



DIGITAL KEYBOARD  
*PSR-I455*

Setting Up

Quick Guide

Reference

Appendix

Owner's Manual



EN



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

**Model No.**

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**Serial No.**

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(bottom\_en\_01)

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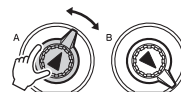
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## Special Features

### Creating New Sounds

► Page 21

By adjusting just two knobs you can add varying degrees of distortion, “sweetness,” or other characteristics to a sound to change it subtly or drastically. Parameters that can be assigned to the knobs include effect, filter, envelope generator and more. You can create new sounds in real time!



.....

### Arpeggio Function

► Page 20

Similar to the arpeggio functions provided on some synthesizers, this function automatically produces arpeggios (broken chords) when you simply play the appropriate notes on the keyboard. A variety of arpeggios can be produced by changing your fingering or the arpeggio type.



.....

### Play a Variety of Instrument Voices

► Page 16

The instrument voice that sounds when you play the keyboard can be changed to violin, flute, harp, or any of an extensive range of voices. You can change the mood of a song written for piano, for example, by using violin to play it instead. Experience a whole new world of musical variety.



.....

### Play Along with Styles

► Page 22

Want to play with full accompaniment? Try the auto-accompaniment Styles. The accompaniment styles provide the equivalent of a full backing band covering a wide variety of styles from waltzes to 8-beat to euro-trance ... and much more. Select a style that matches the music you want to play, or experiment with new styles to expand your musical horizons.



.....

### Try playing the Tabla/Tanpura feature!

► Page 23

This special feature lets you play Indian phrase patterns via the Tabla and Tanpura sounds, as if you were using the Tabla machine and Tanpura machine. Let's enjoy the conventional Indian music via the panel buttons and Knobs.



.....

# PRECAUTIONS

## PLEASE READ CAREFULLY BEFORE PROCEEDING

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



### WARNING

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

#### Power supply/AC power 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 81) 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, 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 12) 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 power 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 the stand or rack, 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.

## NOTICE

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

### ■ Handling and Maintenance

- 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.
- 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.

### ■ Saving data

- Some data items (page 32) are automatically saved as backup data in the internal memory even if you turn the power off. Saved data may be lost due to malfunction or incorrect operation. Save important data to external device such as a USB flash memory (page 51).

## 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 computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.

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

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

### ■ About this manual

- The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

## Compatible Format and Functions



### GM System Level 1

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



### XGlite

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



### USB

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



### STYLE FILE

The Style File Format is Yamaha’s original style file format which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types.



## About the Manuals

This instrument has the following documents and instructional materials.

### ■ Included Documents



#### Owner's Manual (this book)

- Setting Up Please read this section first.
- Quick Guide This section explains how to use the basic functions. Refer to this section while playing the instrument.
- Reference This section explains how to make detailed settings for the various functions of the instrument.
- Appendix This section includes troubleshooting information and specifications.



#### Data List

Contains various important preset content lists such as those of Voices, Styles, Tabla/Tanpura patterns and Effects.

### ■ Online Materials (from Yamaha Manual Library)



#### MIDI Reference

Contains MIDI related information such as MIDI Data Format and the MIDI Implementation Chart.



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

Contains basic explanations about MIDI.



#### Computer-related Operations

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

To obtain these manuals, access the Yamaha Manual Library, enter “PSR-I455” or “MIDI Basics” to the Model Name box, then click [SEARCH].

**Yamaha Manual Library** <http://www.yamaha.co.jp/manual/>

### ■ Online Materials (for Yamaha Online members)



#### Song Book (only in English)

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.

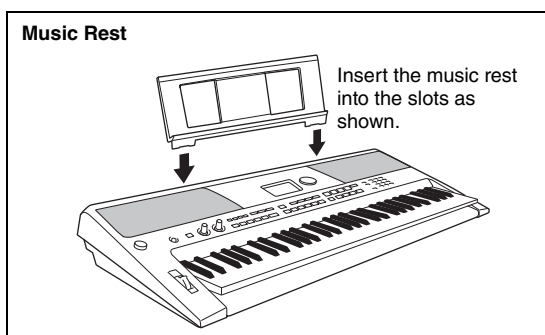
**Yamaha Online Member** <https://member.yamaha.com/myproduct/regist/>

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

- Owner's Manual (this book)
- AC Power Adaptor
- Music Rest
- Online Member Product Registration\*

