



DIGITAL KEYBOARD

*PSR*-**E263**

**YPT-260**

Setting Up

Reference

Appendix

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

Owner's Manual

EN

## SPECIAL MESSAGE SECTION

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

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

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

### **SPECIFICATIONS SUBJECT TO CHANGE:**

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

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

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

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

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

### **NOTICE:**

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

### **ENVIRONMENTAL ISSUES:**

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

### **Battery Notice:**

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

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

When installing batteries, never mix old batteries with new ones, and never mix different types of batteries. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

### **Warning:**

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

### **Disposal Notice:**

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

### **NAME PLATE LOCATION:**

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

**Model**

---

**Serial No.**

---

**Purchase Date**

---

## PLEASE KEEP THIS MANUAL

### FCC INFORMATION (U.S.A.)

**1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

**2. IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**3. NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee

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

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

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

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

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

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

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

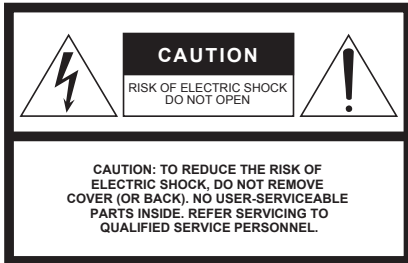
(class B)

## For AC adaptor

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

- This applies only to products distributed by Yamaha Canada Music Ltd.
- Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée. (can\_b\_01)



### Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

# IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



### WARNING

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

(UL60065\_03)

# PRECAUTIONS

## PLEASE READ CAREFULLY BEFORE PROCEEDING

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

### For AC adaptor



#### WARNING

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



#### CAUTION

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

### For this instrument



#### WARNING

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

#### Power supply/AC adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 44) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

#### Do not open

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

#### Water warning

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

#### Fire warning

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

#### Battery

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

- Do not attempt to recharge batteries that are not designed to be charged.
- Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
- Use the specified battery type (page 44) only.
- Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
- Always make sure all batteries are inserted in conformity with the +/- polarity markings.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
- When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

### If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. (If you are using batteries, remove all batteries from the instrument.) Then have the device inspected by Yamaha service personnel.
  - The power cord or plug becomes frayed or damaged.
  - It emits unusual smells or smoke.
  - Some object has been dropped into the instrument.
  - There is a sudden loss of sound during use of the instrument.



## CAUTION

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

### Power supply/AC adaptor

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

### Location

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

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

### Connections

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

### Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

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

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

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

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

Make sure to discard used batteries according to local regulations.

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.**

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(bottom\_en\_01)

## **NOTICE**

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

### ■ **Handling**

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

### ■ **Maintenance**

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

### ■ **Saving data**

- Some of the data of this instrument (page 33) are retained when the power is turned off. However, the saved data may be lost due to some failure, an operation mistake, etc.

## **Information**

### ■ **About copyrights**

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

### ■ **About functions/data bundled with the instrument**

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

### ■ **About this manual**

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

**Thank you for purchasing this Yamaha Digital Keyboard!**

**We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the instrument.**

**We also recommend that you keep this manual in a safe and handy place for future reference.**

## About the Manuals

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In addition to this Owner's Manual, the following online document (PDF file) is available.



### **Song Book (only in English, French, German and Spanish)**

Contains music scores for the preset Songs (excluding the Demo Songs) of this instrument. After completing the user registration at the website below, you can download this Song Book free of charge.

#### **Yamaha Online Member**

<https://member.yamaha.com/myproduct/regist/>

You will need the PRODUCT ID on the sheet ("Online Member Product Registration") packaged with this manual in order to fill out the User Registration form.

## Included Accessories

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- Owner's Manual (this book)
- AC adaptor\*<sup>1</sup>
- Music rest
- Online Member Product Registration\*<sup>2</sup>

\*1: May not be included depending on your area. Check with your Yamaha dealer.

\*2: The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.



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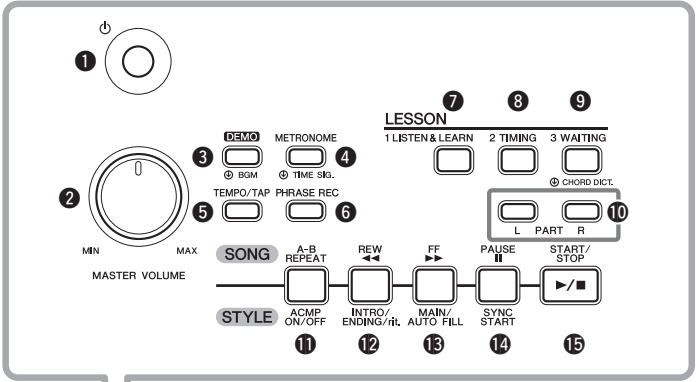
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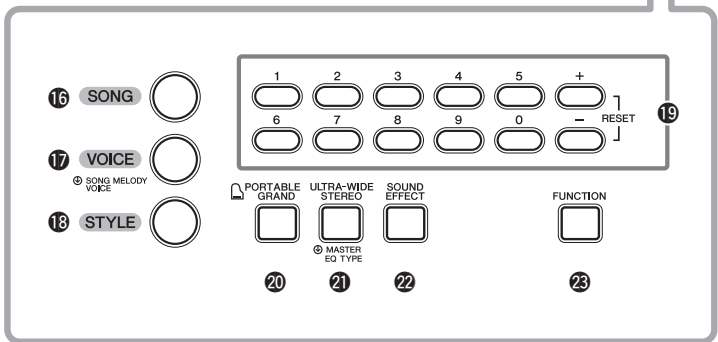
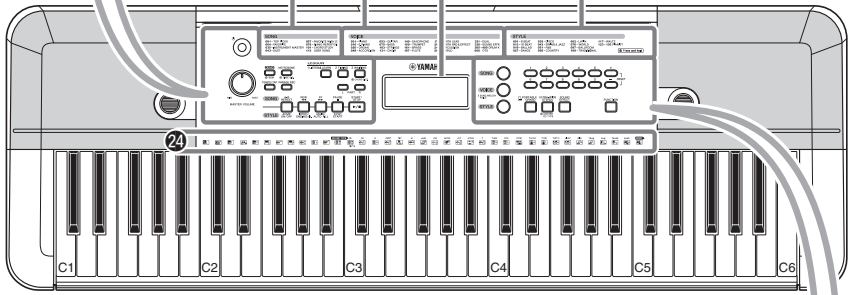
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# Panel Controls and Terminals

## Front Panel



**Song List** (page 41)      **Voice List** (page 35)      **Display** (page 15)      **Style List** (page 42)



- ❶ [⏻] (Standby/On) switch ..... page 13
- ❷ [MASTER VOLUME] dial ..... page 14
- ❸ [DEMO] button ..... page 23
- ❹ [METRONOME] button ..... page 17
- ❺ [TEMPO/TAP] button ..... page 19
- ❻ [PHRASE REC] button ..... page 29
- ❼ [1 LISTEN & LEARN] button ..... page 27
- ❽ [2 TIMING] button ..... page 27
- ❾ [3 WAITING] button ..... page 27
- ❿ **PART**
  - [L] button ..... page 27
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**In the Song mode**

- ❶ [A-B REPEAT] button ..... page 24
- ❷ [REW] button ..... page 24
- ❸ [FF] button ..... page 24
- ❹ [PAUSE] button ..... page 24

**In the Style mode**

- ❶ [ACMP ON/OFF] button ..... page 18
- ❷ [INTRO/ENDING/rit.] button ..... page 19
- ❸ [MAIN/AUTO FILL] button ..... page 19
- ❹ [SYNC START] button ..... page 18


- ❺ [START/STOP] button ..... page 23
- ❻ [SONG] button ..... page 23
- ❼ [VOICE] button ..... page 16
- ❽ [STYLE] button ..... page 18
- ❾ Number buttons [0]–[9], [+], [-] ..... page 15
- ❿ [PORTABLE GRAND] button ..... page 16
- ⓫ [ULTRA-WIDE STEREO] button ..... page 17
- ⓬ [SOUND EFFECT] button ..... page 16
- ⓭ [FUNCTION] button ..... page 31
- ⓮ **Drum illustrations for the Drum Kit** ..... page 16

Each of these indicates the drum or percussion instrument assigned to the corresponding key for "Standard Kit 1."

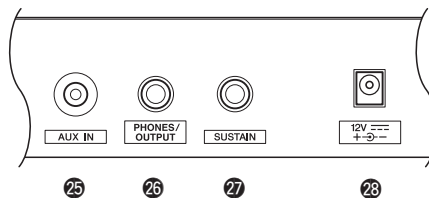
**Keyboard**

Since this keyboard does not have touch response, the level of the sound does not change in response to your playing strength. Therefore, your performance may not sound correctly as in the preset Songs.

**The "Press & 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.

**Rear Panel**



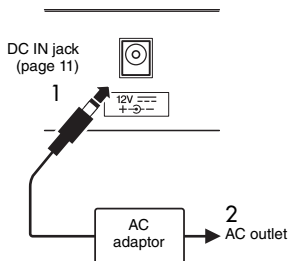
- ❶ [AUX IN] jack ..... page 28
- ❷ [PHONES/OUTPUT] jack ..... page 14
- ❸ [SUSTAIN] jack ..... page 14
- ❹ DC IN jack ..... page 12

## 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.

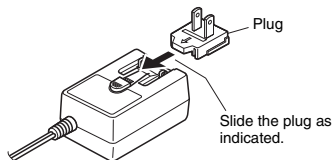


#### WARNING

- Use the specified AC adaptor (page 44) 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.



The shape of the plug differs depending on your area.

#### 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.

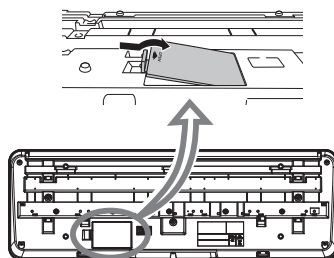
## Using Batteries

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.

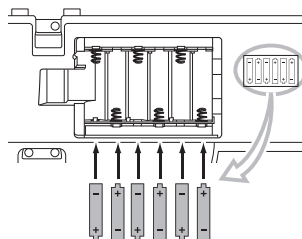
#### WARNING

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

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



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



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

#### NOTICE

- Connecting or disconnecting the power adaptor with batteries installed may turn the power off, resulting in loss of data being recorded at the time.
- Make sure to set the battery type correctly (page 13).
- When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries with new ones or already recharged ones.

**NOTE**

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

**■ Setting the battery type**

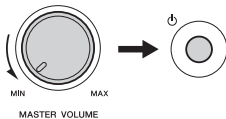
Depending on the battery type to be used, you may need to change the battery type setting on this instrument. Alkaline (and manganese) batteries are chosen by default. After installing new batteries and turning the power on, make sure to set the Battery Type appropriately (rechargeable or not) via Function number 022 (page 32).

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

**■ To set the time that elapses before Auto Power Off is executed:**

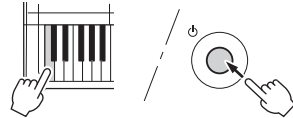
Press the [FUNCTION] button several times until "AutoOff" (Function 021; page 32) appears, then use the [+] or [-] button to select the desired value.

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

**Default value:** 30 (minutes)

**■ To disable the Auto Power Off function:**

Turn the power on while holding down the lowest key on the keyboard. A message "oFF AutoOff" appears briefly, then the instrument starts up with the Auto Power Off function disabled. The Auto Power Off function also can be disabled by selecting Off in Function number 021 (page 32).

**NOTICE**

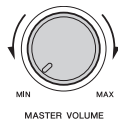
- Depending on the instrument status, the power may not turn off automatically, even after the elapse of the specified period of time. Always turn off the power manually when the instrument is not in use.
- When the instrument is not operated for a specified period of time while connected to an external device such as an amplifier, speaker or computer, make sure to follow the instructions in the Owner's Manual to turn off the power to the instrument and the connected devices, in order to protect the devices from damage. If you do not want the power to turn off automatically when a device is connected, disable Auto Power Off.

**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 33.

## Adjusting the Master Volume

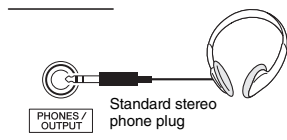
To adjust the volume of the entire keyboard sound, use the [MASTER VOLUME] dial while playing the keyboard.



### 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 Speaker



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

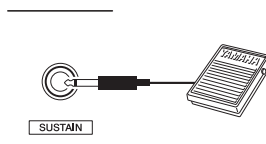
### CAUTION

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

### NOTICE

- To avoid possible damage to the external device, first turn on the power to the instrument, then to the external device. When turning off the power, do so in reverse order: first turn off the power to the external device, then to the instrument.

## Using a Pedal (Sustain)



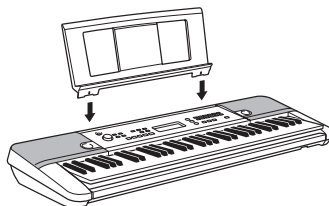
You can produce a natural sustain as you play by pressing a footswitch (FC5 or FC4A; sold separately) plugged into the [SUSTAIN] jack.

