	0	35	Pick Bass
406	0	28	35	Muted Pick Bass
407	0	0	36	Fretless Bass 1
408	0	32	36	Fretless Bass 2
409	0	33	36	Fretless Bass 3
410	0	34	36	Fretless Bass 4
411	0	0	37	Slap Bass 1
412	0	32	37	Punch Thumb Bass
413	0	0	38	Slap Bass 2
414	0	43	38	Velocity Switch Slap

Voice List

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
415	0	0	39	Synth Bass 1
416	0	40	39	Techno Synth Bass
417	0	0	40	Synth Bass 2
418	0	6	40	Mellow Synth Bass
419	0	12	40	Sequenced Bass
420	0	18	40	Click Synth Bass
421	0	19	40	Synth Bass 2 Dark
422	0	40	40	Modular Synth Bass
423	0	41	40	DX Bass
XG STRING				
424	0	0	41	Violin
425	0	8	41	Slow Violin
426	0	0	42	Viola
427	0	0	43	Cello
428	0	0	44	Contrabass
429	0	0	45	Tremolo Strings
430	0	8	45	Slow Tremolo Strings
431	0	40	45	Suspense Strings
432	0	0	46	Pizzicato Strings
433	0	0	47	Orchestral Harp
434	0	0	48	Timpani
XG ENSEMBLE				
435	0	0	49	Strings 1
436	0	3	49	Stereo Strings
437	0	8	49	Slow Strings
438	0	35	49	80s Strings
439	0	40	49	Orchestra 1
440	0	41	49	Orchestra 2
441	0	42	49	Tremolo Orchestra
442	0	45	49	Velocity Strings
443	0	0	50	Strings 2
444	0	3	50	Stereo Slow Strings
445	0	8	50	Legato Strings
446	0	40	50	Warm Strings
447	0	41	50	Kingdom
448	0	0	51	Synth Strings 1
449	0	64	51	Synth Strings 4
450	0	0	52	Synth Strings 2
451	0	0	53	Choir Aahs
452	0	3	53	Stereo Choir
453	0	32	53	Mellow Choir
454	0	40	53	Choir Strings
455	0	0	54	Voice Oohs
456	0	0	55	Synth Voice 1
457	0	40	55	Synth Voice 2
458	0	41	55	Choral
459	0	64	55	Analog Voice
460	0	0	56	Orchestra Hit 1
461	0	35	56	Orchestra Hit 2
462	0	64	56	Impact
XG BRASS				
463	0	0	57	Trumpet
464	0	32	57	Warm Trumpet
465	0	0	58	Trombone 1
466	0	18	58	Trombone 2
467	0	0	59	Tuba
468	0	0	60	Muted Trumpet
469	0	0	61	French Horn 1
470	0	6	61	French Horn Solo
471	0	32	61	French Horn 2
472	0	37	61	Horn Orchestra

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
473	0	0	62	Brass Section
474	0	35	62	Trumpet & Trombone Section
475	0	0	63	Synth Brass 1
476	0	20	63	Resonant Synth Brass
477	0	0	64	Synth Brass 2
478	0	18	64	Soft Brass
479	0	41	64	Choir Brass
XG REED				
480	0	0	65	Soprano Sax
481	0	0	66	Alto Sax
482	0	40	66	Sax Section
483	0	0	67	Tenor Sax
484	0	40	67	Breathy Tenor Sax
485	0	0	68	Baritone Sax
486	0	0	69	Oboe
487	0	0	70	English Horn
488	0	0	71	Bassoon
489	0	0	72	Clarinet
XG PIPE				
490	0	0	73	Piccolo
491	0	0	74	Flute
492	0	0	75	Recorder
493	0	0	76	Pan Flute
494	0	0	77	Blown Bottle
495	0	0	79	Whistle
496	0	0	80	Ocarina
XG SYNTH LEAD				
497	0	0	81	Square Lead 1
498	0	6	81	Square Lead 2
499	0	8	81	LM Square
500	0	18	81	Hollow
501	0	19	81	Shroud
502	0	64	81	Mellow
503	0	65	81	Solo Sine
504	0	66	81	Sine Lead
505	0	0	82	Sawtooth Lead 1
506	0	6	82	Sawtooth Lead 2
507	0	8	82	Thick Sawtooth
508	0	18	82	Dynamic Sawtooth
509	0	19	82	Digital Sawtooth
510	0	20	82	Big Lead
511	0	24	82	Heavy Synth
512	0	96	82	Sequenced Analog
513	0	0	83	Calliope Lead
514	0	65	83	Pure Lead
515	0	0	84	Chiff Lead
516	0	0	85	Charang Lead
517	0	64	85	Distorted Lead
518	0	0	86	Voice Lead
519	0	0	87	Fifths Lead
520	0	35	87	Big Five
521	0	0	88	Bass & Lead
522	0	16	88	Big & Low
523	0	64	88	Fat & Perky
524	0	65	88	Soft Whirl
XG SYNTH PAD				
525	0	0	89	New Age Pad
526	0	64	89	Fantasy
527	0	0	90	Warm Pad
528	0	0	91	Poly Synth Pad
529	0	0	92	Choir Pad

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
530	0	66	92	Itopia
531	0	0	93	Bowed Pad
532	0	0	94	Metallic Pad
533	0	0	95	Halo Pad
534	0	0	96	Sweep Pad
XG SYNTH EFFECTS				
535	0	0	97	Rain
536	0	64	97	Harmo Rain
537	0	65	97	African Wind
538	0	66	97	Carib
539	0	0	98	Sound Track
540	0	27	98	Prologue
541	0	0	99	Crystal
542	0	12	99	Synth Drum Comp
543	0	14	99	Popcorn
544	0	18	99	Tiny Bells
545	0	35	99	Round Glockenspiel
546	0	40	99	Glockenspiel Chimes
547	0	41	99	Clear Bells
548	0	42	99	Chorus Bells
549	0	65	99	Soft Crystal
550	0	70	99	Air Bells
551	0	71	99	Bell Harp
552	0	72	99	Gamelimba
553	0	0	100	Atmosphere
554	0	18	100	Warm Atmosphere
555	0	19	100	Hollow Release
556	0	40	100	Nylon Electric Piano
557	0	64	100	Nylon Harp
558	0	65	100	Harp Vox
559	0	66	100	Atmosphere Pad
560	0	0	101	Brightness
561	0	0	102	Goblins
562	0	64	102	Goblins Synth
563	0	65	102	Creeper
564	0	67	102	Ritual
565	0	68	102	To Heaven
566	0	70	102	Night
567	0	71	102	Glisten
568	0	96	102	Bell Choir
569	0	0	103	Echoes
570	0	65	103	Big Pan
571	0	0	104	Sci-Fi
XG WORLD				
572	0	0	78	Shakuhachi
573	0	97	105	Tamboura
574	0	0	106	Banjo
575	0	28	106	Muted Banjo
576	0	96	112	Pungi
577	0	0	105	Sitar 1
578	0	32	105	Detuned Sitar
579	0	35	105	Sitar 2
580	0	0	112	Shehnai
581	0	97	106	Gopichant
XG PERCUSSIVE				
582	0	0	113	Tinkle Bell
583	0	96	113	Bonang
584	0	97	113	Altair
585	0	98	113	Gamelan Gongs
586	0	99	113	Stereo Gamelan Gongs
587	0	100	113	Rama Cymbal

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
588	0	0	114	Agogo
589	0	0	115	Steel Drums
590	0	97	115	Glass Percussion
591	0	98	115	Thai Bells
592	0	0	116	Woodblock
593	0	96	116	Castanets
594	0	0	117	Taiko Drum
595	0	96	117	Gran Cassa
596	0	0	118	Melodic Tom 1
597	0	64	118	Melodic Tom 2
598	0	65	118	Real Tom
599	0	66	118	Rock Tom
600	0	0	119	Synth Drum
601	0	64	119	Analog Tom
602	0	65	119	Electronic Percussion
603	0	0	120	Reverse Cymbal
XG SOUND EFFECTS				
604	64	0	1	Cutting Noise 1
605	64	0	2	Cutting Noise 2
606	64	0	4	String Slap
607	64	0	17	Flute Key Click
608	64	0	33	Shower
609	64	0	34	Thunder
610	64	0	35	Wind
611	64	0	36	Stream
612	64	0	37	Bubble
613	64	0	38	Feed
614	64	0	49	Dog
615	64	0	50	Horse
616	64	0	51	Bird Tweet 2
617	64	0	56	Maou
618	64	0	65	Phone Call
619	64	0	66	Door Squeak
620	64	0	67	Door Slam
621	64	0	68	Scratch Cut
622	64	0	69	Scratch Split
623	64	0	70	Wind Chime
624	64	0	71	Telephone Ring 2
625	64	0	81	Car Engine Ignition
626	64	0	82	Car Tires Squeal
627	64	0	83	Car Passing
628	64	0	84	Car Crash
629	64	0	85	Siren
630	64	0	86	Train
631	64	0	87	Jet Plane
632	64	0	88	Starship
633	64	0	89	Burst
634	64	0	90	Roller Coaster
635	64	0	91	Submarine
636	64	0	97	Laugh
637	64	0	98	Scream
638	64	0	99	Punch
639	64	0	100	Heartbeat
640	64	0	101	Footsteps
641	64	0	113	Machine Gun
642	64	0	114	Laser Gun
643	64	0	115	Explosion
644	64	0	116	Firework