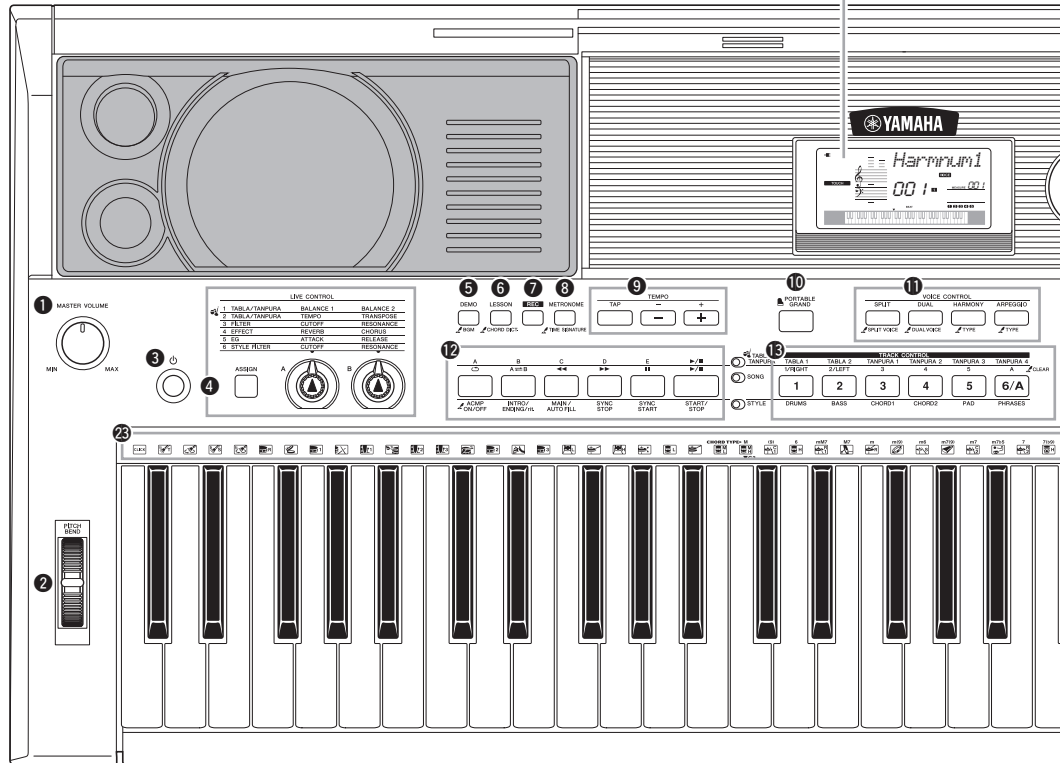
\* The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.



# Panel Controls and Terminals

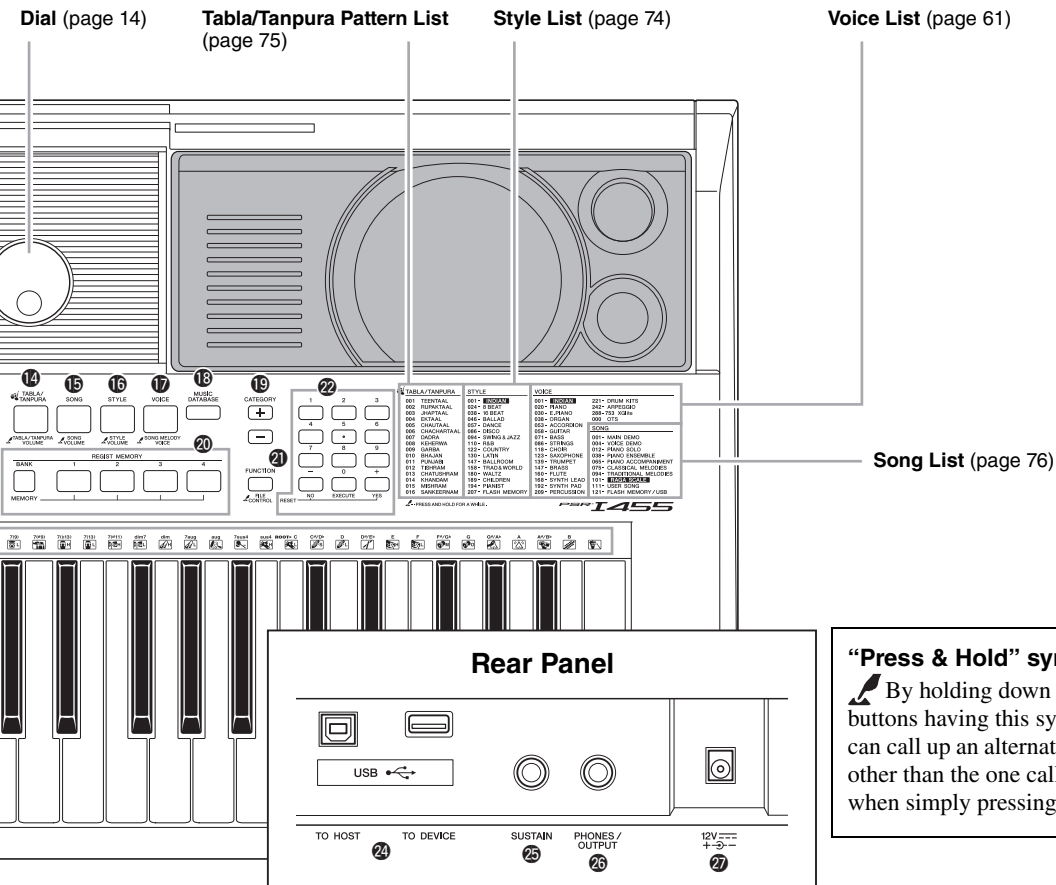
## Front Panel

Display (page 15)