### NOTE

- Plug or unplug the footswitch while the power is off. Also, do not press the footswitch when turning the power on. Doing so changes the polarity of the footswitch, resulting in reversed operation.
- The sustain function does not affect style (automatic accompaniment; page 18).

## Using the music rest

Insert the music rest into the slots as shown.



# Display Items and Basic Operations

## Display Items

### Notation

Normally this indicates the notes you play. When the Song Lesson function is used, this indicates the current notes and chord of playback. When the Dictionary function (page 21) is used, this indicates the notes of the chord you specify.

#### NOTE

- Any notes occurring below or above the staff are indicated by "8va."
- For a few specific chords, not all notes may be shown, due to space limitations in the display.

### Song/Voice/Style

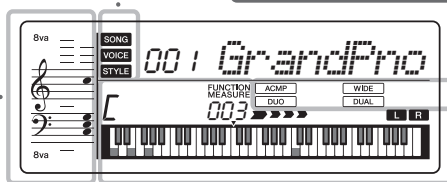
These indicate the operating condition of the instrument.

SONG  
VOICE  
STYLE

### On/Off status

Each indication is shown when the corresponding function is turned on.

- WIDE** ... Ultra-Wide Stereo (page 17)
- ACMP** ... Auto Accompaniment (page 18)
- DUAL** ... Indicates that a Dual Voice (No.321–335) is selected.
- DUO** ... Duo (page 22)



### Chord

Indicates the chord which is played on the Auto Accompaniment range (page 18) of the keyboard, or specified via Song playback.



### Measure or Function

Normally indicates the current measure number of current Style or Song. When the [FUNCTION] button (page 31) is in use, this indicates the Function number.

MEASURE FUNCTION  
003 022

### Keyboard Display

Indicates notes currently being played. Indicates the melody and chord notes of a Song when the Song lesson function is in use. Also indicates the notes of a chord—either when playing a chord or when using the Dictionary function (page 21).



### Song Track status

Indicates the on/off status of Song playback or target Track of Song recording (page 25).



- R** Lit: Track contains data
- R** Unlit: Track is muted or contains no data

### Beat

Indicates the current beat of playback.



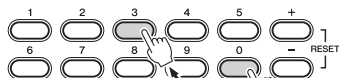
## Basic Operations

Before operating the instrument, it may be helpful to familiarize yourself with the basic controls below that are used to select items and change values.

### ■ 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.

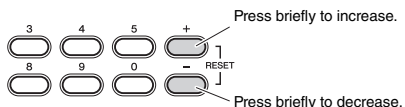
**Example: Selecting Voice 003, Bright Piano.**



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

### ■ [-] and [+] buttons

Press the [+] button briefly to increase the value by 1, or press the [-] button briefly to decrease the value by 1. Press and hold either button to continuously increase or decrease the value in the corresponding direction.



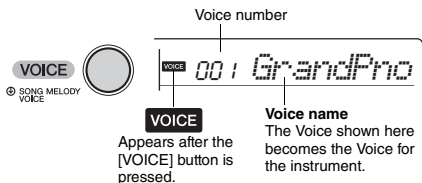
# Playing a Variety of Instrument Voices

In addition to piano, organ, and other “standard” 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 Voice

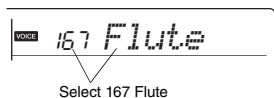
### 1 Press the [VOICE] button.

The Voice number and name will be shown.

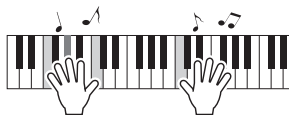


### 2 Use the number buttons [0]–[9], [+], [-] buttons to select the desired Voice.

Refer to the Voice List on page 35.



### 3 Play the keyboard.



## Preset Voice Types

|                       |  |
|-----------------------|--|
| 001–384               | Instrument Voices (including sound effects).   |
| 385–400<br>(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 in the Drum Kit List on page 38.   |
| 000                   | <b>One Touch Setting</b><br>The One Touch Setting feature automatically selects the most suitable Voice when you select a Style or Song (excepting the Song inputted from the [AUX IN] jack). Simply select Voice number “000” to activate this feature. |

## Fun Sounds

You’ll be able to play various sound effects from the keyboard: barking, braying, yelling, and much more. Press the [SOUND EFFECT] button.



Try out each key and enjoy the sounds. Don’t forget the black keys! After trying out these sounds, press the [PORTABLE GRAND] button to reset the instrument Voice to the default setting of Voice “Grand Piano.” For details on the sound effects assigned to each key, refer to Drum Kit List (Voice No.400) on page 40.

## Playing the “Grand Piano”

When you want to reset various settings to default and simply play a Piano sound, press the [PORTABLE GRAND] button.



The Voice “001 Grand Piano” will automatically be selected as the Voice.



## Using the Metronome

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

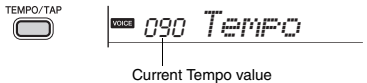
- 1 Press the [METRONOME] button to start the metronome.



- 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, then use the number buttons [0]–[9], [+], [-].



Press the [+] and [-] buttons simultaneously to instantly reset the value to the default tempo.

### To set the Time Signature:

Press and hold the [METRONOME] button to call up “TimeSig” (Functions 016; page 32), then use the Number buttons.

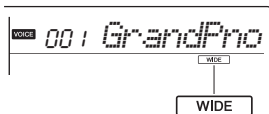
### To set the Metronome Volume:

This can be set via Function number 017 (page 32).

## Playing with enhanced, more spacious sound (Ultra-Wide Stereo)

You can play the keyboard with a spacious, wider sound effect that gives you the sensation of hearing the sound outside of the speakers by turning on the Ultra-Wide Stereo effect.

- 1 Press the [ULTRA-WIDE STEREO] button to turn it on.



Appears when Ultra-Wide Stereo is on.

The sound will expand around you—as if the speaker position is outside of the instrument.

- 2 Press the [ULTRA-WIDE STEREO] button again to turn it off.

### To select the Ultra-Wide Stereo type:

Press the [FUNCTION] button several times to call up “Wide” (Function 014; page 32), then use the Number buttons.

## Applying Effects to the Sound

This instrument can apply various Effects as listed below to the instrument’s sound.

### ●Reverb

Adds the ambience of a club or concert hall to the sound. Although the best-suited Reverb type is called up by selecting a Song or Style, you can select another one via Function number 009 (page 32). You can also set the Reverb depth via Function number 010 (page 32).

### ●Chorus

Makes the Voice sound richer, warmer and more spacious. Although the best-suited Chorus type is called up by selecting a Song or Style, you can select another one via Function number 011 (page 32). You can also set the Chorus depth via Function number 008 (page 31).

### ●Panel Sustain

By turning on the Sustain parameter of Function number 012 (page 32), you can add a fixed, automatic sustain to the keyboard Voices. Sustain can also be applied as desired with the footswitch (sold separately; page 14).

### NOTE

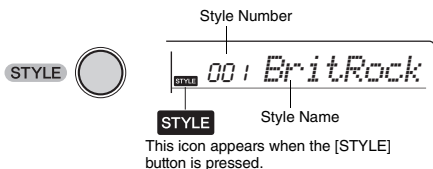
- Even if you turn on Panel Sustain, there are some Voices to which sustain is not applied.

# Playing Styles

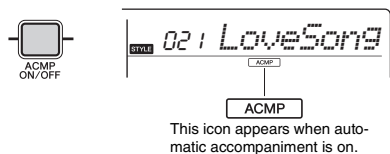
This instrument includes the Auto Accompaniment feature that plays appropriate “Styles” (rhythm + bass + chord accompaniment). You can select from a huge variety of Styles covering a wide range of musical genres.

- 1 Press the [STYLE] button, then use the number buttons [0]–[9], [+], [-] to select the desired Style.

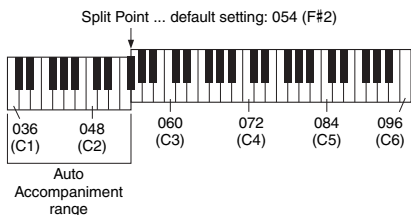
The Style List is provided on the front panel, or in the Style List (page 42).



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

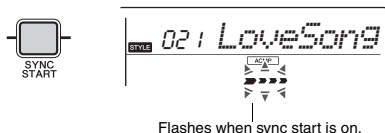


With this operation, the area of the keyboard to the left of the Split Point (054: F#2) becomes the “Auto Accompaniment range” and is used only for specifying the chords.



The highest key for the Auto Accompaniment range is referred to as the “Split Point,” which can be changed from the default of F#2 via Function number 005 (page 31).

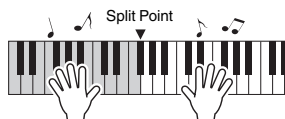
- 3 Press the [SYNC START] button to turn Synchro Start on.



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

Play a melody with the right hand and chords with the left hand.

For information about chords, refer to “Chord Types for Style Playback” (page 20) or use the Chord Dictionary function (page 21).



- 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 19.

## 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

- Since the Pianist category Styles (123–130) 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 001 (page 31).

## Style Variations—Sections

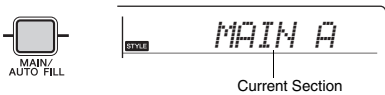
Each Style consists of “Sections” that allow you to vary the arrangement of the accompaniment to match the song you are playing. These instructions cover a typical example for using the Sections.



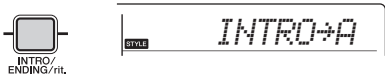
### 1–3

Same as Steps 1–3 in page 18.

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



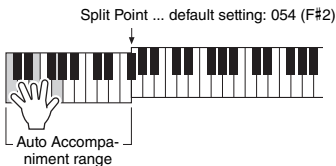
### 5 Press the [INTRO/ENDING/rit.] button.



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

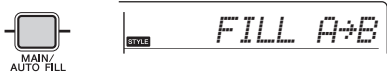
### 6 Play a chord with your left hand to start playback of the Intro.

For this example, play a C major chord (as shown below). For information on how to enter chords, see “Chord Types for Style Playback” on page 20.

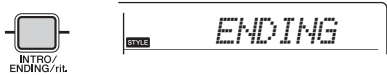


### 7 After the Intro finishes, play the keyboard according to the progression of the Song you are playing.

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 then Main A or B.



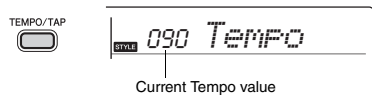
### 8 Press the [INTRO/ENDING/rit.] button.



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.

## Changing the Tempo

Press the [TEMPO/TAP] button to call up the Tempo value, then use the [-] and [+] buttons to adjust the Tempo value.



Press the [+] and [-] buttons simultaneously to reset the value to the default tempo of the current Style or Song.

## Using the Tap function

While a Song or Style 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.



## 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.

★ indicates the root note.

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

- Inversions can be used as well as in "root" position—with the following exceptions: *m7, m7<sup>♯5</sup>, m7(11), 6, m6, sus4, aug, dim7, 7<sup>♯5</sup>, 6(9), sus2*
- Inversions of the 7sus4 chords are not recognized if the notes are omitted.
- Sus2 chords are indicated by the root name only.
- When playing a chord which cannot be recognized by this instrument, nothing is shown on the display. In such a case, only the rhythm and bass parts will be played.

### Easy Chords

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

#### For root "C"



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



**To play a minor chord**  
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.



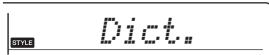
**To play a minor seventh chord**  
Press the root note together with the nearest white and black keys to the left of it (three keys altogether).

## 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.

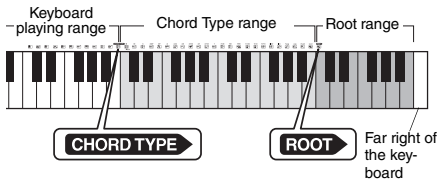
### 1 Press and hold the [3 WAITING] button for longer than a second to call up "Dict."

"Dict." will appear in the display.



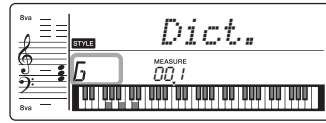
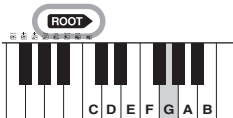
This operation will divide the entire keyboard into the three ranges as illustrated below.

- 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.

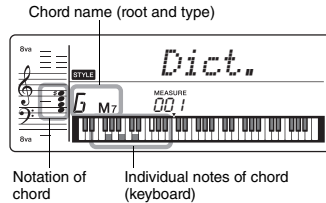
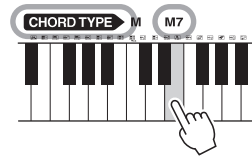


### 2 As an example, learn how to play a GM7 (G major seventh) chord.

- 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 (root note and chord type) are conveniently shown in the display, both as notation and in the keyboard diagram.



- To call up possible inversions of the chord, press the [+]/[-] buttons.