Drum Kit List (Indian Kit List)

- To play the sounds in the lowest and highest octaves, set the M.Octave amount suitably (Functions 007; page 54).
- In the list, accidentals are marked with a sharp (#) on purpose. This is in accordance with notation in the documents published by MIDI-related industry organizations such as AMEI.

• Tabla

Key	Instrument	Key	Instrument	
C# 0	Baya Ke / Ge (Velocity 1-47 / 48-127)	C 4	Tabla Ne / Na (Velocity 1-47 / 48-127)	
D 0		C# 4		
D# 0		D 4		
E 0		D# 4		
F 0		E 4		
F# 0		F 4		
G 0		F# 4		
G# 0		G 4		
A 0		G# 4		
A# 0		A 4		
B 0		A# 4		
C 1		B 4		
C# 1		C 5		Tabla Ne / Tin (Velocity 1-47 / 48-127)
D 1		C# 5		
D# 1		D 5		
E 1		D# 5		
F 1		E 5		
F# 1		F 5		
G 1		F# 5		
G# 1		G 5		
A 1		G# 5		
A# 1		A 5		
B 1		A# 5		
C 2		B 5		
C# 2		C 6	Tabla Ne / Di (Velocity 1-47 / 48-127)	
D 2		C# 6		
D# 2		D 6		
E 2		D# 6		
F 2		E 6		
F# 2		F 6		
G 2		F# 6		
G# 2		G 6		
A 2				
A# 2				
B 2				
C 3		Baya Ka / Ghe (Velocity 1-47 / 48-127)		
C# 3				
D 3				
D# 3				
E 3				
F 3				
F# 3				
G 3				
G# 3				
A 3				
A# 3				
B 3				

• Tabla Kit 1

Key	Instrument	Key	Instrument
C# 0	-	C 4	D Tabla Ti 02
D 0	-	C# 4	D Tabla Ri
D# 0	-	D 4	D Tabla Kat
E 0	A Tabla Na	D# 4	D Tabla Tu
F 0	A Tabla Tin	E 4	E Tabla Na
F# 0	A Tabla Center Tin	F 4	E Tabla Tin
G 0	A Tabla Ti 01	F# 4	E Tabla Center Tin
G# 0	A Tabla Ti 02	G 4	E Tabla Ti 01
A 0	A Tabla Ri	G# 4	E Tabla Ti 02
A# 0	A Tabla Kat	A 4	E Tabla Ri
B 0	A Tabla Tu	A# 4	E Tabla Kat
C 1	Open Baya	B 4	E Tabla Tu
C# 1	Mid Baya	C 5	F Tabla Na
D 1	Press Baya	C# 5	F Tabla Tin
D# 1	Bend Baya Slow	D 5	F Tabla Center Tin
E 1	Bend Baya Fast	D# 5	F Tabla Ti 01
F 1	Click	E 5	F Tabla Ti 02
F# 1	Open Click	F 5	F Tabla Ri
G 1	G Low Tabla Tarang	F# 5	F Tabla Kat
G# 1	G# Low Tabla Tarang	G 5	F Tabla Tu
A 1	A Low Tabla Tarang	G# 5	G Tabla Na
A# 1	A# Low Tabla Tarang	A 5	G Tabla Tin
B 1	B Low Tabla Tarang	A# 5	G Tabla Center Tin
C 2	C Low Tabla Tarang	B 5	G Tabla Ti 01
C# 2	C# Low Tabla Tarang	C 6	G Tabla Ti 02
D 2	D Low Tabla Tarang	C# 6	G Tabla Ri
D# 2	D# Low Tabla Tarang	D 6	G Tabla Kat
E 2	E Low Tabla Tarang	D# 6	G Tabla Tu
F 2	F Low Tabla Tarang	E 6	-
F# 2	F# Low Tabla Tarang	F 6	-
G 2	G Low Tabla Tarang	F# 6	-
G# 2	G# Low Tabla Tarang	G 6	-
A 2	A Low Tabla Tarang		
A# 2	A# Low Tabla Tarang		
B 2	B Low Tabla Tarang		
C 3	C Tabla Na		
C# 3	C Tabla Tin		
D 3	C Tabla Center Tin		
D# 3	C Tabla Ti 01		
E 3	C Tabla Ti 02		
F 3	C Tabla Ri		
F# 3	C Tabla Kat		
G 3	C Tabla Tu		
G# 3	D Tabla Na		
A 3	D Tabla Tin		
A# 3	D Tabla Center Tin		
B 3	D Tabla Ti 01		

● **Tabla Kit 2**

Key	Instrument	Key	Instrument
C# 0	-	C 4	D Tabla Ti 02
D 0	-	C# 4	D Tabla Ri
D# 0	-	D 4	D Tabla Kat
E 0	A Tabla Na	D# 4	D Tabla Tu
F 0	A Tabla Tin	E 4	E Tabla Na
F# 0	A Tabla Center Tin	F 4	E Tabla Tin
G 0	A Tabla Ti 01	F# 4	E Tabla Center Tin
G# 0	A Tabla Ti 02	G 4	E Tabla Ti 01
A 0	A Tabla Ri	G# 4	E Tabla Ti 02
A# 0	A Tabla Kat	A 4	E Tabla Ri
B 0	A Tabla Tu	A# 4	E Tabla Kat
C 1	Open Baya	B 4	E Tabla Tu
C# 1	Mid Baya	C 5	F Tabla Na
D 1	Press Baya	C# 5	F Tabla Tin
D# 1	Bend Baya Slow	D 5	F Tabla Center Tin
E 1	Bend Baya Fast	D# 5	F Tabla Ti 01
F 1	Click	E 5	F Tabla Ti 02
F# 1	Open Click	F 5	F Tabla Ri
G 1	G Low Tabla Tarang	F# 5	F Tabla Kat
G# 1	G# Low Tabla Tarang	G 5	F Tabla Tu
A 1	A Low Tabla Tarang	G# 5	G Tabla Na
A# 1	A# Low Tabla Tarang	A 5	G Tabla Tin
B 1	B Low Tabla Tarang	A# 5	G Tabla Center Tin
C 2	C Low Tabla Tarang	B 5	G Tabla Ti 01
C# 2	C# Low Tabla Tarang	C 6	G Tabla Ti 02
D 2	D Low Tabla Tarang	C# 6	G Tabla Ri
D# 2	D# Low Tabla Tarang	D 6	G Tabla Kat
E 2	E Low Tabla Tarang	D# 6	G Tabla Tu
F 2	F Low Tabla Tarang	E 6	-
F# 2	F# Low Tabla Tarang	F 6	-
G 2	G Low Tabla Tarang	F# 6	-
G# 2	G# Low Tabla Tarang	G 6	-
A 2	A Low Tabla Tarang		
A# 2	A# Low Tabla Tarang		
B 2	B Low Tabla Tarang		
C 3	C Tabla Na		
C# 3	C Tabla Tin		
D 3	C Tabla Center Tin		
D# 3	C Tabla Ti 01		
E 3	C Tabla Ti 02		
F 3	C Tabla Ri		
F# 3	C Tabla Kat		
G 3	C Tabla Tu		
G# 3	D Tabla Na		
A 3	D Tabla Tin		
A# 3	D Tabla Center Tin		
B 3	D Tabla Ti 01		