## Front Panel

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>❶ [MASTER VOLUME] control .....Page 14</li> <li>❷ [PITCH BEND] wheel .....Page 34</li> <li>❸ [ ] (Standby/On) switch .....Page 14</li> <li>❹ LIVE CONTROL section             <ul style="list-style-type: none"> <li>[ASSIGN] button .....Page 21</li> <li>[A] and [B] knobs .....Page 21</li> </ul> </li> <li>❺ [DEMO] button .....Page 24</li> <li>❻ [LESSON] button .....Page 26</li> <li>❼ [REC] button .....Page 28</li> <li>❽ [METRONOME] button .....Page 18</li> <li>❾ TEMPO section             <ul style="list-style-type: none"> <li>[TAP] button .....Page 42</li> <li>[-] and [+] buttons .....Page 42</li> </ul> </li> <li>❿ [PORTABLE GRAND] button .....Page 16</li> </ul> | <ul style="list-style-type: none"> <li>⓫ VOICE CONTROL section             <ul style="list-style-type: none"> <li>[SPLIT] button .....Page 17</li> <li>[DUAL] button .....Page 16</li> <li>[HARMONY] button .....Page 19</li> <li>[ARPEGGIO] button .....Page 20</li> </ul> </li> <li>⓬ Playback Control buttons             <ul style="list-style-type: none"> <li>• When the [TABLA/TANPURA] lamp is turned on: .....Pages 23 and 42</li> <li>• When the [SONG] lamp is turned on: .....Page 25</li> <li>• When the [STYLE] lamp is turned on: .....Pages 22, 40, and 41</li> </ul> </li> </ul> |
|---|---|



**“Press & Hold” symbol**  
 By holding down one of the buttons having this symbol, you can call up an alternate function, other than the one called up when simply pressing.

- 18** [TRACK CONTROL] buttons
  - When the [TABLA/TANPURA] lamp is turned on: .....Page 23
  - When the [SONG] lamp is turned on: .....Page 25
  - When the [STYLE] lamp is turned on: .....Page 41
- 14** [TABLA/TANPURA] button .....Page 23
- 15** [SONG] button .....Page 24
- 16** [STYLE] button .....Page 22
- 17** [VOICE] button .....Page 16
- 18** [MUSIC DATABASE] button .....Page 22
- 19** [CATEGORY] buttons .....Page 14
- 20** [REGIST MEMORY] buttons .....Page 31
- 21** [FUNCTION] button .....Page 48

- 22** Number buttons [1]–[9], [–/NO], [0/EXECUTE] and [+ /YES] buttons .....Page 14
- 23** 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.”

## Rear Panel

- 24** USB terminals
  - USB TO HOST terminal\* .....Page 49
  - USB TO DEVICE terminal .....Page 51
- 25** SUSTAIN jack .....Page 13
- 26** PHONES/OUTPUT jack .....Page 13
- 27** Power supply jack .....Page 12

\* For connecting to a computer. For details, refer to “Computer-related Operations” (page 9). When connecting, use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.

## Power Requirements

Although the instrument will run either from an optional 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 Power Adaptor

- 1 Make sure that the power of the instrument is off (display is blank, except for notation staff).

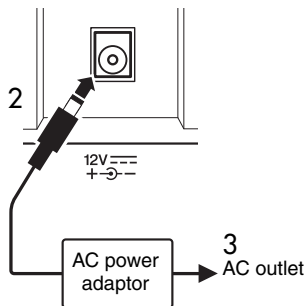
#### **WARNING**

- Use the specified adaptor (page 81) only. Using the wrong adaptor can result in damage to the instrument or overheating.

- 2 Connect the AC adaptor to the power supply jack.
- 3 Plug the AC adaptor into an AC outlet.

#### **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 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.



## Using Batteries

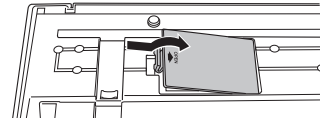
This instrument requires six “AA” size, Alkaline (LR6)/Manganese (R6) batteries, or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries). The Alkaline batteries or rechargeable Ni-MH batteries are recommended for this instrument, since other types may result in poorer battery performance.

#### **WARNING**

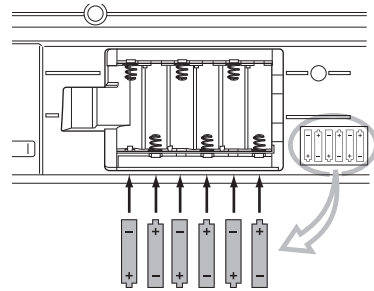
- When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.

## ■ Installing the batteries

- 1 Make sure that the power of the instrument is off (display is blank, except for notation staff).
- 2 Open the battery compartment cover located on the instrument’s bottom panel.



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



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

#### **NOTICE**

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

When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries with new ones or already-recharged ones.

#### **NOTE**

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

## ■ Setting the battery type

After installing the new batteries then turning the power on, make sure to set the Battery Type to Rechargeable type or not. For details, refer to page 50.

#### **NOTICE**

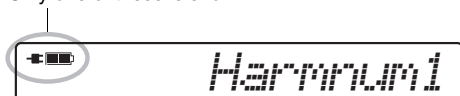
- Failure to set the Battery Type may shorten the amount of the battery life. Make sure to set the Battery Type correctly.




## ■ Checking the power status on the display

### ● Power source on the display

You can confirm the power source at the left corner of the display.




Only one of these is shown.



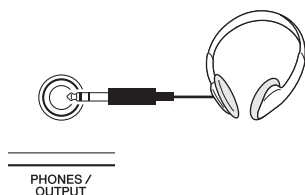
When  is shown, the power is supplied from the AC power adaptor. When  is shown, the power is supplied from the batteries. When the AC power adaptor is connected with the batteries installed, the power is supplied from the AC power adaptor and the  indication is shown.

### ● Remaining battery power indication

You can confirm the approximate amount of remaining battery power at the top left of the display.