#### NOTE

- About major chords: Simple major chords are usually indicated only by the root note. For example, "C" refers to C major. 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), b5, M7b5, M7aug, m7(11), mM7b5, mM7b5, 7b5, sus2

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

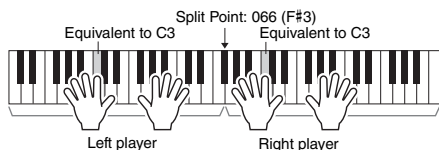
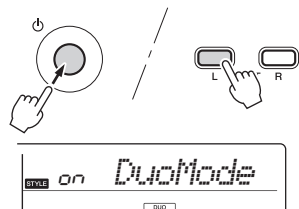
When you've played the chord properly, a bell sound signals your success and the chord name in the display flashes.

# 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 To start this instrument in the Duo mode, simultaneously hold down the [L] button and press the [⏻] (Standby/On) switch to turn on the power.

“DuoMode” is shown in the display for a few seconds, and the F#3 key becomes the Split Point and the keyboard is divided into two sections: left and right.



#### NOTE

- The left section and the right section of the keyboard are both set to the same Voice (except for Voice numbers 321–335).
- In the Duo mode, the Split Point cannot be changed from F#3.

- 2 One person should play the left section of the keyboard while the other plays the right section.

#### Selecting a Voice

Select a Voice by executing Steps 1 and 2 in “Selecting a Voice” on page 16.

#### NOTE

- When the Dual Voice (Voice number 321–335) is selected, the left section will sound only the Main Voice.
- The Lesson function cannot be used in the Duo mode.

#### How sounds are output in the Duo mode

Notes played in the left section sound from the left side speaker while notes played in the right section sound from the right side speaker, in the initial Duo mode setting. This output setting can

be changed from the “VoiceOut” setting (Function 015; page 32).

#### 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 VoiceOut = “Separate” (page 32). 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 sections' Voices 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 012; page 32) to on.

#### NOTE

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

#### Style Playback in the Duo mode

Although full Style features (accompaniment) cannot be used in the Duo mode, the rhythm part of a Style can be played back while playing the left/right sections normally.

#### Phrase recording in the Duo mode

The notes played in the left and right sections are recorded on the same track.

- 3 To exit from the Duo mode, press the [⏻] (Standby/On) switch to turn off the power, and turn the power back on again normally.

# Playing Songs

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

## Listening to a Demo Song

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



When 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.

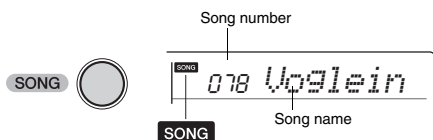
### NOTE

- You can select the next or previous Song in order by using the [+]/[-] buttons after pressing the [DEMO] button. The selection range is all Songs in the selected Demo Group (Function 019; page 32).

## Selecting and Playing Back a Song

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

Refer to the Song List (page 41).



Appears after the [SONG] button is pressed.

- 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 19.

## Adjusting the Song Volume

To adjust the volume balance between Song playback and keyboard, you can adjust the Song Volume. This can be set via Function number 002 (page 31).

## BGM Playback

With the default setting, pressing the [DEMO] button will play back only three internal Demo Songs repeatedly. 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.

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

"DemoGrp" (Function 019; page 32) is shown in the display for a few seconds, followed by the current repeat playback target.



Hold for longer than a second.

- Use the [+] or [-] button to select a playback group.

|        |                            |
|--------|----------------------------|
| Demo   | Preset Songs (001–003)     |
| Preset | All preset Songs (001–100) |
| User   | User Song (113)            |

- Press the [DEMO] button to start playback.

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

## Random Song Playback

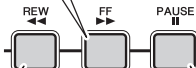
When the Demo Group (above) is set to "Preset," the playback order via the [DEMO] button can be changed between numerical order and random order. To do this, press the [FUNCTION] button several times until "PlayMode" (Function 020; page 32) is called up, then select "Normal" or "Random."

## 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.

### Fast Forward

During playback, press this button to rapidly skip ahead to a later point in the Song.



### Fast Reverse

During playback, press this button to rapidly return to an earlier point in the Song.

### Pause

During playback, press this button to pause playback, and press again to start from that point.

**NOTE**

- When the A-B repeat 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.

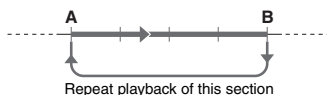
- 1 Select a Song.
- 2 Select the desired Voice.
- 3 Press and hold the [VOICE] button for longer than a second.  
"SONG MELODY VOICE" appears in the display for a few seconds, and the selected Voice replaces the Song's original melody Voice.

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



- 1 Start playback of the Song (page 23).
- 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**

- 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, 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.

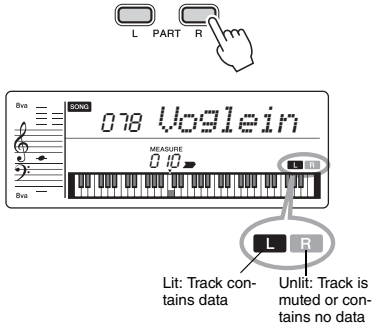
**NOTE**

- 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), a Song consists of two Parts, which can be turned on or off individually by pressing the corresponding button, L or R.



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**

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

# 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 101 to 112 (in the “Chord Study” category). Song numbers 101 to 107 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 108 to 112 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 music notation and key/chord indications shown in the display.

## Hear and experience a sound of a single chord

- 1 Select a Song from Song numbers 101 to 107 in the “CHORD STUDY” category by executing Step 1 in “Selecting and Playing Back a Song” on page 23.
- 2 Press the [START/STOP] button to play back the selected Song.
- 3 Play the keyboard while looking at the notes shown on the display.



### NOTICE

- When playing the keyboard while playing back a Song, you should turn off any parts you don't intend to have played back (page 25), to avoid exceeding the maximum number of simultaneous notes.

### NOTE

- You can use the waiting function (page 27) by pressing the [3 WAITING] button.

## Hear and experience basic chord progressions

- 1 Select a Song from Song numbers 108 to 112 by pressing the [+]/[-] buttons.
- 2 Press the [START/STOP] button to play back the selected Song.
- 3 Play the keyboard while looking at the notes 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.

### NOTE

- You can use the waiting function (page 27) by pressing the [3 WAITING] button.

# Using the Song Lesson Feature

You can use the selected Song for a left-hand, right-hand, or both-hands lesson. Try practicing with three Song Lesson types while referring to the music scores in the Song Book (page 8).

## Listening, Timing and Waiting

### ●Lesson 1—Listen & Learn

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.

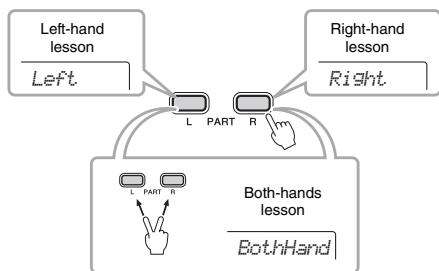
#### NOTE 1

- 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 018 (page 32).

## Practicing with Song Lesson

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

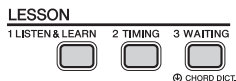
2 Press either or both the [R] and [L] buttons to select the part you want to practice.



#### NOTE 1

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

3 Press any one of the [1 LISTEN & LEARN], [2 TIMING] or [3 WAITING] buttons to start playback of the Song Lesson.



#### NOTE 1

- 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.
- The Voice changes to “000” (One Touch Setting; page 16) during the lesson.

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.

Excellent! ██████████  
 Very Good! ████████  
 Good ██████  
 OK ████

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

#### NOTE 1

- 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.

5 Stop the Lesson mode.

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

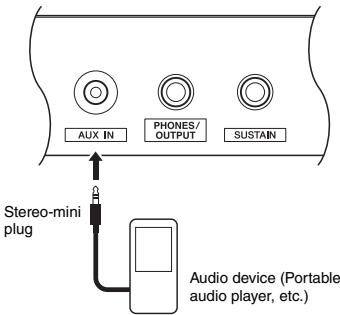
# Playing an External Audio Device with the Built-in Speakers

You can output the sound of an external audio device, such as a portable music player, 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.

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 an audio cable with no resistance having a stereo-mini plug on one side for connecting to this instrument, and a proper plug to match the output jack of the external audio device on the other side.



3 Turn on the external audio device, 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.

If possible, adjust the playback level of the external audio device first, to achieve optimum balance.

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

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

## CAUTION

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

## NOTICE

- After connecting, first turn on the power to the external audio device then to this instrument. Reverse this order when you turn the power off.

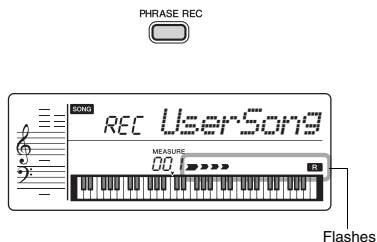
# Recording Your Performance (Phrase Recording)

You can record your performance as a User Song (Song number 113), which can then be played back on the instrument. The recorded User Song can be played back in the same way as the preset Songs.

## NOTE

- A total of approximately 300 notes can be recorded to the User Song.

- 1 Select the desired Voice.
- 2 Press the [PHRASE REC] button to enable the Record mode.



To exit from the Record mode, press the [PHRASE REC] button again. (The display stops flashing.)

## NOTICE

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

- 3 Play the keyboard to start recording.

## NOTICE

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

## NOTE

- When recording capacity becomes full during recording, a "Mem Full" message appears on the display, recording is stopped, and the Song select display is shown.
- If you press the [START/STOP] button, even if you don't play the keyboard, recording starts.

### Limitations while recording:

- The following settings/operations cannot be recorded: Reverb Level, Style, metronome click, Transpose, Tuning.
- The following settings and buttons are not available, or if operated, the new settings cannot be recorded:  
Split Point, Reverb Type, Chorus Type, [FUNCTION] button, [PORTABLE GRAND] button.

- 4 Press the [START/STOP] button to stop recording.
- 5 To play back the recorded Song, press the [START/STOP] button.

## NOTE

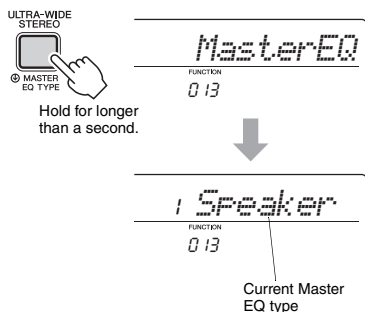
- If you make a mistake or want to erase an existing Song, you can delete the User Song. To do this, enable the Record mode in step 2, and then press the [START/STOP] button twice in succession (without playing the keyboard).

# Selecting an EQ Setting for the Best Sound

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

- 1 Hold down the [ULTRA-WIDE STEREO] button for longer than a second to call up “013 MasterEQ” (Function 013; page 32).

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



- 2 Use the [+] or [-] button to select the desired Master EQ type.

## Master EQ types

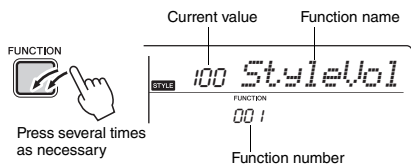
|   |           |   |
|---|-----------|---|
| 1 | Speaker   | Optimum for listening via the instrument's built-in speakers.   |
| 2 | Headphone | Optimum for headphones, or for listening via external speakers. |
| 3 | Boost     | Features more powerful sound.                                   |
| 4 | Piano     | Optimum for piano solo performance.                             |
| 5 | Bright    | Lowers the mid range for a brighter sound.                      |
| 6 | Mild      | Lowers the high range for a softer sound.                       |

# 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 [-] button briefly. Simply pressing only the [+] or [-] button does not change the Function number.

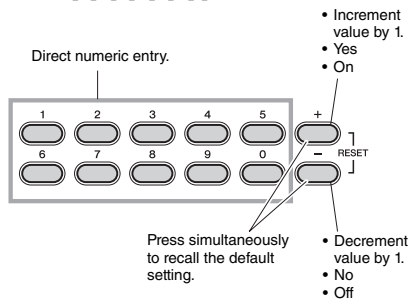


After a few seconds, the Function name may be replaced with the setting value depending on the selected Function.