● **Indian Kit 1**

Key	Instrument	Key	Instrument
C# 0	-	C 4	Dholki Open
D 0	-	C# 4	Dholki Mute
D# 0	-	D 4	Dholki Slap
E 0	-	D# 4	Dholki Slide
F 0	-	E 4	Dholki Rim
F# 0	-	F 4	Khol Open
G 0	-	F# 4	Khol Slide
G# 0	-	G 4	Khol Mute
A 0	-	G# 4	Manjira Open
A# 0	Hateli Long	A 4	Manjira Close
B 0	Hateli Short	A# 4	Jhanji Open
C 1	Baya Ge	B 4	Jhanji Close
C# 1	Baya Ke	C 5	Mondira Open
D 1	Baya Ghe	C# 5	Mondira Close
D# 1	Baya Ka	D 5	Mridang Open
E 1	Tabla Na	D# 5	Mridang Mute
F 1	Tabla Tin	E 5	Mridang Rim
F# 1	Tablabaya Dha	F 5	Mridang Slide
G 1	Tabla Tun	F# 5	Khomokh Normal
G# 1	Tablabaya Dhin	G 5	Khomokh Mute
A 1	Tabla Di	G# 5	Khomokh Flam
A# 1	Tablabaya Dhe	A 5	Madal-A2
B 1	Tabla Ti	A# 5	Madal-A#2
C 2	Tabla Ne	B 5	Madal-B2
C# 2	Tabla Tarang	C 6	Madal-C3
D 2	Tabla Tak	C# 6	Madal-C#3
D# 2	Chipri	D 6	Madal-D3
E 2	Kanjira Open	D# 6	Madal-D#3
F 2	Kanjira Slap	E 6	Madal-E3
F# 2	Kanjira Mute	F 6	Madal-F3
G 2	Kanjira Bendup	F# 6	Madal-F#3
G# 2	Kanjira Benddown	G 6	Madal-G3
A 2	Dholak Open		
A# 2	Dholak Mute		
B 2	Dholak Slap		
C 3	Dhol Open		
C# 3	Dhol Mute		
D 3	Dhol Slap		
D# 3	Dhol Slide		
E 3	Mridangam Normal		
F 3	Mridangam Open		
F# 3	Mridangam Mute		
G 3	Mridangam Slap		
G# 3	Mridangam Rim		
A 3	Chimta Open		
A# 3	Chimta Normal		
B 3	Chimta Ring		

● Indian Kit 2

Key	Instrument	Key	Instrument
C# 0	-	C 4	Dholki High Open
D 0	-	C# 4	Dholki High Mute
D# 0	Indian Hand Clap	D 4	Dholki Low Open
E 0	Dafli Open	D# 4	Dholki High Slap
F 0	Dafli Slap	E 4	Dholki Low Slide
F# 0	Dafli Rim	F 4	Khol Open
G 0	Duff Open	F# 4	Khol Slide
G# 0	Duff Slap	G 4	Khol Mute
A 0	Duff Rim	G# 4	Manjira Open
A# 0	Hatheli Long	A 4	Manjira Close
B 0	Hatheli Short	A# 4	Jhanji Open
C 1	Baya Ge	B 4	Jhanji Close
C# 1	Baya Ke	C 5	Mondira Open
D 1	Baya Ghe	C# 5	Mondira Close
D# 1	Baya Ka	D 5	Indian Bhanga Scat 1
E 1	Tabla Na	D# 5	Indian Bhanga Scat 2
F 1	Tabla Tin	E 5	Indian Bhanga Scat 3
F# 1	Tablabaya Dha	F 5	Indian Bhanga Scat 4
G 1	Dhol 1 Open	F# 5	Khomokh Normal
G# 1	Dhol 1 Slap	G 5	Khomokh Mute
A 1	Dhol 1 Mute	G# 5	Khomokh Flam
A# 1	Dhol 1 Open Slap	A 5	Thavil Open
B 1	Dhol 1 Roll	A# 5	Thavil Slap
C 2	Dandia Short	B 5	Thavil Mute
C# 2	Dandia Long	C 6	Khartaal
D 2	Chutki	C# 6	Dholak 2 Open
D# 2	Chipri	D 6	Dholak 2 Slide
E 2	Khanjira Open	D# 6	Dholak 2 Rim 1
F 2	Khanjira Slap	E 6	Dholak 2 Rim 2
F# 2	Khanjira Mute	F 6	Dholak 2 Ring
G 2	Khanjira Bendup	F# 6	Dholak 2 Slap
G# 2	Khanjira Benddown	G 6	-
A 2	Dholak 1 Open		
A# 2	Dholak 1 Mute		
B 2	Dholak 1 Slap		
C 3	Dhol 2 Open		
C# 3	Dhol 2 Slap		
D 3	Dhol 2 Rim		
D# 3	Mridangam Na		
E 3	Mridangam Din		
F 3	Mridangam Ki		
F# 3	Mridangam Ta		
G 3	Mridangam Chapu		
G# 3	Mridangam Low Close		
A 3	Mridangam Low Open		
A# 3	Chimta Normal		
B 3	Chimta Ring		

● Indian Mix Kit

Key	Instrument	Key	Instrument
C# 0	Zarb Back mf	C 4	Dholak Low Dub
D 0	Zarb Tom f	C# 4	Dholak Low Gamak
D# 0	Zarb Eshareh	D 4	Dholak Low Ghissa
E 0	Zarb Whipping	D# 4	Dholak High Ta
F 0	Tombak Tom f	E 4	Dholak High Na
F# 0	Neghareh Tom f	F 4	Dholak High Skin
G 0	Tombak Back f	F# 4	Dholak High Chpi
G# 0	Neghareh Back f	G 4	Dholak High Slap
A 0	Tombak Snap f	G# 4	Dholak High Chlla
A# 0	Neghareh Pelang f	A 4	Dholak 2 Open
B 0	Tombak Trill	A# 4	Dholak 2 Slide
C 1	Kick T9 1	B 4	Dholak 2 Rim 1
C# 1	Clap T9	C 5	Dholak 2 Rim 2
D 1	Kick T9 2	C# 5	Dholak 2 Ring
D# 1	Snare T8 1	D 5	Dholak 2 Slap
E 1	Snare T8 2	D# 5	Chutki
F 1	Hi-Hat Close T8	E 5	Chipri
F# 1	Hi-Hat Open T9	F 5	Dafli Open
G 1	Bass Drum Soft Low	F# 5	Dafli Slap
G# 1	Gran Cassa	G 5	Dafli Rim
A 1	Gran Cassa Mute	G# 5	Duff Open
A# 1	Band Snare 1	A 5	Duff Slap
B 1	Band Snare 2	A# 5	Duff Rim
C 2	Hand Cymbal 1	B 5	Hatheli Long
C# 2	Shaker	C 6	Hatheli Short
D 2	Snare Soft	C# 6	Manjira Open
D# 2	Conga High Mute	D 6	Manjira Close
E 2	Riq Tish	D# 6	Jhanji Open
F 2	Riq Snouj 2	E 6	Jhanji Close
F# 2	Riq Roll	F 6	Mondira Open
G 2	Riq Snouj 1	F# 6	Mondira Close
G# 2	Riq Sak	G 6	Wind Chime
A 2	Riq Snouj 3		
A# 2	Riq Snouj 4		
B 2	Luo big		
C 3	Cavasa House		
C# 3	Maracas Slur		
D 3	Dhol Baya Open		
D# 3	Dhol Baya Mute		
E 3	Dhol Chatti Open 1		
F 3	Dhol Chatti Open 2		
F# 3	Dhol Chatti Mute		
G 3	Dhol Chatti Edge		
G# 3	Dhol Body Click		
A 3	Dholak Low Dhoom		
A# 3	Dholak Low Dum		
B 3	Dholak Low Kath		

● Animal Kit

Key	Instrument	Key	Instrument
C# 0	-	C 4	Monkeys
D 0	-	C# 4	-
D# 0	-	D 4	Crow
E 0	-	D# 4	-
F 0	-	E 4	-
F# 0	-	F 4	-
G 0	-	F# 4	-
G# 0	-	G 4	-
A 0	-	G# 4	-
A# 0	-	A 4	-
B 0	-	A# 4	-
C 1	-	B 4	-
C# 1	-	C 5	-
D 1	-	C# 5	-
D# 1	-	D 5	-
E 1	-	D# 5	-
F 1	-	E 5	-
F# 1	-	F 5	-
G 1	-	F# 5	-
G# 1	-	G 5	-
A 1	-	G# 5	-
A# 1	-	A 5	-
B 1	-	A# 5	-
C 2	-	B 5	-
C# 2	-	C 6	-
D 2	-	C# 6	-
D# 2	-	D 6	-
E 2	-	D# 6	-
F 2	-	E 6	-
F# 2	-	F 6	-
G 2	-	F# 6	-
G# 2	-	G 6	-
A 2	-		
A# 2	-		
B 2	-		
C 3	Rooster		
C# 3	-		
D 3	Elephant		
D# 3	-		
E 3	Horse		
F 3	Cricket		
F# 3	-		
G 3	Cow		
G# 3	-		
A 3	Tiger		
A# 3	-		
B 3	Rattlesnake		

Drum Kit List (Standard Kit 1)

- To play the sounds in the lowest and highest octaves, set the M.Octave amount suitably (Functions 007; page 54).
- For drum kits other than Standard Kit 1, refer to “Drum Kit List” on the website (page 8).
- In the list, accidentals are marked with a sharp (#) on purpose. This is in accordance with notation in the documents published by MIDI-related industry organizations such as AMEI.