	Indicates that the power will be turned off immediately. When rechargeable batteries are used, this icon flashes before the power is turned off.
	Indicates that remaining power is insufficient for operation. Before the power runs out, replace all the batteries with new ones, or fully recharged ones (when using rechargeable types). Note that the instrument may not work properly, including unusually soft volume and poor sound quality when remaining power becomes low.
	Indicates that the remaining power is sufficient.

## Connecting Headphones or External Audio Equipment



Any pair of stereo headphones with a 1/4" stereo phone plug can be plugged in here for convenient monitoring. The speakers are automatically shut off when a plug is inserted into this jack.

The PHONES/OUTPUT jack also functions as an external output. You can connect the PHONES/OUT-

PUT jack to a keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's output signal to that device.

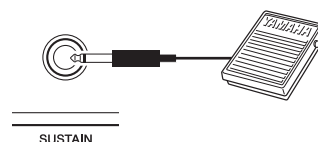
### ⚠ CAUTION

- *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.*
- *Before connecting the instrument to other electronic components, set all volume levels to the minimum, then turn off the power for all components.*

### NOTICE

- *When the instrument's sound is output to an external device, first turn on the power to the instrument, then to the external device. Reverse this order when you turn the power off.*

## Connecting a Footswitch to the SUSTAIN jack



You can produce a natural sustain as you play by pressing an optional footswitch plugged into the [SUSTAIN] jack. Although the footswitch works as the Sustain pedal for most Voices, it features other functions such as Sostenuato and Arpeggio Hold (for Voices 242–287). One of these functions can be assigned to the footswitch on the Function display (page 50).

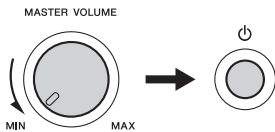
### NOTE

- *When Split is on, the sustain function does not affect the current Split Voice (page 17) while sostenuto and Arpeggio Hold (page 39) affect only the current Split Voice.*
- *Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.*
- *Do not press the footswitch while turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.*

# Basic Operations

## Turning the Power On/Off

Turn down the MASTER VOLUME control to “MIN” then press the [ ⏻ ] (Standby/On) switch to turn on the power. While playing the keyboard, adjust the MASTER VOLUME control. To turn off the power, press the [ ⏻ ] (Standby/On) switch again for a second.



### CAUTION

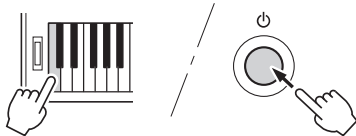
- When using a power adaptor, even when the power is off, a small amount of electricity is still being consumed by the instrument. When you are not using the instrument for a long time, make sure to unplug the AC power adaptor from the wall AC outlet.

## 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 will elapse before the power is automatically turned off is set by default to 30 minutes.

### To disable the Auto Power Off function:

Turn off the power, then press the [ ⏻ ] (Standby/On) switch to turn on the power while holding down the lowest key.



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

Press the [FUNCTION] button, press the CATEGORY [+] or [-] button several times until “Auto Power Off” appears then select the desired value.

- Settings: OFF, 5, 10, 15, 30, 60, 120
- Default value: 30

### NOTE

- Generally, the data and settings are maintained even when the power is turned off. For details, see 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.

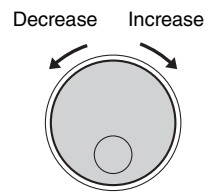
- When the instrument is not operated for a specified period of time while connected to an external device such as an amplifier, speaker or computer, make sure to follow the instructions in the Owner's Manual to turn off the power to the instrument and the connected devices, in order to protect the devices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

## Selecting 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.

### Dial

Rotate the dial clockwise to increase the value, or counter-clockwise to decrease the value.

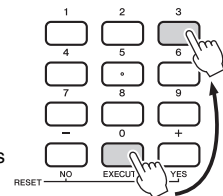


### Number buttons

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.

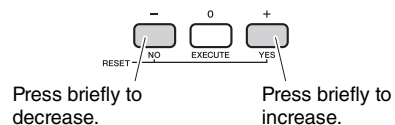
Example: Selecting Voice 003, Harmnum3.

Press number buttons [0], [0], [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.



### CATEGORY buttons

Use these buttons to jump to the first Voice, Style, or Song in the next or previous Category, and call up the next or previous Function sequentially.




# Display Items

The display shows all the current settings of the Song, Style, Tabla/Tanpura, Voice and other related functions.


### Power source status

Indicates the source from which this instrument obtains power, AC power adaptor or batteries. (Page 13)



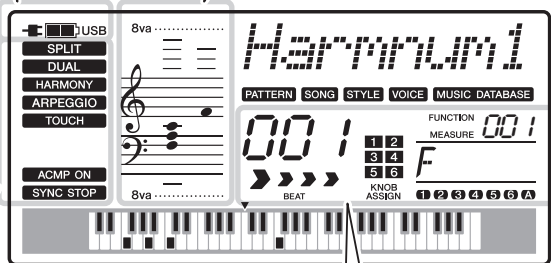
### Notation

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 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.




### On/off status

This area indicates the on/off status of each function. Each indication is shown when the corresponding function is turned on.

SPLIT	Page 17
DUAL	Page 16
HARMONY	Page 19
ARPEGGIO	Page 20
TOUCH	Page 35
ACMP ON	Page 22
SYNC STOP	Page 41

### Beat

Indicates the current beat of playback. (Page 24)



### Knob assignment

Indicates the parameters currently assigned to the Knobs. (Page 21)

1	2
3	4
5	6

KNOB ASSIGN

### FUNCTION and MEASURE

Indicates the Function number, the current Measure number of a Song/Style, or the current Beat number of the Tabla/Tanpura pattern.