### NOTE

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

## 2 Set the value by using the number buttons [0]–[9], [+], [-].



### NOTE

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

## Function List

| Function Number        | Function name | Display          | Range/Settings  | Default Value | Descriptions  |
|------------------------|---------------|------------------|-----------------|---------------|---|
| <b>Volume</b>          |               |                  |                 |               |   |
| 001                    | Style Volume  | <i>StyleVol</i>  | 000–127         | 100           | Determines the volume of the Style. (page 18)   |
| 002                    | Song Volume   | <i>SongVol</i>   | 000–127         | 100           | Determines the volume of the Song. (page 23)  |
| <b>Overall</b>         |               |                  |                 |               |   |
| 003                    | Transpose     | <i>Transpos</i>  | -12–12          | 0             | Determines the pitch of the instrument in semitone increments.  |
| 004                    | 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.               |
| 005                    | Split Point   | <i>SplitPnt</i>  | 036–096 (C1–C6) | 54 (F#2)      | Determines the Split "point"—in other words, the key that separates the auto accompaniment range and Voice. |
| <b>Voice (page 16)</b> |               |                  |                 |               |   |
| 006                    | Volume        | <i>M. Volume</i> | 000–127         | *             | Adjusts the volume of keyboard performance when performing along with a Song or a Style.                    |
| 007                    | Octave        | <i>M. Octave</i> | -2–+2           | *             | Determines the octave range for the Voice.  |
| 008                    | Chorus Depth  | <i>M. Chorus</i> | 000–127         | *             | Determines how much of the Voice's signal is sent to the Chorus effect.                                     |

| Function Number                 | Function name            | Display         | Range/Settings   | Default Value | Descriptions  |
|---------------------------------|--------------------------|-----------------|--|---------------|---|
| <b>Effects</b>                  |                          |                 |  |               |   |
| 009                             | Reverb Type              | <i>Reverb</i>   | 1-3 (Hall 1-3)<br>4-5 (Room 1-2)<br>6-7 (Stage 1-2)<br>8-9 (Plate 1-2)<br>10 (Off)   | **            | Determines the Reverb type, including off (10). (page 43)   |
| 010                             | Reverb Level             | <i>RevLevel</i> | 000-127  | 64            | Determines how much of the Voice's signal is sent to the Reverb effect.   |
| 011                             | Chorus Type              | <i>Chorus</i>   | 1 (Chorus1)<br>2 (Chorus2)<br>3 (Chorus3)<br>4 (Flanger1)<br>5 (Flanger2)<br>6 (off) | **            | Determines the Chorus type, including off (6). (page 43)  |
| 012                             | Panel Sustain            | <i>Sustain</i>  | ON/OFF   | OFF           | Determines whether the Panel Sustain function is on or off.   |
| 013                             | Master EQ Type           | <i>MasterEQ</i> | 1 (Speaker)<br>2 (Headphone)<br>3 (Boost)<br>4 (Piano)<br>5 (Bright)<br>6 (Mild)     | 1 (Speaker)   | Sets the equalizer applied to the speaker output for optimum sound in different listening situations. (page 30)   |
| 014                             | Wide Type                | <i>Wide</i>     | 1 (Wide1)<br>2 (Wide2)<br>3 (Wide3)  | 2 (Wide2)     | Determines the Ultra-Wide Stereo type. Higher values produce a greater Wide effect. (page 17)   |
| 015                             | Voice Output             | <i>VoiceOut</i> | 1 (Normal)<br>2 (Separate)   | 2 (Separate)  | When the Duo mode (page 22) is on, this function is effective. If "Normal" is selected, the performance sounds of the left section and the right section will sound from both the left and right speakers. If "Separate" is selected, 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. |
| <b>Metronome (page 17)</b>      |                          |                 |  |               |   |
| 016                             | Time Signature Numerator | <i>TimeSig</i>  | 00-15  | **            | Determines the time signature of the Metronome.   |
| 017                             | Metronome Volume         | <i>MetroVol</i> | 000-127  | 100           | Determines the volume of the Metronome.   |
| <b>Lesson (page 27)</b>         |                          |                 |  |               |   |
| 018                             | Your Tempo               | <i>YourTemp</i> | ON/OFF   | ON            | This parameter is for the Lesson 3 "Waiting." When set to ON, playback tempo will change for matching the speed you are playing at. When set to OFF, playback tempo will be maintained regardless of the speed you are playing at.  |
| <b>Demo (page 23)</b>           |                          |                 |  |               |   |
| 019                             | Demo Group               | <i>DemoGrp</i>  | 1 (Demo)<br>2 (Preset)<br>3 (User)   | 1 (Demo)      | Determines the repeat playback group.   |
| 020                             | Demo Play Mode           | <i>PlayMode</i> | 1 (Normal)<br>2 (Random)   | 1 (Normal)    | Determines the repeat playback mode.  |
| <b>Auto Power Off (page 13)</b> |                          |                 |  |               |   |
| 021                             | 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.  |
| <b>Battery (page 13)</b>        |                          |                 |  |               |   |
| 022                             | Battery Type             | <i>Battery</i>  | 1 (Alkaline)<br>2 (Ni-MH)  | 1 (Alkaline)  | Selects the type of batteries you have installed to this instrument.<br>Alkaline: Alkaline battery/manganese battery<br>Ni-MH: Rechargeable battery   |

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

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



# Backup and Initialization

## Backup Parameters

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

### Backup parameters

- User Songs (page 29)
- FUNCTION Settings: (page 31)  
Tuning, Your Tempo, Master EQ type, Panel Sustain, Auto Power Off, Battery Type

To initialize Backup data, execute “Backup Clear.”

### NOTICE

*Note that the following situations cannot back up or maintain the settings of the Backup parameters.*

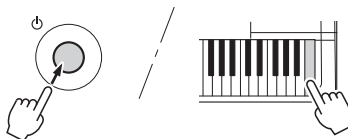
- *When the AC adaptor is unplugged with the power on (even if batteries are installed):*
- *When the power is turned off due to accidents such as electric power failure:*
- *When the Alkaline battery/Manganese battery runs down (without connecting the AC adaptor):*

## Initialization

You can initialize your original data via the following method.

### Backup Clear

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



# 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 the application on iPhone/iPad/iPod touch.   | When you use the instrument along with the application on your iPhone/iPad/iPod touch, we recommend that you set "Airplane Mode" to "ON" on your iPhone/iPad/iPod touch 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.  |
| Playing keys in the right hand area of the keyboard does not produce any sound.   | When using the Dictionary function (page 21), 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 32 notes. If a style or Song is playing back at the same time, some notes/sounds may be omitted (or "stolen") from the accompaniment or Song.   |
| Regardless of how strongly play the keys, the level of the sound does not change.   | Since this keyboard does not have touch response, the level of the sound does not change in response to your playing strength.  |
| The ACMP ON indicator does not appear when the [ACMP ON/OFF] button is pressed.   | <ul style="list-style-type: none"> <li>Always press the [STYLE] button first when you are going to use any Style-related function.</li> <li>The ACMP ON indicator does not appear when the Duo mode is on.</li> </ul>   |
| The Style does not sound properly.  | <p>Make sure that the Style Volume (page 31 Function 001) is set to an appropriate level.</p> <p>Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate key (page 31 Function 005).</p> <p>Is the "ACMP ON" indicator showing in the display? If it is not showing, press the [ACMP ON/OFF] button so that it does show.</p>                  |
| The Style does not sound as you play a chord.   | <ul style="list-style-type: none"> <li>The auto accompaniment will sometimes not change when related chords are played in sequence (e.g., some minor chords followed by the minor seventh).</li> <li>Two-note fingerings will produce a chord based on the previously played chord.</li> <li>Playing two same root keys in the adjacent octaves produces accompaniment based only on the root.</li> </ul> |
| 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.   |
| <ul style="list-style-type: none"> <li>The volume is too soft.</li> <li>The sound quality is poor.</li> <li>The rhythm stops unexpectedly or will not play.</li> <li>The recorded data of the song, etc. does not play correctly.</li> <li>The LCD display suddenly goes dark, and all panel settings are reset.</li> </ul> | The batteries are low or dead. Replace all six batteries with completely new ones, or use the included AC adaptor.  |
| Power suddenly and unexpectedly turns off.  | 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 021; page 32).  |
| When the instrument is turned on, power is turned off suddenly and unexpectedly.  | This is normal. If an AC adaptor other than the one specified is used, power may be turned off suddenly and unexpectedly.   |

# Voice List

## Maximum Polyphony

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

### NOTE

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

| Voice No.        | Voice Name                 |
|------------------|----------------------------|
| <b>PIANO</b>     |                            |
| 1                | Grand Piano                |
| 2                | Mono Grand Piano           |
| 3                | Bright Piano               |
| 4                | Mellow Piano               |
| 5                | Honky-tonk Piano           |
| 6                | Piano Strings              |
| 7                | Dream                      |
| 8                | Harpsichord 1              |
| 9                | Harpsichord 2              |
| <b>E.PIANO</b>   |                            |
| 10               | Electric Piano 1           |
| 11               | Electric Piano 2           |
| 12               | Electric Piano 3           |
| 13               | Electric Grand Piano       |
| 14               | Chorus Electric Piano 1    |
| 15               | Chorus Electric Piano 2    |
| 16               | Detuned Electric Piano     |
| 17               | DX + Analog Electric Piano |
| 18               | Clavi                      |
| 19               | Wah Clavi                  |
| <b>ORGAN</b>     |                            |
| 20               | Drawbar Organ 1            |
| 21               | Drawbar Organ 2            |
| 22               | 60s Drawbar Organ 1        |
| 23               | 60s Drawbar Organ 2        |
| 24               | 60s Drawbar Organ 3        |
| 25               | 70s Drawbar Organ 1        |
| 26               | 70s Drawbar Organ 2        |
| 27               | Detuned Drawbar Organ      |
| 28               | Percussive Organ 1         |
| 29               | Percussive Organ 2         |
| 30               | 70s Percussive Organ       |
| 31               | Detuned Percussive Organ   |
| 32               | 16+2/2/3 Organ             |
| 33               | Organ Bass                 |
| 34               | Rock Organ                 |
| 35               | Rotary Organ               |
| 36               | Slow Rotary Organ          |
| 37               | Fast Rotary Organ          |
| 38               | Pipe Organ 1               |
| 39               | Pipe Organ 2               |
| 40               | Pipe Organ 3               |
| 41               | Organ Flute                |
| 42               | Tremolo Organ Flute        |
| 43               | Notre Dame                 |
| 44               | Cheezy Organ               |
| 45               | Light Organ                |
| 46               | Reed Organ                 |
| 47               | Puff Organ                 |
| <b>ACCORDION</b> |                            |
| 48               | Accordion                  |
| 49               | Tango Accordion 1          |

| Voice No.     | Voice Name                       |
|---------------|----------------------------------|
| 50            | Tango Accordion 2                |
| 51            | Harmonica 1                      |
| 52            | Harmonica 2                      |
| <b>GUITAR</b> |                                  |
| 53            | Nylon Guitar                     |
| 54            | Steel Guitar                     |
| 55            | Nylon & Steel Guitar             |
| 56            | Steel Guitar with Body Sound     |
| 57            | Muted Steel Guitar               |
| 58            | 12-string Guitar                 |
| 59            | Jazz Guitar                      |
| 60            | Jazz Amp                         |
| 61            | Jazz Man                         |
| 62            | Clean Guitar                     |
| 63            | Chorus Guitar                    |
| 64            | Funk Guitar                      |
| 65            | Guitar Pinch                     |
| 66            | Muted Guitar                     |
| 67            | Overdriven Guitar                |
| 68            | Distortion Guitar                |
| 69            | Feedback Guitar 1                |
| 70            | Feedback Guitar 2                |
| 71            | Guitar Feedback                  |
| 72            | Guitar Harmonics 1               |
| 73            | Guitar Harmonics 2               |
| 74            | Guitar Harmonics 3               |
| <b>BASS</b>   |                                  |
| 75            | Acoustic Bass 1                  |
| 76            | Acoustic Bass 2                  |
| 77            | Finger Bass 1                    |
| 78            | Finger Bass 2                    |
| 79            | Finger Dark                      |
| 80            | Finger Slap Bass                 |
| 81            | Pick Bass                        |
| 82            | Fretless Bass 1                  |
| 83            | Fretless Bass 2                  |
| 84            | Fretless Bass 3                  |
| 85            | Fretless Bass 4                  |
| 86            | Slap Bass 1                      |
| 87            | Slap Bass 2                      |
| 88            | Slap Bass 3                      |
| 89            | Jazz Rhythm                      |
| 90            | Bass & Distorted Electric Guitar |
| 91            | Muted Pick Bass                  |
| 92            | Modulated Bass                   |
| 93            | Punch Thumb Bass                 |
| 94            | Synth Bass 1                     |
| 95            | Synth Bass 2                     |
| 96            | Synth Bass 2 Dark                |
| 97            | Techno Synth Bass                |
| 98            | Mellow Synth Bass                |

| Voice No.        | Voice Name           |
|------------------|----------------------|
| 99               | Sequenced Bass       |
| 100              | Click Synth Bass     |
| 101              | Modular Synth Bass   |
| 102              | DX Bass              |
| <b>STRINGS</b>   |                      |
| 103              | Strings 1            |
| 104              | Strings 2            |
| 105              | Strings 3            |
| 106              | Slow Strings         |
| 107              | Stereo Strings       |
| 108              | Stereo Slow Strings  |
| 109              | Orchestra 1          |
| 110              | Orchestra 2          |
| 111              | 60s Strings          |
| 112              | Suspense Strings     |
| 113              | Legato Strings       |
| 114              | Warm Strings         |
| 115              | Kingdom              |
| 116              | Tremolo Strings      |
| 117              | Slow Tremolo Strings |
| 118              | Tremolo Orchestra    |
| 119              | Pizzicato Strings    |
| 120              | Violin               |
| 121              | Slow Violin          |
| 122              | Viola                |
| 123              | Cello                |
| 124              | Contrabass           |
| 125              | Orchestral Harp      |
| 126              | Synth Strings 1      |
| 127              | Synth Strings 2      |
| 128              | Orchestra Hit 1      |
| 129              | Orchestra Hit 2      |
| 130              | Impact               |
| <b>CHOIR</b>     |                      |
| 131              | Choir Aahs           |
| 132              | Voice Oohs           |
| 133              | Stereo Choir         |
| 134              | Mellow Choir         |
| 135              | Choir Strings        |
| 136              | Synth Voice 1        |
| 137              | Synth Voice 2        |
| 138              | Choral               |
| 139              | Analog Voice         |
| <b>SAXOPHONE</b> |                      |
| 140              | Tenor Sax            |
| 141              | Breathy Tenor Sax    |
| 142              | Alto Sax             |
| 143              | Soprano Sax          |
| 144              | Baritone Sax         |
| 145              | Sax Section          |
| 146              | Clarinet             |
| 147              | Oboe                 |
| 148              | English Horn         |