Key	Instrument
C# 0	Surdo Mute
D 0	Surdo Open
D# 0	Hi Q
E 0	Whip Slap
F 0	Scratch H
F# 0	Scratch L
G 0	Finger Snap
G# 0	Click Noise
A 0	Metronome Click
A# 0	Metronome Bell
B 0	Seq Click L
C 1	Seq Click H
C# 1	Brush Tap
D 1	Brush Swirl
D# 1	Brush Slap
E 1	Brush Tap Swirl
F 1	Snare Roll
F# 1	Castanet
G 1	Snare Soft
G# 1	Sticks
A 1	Bass Drum Soft
A# 1	Open Rim Shot
B 1	Bass Drum Hard
C 2	Bass Drum
C# 2	Side Stick
D 2	Snare
D# 2	Hand Clap
E 2	Snare Tight
F 2	Floor Tom L
F# 2	Hi-Hat Closed
G 2	Floor Tom H
G# 2	Hi-Hat Pedal
A 2	Low Tom
A# 2	Hi-Hat Open
B 2	Mid Tom L
C 3	Mid Tom H
C# 3	Crash Cymbal 1
D 3	High Tom
D# 3	Ride Cymbal 1
E 3	Chinese Cymbal
F 3	Ride Cymbal Cup
F# 3	Tambourine
G 3	Splash Cymbal
G# 3	Cowbell
A 3	Crash Cymbal 2
A# 3	Vibraslap
B 3	Ride Cymbal 2

Key	Instrument
C 4	Bongo H
C# 4	Bongo L
D 4	Conga H Mute
D# 4	Conga H Open
E 4	Conga L
F 4	Timbale H
F# 4	Timbale L
G 4	Agogo H
G# 4	Agogo L
A 4	Cabasa
A# 4	Maracas
B 4	Samba Whistle H
C 5	Samba Whistle L
C# 5	Guiro Short
D 5	Guiro Long
D# 5	Claves
E 5	Wood Block H
F 5	Wood Block L
F# 5	Cuica Mute
G 5	Cuica Open
G# 5	Triangle Mute
A 5	Triangle Open
A# 5	Shaker
B 5	Jingle Bells
C 6	Bell Tree
C# 6	-
D 6	-
D# 6	-
E 6	-
F 6	-
F# 6	-
G 6	-

Song List

Song No.	Song Name
DEMO	
001	Demo 1 (Yamaha Original)
002	Demo 2 (Yamaha Original)
003	Demo 3 (Yamaha Original)
RAGA SCALE	
004	Bilawal (Yamaha Original)
005	Khamaaj (Yamaha Original)
006	Bhairav (Yamaha Original)
007	Kalyan (Yamaha Original)
008	Asavari (Yamaha Original)
009	Kalyani (Yamaha Original)
010	Hamsadhvani (Yamaha Original)
011	Mohanam (Yamaha Original)
012	Hindolam (Yamaha Original)
013	Sankarabharanam (Yamaha Original)
LEARN TO PLAY	
014	Für Elise (Basic) (L. v. Beethoven)
015	Für Elise (Advanced) (L. v. Beethoven)
016	Twinkle Twinkle Little Star (Basic) (Traditional)
017	Twinkle Twinkle Little Star (Advanced) (Traditional)
018	Turkish March (Basic) (W. A. Mozart)
019	Turkish March (Advanced) (W. A. Mozart)
020	Ode to Joy (Basic) (L. v. Beethoven)
021	Ode to Joy (Advanced) (L. v. Beethoven)
022	The Entertainer (Basic) (S. Joplin)
023	The Entertainer (Advanced) (S. Joplin)
024	Londonderry Air (Basic) (Traditional)
025	Londonderry Air (Advanced) (Traditional)
026	The Last Rose of Summer (Basic) (Traditional)
027	The Last Rose of Summer (Advanced) (Traditional)
028	Amazing Grace (Basic) (Traditional)
029	Amazing Grace (Advanced) (Traditional)
FAVORITE	
030	Frère Jacques (Traditional)
031	Der Froschgesang (Traditional)
032	Aura Lee (Traditional)
033	London Bridge (Traditional)
034	Sur le pont d'Avignon (Traditional)
035	Nedelka (Traditional)
036	Aloha Oe (Q. Liliuokalani)
037	Sippin' Cider Through a Straw (Traditional)
038	Old Folks at Home (S. C. Foster)
039	Bury Me Not on the Lone Prairie (Traditional)
040	Old MacDonald Had a Farm (Traditional)
041	Santa Lucia (A. Longo)
042	If You're Happy and You Know It (Traditional)
043	Beautiful Dreamer (S. C. Foster)
044	Greensleeves (Traditional)
045	Kalinka (Traditional)
046	Holdilia Cook (Traditional)
047	Ring de Banjo (S. C. Foster)
048	Auld Lang Syne (Traditional)
049	Funiculi Funicula (L. Denza)
050	Largo (from the New World) (A. Dvořák)
051	Brahms' Lullaby (J. Brahms)
052	Liebesträume Nr.3 (F. Liszt)
053	Pomp and Circumstance (E. Elgar)
054	Chanson du Toreador (G. Bizet)
055	Jupiter, the Bringer of Jollity (G. Holst)
056	The Polovetsian Dances (A. Borodin)
057	Die Moldau (B. Smetana)
058	Salut d'Amour op.12 (E. Elgar)
059	Humoresques (A. Dvořák)
060	Symphony No.9 (from the New World - 4th movement) (A. Dvořák)
FAVORITE WITH STYLE	
061	O du lieber Augustin (Traditional)
062	Mary Had a Little Lamb (Traditional)
063	When Irish Eyes Are Smiling (E. R. Ball)

Song No.	Song Name
064	Little Brown Jug (Traditional)
065	Ten Little Indians (Traditional)
066	On Top of Old Smoky (Traditional)
067	My Darling Clementine (P. Montrose)
068	Oh! Susanna (S. C. Foster)
069	Red River Valley (Traditional)
070	Turkey in the Straw (Traditional)
071	Muffin Man (R. A. King)
072	Pop Goes the Weasel (Traditional)
073	Grandfather's Clock (H. C. Work)
074	Camptown Races (S. C. Foster)
075	When the Saints Go Marching In (Traditional)
076	Yankee Doodle (Traditional)
077	Battle Hymn of the Republic (Traditional)
078	I've Been Working on the Railroad (Traditional)
079	American Patrol (F. W. Meacham)
080	Down by the Riverside (Traditional)
INSTRUMENT MASTER	
081	Sicilienne/Fauré (G. Fauré)
082	Swan Lake (P. I. Tchaikovsky)
083	Grand March (Aida) (G. Verdi)
084	Serenade for Strings in C major, op.48 (P. I. Tchaikovsky)
085	Pizzicato Polka (J. Strauss II)
086	Romance de Amor (Traditional)
087	Menuett BWV Anh.114 (J. S. Bach)
088	Ave Verum Corpus (W. A. Mozart)
089	Radetzky Marsch (J. Strauss I)
PIANO REPERTOIRE	
090	Wenn ich ein Vöglein wär (Traditional)
091	Die Lorelei (F. Silcher)
092	Home Sweet Home (H. R. Bishop)
093	Scarborough Fair (Traditional)
094	My Old Kentucky Home (Traditional)
095	Loch Lomond (Traditional)
096	Silent Night (F. Gruber)
097	Deck the Halls (Traditional)
098	O Christmas Tree (Traditional)
099	Sonata Pathétique 2nd Adagio Cantabile (L. v. Beethoven)
100	Ave Maria/J. S. Bach - Gounod (J. S. Bach/C. F. Gounod)
101	Jesus bleibet meine Freude (J. S. Bach)
102	Prelude op.28-15 "Raindrop" (F. Chopin)
103	Nocturne op.9-2 (F. Chopin)
104	Etude op.10-3 "Chanson de l'adieu" (F. Chopin)
105	Romanze (Serenade K.525) (W. A. Mozart)
106	Arabesque (J. F. Burgmüller)
107	La Chévaleresque (J. F. Burgmüller)
108	Für Elise (L. v. Beethoven)
109	Turkish March (W. A. Mozart)
110	24 Preludes op.28-7 (F. Chopin)
111	Annie Laurie (Traditional)
112	Jeanie with the Light Brown Hair (S. C. Foster)