FUNCTION	MEASURE	001
----------	---------	-----

### Chord

Indicates the chord which is being played on the keyboard (Page 22) or specified via Song playback.

F

### Track status

Indicates the on/off status of the current Song, Style or Tabla/Tanpura. (Pages 23, 28, 41)

1	2	3	4	5	6	A
---	---	---	---	---	---	---

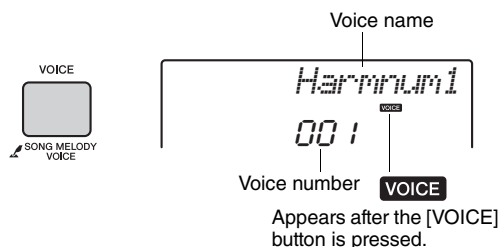
# Try Playing a Variety of Instrument Voices

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.

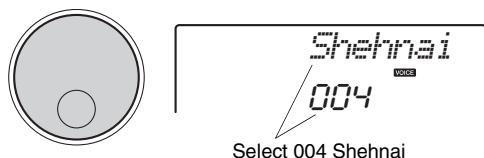
## Selecting a Main Voice

### 1 Press the [VOICE] button.

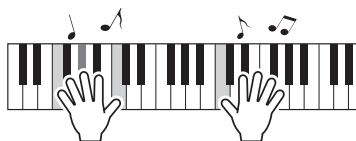
The Voice number and name will be shown.



### 2 Use the dial to select the desired Voice.



### 3 Play the keyboard.



## Preset Voice Types

001–019 (Indian Voices)	Used for Indian music performance.
020–220	Instrument Voices.
221–241 (Drum Kit)	Various drum and percussion sounds are assigned to individual keys. Details on assigning instruments to keys are provided in the Drum Kit List (page 67).
242–287	Used for Arpeggio performance (page 20).

## Playing the “Grand Piano”

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

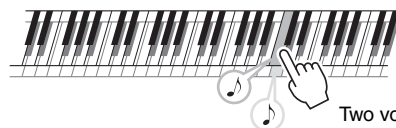
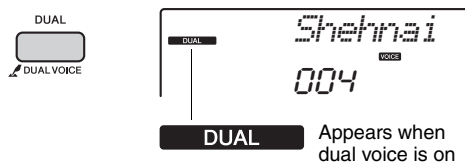


The Voice number is set to 020 Grand Piano and all the settings such as Dual and Split are turned off automatically, with exception of the Touch Sensitivity (page 35).

## Layering a Dual Voice

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

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



Two voices will sound at the same time.

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

Although turning on Dual will select a Dual Voice suitable for the current Main Voice, you can easily select a different Dual Voice (page 36).

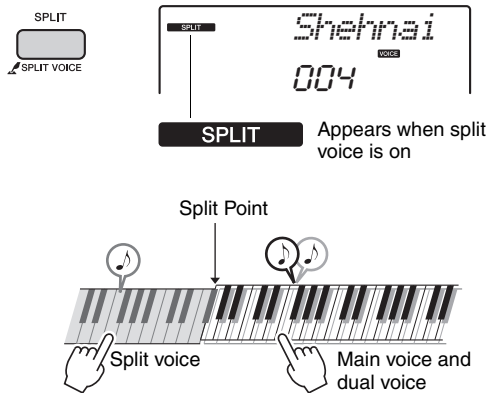


## Playing a Split Voice in the Left Hand area

By dividing the keyboard into the two separate areas, you can play a different Voice between the Left hand and Right hand areas.

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

The keyboard is divided into the Left hand and Right hand areas.



You can play a “Split Voice” on the Left hand area of the keyboard while playing a Main Voice and Dual Voice on the Right hand area of the keyboard.

The highest key for the Left hand area is referred to as the “Split Point” which can be changed from the default F#2 key. For details, refer to page 36.

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

You can easily select a different Split Voice (page 36). However, you need not select a Split Voice for one of the Main Voices 272–281. This is because these Voices already are set up to enable Split automatically and call up an appropriate Split Voice.

## Using the Metronome

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

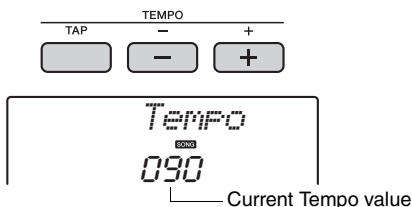
- 1 Press the [METRONOME] button to start the metronome.



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

### Adjusting the Metronome Tempo

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



The dial and the Number buttons can also be used to set the Tempo.

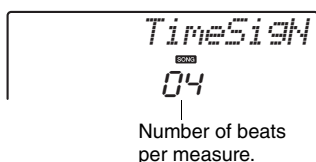
### Setting the Time Signature

Here, we'll set a time signature of 5/8 as an example.

- 1 Hold down the [METRONOME] button for longer than a second to call up "TimeSigN" (Time Signature Numerator).



Hold for longer than a second.



- 2 Rotate the dial to select the number of beats per measure.

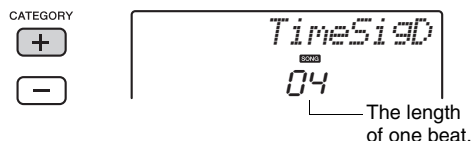
A chime will sound on the first beat of each measure while the other beats will click. If "0" is selected, all beats will simply click with no chime. Select 5 for this example.