# Voice List

| Voice No.                     | Voice Name                 |
|-------------------------------|----------------------------|
| 149                           | Bassoon                    |
| <b>TRUMPET</b>                |                            |
| 150                           | Trumpet                    |
| 151                           | Warm Trumpet               |
| 152                           | Muted Trumpet              |
| 153                           | Trombone 1                 |
| 154                           | Trombone 2                 |
| 155                           | Trumpet & Trombone Section |
| 156                           | French Horn 1              |
| 157                           | French Horn 2              |
| 158                           | French Horn Solo           |
| 159                           | Horn Orchestra             |
| 160                           | Tuba                       |
| <b>BRASS</b>                  |                            |
| 161                           | Brass Section              |
| 162                           | Synth Brass 1              |
| 163                           | Synth Brass 2              |
| 164                           | Soft Brass                 |
| 165                           | Resonant Synth Brass       |
| 166                           | Choir Brass                |
| <b>FLUTE</b>                  |                            |
| 167                           | Flute                      |
| 168                           | Piccolo                    |
| 169                           | Pan Flute                  |
| 170                           | Recorder                   |
| 171                           | Blown Bottle               |
| 172                           | Shakuhachi                 |
| 173                           | Whistle                    |
| 174                           | Ocarina                    |
| <b>SYNTH LEAD</b>             |                            |
| 175                           | Square Lead 1              |
| 176                           | Square Lead 2              |
| 177                           | LM Square                  |
| 178                           | Sawtooth Lead 1            |
| 179                           | Sawtooth Lead 2            |
| 180                           | Thick Sawtooth             |
| 181                           | Dynamic Sawtooth           |
| 182                           | Digital Sawtooth           |
| 183                           | Fargo                      |
| 184                           | Funky Lead                 |
| 185                           | Sine Lead                  |
| 186                           | Solo Sine                  |
| 187                           | Calliope Lead              |
| 188                           | Chiff Lead                 |
| 189                           | Charang Lead               |
| 190                           | Voice Lead                 |
| 191                           | Fifths Lead                |
| 192                           | Bass & Lead                |
| 193                           | Hollow                     |
| 194                           | Shroud                     |
| 195                           | Mellow                     |
| 196                           | Big Lead                   |
| 197                           | Sequenced Analog           |
| 198                           | Pure Lead                  |
| 199                           | Distorted Lead             |
| 200                           | Big Five                   |
| 201                           | Big & Low                  |
| 202                           | Fat & Perky                |
| <b>SYNTH PAD &amp; EFFECT</b> |                            |
| 203                           | New Age Pad                |
| 204                           | Fantasy                    |
| 205                           | Warm Pad                   |
| 206                           | Poly Synth Pad             |
| 207                           | Equinox                    |

| Voice No.         | Voice Name           |
|-------------------|----------------------|
| 208               | Choir Pad            |
| 209               | Bowed Pad            |
| 210               | Metallic Pad         |
| 211               | Halo Pad             |
| 212               | Sweep Pad            |
| 213               | Soft Whirl           |
| 214               | Itopia               |
| 215               | Rain                 |
| 216               | Sound Track          |
| 217               | Crystal              |
| 218               | Atmosphere           |
| 219               | Brightness           |
| 220               | Goblins              |
| 221               | Echoes               |
| 222               | Sci-Fi               |
| 223               | African Wind         |
| 224               | Carib                |
| 225               | Prologue             |
| 226               | Synth Drum Comp      |
| 227               | Popcorn              |
| 228               | Tiny Bells           |
| 229               | Round Glockenspiel   |
| 230               | Glockenspiel Chimes  |
| 231               | Clear Bells          |
| 232               | Chorus Bells         |
| 233               | Soft Crystal         |
| 234               | Air Bells            |
| 235               | Warm Atmosphere      |
| 236               | Hollow Release       |
| 237               | Nylon Electric Piano |
| 238               | Nylon Harp           |
| 239               | Harp Vox             |
| 240               | Atmosphere Pad       |
| 241               | Goblins Synth        |
| 242               | Creeper              |
| 243               | Ritual               |
| 244               | To Heaven            |
| 245               | Night                |
| 246               | Glisten              |
| 247               | Bell Choir           |
| 248               | Bell Harp            |
| <b>PERCUSSION</b> |                      |
| 249               | Vibraphone           |
| 250               | Soft Vibraphone      |
| 251               | Marimba              |
| 252               | Soft Marimba         |
| 253               | Sine Marimba         |
| 254               | Balimba              |
| 255               | Log Drums            |
| 256               | Xylophone            |
| 257               | Steel Drums          |
| 258               | Celesta              |
| 259               | MusicBox 1           |
| 260               | MusicBox 2           |
| 261               | Church Bells         |
| 262               | Carillon             |
| 263               | Tubular Bells        |
| 264               | Timpani              |
| 265               | Glockenspiel         |
| 266               | Tinkle Bell          |
| 267               | Agogo                |
| 268               | Woodblock            |
| 269               | Castanets            |
| 270               | Melodic Tom 1        |
| 271               | Melodic Tom 2        |

| Voice No.    | Voice Name                |
|--------------|---------------------------|
| 272          | Real Tom                  |
| 273          | Rock Tom                  |
| 274          | Electronic Percussion     |
| 275          | Analog Tom                |
| 276          | Synth Drum                |
| 277          | Taiko Drum                |
| 278          | Gran Cassa                |
| 279          | Gamelimba                 |
| 280          | Glass Percussion          |
| 281          | Reverse Cymbal            |
| <b>WORLD</b> |                           |
| 282          | Banjo                     |
| 283          | Muted Banjo               |
| 284          | Fiddle                    |
| 285          | Bagpipe                   |
| 286          | Dulcimer 1                |
| 287          | Dulcimer 2                |
| 288          | Cimbalom                  |
| 289          | Santur                    |
| 290          | Kanoon                    |
| 291          | Oud                       |
| 292          | Rabab                     |
| 293          | Kalimba                   |
| 294          | Harmonium 1 (Single Reed) |
| 295          | Harmonium 2 (Double Reed) |
| 296          | Harmonium 3 (Triple Reed) |
| 297          | Tanpura                   |
| 298          | Sitar 1                   |
| 299          | Sitar 2                   |
| 300          | Detuned Sitar             |
| 301          | Pungi                     |
| 302          | Shehnai                   |
| 303          | Gopichant                 |
| 304          | Tabla                     |
| 305          | Er Hu                     |
| 306          | Di Zi                     |
| 307          | Pi Pa                     |
| 308          | Gu Zheng                  |
| 309          | Yang Qin                  |
| 310          | Shamisen                  |
| 311          | Koto                      |
| 312          | Taisho-kin                |
| 313          | Mandolin                  |
| 314          | Ukulele                   |
| 315          | Bonang                    |
| 316          | Altair                    |
| 317          | Gamelan Gongs             |
| 318          | Stereo Gamelan Gongs      |
| 319          | Rama Cymbal               |
| 320          | Thai Bells                |
| <b>DUAL*</b> |                           |
| 321          | Octave Piano              |
| 322          | Piano & Pizzicato Strings |
| 323          | Piano & Flute             |
| 324          | Piano Pad                 |
| 325          | Octave Honky-tonk Piano   |
| 326          | Harpsichord & Strings     |
| 327          | Electric Piano Pad 1      |
| 328          | Electric Piano Pad 2      |
| 329          | Electric Piano Pad 3      |
| 330          | Octave Strings            |
| 331          | Octave Brass              |
| 332          | Orchestra Tutti           |
| 333          | Octave Choir              |

| Voice No.            | Voice Name               |
|----------------------|--------------------------|
| 334                  | Jazz Section             |
| 335                  | Flute & Clarinet         |
| <b>SOUND EFFECTS</b> |                          |
| 336                  | Fret Noise               |
| 337                  | Breath Noise             |
| 338                  | Cutting Noise 1          |
| 339                  | Cutting Noise 2          |
| 340                  | String Slap              |
| 341                  | Flute Key Click          |
| 342                  | Bird Tweet 1             |
| 343                  | Bird Tweet 2             |
| 344                  | Telephone Ring 1         |
| 345                  | Telephone Ring 2         |
| 346                  | Phone Call               |
| 347                  | Shower                   |
| 348                  | Thunder                  |
| 349                  | Wind                     |
| 350                  | Stream                   |
| 351                  | Seashore                 |
| 352                  | Bubble                   |
| 353                  | Feed                     |
| 354                  | Dog                      |
| 355                  | Horse                    |
| 356                  | Maou                     |
| 357                  | Door Squeak              |
| 358                  | Door Slam                |
| 359                  | Scratch Cut              |
| 360                  | Scratch Split            |
| 361                  | Wind Chime               |
| 362                  | Car Engine Ignition      |
| 363                  | Car Tires Squeal         |
| 364                  | Car Passing              |
| 365                  | Car Crash                |
| 366                  | Siren                    |
| 367                  | Train                    |
| 368                  | Helicopter               |
| 369                  | Jet Plane                |
| 370                  | Starship                 |
| 371                  | Burst                    |
| 372                  | Roller Coaster           |
| 373                  | Submarine                |
| 374                  | Laugh                    |
| 375                  | Scream                   |
| 376                  | Punch                    |
| 377                  | Heartbeat                |
| 378                  | Footsteps                |
| 379                  | Applause                 |
| 380                  | Gunshot                  |
| 381                  | Machine Gun              |
| 382                  | Laser Gun                |
| 383                  | Explosion                |
| 384                  | Firework                 |
| <b>DRUM KITS</b>     |                          |
| 385                  | Standard Kit 1           |
| 386                  | Standard Kit 2           |
| 387                  | Room Kit                 |
| 388                  | Rock Kit                 |
| 389                  | Electronic Kit           |
| 390                  | Analog Kit               |
| 391                  | Dance Kit                |
| 392                  | Jazz Kit                 |
| 393                  | Brush Kit                |
| 394                  | Symphony Kit             |
| 395                  | StdKit 1 + Chinese Perc. |
| 396                  | Indian Kit               |

| Voice No. | Voice Name       |
|-----------|------------------|
| 397       | Arabic Kit       |
| 398       | SFX Kit 1        |
| 399       | SFX Kit 2        |
| 400       | Sound Effect Kit |

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

# Drum Kit List

- " " indicates that the drum sound is the same as "Standard Kit 1".
- Each percussion voice uses one note.