Song No.	Special Appendix
TOUCH TUTOR	
113-122	Touch Tutor 01-Touch Tutor 10
CHORD STUDY	
123-134	Chord Study 01-Chord Study 12
CHORD PROGRESSION	
135-164	Chord Progression 01-Chord Progression 30

• 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 internal songs (excepting Songs 1-3). To obtain this SONG BOOK, access the Yamaha website and download it from the product web page.

<https://www.yamaha.com>

Style/Riyaz List

Style List

Style No.	Style Name
INDIAN	
1	RamBhajan
2	Navtra
3	Rang
4	Patriotic
5	SandGroove
6	HouseTabla
7	Bollywood 1
8	Bollywood 2
9	Bollywood 3
10	Bollywood 4
11	HindiBallad
12	IndianWaltz
13	IndianDance 1
14	IndianDance 2
15	Tamil
16	Kerala
17	GoaGroove
18	Rajasthan
19	Dandiya
20	Garba
21	Bhangra 1
22	Bhangra 2
23	BaleBale
24	South
25	Bhajan 1
26	Bhajan 2
27	ModernQawwali
28	Qawwali
29	Gurbani
30	Prayer
POP & ROCK	
31	BritPopRock
32	8BeatModern
33	Cool8Beat
34	Happy8Beat
35	Shake8Beat
36	BoyBandPop
37	SweetPop
38	ContemporaryRock
39	StadiumRock
40	70sRock
41	HardRock 1
42	60sGuitarPop
43	8BeatAdria
44	60s8Beat
45	8Beat
46	OffBeat
47	Folkrock

Style No.	Style Name
48	60sRock
49	HardRock 2
50	RockShuffle
51	8BeatRock
52	16Beat
53	DancehallPop
54	CinematicPop
55	PopShuffle
56	GuitarPop
57	16BeatUptempo
58	KoolShuffle
59	HipHopLight
BALLAD	
60	70sGlamPiano
61	EpicDivaBallad
62	OrchestraRockBallad
63	PianoBallad
64	LoveSong
65	6/8ModernEP
66	6/8SlowRock
67	OrganBallad
68	PopBallad
69	16BeatBallad
DANCE	
70	ClubBeat
71	SkyPop
72	AgagBeat
73	Electronica
74	FunkyHouse
75	RetroClub
76	USHipHop
77	MellowHipHop
78	Chillout
79	EuroTrance
80	Ibiza
81	SwingHouse
82	Clubdance
83	ClubLatin
84	Garage 1
85	Garage 2
86	TechnoParty
87	UKPop
88	HipHopGroove
89	HipShuffle
90	HipHopPop
91	ModernDisco
92	70sDisco
93	LatinDisco
94	SaturdayNight

Style No.	Style Name
95	DiscoHands
SWING & JAZZ	
96	BigBandFast
97	BigBandBallad
98	AcousticJazz
99	AcidJazz
100	JazzClub
101	Swing 1
102	Swing 2
103	Five/Four
104	Dixieland
105	Ragtime
R&B	
106	BluesRock
107	UKSoul
108	JustR&B
109	WorshipAcoustic 1
110	WorshipAcoustic 2
111	WorshipRockBallad
112	Soul
113	DetroitPop
114	60sRock&Roll
115	6/8Soul
116	CrocoTwist
117	Rock&Roll
118	ComboBoogie
119	6/8Blues
COUNTRY	
120	CountryPop
121	CountrySwing
122	Country2/4
123	Bluegrass
LATIN	
124	BrazilianSamba
125	BrazilianBossa
126	Bachata
127	CubanSon
128	Guajira
129	BossaNova
130	Forro
131	Sertanejo 1
132	Sertanejo 2
133	Baião
134	TangoArgentino
135	CumbiaPeruana
136	CumbiaColombiana
137	Vallenato
138	Joropo
139	Parranda

Riyaz List

Style No.	Style Name
140	Merengue
141	ReggaetonPop
142	Reggaeton
143	Tijuana
144	PasoDuranguense
145	CumbiaGrupera
146	BaladaBanda
147	MexicanMambo
148	Mambo
149	Salsa
150	Beguine
151	Reggae
WORLD	
152	Hawaiian
153	CelticDance
154	ScottishReel
155	4/4Standart
156	Rumba2/4
157	Saeidy
158	WehdaSaghira
159	IranianElec
160	Emarati
161	AfricanGospelReggae
162	HighLife 1
163	AfricanGospel
164	Makossa
165	ModernAfrobeat
166	HighLife 2
167	OrganHighLife
168	IgboHighLife
169	SocaCalypso
170	Azonto
171	ModernDangdut 1
172	Keroncong
173	ModernDangdut 2
174	DangdutUmum
175	DangdutSlowLegend
176	Dangdut3/4
177	KoploRampak
178	LanggamModern
179	DangdutJawa
180	Congdut
181	VietnamesePopBallad
182	Vietnamese6/8Ballad
183	XiQingLuoGu
184	YiZuMinGe
185	JingJuJieZou
BALLROOM	
186	VienneseWaltz

Style No.	Style Name
187	EnglishWaltz
188	Slowfox
189	Foxtrot
190	Quickstep
191	Tango
192	Pasodoble
193	Samba
194	ChaChaCha
195	Rumba
196	Jive
TRADITIONAL	
197	US March
198	6/8March
199	GermanMarch
200	PolkaPop
201	OberkrainerPolka
202	Tarantella
203	Showtune
204	ChristmasSwing
205	ChristmasWaltz
WALTZ	
206	ItalianWaltz
207	SwingWaltz
208	JazzWaltz
209	ValsMexicano
210	CountryWaltz
211	OberkrainerWalzer
212	Musette
CHILDREN	
213	Learning2/4
214	Learning4/4
215	Learning6/8
PIANIST	
216	Stride
217	PianoSwing
218	PianoBoogie
219	Arpeggio
220	Habanera
221	SlowRock
222	8BeatPianoBallad
223	6/8PianoMarch
224	PianoWaltz

Riyaz No.	Riyaz Name
1	Teen Taal
2	Rupak Taal
3	Jhap Taal
4	EK Taal
5	Chau Taal
6	Chachar Taal
7	Adachau Taal
8	Deepchandi
9	Dadra
10	Keherwa
11	Tishram
12	Chatusram
13	Khandam
14	Mishram
15	Sankeernam

Music Database List

MDB No.	MDB Name
INDIAN MOVIE	
1	Vande
2	Holi Hai
3	Sukh ke
4	Meher
5	Shayad
6	Kadam
7	Anna
8	Dance Up
9	Nain Tkt
10	BaratYad
11	Nazr Ja
12	Soniya
13	Sapera
14	Asha
15	Ladki
16	Ho Kal
17	Pratna
18	Naata
19	Darmeya
20	Raate Ye
21	Dewana
22	NshaPhla
23	Raang
24	Akele
25	Mere Dil
26	Aaj Kal
27	Bade Dil
28	Nam Mera
29	Rani
30	Gale Se
31	NeelAmb
32	Sapne Ek
33	Sanm Tuj
34	Zulfo
35	Pop Jia
36	ShamMst
37	Mere Man
38	Kabhi
39	Chal
40	Tujhe
41	Chand
42	Janm
43	Raat Din
44	Subha
45	Tera Pyr
46	Mera Snm
47	Suun
48	Nain Kjr
49	Nachoo
50	Kya Khna