**NOTE**

- This parameter cannot be set during playback of a Style, Song or Tabla/Tanpura.

- 3 Press the CATEGORY [+] button to call up "TimeSigD" (Time Signature Denominator).

The length of one beat is shown on the display.



- 4 Rotate the dial to select the length of one beat, from 2<sup>nd</sup>, 4<sup>th</sup>, 8<sup>th</sup> and 16<sup>th</sup> note.

Select "08" (8<sup>th</sup> note) for this example.

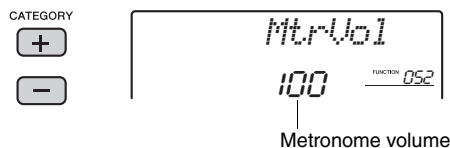
- 5 Confirm the setting by playing the Metronome.

### Setting the Metronome Volume

- 1 Press the [FUNCTION] button.



- 2 Press the CATEGORY [+] or [-] buttons repeatedly until "MtrVol" appears.



- 3 Rotate the dial to set the Metronome Volume.

## Adding Harmony

You can add harmony notes to the Main Voice.

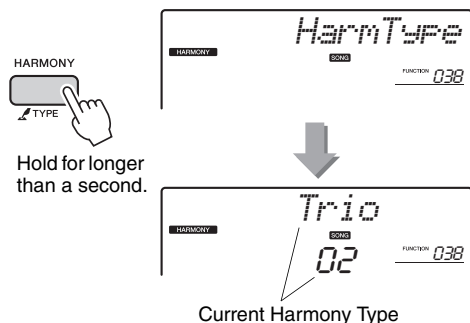
- 1 Press the [HARMONY] button to turn Harmony on.



Although turning on the Harmony will select a Harmony Type suitable for the current Main Voice, you can select a different Harmony Type.

- 2 Hold down the [HARMONY] button for longer than a second until “HarmType” appears on the display.

After “HarmType” is shown for a few seconds, the current Harmony Type appears.



- 3 Rotate the dial to select the desired Harmony Type.

For details, refer to the Effect Type List (page 80). The effect and operation differs depending on the Harmony Type. Refer to the section below.

### How to sound each Harmony Type

- Harmony type 01 to 05



Press the right-hand keys while playing chords in the auto accompaniment range of the keyboard when the Auto Accompaniment is on (page 22).

- Harmony type 06 to 12 (Trill)



Hold down two keys.

- Harmony type 13 to 19 (Tremolo)



Keep holding down the keys.

- Harmony type 20 to 26 (Echo)



You can adjust the Harmony Volume in the Function Settings (page 49).

#### NOTE

- The Harmony function cannot be used in the Tabla/Tanpura mode. Even if Harmony is turned on, pressing the [TABLA/TANPURA] button will turn off the Harmony effect.

# Creating Arpeggios

The Arpeggio function lets you create arpeggios (broken chords) by simply pressing the notes of the chord. For example, you could play the notes of a triad—the root, third, and fifth—to trigger interesting phrases. This feature can be used for music production as well as performance.

## Triggering the Arpeggio

- 1 Press the [ARPEGGIO] button to turn on the Arpeggio function.

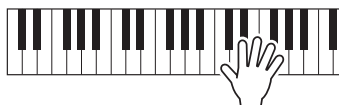


### NOTE

- Selecting a Voice number between 242 and 287 will turn on Arpeggio automatically.

- 2 Press a note or notes to trigger Arpeggio.

The Arpeggio phrase differs depending on the number of pressed notes and the area of the keyboard.



When Split is on, Arpeggio is applied only to the Split Voice. When Split is off, Arpeggio is applied to the Main and Dual Voices. Arpeggio cannot be applied to the Split and Main/Dual Voices simultaneously.

### NOTE

- When you select one of the Main Voices 272–281, Split as well as Arpeggio is automatically turned on. This allows you to immediately trigger an Arpeggio by pressing a key to the left of the Split Point after selecting one of these Voices.
- When the Pedal Function is set to “Arp Hold” or “Hold+Sus” (page 50), pressing the footswitch connected to the SUSTAIN jack will cause Arpeggio playback continue even after the note is released.

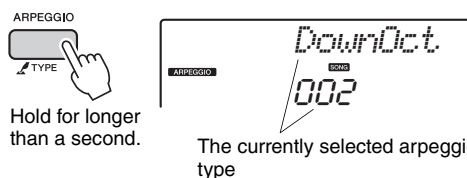
- 3 To turn off the Arpeggio, press the [ARPEGGIO] button again.

## Changing the Arpeggio Type

The most suitable Arpeggio Type is automatically selected when you select a Main Voice, but you can easily select any other Arpeggio Type.

- 1 Hold down the ARPEGGIO [TYPE] button for longer than a second.

In the display, “ARP Type” appears for a few seconds, followed by the current Arpeggio Type appears.



Hold for longer than a second.

The currently selected arpeggio type

- 2 Rotate the dial to select the desired Arpeggio type

For a list of the Arpeggio List, see page 77.

### NOTE

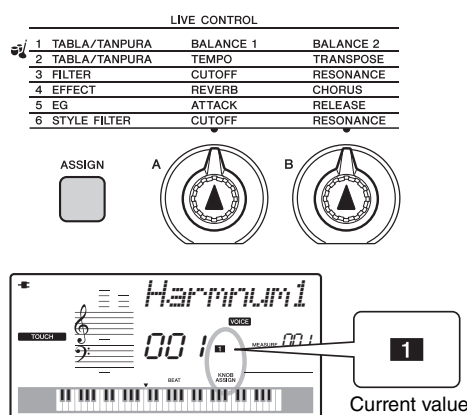
- When any of Voices 242–287 are selected, it is a good idea to set the Pedal Function to “Arp Hold” or “Hold+Sus” (page 50). This setting allows you to use a footswitch (press and hold) to have Arpeggio playback continue even after the note is released.