| Voice No. |      | 385            |                 | 386             |                 | 387          |  | 388            |  | 389                     |  | 390                   |  |
|-----------|------|----------------|-----------------|-----------------|-----------------|--------------|--|----------------|--|-------------------------|--|-----------------------|--|
| Keyboard  |      | Standard Kit 1 |                 | Standard Kit 2  |                 | Room Kit     |  | Rock Kit       |  | Electronic Kit          |  | Analog Kit            |  |
| Note#     | Note |                |                 |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 25   | C# 0           | Surdo Mute      |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 26   | D 0            | Surdo Open      |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 27   | D# 0           | Hi Q            |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 28   | E 0            | Whip Slap       |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 29   | F 0            | Scratch H       |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 30   | F# 0           | Scratch L       |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 31   | G 0            | Finger Snap     |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 32   | G# 0           | Click Noise     |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 33   | A 0            | Metronome Click |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 34   | A# 0           | Metronome Bell  |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 35   | B 0            | Seq Click L     |                 |                 |              |  |                |  |                         |  |                       |  |
|           | 36   | C 1            | Seq Click H     |                 |                 |              |  |                |  |                         |  |                       |  |
| C1        | C#1  | 37             | C# 1            | Brush Tap       |                 |              |  |                |  |                         |  |                       |  |
| D1        | D#1  | 38             | D 1             | Brush Swirl     |                 |              |  |                |  |                         |  |                       |  |
| E1        |      | 39             | D# 1            | Brush Slap      |                 |              |  |                |  |                         |  |                       |  |
|           |      | 40             | E 1             | Brush Tap Swirl |                 |              |  |                |  | Reverse Cymbal          |  | Reverse Cymbal        |  |
| F1        |      | 41             | F 1             | Snare Roll      |                 |              |  |                |  |                         |  |                       |  |
|           |      | 42             | F# 1            | Castanet        |                 |              |  |                |  | Hi Q 2                  |  | Hi Q 2                |  |
| G1        |      | 43             | G 1             | Snare Soft      | Snare Soft 2    |              |  | Snare Noisy    |  | Snare Snappy Electronic |  | Snare Noisy 4         |  |
|           | G#1  | 44             | G# 1            | Sticks          |                 |              |  |                |  |                         |  |                       |  |
| A1        |      | 45             | A 1             | Bass Drum Soft  |                 |              |  |                |  | Bass Drum H             |  | Bass Drum H           |  |
|           | A#1  | 46             | A# 1            | Open Rim Shot   | Open Rim Shot 2 |              |  |                |  |                         |  |                       |  |
| B1        |      | 47             | B 1             | Bass Drum Hard  |                 |              |  | Bass Drum H    |  | Bass Drum Rock          |  | Bass Drum Analog L    |  |
| C2        |      | 48             | C 2             | Bass Drum       | Bass Drum 2     |              |  | Bass Drum Rock |  | Bass Drum Gate          |  | Bass Drum Analog H    |  |
|           | C#2  | 49             | C# 2            | Side Stick      |                 |              |  |                |  |                         |  | Side Stick Analog     |  |
| D2        |      | 50             | D 2             | Snare           | Snare 2         | Snare Room L |  | Snare Rock     |  | Snare Noisy 2           |  | Snare Analog 1        |  |
| E2        | D#2  | 51             | D# 2            | Hand Clap       |                 |              |  |                |  |                         |  |                       |  |
|           |      | 52             | E 2             | Snare Tight     | Snare Tight 2   | Snare Room H |  | Snare Rock Rim |  | Snare Noisy 3           |  | Snare Analog 2        |  |
| F2        |      | 53             | F 2             | Floor Tom L     |                 | Tom Room 1   |  | Tom Rock 1     |  | Tom Electronic 1        |  | Tom Analog 1          |  |
|           | F#2  | 54             | F# 2            | Hi-Hat Closed   |                 |              |  |                |  |                         |  | Hi-Hat Close Analog 1 |  |
| G2        |      | 55             | G 2             | Floor Tom H     |                 | Tom Room 2   |  | Tom Rock 2     |  | Tom Electronic 2        |  | Tom Analog 2          |  |
|           | G#2  | 56             | G# 2            | Hi-Hat Pedal    |                 |              |  |                |  |                         |  | Hi-Hat Close Analog 2 |  |
| A2        |      | 57             | A 2             | Low Tom         |                 | Tom Room 3   |  | Tom Rock 3     |  | Tom Electronic 3        |  | Tom Analog 3          |  |
|           | A#2  | 58             | A# 2            | Hi-Hat Open     |                 |              |  |                |  |                         |  | Hi-Hat Open Analog    |  |
| B2        |      | 59             | B 2             | Mid Tom L       |                 | Tom Room 4   |  | Tom Rock 4     |  | Tom Electronic 4        |  | Tom Analog 4          |  |
| C3        |      | 60             | C 3             | Mid Tom H       |                 | Tom Room 5   |  | Tom Rock 5     |  | Tom Electronic 5        |  | Tom Analog 5          |  |
|           | C#3  | 61             | C# 3            | Crash Cymbal 1  |                 |              |  |                |  |                         |  | Cymbal Analog         |  |
| D3        |      | 62             | D 3             | High Tom        |                 | Tom Room 6   |  | Tom Rock 6     |  | Tom Electronic 6        |  | Tom Analog 6          |  |
|           | D#3  | 63             | D# 3            | Ride Cymbal 1   |                 |              |  |                |  |                         |  |                       |  |
| E3        |      | 64             | E 3             | Chinese Cymbal  |                 |              |  |                |  |                         |  |                       |  |
| F3        |      | 65             | F 3             | Ride Cymbal Cup |                 |              |  |                |  |                         |  |                       |  |
|           | F#3  | 66             | F# 3            | Tambourine      |                 |              |  |                |  |                         |  |                       |  |
| G3        |      | 67             | G 3             | Splash Cymbal   |                 |              |  |                |  |                         |  |                       |  |
|           | G#3  | 68             | G# 3            | Cowbell         |                 |              |  |                |  |                         |  | Cowbell Analog        |  |
| A3        |      | 69             | A 3             | Crash Cymbal 2  |                 |              |  |                |  |                         |  |                       |  |
|           | A#3  | 70             | A# 3            | Vibraslap       |                 |              |  |                |  |                         |  |                       |  |
| B3        |      | 71             | B 3             | Ride Cymbal 2   |                 |              |  |                |  |                         |  |                       |  |
| C4        |      | 72             | C 4             | Bongo H         |                 |              |  |                |  |                         |  |                       |  |
|           | C#4  | 73             | C# 4            | Bongo L         |                 |              |  |                |  |                         |  |                       |  |
| D4        |      | 74             | D 4             | Conga H Mute    |                 |              |  |                |  |                         |  |                       |  |
|           | D#4  | 75             | D# 4            | Conga H Open    |                 |              |  |                |  |                         |  | Conga Analog H        |  |
| E4        |      | 76             | E 4             | Conga L         |                 |              |  |                |  |                         |  | Conga Analog M        |  |
|           |      | 77             | F 4             | Timbale H       |                 |              |  |                |  |                         |  | Conga Analog L        |  |
| F4        |      | 78             | F# 4            | Timbale L       |                 |              |  |                |  |                         |  |                       |  |
| G4        |      | 79             | G 4             | Agogo H         |                 |              |  |                |  |                         |  |                       |  |
|           | G#4  | 80             | G# 4            | Agogo L         |                 |              |  |                |  |                         |  |                       |  |
| A4        |      | 81             | A 4             | Cabasa          |                 |              |  |                |  |                         |  |                       |  |
|           | A#4  | 82             | A# 4            | Maracas         |                 |              |  |                |  |                         |  | Maracas 2             |  |
| B4        |      | 83             | B 4             | Samba Whistle H |                 |              |  |                |  |                         |  |                       |  |
| C5        |      | 84             | C 5             | Samba Whistle L |                 |              |  |                |  |                         |  |                       |  |
|           | C#5  | 85             | C# 5            | Guiro Short     |                 |              |  |                |  |                         |  |                       |  |
| D5        |      | 86             | D 5             | Guiro Long      |                 |              |  |                |  |                         |  |                       |  |
|           | D#5  | 87             | D# 5            | Claves          |                 |              |  |                |  |                         |  | Claves 2              |  |
| E5        |      | 88             | E 5             | Wood Block H    |                 |              |  |                |  |                         |  |                       |  |
|           |      | 89             | F 5             | Wood Block L    |                 |              |  |                |  |                         |  |                       |  |
| F5        |      | 90             | F# 5            | Cuica Mute      |                 |              |  |                |  | Scratch H               |  | Scratch H             |  |
|           | F#5  | 91             | G 5             | Cuica Open      |                 |              |  |                |  | Scratch L               |  | Scratch L             |  |
| G5        |      | 92             | G# 5            | Triangle Mute   |                 |              |  |                |  |                         |  |                       |  |
|           | G#5  | 93             | A 5             | Triangle Open   |                 |              |  |                |  |                         |  |                       |  |
| A5        |      | 94             | A# 5            | Shaker          |                 |              |  |                |  |                         |  |                       |  |
|           | A#5  | 95             | B 5             | Jingle Bells    |                 |              |  |                |  |                         |  |                       |  |
| B5        |      | 96             | C 6             | Bell Tree       |                 |              |  |                |  |                         |  |                       |  |
| C6        |      | 97             | C# 6            |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 98             | D 6             |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 99             | D# 6            |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 100            | E 6             |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 101            | F 6             |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 102            | F# 6            |                 |                 |              |  |                |  |                         |  |                       |  |
|           |      | 103            | G 6             |                 |                 |              |  |                |  |                         |  |                       |  |

| Voice No. |      | 391            | 392                   | 393            | 394                 | 395                     |
|-----------|------|----------------|-----------------------|----------------|---------------------|-------------------------|
| Keyboard  |      | Dance Kit      | Jazz Kit              | Brush Kit      | Symphony Kit        | StdKit1 + Chinese Perc. |
| Note#     | Note |                |                       |                |                     |                         |
|           | 25   | C# 0           |                       |                |                     |                         |
|           | 26   | D 0            |                       |                |                     |                         |
|           | 27   | D# 0           |                       |                |                     |                         |
|           | 28   | E 0            |                       |                |                     |                         |
|           | 29   | F 0            |                       |                |                     |                         |
|           | 30   | F# 0           |                       |                |                     |                         |
|           | 31   | G 0            |                       |                |                     |                         |
|           | 32   | G# 0           |                       |                |                     |                         |
|           | 33   | A 0            |                       |                |                     |                         |
|           | 34   | A# 0           |                       |                |                     |                         |
|           | 35   | B 0            |                       |                |                     |                         |
|           | 36   | C 1            |                       |                |                     |                         |
| C1        | C#1  |                |                       |                |                     |                         |
| D1        | D#1  |                |                       |                |                     |                         |
| E1        | E 1  | Reverse Cymbal |                       |                |                     |                         |
| F1        | F 1  |                |                       |                |                     |                         |
|           | 42   | F# 1           | Hi Q 2                |                |                     |                         |
| G1        | G 1  | Snare Techno   |                       | Brush Slap 2   |                     |                         |
|           | 44   | G# 1           |                       |                |                     |                         |
| A1        | A 1  | Kick Techno Q  |                       |                | Bass Drum Soft L    |                         |
|           | 46   | A# 1           | Rim Gate              |                |                     |                         |
| B1        | B 1  | Kick Techno L  |                       |                | Gran Cassa          |                         |
| C2        | C 2  | Kick Techno    | Bass Drum Jazz        | Bass Drum Jazz | Gran Cassa Mute     |                         |
|           | 49   | C# 2           | Side Stick Analog     |                |                     |                         |
| D2        | D 2  | Snare Clap     |                       |                |                     |                         |
|           | 51   | D# 2           |                       |                |                     |                         |
| E2        | E 2  | Snare Dry      | Snare Jazz M          | Brush Tap      | Band Snare 2        |                         |
| F2        | F 2  | Tom Analog 1   | Tom Jazz 1            | Tom Brush 1    | Tom Jazz 1          |                         |
|           | 54   | F# 2           | Hi-Hat Close Analog 3 |                |                     |                         |
| G2        | G 2  | Tom Analog 2   | Tom Jazz 2            | Tom Brush 2    | Tom Jazz 2          |                         |
|           | 56   | G# 2           | Hi-Hat Close Analog 4 |                |                     |                         |
| A2        | A 2  | Tom Analog 3   | Tom Jazz 3            | Tom Brush 3    | Tom Jazz 3          |                         |
|           | 58   | A# 2           | Hi-Hat Open Analog 2  |                |                     |                         |
| B2        | B 2  | Tom Analog 4   | Tom Jazz 4            | Tom Brush 4    | Tom Jazz 4          |                         |
| C3        | C 3  | Tom Analog 5   | Tom Jazz 5            | Tom Brush 5    | Tom Jazz 5          |                         |
|           | 61   | C# 3           | Cymbal Analog         |                | Hand Cymbal 1       |                         |
| D3        | D 3  | Tom Analog 6   | Tom Jazz 6            | Tom Brush 6    | Tom Jazz 6          |                         |
|           | 63   | D# 3           |                       |                | Hand Cymbal 1 Short |                         |
| E3        | E 3  |                |                       |                |                     |                         |
|           | 64   | E 3            |                       |                |                     |                         |
| F3        | F 3  |                |                       |                |                     |                         |
|           | 66   | F# 3           |                       |                |                     |                         |
| G3        | G 3  |                |                       |                |                     |                         |
|           | 68   | G# 3           | Cowbell Analog        |                |                     |                         |
| A3        | A 3  |                |                       |                | Hand Cymbal 2       |                         |
|           | 70   | A# 3           |                       |                |                     |                         |
| B3        | B 3  |                |                       |                | Hand Cymbal 2 Short |                         |
|           | 72   | C 4            |                       |                |                     |                         |
| C4        | C#4  |                |                       |                |                     |                         |
|           | 74   | D 4            | Conga Analog H        |                |                     |                         |
| D4        | D#4  |                | Conga Analog M        |                |                     |                         |
| E4        | E 4  |                | Conga Analog L        |                |                     |                         |
|           | 77   | F 4            |                       |                |                     |                         |
| F4        | F#4  |                |                       |                |                     |                         |
|           | 78   | F# 4           |                       |                |                     |                         |
| G4        | G 4  |                |                       |                |                     | Dagu Mute               |
|           | 80   | G# 4           |                       |                |                     | Zhongcha Mute           |
| A4        | A 4  |                |                       |                |                     | Dagu Heavy              |
|           | 82   | A# 4           | Maracas 2             |                |                     | Zhongcha Open           |
| B4        | B 4  |                |                       |                |                     | Paigu Middle            |
|           | 84   | C 5            |                       |                |                     | Paigu Low               |
| C5        | C#5  |                |                       |                |                     | Xiaocha Mute            |
|           | 85   | C# 5           |                       |                |                     | Bangu                   |
| D5        | D 5  |                |                       |                |                     | Xiaocha Open            |
|           | 87   | D# 5           | Claves 2              |                |                     | Bangzi                  |
| E5        | E 5  |                |                       |                |                     | Muyu Low                |
|           | 89   | F 5            |                       |                |                     | Zhongluo Mute           |
| F5        | F#5  |                | Scratch H             |                |                     | Paigu Mid-Low           |
|           | 91   | G 5            | Scratch L             |                |                     | Zhongluo Open           |
| G5        | G#5  |                |                       |                |                     | Muyu Middle             |
|           | 92   | G# 5           |                       |                |                     | Zhongluo Open           |
| A5        | A 5  |                |                       |                |                     | Muyu Middle             |
|           | 93   | A 5            |                       |                |                     | Xiaoluo Open            |
| B5        | A#5  |                |                       |                |                     | Triangle Mute           |
|           | 94   | A# 5           |                       |                |                     | Triangle Open           |
|           | 95   | B 5            |                       |                |                     |                         |
|           | 96   | C 6            |                       |                |                     |                         |
| C6        | C#6  |                |                       |                |                     |                         |
|           | 97   | C# 6           |                       |                |                     |                         |
|           | 98   | D 6            |                       |                |                     |                         |
|           | 99   | D# 6           |                       |                |                     |                         |
|           | 100  | E 6            |                       |                |                     |                         |
|           | 101  | F 6            |                       |                |                     |                         |
|           | 102  | F# 6           |                       |                |                     |                         |
|           | 103  | G 6            |                       |                |                     |                         |