MDB No.	MDB Name
ALL TIME HITS	
51	Jude Hey
52	Jumping
53	WrldRock
54	All OK
55	YourTune
56	USA Surf
57	JustCall
58	Get Home
59	GtrWheel
60	IWasBorn
61	Sailing
62	BluJeans
63	Holiday
64	Imagine
65	Marriage
66	WiteShde
67	NowNever
68	Hard Day
69	USA Pie
70	Norway
71	YesterBd
72	A Magic
POP & ROCK	
73	UR Shape
74	Love Me
75	Ideal
76	SweetPop
77	Just Way
78	Speed
79	Cheerful
80	SwftShke
81	Watches
82	PrtTmLvr
83	S Party
84	MoonShdw
85	NikitSng
86	GirlsMne
87	Radio
88	Attempt
89	OnAStrng
90	WhatWant
91	ThankFor
92	Tmbourin
93	RubyGirl
94	TopWorld
95	TeachSng
96	Each Min
97	ShakenUp
98	CrocRock
99	HurryLov






















MDB No.	MDB Name
100	Champion
101	Jailhouse
102	Rock&Rll
103	HonkyTnk
104	JustU&Me
105	LveSmile
106	Wish I
BALLAD	
107	StayWith
108	DontMiss
109	HiBallad
110	Red Lady
111	IvoryAnd
112	TheWorld
113	Paradise
114	Whisper
115	Woman
116	CndleWnd
117	Fly Away
118	Love You
119	SavingAl
120	InTheDrk
121	Say You
122	Way Were
123	Inspiring
OLDIES	
124	Diana's
125	Tonight
126	SandLter
127	No Rain
128	Ghetto
129	PrettyWm
130	Sherry
131	Sally's
DANCE & DISCO	
132	SkyStars
133	Bad Love
134	PokerPop
135	FevrNite
136	StyAlive
137	Westerly
138	Run Free
139	DISCO
140	JoelLife
141	Coupled
142	SingBack
143	Janeiro
144	BoomRoom
145	DontHide
146	RewCraig
147	LondonRU

MDB No.	MDB Name
148	WerUBeen
149	MkeMusic
150	10,2 Sun
151	Trust
152	MarieCib
SWING & JAZZ	
153	Moon Of
154	Patrol
155	Rhythm
156	CatSwing
157	Misbehav
158	Safari
159	SoWhatts
160	TimeGone
161	TasteHny
162	Two Foot
163	Blk&White
164	EnterRag
165	TakeFour
166	Birdland
167	MistyFln
COUNTRY	
168	OnTheRd
169	BlueSong
170	InMyMind
171	RoadHome
172	GreenGrns
173	EverNeed
174	Lucille
175	Tennesse
LATIN	
176	LoveAmor
177	Brasil
178	ChryPink
179	MyShadow
180	BosaWave
181	DntWorry
182	I'm Pola
183	Mambo Jm
184	One Note
185	PasoCani
186	Beguine
187	Tijuana
188	Puntuali
189	Cielito
190	The Liar
191	Unfrgivn
ENTERTAINMENT	
192	Raindrop
193	Califrag
194	CatMemry

MDB No.	MDB Name
195	MyPrince
196	Showbiz
197	JinglBel
198	SilentNt
199	Christms
200	Favorite
201	RedRdolf
202	Moon Wiz
203	AroundWd
WALTZ & TRAD	
204	DadClock
205	RockBaby
206	SomeLara
207	Doodah!
208	Dreamer
209	Birthday
210	Sunshine
211	Tex Rose
212	ThePolka
213	Yankee's
214	DanubeWz
215	D'amor
216	Reine de
217	MnchHaus
218	Comrades
219	Van Maas
220	ClariPka

Effect Type List

Harmony Types

No.	Harmony Type	Description	
001	Duet	<p>If you want to sound one of the harmony types 01–05, play keys to the right side of the Split Point while playing chords in the left side of the keyboard after turning Auto Accompaniment on. One, two or three notes of harmony are automatically added to the note you play. When playing back a Song that includes chord data, harmony is applied whichever keys are played.</p>	
002	Trio		
003	Block		
004	Country		
005	Octave		
006	Trill 1/4 note		<p>If you keep holding down two different notes, the notes alternate (in a trill) continuously. (The trill speed differs depending on the selected type.)</p>
007	Trill 1/6 note		
008	Trill 1/8 note		
009	Trill 1/12 note		
010	Trill 1/16 note		
011	Trill 1/24 note		
012	Trill 1/32 note		<p>If you keep holding down a note, the note is repeated continuously. (The repeat speed differs depending on the selected type.)</p>
013	Tremolo 1/4 note		
014	Tremolo 1/6 note		
015	Tremolo 1/8 note		
016	Tremolo 1/12 note		
017	Tremolo 1/16 note		
018	Tremolo 1/24 note		
019	Tremolo 1/32 note		<p>If you play a note, echo is applied to the note played. (The echo speed differs depending on the selected type.)</p>
020	Echo 1/4 note		
021	Echo 1/6 note		
022	Echo 1/8 note		
023	Echo 1/12 note		
024	Echo 1/16 note		
025	Echo 1/24 note		
026	Echo 1/32 note		

Arpeggio Types

Arpeggio No.	Arpeggio Name
027	UpOct
028	DownOct
029	UpDwnOct
030	SynArp1
031	SynArp2
032	SynArp3
033	SynArp4
034	SyncEcho
035	PulsLine
036	StepLine
037	Random
038	Down&Up
039	SuperArp
040	AcidLine
041	TekEcho
042	VelGruv
043	Planet
044	Trance1
045	Trance2
046	Trance3
047	ChordAlt
048	SynChrd1
049	SynChrd2
050	Syncopa
051	Hybrid1
052	Hybrid2
053	Hybrid3
054	Hybrid4
055	Hybrid5
056	PfArp1
057	PfArp2
058	PfArp3
059	PfArp4
060	PfClub1
061	PfClub2
062	PfBallad
063	PfChd8th
064	EPArp
065	PfShuffle
066	PfRock
067	Clavi1
068	Clavi2
069	RocknPf
070	70RockPf
071	SlowflPf
072	SoulPf
073	ChordUp
074	ChdDance
075	LatinRck
076	Salsa1
077	Salsa2
078	Reggae1
079	Reggae2
080	Reggae3
081	6/8R&B
082	Gospel
083	BalladEP
084	Strum1
085	Strum2
086	Strum3

Arpeggio No.	Arpeggio Name
087	Strum4
088	Pickin1
089	Pickin2
090	Funky
091	GtrChrd1
092	GtrChrd2
093	GtrChrd3
094	GtrArp
095	FngrPck1
096	FngrPck2
097	CleanGtr
098	Slowfl
099	Samba1
100	Samba2
101	Spanish1
102	Spanish2
103	Harp1
104	Harp2
105	FngrBas1
106	FngrBas2
107	FngrBas3
108	CoolFunk
109	SlapBass
110	AcidBas1
111	AcidBas2
112	FunkyBas
113	CmbJazB1
114	CmbJazB2
115	CmbJazB3
116	NewR&BBs
117	HipHopBs
118	SmoothBs
119	DreamBas
120	TranceBs
121	LatinBas
122	Strings1
123	Strings2
124	Strings3
125	Strings4
126	StrngDwn
127	StrngUp
128	OrcheStr
129	Jupiter
130	Pizz1
131	Pizz2
132	BrasSec1
133	BrasSec2
134	BrasSec3
135	FunkBras
136	SoulReed
137	DiscoLd
138	SmoothPd
139	PercArp
140	Trill
141	Cresendo
142	DiscoCP
143	Perc1
144	Perc2
145	R&B
146	Funk1

Arpeggio No.	Arpeggio Name
147	Funk2
148	Funk3
149	Soul
150	ClscHip
151	Smooth
152	NewGospl
153	CmbJazz1
154	CmbJazz2
155	Bebop
156	JazzHop
157	FolkRock
158	Unpluggd
159	HipHop
160	Trance
161	Dream
162	2 Step
163	ClubHs1
164	ClubHs2
165	EuroTek
166	House
167	Ibiza1
168	Ibiza2
169	Ibiza3
170	Garage
171	Samba
172	African
173	Latin
174	China
175	Indian
176	Arabic
177	TeenTalC
178	TeenTalD
179	TeenTalE
180	TeenTalF
181	TeenTalG
182	TeenTalA
183	Dadra C
184	Dadra D
185	Dadra E
186	Dadra F
187	Dadra G
188	Dadra A

* When playing one of the Arpeggio Types 143 to 188, select the corresponding Voice below as the Main Voice.