# Creating Original Sounds via the Knobs

The two knobs located in the lower left area of the panel can be used to add variations to the sound being played, transforming the sound in a variety of musical ways. Select the desired pre-programmed effect combination printed above the Knobs, then rotate the Knobs to enjoy the sound.

## Selecting a Knob Effect Combination

Repeatedly press the [ASSIGN] button to sequentially select the six effect combinations provided: (1) → (2) → (3) → (4) → (5) → (6) → (1) ... etc. The current combination is shown in the display.

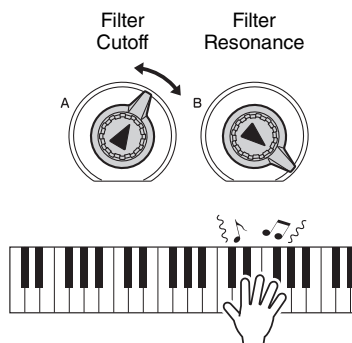


(1)–(2) affect the entire the Tabla/Tanpura sound, (3)–(5) affect the Main and Dual Voices only, and (6) affects only playback of the Style and Tabla/Tanpura. For details about each Knob effect, refer to page 37.

Only selecting a Knob effect combination will not affect the sound even if the Knob arrow is not at the initial position. After operating the Knob, the selected effect is applied to the sound.

## Applying the Filter to the Main Voice

- 1 Select the desired Main Voice.**  
Here, select “178 SquareLd” (Square-wave Lead) as a synth-lead type Voice.
- 2 Press the [ASSIGN] button several times until (3) (Filter) appears in the display.**
- 3 Rotate Knob B all the way to the right (maximum), then play the keyboard with your right hand while operating Knob A with your left.**



### NOTICE

- *Selecting a different Voice will replace the settings created via the Knobs with the default settings of the new Voice. If you create a sound with the Knobs that you wish to keep, make sure to memorize the settings to Registration Memory (page 31) before selecting a different Voice.*

### NOTE

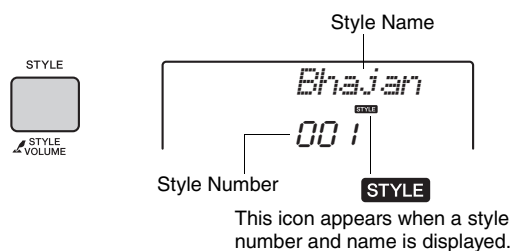
- *Rotating a Knob to the right while the volume is set to a high level may result in distortion. If this occurs, reduce the volume level.*

# Playing Styles

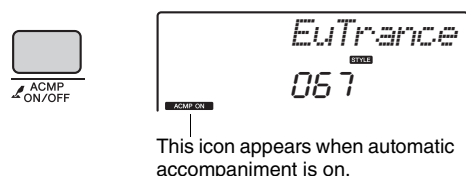
This instrument includes the Auto Accompaniment feature that plays appropriate “Styles” (rhythm + bass + chord accompaniment). You can select from a huge variety of Styles covering a wide range of musical genres.

## 1 Press the [STYLE] button, then use the dial to select the desired Style.

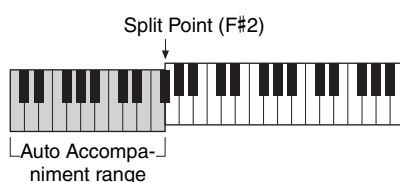
The Style List is shown on the front panel; also see page 74.



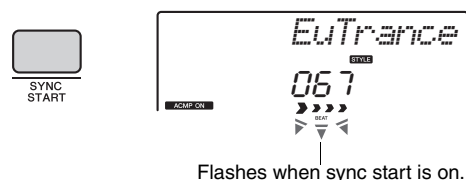
## 2 Press the [ACMP ON/OFF] button to turn on the Auto Accompaniment.



With this operation, the area of the keyboard to the left of the Split Point (54: F#2) becomes the “Auto Accompaniment range” and is used only for specifying the chords.



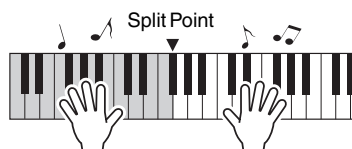
## 3 Press the [SYNC START] button to turn Synchro Start on.



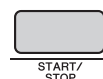
## 4 Play a chord in the Auto Accompaniment range to start playback.

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

For information about chords, refer to “Chord List” (page 44) or use the Chord Dictionary function (page 45).



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



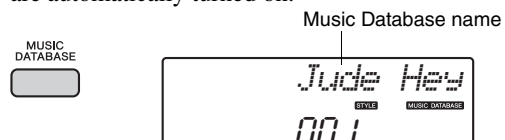
You can add intro, ending and rhythm variations to Style playback by using “Sections.” For details, refer to page 40.

## Using the Music Database

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

### 1 Press the [MUSIC DATABASE] button.

Both the Auto Accompaniment and Synchro Start are automatically turned on.