# Drum Kit List

| Voice No. |      | 396        | 397                   | 398                   | 399             | 400                 |
|-----------|------|------------|-----------------------|-----------------------|-----------------|---------------------|
| Keyboard  |      | Indian Kit | Arabic Kit            | SFX Kit 1             | SFX Kit 2       | Sound Effect Kit    |
| Note#     | Note |            |                       |                       |                 |                     |
|           | 25   | C# 0       | Zarb Back mf          |                       |                 |                     |
|           | 26   | D 0        | Zarb Tom f            |                       |                 |                     |
|           | 27   | D# 0       | Indian Hand Clap      | Zarb Eshareh          |                 |                     |
|           | 28   | E 0        | Dafli Open            | Zarb Whipping         |                 |                     |
|           | 29   | F 0        | Dafli Slap            | Tombak Tom f          |                 |                     |
|           | 30   | F# 0       | Dafli Rim             | Neghareh Tom f        |                 |                     |
|           | 31   | G 0        | Duff Open             | Tombak Back f         |                 |                     |
|           | 32   | G# 0       | Duff Slap             | Neghareh Back f       |                 |                     |
|           | 33   | A 0        | Duff Rim              | Tombak Snap f         |                 |                     |
|           | 34   | A# 0       | Hatheli Long          | Neghareh Pelang f     |                 |                     |
|           | 35   | B 0        | Hatheli Short         | Tombak Trill          |                 |                     |
|           | 36   | C 1        | Baya ge               | Khaligi Clap 1        | Cutting Noise 1 | Phone Call          |
|           | 37   | C# 1       | Baya ke               | Arabic Zalgouta Open  | Cutting Noise 2 | Door Squeak         |
|           | 38   | D 1        | Baya ghe              | Khaligi Clap 2        |                 | Door Slam           |
|           | 39   | D# 1       | Baya ka               | Arabic Zalgouta Close | String Slap     | Scratch Cut         |
|           | 40   | E 1        | Tabla na              | Arabic Hand Clap      |                 | Scratch             |
|           | 41   | F 1        | Tabla tin             | Table Tak 1           |                 | Wind Chime          |
|           | 42   | F# 1       | Tablabaya dha         | Sagat 1               |                 | Telephone Ring      |
|           | 43   | G 1        | Dhol 1 Open           | Tablel Dom            |                 |                     |
|           | 44   | G# 1       | Dhol 1 Slap           | Sagat 2               |                 |                     |
|           | 45   | A 1        | Dhol 1 Mute           | Tablel Tak 2          |                 |                     |
|           | 46   | A# 1       | Dhol 1 Open Slap      | Sagat 3               |                 |                     |
|           | 47   | B 1        | Dhol 1 Roll           | Riq Tik 3             |                 |                     |
|           | 48   | C 2        | Dandia Short          | Riq Tik 2             |                 | Heartbeat           |
|           | 49   | C# 2       | Dandia Long           | Riq Tik Hard 1        |                 | Footsteps           |
|           | 50   | D 2        | Chutki                | Riq Tik 1             |                 | Door Squeak         |
|           | 51   | D# 2       | Chupri                | Riq Tik Hard 2        |                 | Door Slam           |
|           | 52   | E 2        | Khanjira Open         | Riq Tik Hard 3        | Flute Key Click | Car Engine Ignition |
|           | 53   | F 2        | Khanjira Slap         | Riq Tish              |                 | Car Tires Squeal    |
|           | 54   | F# 2       | Khanjira Mute         | Riq Snouj 2           |                 | Camera              |
|           | 55   | G 2        | Khanjira Bendup       | Riq Roll              |                 | Car Passing         |
|           | 56   | G# 2       | Khanjira Benddown     | Riq Snouj 1           |                 | Car Crash           |
|           | 57   | A 2        | Dholak 1 Open         | Riq Sak               |                 | Hiccup              |
|           | 58   | A# 2       | Dholak 1 Mute         | Riq Snouj 3           |                 | Siren               |
|           | 59   | B 2        | Dholak 1 Slap         | Riq Snouj 4           |                 | Train               |
|           | 60   | C 3        | Dhol 2 Open           | Riq Tik 1             |                 | Jet Plane           |
|           | 61   | C# 3       | Dhol 2 Slap           | Riq Brass 1           |                 | Starship            |
|           | 62   | D 3        | Dhol 2 Rim            | Riq Brass 2           |                 | Burst               |
|           | 63   | D# 3       | Mridangam na          | Riq Brass 2           |                 | Roller Coaster      |
|           | 64   | E 3        | Mridangam din         | Riq Dom               |                 | Submarine           |
|           | 65   | F 3        | Mridangam ki          | Katem Tak Doff        |                 | Owl                 |
|           | 66   | F# 3       | Mridangam ta          | Katem Dom             |                 | Horse Gallop        |
|           | 67   | G 3        | Mridangam Chapu       | Katem Sak 1           |                 | Horse Neigh         |
|           | 68   | G# 3       | Mridangam Lo Closed   | Katem Tak 1           | Shower          | Cow                 |
|           | 69   | A 3        | Mridangam Lo Open     | Katem Sak 2           | Thunder         | Lion                |
|           | 70   | A# 3       | Chimta Normal         | Katem Tak 2           | Wind            | Scratch             |
|           | 71   | B 3        | Chimta Ring           | Daholla Sak 2         | Stream          | Laugh               |
|           | 72   | C 4        | Dholki Hi Open        | Daholla Sak 1         | Bubble          | Scream              |
|           | 73   | C# 4       | Dholki Hi Mute        | Daholla Tak 1         | Feed            | Punch               |
|           | 74   | D 4        | Dholki Lo Open        | Daholla Dom           |                 | Go!                 |
|           | 75   | D# 4       | Dholki Hi Slap        | Daholla Tak 2         |                 | Get up!             |
|           | 76   | E 4        | Dholki Lo Slide       | Tablah Prok           |                 | Whoow!              |
|           | 77   | F 4        | Khol Open             | Tablah Dom 2          |                 |                     |
|           | 78   | F# 4       | Khol Slide            | Tablah Roll of Edge   |                 |                     |
|           | 79   | G 4        | Khol Mute             | Tablah Tak Finger 4   |                 |                     |
|           | 80   | G# 4       | Manjira Open          | Tablah Tak Trill 1    |                 |                     |
|           | 81   | A 4        | Manjira Close         | Tablah Tak Finger 3   |                 |                     |
|           | 82   | A# 4       | Jhanji Open           | Tablah Tak Trill 2    |                 |                     |
|           | 83   | B 4        | Jhanji Close          | Tablah Tak Finger 2   |                 |                     |
|           | 84   | C 5        | Mondira Open          | Tablah Tak Finger 1   | Dog             |                     |
|           | 85   | C# 5       | Mondira Close         | Tablah Tik 2          | Horse           | Machine Gun         |
|           | 86   | D 5        | Indian Bhangra Scat 1 | Tablah Tik 4          | Bird Tweet      | Laser Gun           |
|           | 87   | D# 5       | Indian Bhangra Scat 2 | Tablah Tik 3          |                 | Explosion           |
|           | 88   | E 5        | Indian Bhangra Scat 3 | Tablah Tik 1          |                 | Firework            |
|           | 89   | F 5        | Indian Bhangra Scat 4 | Tablah Tak 3          |                 |                     |
|           | 90   | F# 5       | Khomokh Normal        | Tablah Tak 1          |                 |                     |
|           | 91   | G 5        | Khomokh Mute          | Tablah Tak Finger 2   | Maou            |                     |
|           | 92   | G# 5       | Khomokh Miltak        | Tablah Tak 2          |                 |                     |
|           | 93   | A 5        | Thavil Open           | Tablah Sak 2          |                 |                     |
|           | 94   | A# 5       | Thavil Slap           | Tablah Tremolo        |                 |                     |
|           | 95   | B 5        | Thavil Mute           | Tablah Sak 1          |                 |                     |
|           | 96   | C 6        | Khartaal              | Tablah Dom 1          |                 |                     |
|           | 97   | C# 6       | Dholak 2 Open         |                       |                 |                     |
|           | 98   | D 6        | Dholak 2 Slide        |                       |                 |                     |
|           | 99   | D# 6       | Dholak 2 Rim 1        |                       |                 |                     |
|           | 100  | E 6        | Dholak 2 Rim 2        |                       |                 |                     |
|           | 101  | F 6        | Dholak 2 Ring         |                       |                 |                     |
|           | 102  | F# 6       | Dholak 2 Slap         |                       |                 |                     |
|           | 103  | G 6        |                       |                       |                 |                     |

C1  
D1  
E1  
F1  
G1  
A1  
B1  
C2  
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E4  
F4  
G4  
A4  
B4  
C5  
D5  
E5  
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G5  
A5  
B5  
C6

Appendix



# Song List

| Song No.                   | Song Name   |
|----------------------------|---|
| <b>Top Picks</b>           |   |
| 001                        | Demo 1  |
| 002                        | Demo 2  |
| 003                        | Demo 3  |
| <b>Favorite</b>            |   |
| 004                        | Frère Jacques                                     |
| 005                        | Der Froschgesang                                  |
| 006                        | Aura Lee  |
| 007                        | London Bridge                                     |
| 008                        | Sur le pont d'Avignon                             |
| 009                        | Nedelka   |
| 010                        | Aloha Oe  |
| 011                        | Sippin' Cider Through a Straw                     |
| 012                        | Old Folks at Home                                 |
| 013                        | Bury Me Not on the Lone Prairie                   |
| 014                        | Cielito Lindo                                     |
| 015                        | Santa Lucia                                       |
| 016                        | If You're Happy and You Know It                   |
| 017                        | Beautiful Dreamer                                 |
| 018                        | Greensleeves                                      |
| 019                        | Kalinka   |
| 020                        | Holdilia Cook                                     |
| 021                        | Ring de Banjo                                     |
| 022                        | La Cucaracha                                      |
| 023                        | Funiculi Funicula                                 |
| 024                        | Largo (from the New World)                        |
| 025                        | Brahms' Lullaby                                   |
| 026                        | Liebesträume Nr.3                                 |
| 027                        | Pomp and Circumstance                             |
| 028                        | Chanson du Toreador                               |
| 029                        | Jupiter, the Bringer of Jollity                   |
| 030                        | The Polovetsian Dances                            |
| 031                        | Die Moldau  |
| 032                        | Salut d'Amour op.12                               |
| 033                        | Humoresques                                       |
| 034                        | Symphony No.9 (from the New World - 4th movement) |
| <b>Instrument Master</b>   |   |
| 035                        | Sicilienne/Fauré                                  |
| 036                        | Swan Lake   |
| 037                        | Grand March (Aida)                                |
| 038                        | Serenade for Strings in C major, op.48            |
| 039                        | Pizzicato Polka                                   |
| 040                        | Romance de Amor                                   |
| 041                        | Menuett BWV. Anh.114                              |
| 042                        | Ave Verum Corpus                                  |
| <b>Duet</b>                |   |
| 043                        | Ten Little Indians (DUET)                         |
| 044                        | The Cuckoo (DUET)                                 |
| 045                        | Close Your Hands, Open Your Hands (DUET)          |
| 046                        | O du lieber Augustin (DUET)                       |
| 047                        | We Wish You A Merry Christmas (DUET)              |
| 048                        | London Bridge (DUET)                              |
| 049                        | Scarborough Fair (DUET)                           |
| 050                        | Twinkle Twinkle Little Star (DUET)                |
| 051                        | Im Mai (DUET)                                     |
| 052                        | O Christmas Tree (DUET)                           |
| 053                        | Pop Goes The Weasel (DUET)                        |
| 054                        | Mary Had a Little Lamb (DUET)                     |
| 055                        | Row Row Row Your Boat (DUET)                      |
| 056                        | On Top of Old Smoky (DUET)                        |
| <b>Favorite with Style</b> |   |
| 057                        | Amazing Grace                                     |
| 058                        | Oh! Susanna                                       |
| 059                        | Joy to the World                                  |