143–173: Select a Drum Kit (Voice No.260–270).

174 (China): Select "StdKit1 + Chinese Perc." (Voice No.271).

175 (Indian): Select "Indian Kit 1" (Voice No.27) or "Indian Kit 2" (Voice No.28).

176 (Arabic): Select "Arabic Kit" (Voice No.275).

177–188: Select "Tabla Kit 1" (Voice No.25) or "Tabla Kit 2" (Voice No.26).

Reverb Types

No.	Reverb Type	Description
01–04	Hall 1–4	Concert hall reverb.
05	Cathedral	Rich reverb simulating the acoustics of a cathedral. Good for pipe organ sounds.
06–08	Room 1–3	Small room reverb.
09–10	Stage 1–2	Reverb for solo instruments.
11–12	Plate 1–2	Simulated steel plate reverb.
13	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

- Some Styles/Songs may have types that are not listed above.
- The Reverb/Chorus Type is reset when you select another Style/Song.

DSP Types

No.	DSP Type	Description
01	Dual Rotary Speaker Bright Slow	Simulates a rotary speaker.
02	Dual Rotary Speaker Bright Fast	
03	Rotary Speaker Slow	
04	Rotary Speaker Fast	
05	Small Stereo Distortion	Stereo distortion for guitar. Setting for distortion sound.
06	Small Stereo Overdrive	Stereo distortion for guitar. Setting for overdrive sound.
07	Small Stereo Vintage Amp	Stereo distortion for guitar. Setting for vintage sound.
08	British Combo Classic	British combo amp simulator. Setting for classic sound.
09	British Combo Top Boost	British combo amp simulator. Setting for "TOP BOOST" sound.
10	British Combo Heavy	British combo amp simulator. Setting for heavy sound.
11	British Legend Blues	British stack amp simulator. Setting for blues sound.
12	British Legend Heavy	British stack amp simulator. Setting for heavy sound.
13	British Legend Clean	British stack amp simulator. Setting for clean sound.
14	Stereo Amp Sim Crunch	Stereo amp simulator.
15	Stereo Amp Sim Blues	
16	Chorus 1	Conventional chorus program with rich, warm chorusing.
17	Chorus 3	
18	Chorus 4	
19	Chorus 5	
20	Celeste 2	
21	Symphonic	Adds more stages to the modulation of Celeste.
22	Flanger 1	Creates a sound similar to that of a jet airplane.
23	Vintage Phaser Stereo	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in stereo.
24	Phaser	Cyclically modulates the phase to add modulation to the sound.
25	E. Piano Phaser	Cyclically modulates the phase to add modulation to the sound. For electric piano.
26	Auto Wah	Cyclically modulates the center frequency of a wah filter.
27	Auto Wah + Distortion	Distortion can be applied to the output of Auto Wah.
28	Clavi Touch Wah	Clavinet Touch Wah
29	Tremolo	Rich Tremolo effect with both volume and pitch modulation.
30	E. Piano Tremolo	
31	Guitar Tremolo	
32	Ensemble Detune	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.

No.	DSP Type	Description
33	Tempo Auto Pan	Tempo-synchronized auto pan.
34	Echo	Two delayed sounds (L and R), and independent feedback delays for L and R.
35	Cross Delay	The feedback of the two delayed sounds is crossed.
36	Compressor Medium	Compressor with medium setting.
37	3Band EQ	A mono EQ with adjustable LOW, MID, and HIGH equalization.
38	Harmonic Enhancer	Adds new harmonics to the input signal to make the sound stand out.

Specifications

Product Name		Digital Keyboard	
Size/Weight	Dimensions (W x D x H)		945 mm x 369 mm x 118 mm (37-3/16" x 14-1/2" x 4-5/8")
	Weight		4.6 kg (10 lb 2 oz) (not including batteries)
Control Interface	Keyboard	Number of Keys	61
		Touch Response	Soft, Medium, Hard, Fixed
	Other Controllers	Pitch Bend Wheel	Yes
		Articulation Switches	Yes
	Display	Type	LCD
		Language	English
Panel	Language	English	
Voices	Tone Generation	Tone Generation Technology	AWM Stereo Sampling
	Polyphony (max.)		48
	Preset	Number of Voices	644 (250 Panel Voices + 29 Drum/SFX kits + 20 Arpeggio + 345 XGlite Voices)
		Featured Voices	15 Super Articulation lite Voices, 6 Sweet! Voices, 6 Cool! Voices, 3 Live! Voices
	Compatibility		GM/XGlite
Effects	Types	Reverb	12 types
		Chorus	5 types
		DSP	38 types
		Master EQ	6 types
	Functions	Panel Sustain	Yes
	Melody Suppressor	Yes	
Accompaniment Styles	Preset	Number of Styles	224
		Fingering	Smart Chord, Multi finger
		Style Control	ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL
	External Styles		10
	Other Features	Music Database	220
		One Touch Setting (OTS)	Yes
Compatibility		Style File Format (SFF)	
Riyaz Lite	Preset	Number of Riyaz Lites	15
		Number of Sections	3
Songs (MIDI)	Preset	Number of Preset Songs	164
		Number of Songs	5
	Recording	Number of Tracks	2
		Data Capacity	Approx. 10,000 notes
	Format	Playback	SMF Formats 0 & 1
		Recording	Original File Format
Functions	Voices	Dual	Yes
		Split	Yes
		Duo	Yes
		Harmony	26 types
		Arpeggio	162 types
	Registration Memory	Number of Buttons	9
		Control	Freeze
	Lesson	KEYS TO SUCCESS, Lesson 1–3 (Listening, Timing, Waiting), Phrase Repeat, A-B Repeat, Chord Dictionary, Touch Tutor, Chord Study, Chord Progression	
	Demo		Yes
	Overall Controls	Metronome	Yes
		Tempo Range	11–280
		Transpose	-12 to 0, 0 to +12
		Tuning	427.0–440.0–453.0 Hz (approx. 0.2 Hz increments)
Miscellaneous	USB audio interface	44.1 kHz, 16 bit, stereo	
	PIANO Button		Yes (HARMONIUM/PIANO Button)
	Storage		Internal Memory
Storage and Connectivity	Connectivity	DC IN	12 V
		Headphones/Output	Standard stereo phone jack (PHONES/OUTPUT)
		Sustain Pedal	Yes
		AUX IN	Stereo mini jack
		USB TO HOST	Yes
Sound System	Amplifiers	2.5 W + 2.5 W	
	Speakers	12 cm x 2	

Power Supply	Power Supply	AC Adaptor	PA-130 or an equivalent recommended by Yamaha
		Batteries	Six 1.5 V "AA" size alkaline (LR6), manganese (R6) or six 1.2 V "AA" size Ni-MH rechargeable batteries (HR6)
	Power Consumption		5 W (When using PA-130 AC adaptor)
	Auto Power Off		Yes
Included Accessories			<ul style="list-style-type: none"> • Music rest • Owner's Manual • AC adaptor *1 (PA-130 or an equivalent recommended by Yamaha) • Online Member Product Registration <p>*1: May not be included depending on your particular area. Please check with your Yamaha dealer.</p>
Separately Sold Accessories (May not be available depending on your area.)			<ul style="list-style-type: none"> • AC adaptor: PA-130 or an equivalent recommended by Yamaha • Keyboard stand: L-2C • Headphones: HPH-50/HPH-100/HPH-150 • Footswitch: FC4A/FC5 • Wireless MIDI adaptor: UD-BT01

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



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.
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.

Cd

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.



**Important Notice:
U.S. LIMITED WARRANTY for Customers in the United States**

For detailed information about this Yamaha product and warranty service, please either visit the following website address (printable file is available at our website) or contact Customer Service at the address or telephone number identified below.