| Song No.                | Song Name                                |
|-------------------------|--|
| 060                     | Little Brown Jug                         |
| 061                     | Yankee Doodle                            |
| 062                     | My Darling Clementine                    |
| 063                     | Auld Lang Syne                           |
| 064                     | My Bonnie                                |
| 065                     | When the Saints Go Marching In           |
| 066                     | The Danube Waves                         |
| 067                     | Battle Hymn of the Republic              |
| 068                     | I've Been Working On The Railroad        |
| 069                     | Grandfather's Clock                      |
| 070                     | Bill Bailey (Won't You Please Come Home) |
| 071                     | Down by the Riverside                    |
| 072                     | Camptown Races                           |
| 073                     | When Irish Eyes Are Smiling              |
| 074                     | Ave Maria                                |
| 075                     | American Patrol                          |
| 076                     | Valse Des Fleurs (From "The Nutcracker") |
| 077                     | Frühlingsstimmen                         |
| <b>Piano Repertoire</b> |  |
| 078                     | Wenn ich ein Vöglein wär                 |
| 079                     | Die Lorelei                              |
| 080                     | Home Sweet Home                          |
| 081                     | Scarborough Fair                         |
| 082                     | My Old Kentucky Home                     |
| 083                     | Loch Lomond                              |
| 084                     | Silent Night                             |
| 085                     | Deck the Halls                           |
| 086                     | O Christmas Tree                         |
| 087                     | Sonata Pathétique 2nd Adagio Cantabile   |
| 088                     | Ave Maria/J. S. Bach - Gounod            |
| 089                     | Jesus bleibet meine Freude               |
| 090                     | Prelude op.28-15 "Raindrop"              |
| 091                     | Nocturne op.9-2                          |
| 092                     | Etude op.10-3 "Chanson de L'adieu"       |
| 093                     | Romanze (Serenade K.525)                 |
| 094                     | Arabesque                                |
| 095                     | La Chevaleresque                         |
| 096                     | Für Elise                                |
| 097                     | Turkish March                            |
| 098                     | 24 Preludes op.28-7                      |
| 099                     | Annie Laurie                             |
| 100                     | Jeanie with the Light Brown Hair         |

| Song No.    | Special Appendix              |
|-------------|-------------------------------|
| Chord Study |                               |
| 101-112     | Chord Study 01-Chord Study 12 |

- 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 the Song Book, complete the user registration at the following website.  
<https://member.yamaha.com/myproduct/regist/>

# Style List

| Style No.             | Style Name    |
|-----------------------|---------------|
| <b>8Beat</b>          |               |
| 1                     | BritPopRock   |
| 2                     | 8BeatModern   |
| 3                     | Cool8Beat     |
| 4                     | 60sGuitarPop  |
| 5                     | 8BeatAdria    |
| 6                     | 60s8Beat      |
| 7                     | 8Beat         |
| 8                     | OffBeat       |
| 9                     | 60sRock       |
| 10                    | HardRock      |
| 11                    | RockShuffle   |
| 12                    | 8BeatRock     |
| <b>16Beat</b>         |               |
| 13                    | 16Beat        |
| 14                    | PopShuffle    |
| 15                    | GuitarPop     |
| 16                    | 16BeatUptempo |
| 17                    | KoolShuffle   |
| 18                    | HipHopLight   |
| <b>Ballad</b>         |               |
| 19                    | 70sGlamPiano  |
| 20                    | PianoBallad   |
| 21                    | LoveSong      |
| 22                    | 6/8ModernEP   |
| 23                    | 6/8SlowRock   |
| 24                    | OrganBallad   |
| 25                    | PopBallad     |
| 26                    | 16BeatBallad  |
| <b>Dance</b>          |               |
| 27                    | EuroTrance    |
| 28                    | Ibiza         |
| 29                    | SwingHouse    |
| 30                    | Clubdance     |
| 31                    | ClubLatin     |
| 32                    | Garage 1      |
| 33                    | Garage 2      |
| 34                    | TechnoParty   |
| 35                    | UKPop         |
| 36                    | HipHopGroove  |
| 37                    | HipShuffle    |
| 38                    | HipHopPop     |
| <b>Disco</b>          |               |
| 39                    | 70sDisco      |
| 40                    | LatinDisco    |
| 41                    | SaturdayNight |
| 42                    | DiscoHands    |
| <b>Swing&amp;Jazz</b> |               |
| 43                    | BigBandFast   |
| 44                    | BigBandBallad |
| 45                    | JazzClub      |
| 46                    | Swing 1       |
| 47                    | Swing 2       |
| 48                    | Five/Four     |
| 49                    | Dixieland     |
| 50                    | Ragtime       |
| <b>R&amp;B</b>        |               |
| 51                    | Soul          |
| 52                    | DetroitPop    |

| Style No.       | Style Name      |
|-----------------|-----------------|
| 53              | 6/8Soul         |
| 54              | CrocoTwist      |
| 55              | Rock&Roll       |
| 56              | ComboBoogie     |
| 57              | 6/8Blues        |
| <b>Country</b>  |                 |
| 58              | CountryPop      |
| 59              | CountrySwing    |
| 60              | Country2/4      |
| 61              | Bluegrass       |
| <b>Latin</b>    |                 |
| 62              | BrazilianSamba  |
| 63              | BossaNova       |
| 64              | Forro           |
| 65              | Sertanejo       |
| 66              | Joropo          |
| 67              | Parranda        |
| 68              | Reggaeton       |
| 69              | Tijuana         |
| 70              | PasoDuranguense |
| 71              | CumbiaGrupera   |
| 72              | Mambo           |
| 73              | Salsa           |
| 74              | Beguine         |
| 75              | Reggae          |
| <b>World</b>    |                 |
| 76              | ScottishReel    |
| 77              | Saeidy          |
| 78              | WehdaSaghira    |
| 79              | IranianElec     |
| 80              | Emarati         |
| 81              | IndianPop       |
| 82              | Bhangra         |
| 83              | Bhajan          |
| 84              | BollyMix        |
| 85              | Tamil           |
| 86              | Kerala          |
| 87              | GoanPop         |
| 88              | Rajasthan       |
| 89              | Dandiya         |
| 90              | Qawwali         |
| 91              | FolkHills       |
| 92              | ModernDangdut   |
| 93              | Keroncong       |
| 94              | XiQingLuoGu     |
| 95              | YiZuMinGe       |
| 96              | JingJuJieZou    |
| <b>Ballroom</b> |                 |
| 97              | VienneseWaltz   |
| 98              | EnglishWaltz    |
| 99              | Slowfox         |
| 100             | Foxtrot         |
| 101             | Quickstep       |
| 102             | Tango           |
| 103             | Pasodoble       |
| 104             | Samba           |
| 105             | ChaChaCha       |
| 106             | Rumba           |
| 107             | Jive            |

| Style No.          | Style Name       |
|--------------------|------------------|
| <b>Traditional</b> |                  |
| 108                | US March         |
| 109                | 6/8March         |
| 110                | GermanMarch      |
| 111                | PolkaPop         |
| 112                | OberkainerPolka  |
| 113                | Tarantella       |
| 114                | Showtune         |
| 115                | ChristmasSwing   |
| 116                | ChristmasWaltz   |
| <b>Waltz</b>       |                  |
| 117                | ItalianWaltz     |
| 118                | SwingWaltz       |
| 119                | JazzWaltz        |
| 120                | CountryWaltz     |
| 121                | OberkainerWalzer |
| 122                | Musette          |
| <b>Pianist</b>     |                  |
| 123                | Stride           |
| 124                | PianoSwing       |
| 125                | Arpeggio         |
| 126                | Habanera         |
| 127                | SlowRock         |
| 128                | 8BeatPianoBallad |
| 129                | 6/8PianoMarch    |
| 130                | PianoWaltz       |

# Effect Type List

## Reverb Types

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

## Chorus Types

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

# Specifications

|  |                        |                              |   |
|--|------------------------|------------------------------|---|
| <b>Product Name</b>  |                        | Digital Keyboard             |   |
| <b>Size/Weight</b>   | Dimensions (W x D x H) |                              | 940mm x 317mm x 106mm (37" x 12-1/2" x 4-3/16")   |
|  | Weight                 |                              | 4.0kg (not including batteries) (8lb 13oz)  |
| <b>Control Interface</b>   | Keyboard               | Number of Keys               | 61  |
|  | Display                | Type                         | LCD display   |
|  |                        | Language                     | English   |
|  | Panel                  | Language                     | English   |
| <b>Voices</b>  | Tone Generation        | Tone Generation Technology   | AWM Stereo Sampling   |
|  | Polyphony              | Number of Polyphony (max.)   | 32  |
|  | Preset                 | Number of Voices             | 384 Voices + 16 drum/SFX kits   |
| <b>Effects</b>   | Types                  | Reverb                       | 9 types   |
|  |                        | Chorus                       | 5 types   |
|  |                        | Master EQ                    | 6 types   |
|  |                        | Ultra-Wide Stereo            | 3 types   |
|  | Functions              | Panel Sustain                | Yes   |
| <b>Accompaniment Styles</b>  | Preset                 | Number of Styles             | 130   |
|  |                        | Fingering                    | Multi finger  |
|  |                        | Style Control                | ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit, MAIN/AUTO FILL   |
|  | Other Features         | One Touch Setting (OTS)      | Yes   |
| <b>Songs</b><br>(Audio not supported.)   | Preset                 | Number of Preset Songs       | 112 (including Chord Study: 12)   |
|  | Recording              | Number of Songs              | 1   |
|  |                        | Number of Tracks             | 1   |
|  |                        | Data Capacity                | Approx. 300 notes   |
|  |                        | Compatible Data Format       | Original File Format  |
| <b>Function</b>  | Lesson                 | Yamaha Education Suite (YES) | [1 LISTEN & LEARN], [2 TIMING], [3 WAITING], [A-B REPEAT], [CHORD DICTIONARY]   |
|  | Overall Controls       | Metronome                    | Yes   |
|  |                        | Tempo Range                  | 11–280  |
|  |                        | Transpose                    | -12 to 0, 0 to +12  |
|  |                        | Tuning                       | 427.0–440.0–453.0 Hz (approx. 0.2Hz increments)   |
|  | Miscellaneous          | Duo                          | Yes   |
|  |                        | PIANO Button                 | Yes (Portable Grand Button)   |
| <b>Connectivity</b>  | DC IN                  |                              | 12V   |
|  | Headphones/Output      |                              | Standard stereo phone jack x 1  |
|  | Sustain Pedal          |                              | Yes   |
|  | AUX IN                 |                              | Stereo mini jack  |
| <b>Sound System</b>  | Amplifiers             |                              | 2.5W + 2.5W   |
|  | Speakers               |                              | 12cm x 2  |
| <b>Power Supply</b>  | Power Supply           | AC Adaptor                   | PA-130 or an equivalent recommended by Yamaha   |
|  |                        | Batteries                    | Six 1.5V "AA" size alkaline (LR6), manganese (R6) or six 1.2V "AA" size Ni-MH rechargeable batteries (HR6)  |
|  | Power Consumption      |                              | 6W (When using PA-130 AC adaptor)   |
| Auto Power Off   |                        | Yes                          |   |
| <b>Included Accessories</b>  |                        |                              | <ul style="list-style-type: none"> <li>• Owner's Manual</li> <li>• AC adaptor * (PA-130 or an equivalent recommended by Yamaha)</li> <li>• Music rest</li> <li>• Online Member Product Registration</li> </ul> <p>* May not be included depending on your area. Please check with your Yamaha dealer.</p>   |
| <b>Separately Sold Accessories</b><br>(May not be available depending on your area.) |                        |                              | <ul style="list-style-type: none"> <li>• AC adaptor:<br/>Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha</li> <li>Others: PA-3C, PA-130 or an equivalent</li> <li>• Keyboard stand: L-2C</li> <li>• Headphones: HPH-50/HPH-100/HPH-150</li> <li>• Footswitch: FC4A/FC5</li> </ul> |

\* 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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