Website Address:

Yamaha.io/[pkbwarranty](https://www.yamaha.io/pkbwarranty)

Customer Service:

Yamaha Corporation of America
6600 Orangethorpe Avenue, Buena Park, CA 90620-1273
Telephone: 800-854-1569

Important Notice: Guarantee Informatic Area (EEA) and Switzerland

<p>Important Notice: Guarantee Information for customers in EEA* and Switzerland For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area</p>	<p>English</p>
<p>Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz Für nähere Garantie-Information über dieses Produkt (von Yamaha, sowie über den Pan-EMR* und Schweizer Garantieservice, besuchen Sie bitte entweder die folgende angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Website), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum</p>	<p>Deutsch</p>
<p>Remarque importante: Informations de garantie pour les clients de l'EEE* et la Suisse Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE* ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement l'adresse Yamaha dans votre pays de résidence. * EEE: Espace Economique Européen</p>	<p>Français</p>
<p>Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vindt een afdrukbare versie op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europees Economisch Ruimte</p>	<p>Nederlands</p>
<p>Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la versión del archivo para imprimir está disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo</p>	<p>Español</p>
<p>Aviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera Sui informazioni dettagliate sulle garanzie relative a questo prodotto Yamaha e l'assistenza in garanzia nel paese EEA*, le in Svizzera, visitate il sito Web all'indirizzo Internet che è fornito di seguito (il file in formato stampabile) oppure contattate l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea</p>	<p>Italiano</p>
<p>Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Económica Europeia</p>	<p>Português</p>
<p>Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία Για λεπτομέρειες πληροφοριών εγγύησης σχετικά με το προϊόν Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ* και την Ελβετία, επισκεφτείτε την τοποθεσία ιστοσελίδας (Εκτυπωτικό αρχείο είναι διαθέσιμο στην ιστοσελίδα μας) ή επικοινωνήστε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκό Οικονομικό Χώρος</p>	<p>Ελληνικά</p>
<p>Viktig: Garantiinformasjon for kunder i EES-området* och Schweiz För detaljerad garantiinformation om detta Yamaha-produktet, gå till webbplatsen i hela EES-området* och Schweiz, kan du antingen besöka näringslivet webbplatsadress (en utskriftsfärdig fil är tillgänglig på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet</p>	<p>Svenska</p>
<p>Viktig merknad: Garantinformasjon for kunder i EØS* og Sveits Detaljeret garantiinformasjon om dette Yamaha-produktet og garantieservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettstedressen nedenfor (utskriftsferdig filmes på våre nettsider) eller kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet</p>	<p>Norsk</p>
<p>Viktig oplysning: Garantiplysninger til kunder i EØO* og Schweiz De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den trælles garantieserviceordning for EØO* (og Schweiz) ved at besøge det website, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores website), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område</p>	<p>Dansk</p>

<p>Tärkeä ilmoitus: Taku tiedot Euroopan talousalueen (ETA*) ja Sveitsin asiakkaille Tämän Yamaha-tuotteen osalta ETA-talouden ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta netti-sivostuksesta. (Uusittavissa oleva saatavissa sivustollamme.) Olette myös otaita yhteyttä paikalliseen Yamaha-edustajaan. ETA: Euroopan talousalue</p>	<p>Suomi</p>
<p>Ważne wiadomości: Informacje o gwarancjach i obsłudze klienta Aby dowiedzieć się więcej na temat warunków gwarancji, tego produktu, firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy</p>	<p>Polski</p>
<p>Důležité oznámení: Zásady informací pro zákazníky v EHS* a ve Švýcarsku Podrobné zásady informací o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (souhrn k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor</p>	<p>Česky</p>
<p>Fotos foglalmazás: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garancia- és szolgáltatás feltételeiről kérem, látogasson meg az alábbi címet (a nyomtatni formátumban is talál), vagy pedig feljelen lépjen kapcsolatba az országában működő Yamaha képviselőivel. EGT: Európai Gazdasági Terület</p>	<p>Magyar</p>
<p>Öluline märkuse: Garantiteave Euroopa Majanduspiirkonna (EMP) ja Šveitsi Klientidele Täpsemat teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiteavete kohta küsitage palun veebisiti alljärgnevat aadressist (meie saidil on saadaval printida fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond</p>	<p>Eesti keel</p>
<p>Svarige paziņojums: garantijas informācija klientiem EEZ* un Šveicā Lai saņemtu detaļāku garantijas informāciju par šo Yamaha produktu, ka arī garantijas aplikāšanu EEZ* un Šveicā, lūdzim, apmeklējot zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazināties ar Jūsu valsti aplikājošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona</p>	<p>Latviešu</p>
<p>Dinamo: informacija det garantijos priekšams EEZ* ir Šveicarijā Ja raksta ielasim informāciju apie šī "Yamaha" produktu ir jo tehninie priēziur visoje EEZ* ir Šveicarijā, apšakiykite mūsū šveicarije lidojot mūsūdu adresi (visuamimais failis) arā krepšētas ("Yamaha" atskrypē sarā šai), vaiy pēdij tēlpien EEZ* ir Šveicarije ekonomiskā zona</p>	<p>Lietuvių kalba</p>
<p>Dôležité upozomenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku Podrobné informácie o záruke týkajúcej sa tohto produktu od spoločnosti Yamaha a garancijnom 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</p>	<p>Slovenčina</p>
<p>Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP* in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor</p>	<p>Slovensščina</p>
<p>Важно съобщение: Информация за гаранцията за купувачи в ЕИП* и Швейцария За подробни данни за гаранцията за това произведение Yamaha и за условията на гаранционния сервиз в цялата ЕИП* и Швейцария, посетете адрес, който е посочен по-долу (вече готов за принтане файл е наличен на нашата уеб-страница) или се свържете с местния представител на Yamaha във вашата страна. * ЕИП: Европейска икономическа зона</p>	<p>Български език</p>
<p>Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția 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</p>	<p>Limba română</p>
<p>Vážna obavěstie: Informácie o jarnstvu za države EGP-a i Švicarske Za podrobnejšie informácie o tomto Yamahinem výrobku ter garancijnom servisu v celom EGP* in Švicarsku, modimo Vas da 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</p>	<p>Hrvatski</p>

<https://europe.yamaha.com/warranty/>

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

NORTH AMERICA

CANADA

Yamaha Canada Music Ltd.
135 Milner Avenue, Toronto, Ontario M1S 3R1,
Canada
Tel: +1-416-298-1111

U.S.A.

Yamaha Corporation of America
6600 Orangethorpe Avenue, Buena Park, CA 90620,
U.S.A.
Tel: +1-714-522-9011

CENTRAL & SOUTH AMERICA

MEXICO

Yamaha de México, S.A. de C.V.
Av. Insurgentes Sur 1647 Piso 9, Col. San José
Insurgentes, Delegación Benito Juárez, CDMX,
C. P. 03900, México
Tel: +52-55-5804-0600

BRAZIL

Yamaha Musical do Brasil Ltd.
Praça Professor José Lannes, 40-Cjs 21 e 22, Brooklin
Paulista Novo CEP 04571-100 – São Paulo – SP,
Brazil
Tel: +55-11-3704-1377

ARGENTINA

**Yamaha Music Latin America, S.A.,
Sucursal Argentina**
Olga Cossettini 1553, Piso 4 Norte,
Madero Este-C1107CEK,
Buenos Aires, Argentina
Tel: +54-11-4119-7000

PANAMA AND OTHER LATIN

AMERICAN REGIONS/ CARIBBEAN REGIONS

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Edificio Torre Davivienda, Piso: 20
Avenida Balboa, Marbella, Corregimiento de Bella
Vista, Ciudad de Panamá, Rep. de Panamá
Tel: +507-269-5311

EUROPE

THE UNITED KINGDOM/IRELAND

Yamaha Music Europe GmbH (UK)
Sherbourne Drive, Tilbrook, Milton Keynes,
MK7 8BL, U.K.
Tel: +44-1908-366700

GERMANY

Yamaha Music Europe GmbH
Siemensstrasse 22-34, 25462 Rellingen, Germany
Tel: +49-4101-303-0

SWITZERLAND/LIECHTENSTEIN

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Seestrasse 18a, 8800 Thalwil, Switzerland
Tel: +41-44-3878080

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1528 Sofia, Bulgaria
Tel: +359-2-978-20-25

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Filial of Yamaha Music Europe GmbH, Tyskland**
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ASIA

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Yamaha Music Center Bldg. Jalan Jend. Gatot
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OTHER ASIAN REGIONS

[https://asia-latinamerica-mea.yamaha.com/
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OCEANIA

AUSTRALIA

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[https://asia-latinamerica-mea.yamaha.com/
index.html](https://asia-latinamerica-mea.yamaha.com/index.html)

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Importer (United Kingdom): Yamaha Music Europe GmbH (UK) Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, United Kingdom

DMI30

Memo

Memo

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