### 2 Use the dial to select the desired Music Database.

This operation calls up the panel settings such as Voice and Style that are registered to the selected Music Database. For a list of the Music Database List, see page 78.

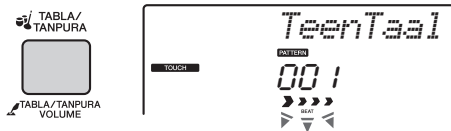
### 3 Play the keyboard as described in Steps 4–5 above.

# Playing the Tabla/Tanpura!

This instrument provides 16 phrase patterns (consisting of several measures) using the authentic Tabla and Tanpura sounds with looped playback. By using the Tabla/Tanpura function, try out the conventional Indian music—changing keys and creating dynamic sound variations by rotating the Knobs.

- 1 Press the [TABLA/TANPURA] button, then use the dial to select the desired Tabla/Tanpura pattern.

Refer to the Tabla/Tanpura list on the panel of this instrument.

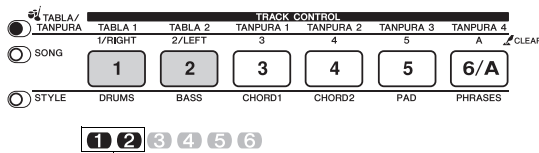


- 2 Press the [START/STOP] button to start looped playback.

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



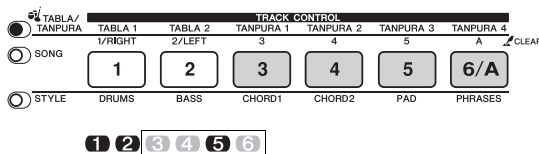
- Turning on/off Tabla tracks 1 and 2 individually



Indicates the on/off status of the Tabla tracks.

Tabla 1 features the lower pitched part while Tabla 2 features the higher pitched part.

- Adding the Tanpura phrase and changing it from 1–4

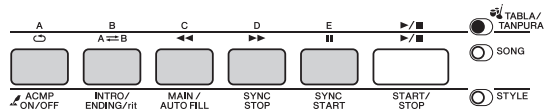


Indicates the current Tanpura number.

At first, press any of the [TANPURA 1]–[TANPURA 4] buttons to add the Tanpura phrase. Next, press another Tanpura button to change the phrase. You can enjoy four phrase varia-

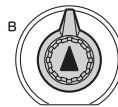
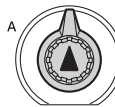
tions, which are shared among all Tabla/Tanpura patterns. To turn off the Tanpura sound, press the Tanpura button of the current number.

- Changing the Variation via the [A]–[E] buttons



- Using the Knobs

LIVE CONTROL		
1	TABLA/TANPURA	BALANCE 1
2	TABLA/TANPURA	TEMPO
3	FILTER	CUTOFF
4	EFFECT	REVERB
5	EG	ATTACK
6	STYLE FILTER	CUTOFF
		RESONANCE



## Adjusting the Volume Balance

Press the [ASSIGN] button several times to select “1 TABLA/TANPURA,” then rotate Knob A to adjust the volume balance between the sounds of Tabla 1 (low-pitched part) and Tabla 2 (high-pitched part), or rotate Knob B to adjust the volume balance between the sounds of the Tabla and Tanpura.

## Adjusting the Tempo / Transposing playback

Press the [ASSIGN] button several times to select “2 TABLA/TANPURA,” then rotate Knob A to adjust the playback tempo, or rotate Knob B to transpose the playback key in semitones.

### NOTE

- You can confirm the current key and tempo value on the display. To call up the current tempo value, press the TEMPO [-] or [+] button.

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



### NOTE

- The Tabla/Tanpura performance cannot be recorded.

# Playing Songs

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

## ● Song Category

The Songs are organized by category as listed below.

### SONG

- 001 - MAIN DEMO ————— • Gives you an idea of the advanced capabilities of this instrument.
- 004 - VOICE DEMO ————— • Demonstrates many useful Voices of this instrument.
- 012 - PIANO SOLO ————— • These piano solo pieces are ideally suited for the Song Lesson.
- 038 - PIANO ENSEMBLE ————— • These piano ensemble pieces are also well suited for the Song Lesson.
- 065 - PIANO ACCOMPANIMENT — • When you need to practice backing (accompaniment) patterns, these songs are ideal for that purpose.
- 075 - CLASSICAL MELODIES — • Includes famous classical music pieces.
- 094 - TRADITIONAL MELODIES — • Includes traditional Songs from around the world.
- 101 - **RAGA SCALE** ————— • Practice Songs for studying the traditional scale of India.
- 111 - USER SONG ————— • Songs you record yourself.
- 121 - FLASH MEMORY / USB — • Songs transferred from a computer (refer to “Computer-related operations”—page 9) and Songs in the USB flash memory (page 53).

## Listening to a Demo Song

Press the [DEMO] button to play Songs in sequence. Playback will repeat continuously, starting again from the first Song (001).

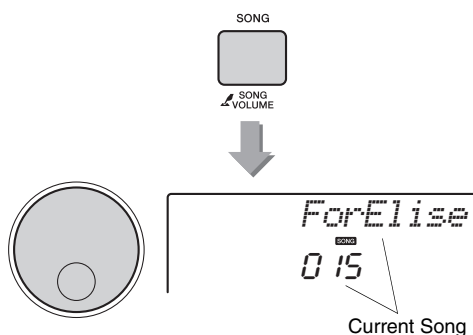


To stop playback, press the [DEMO/BGM] button.

## Selecting and Playing Back a Song

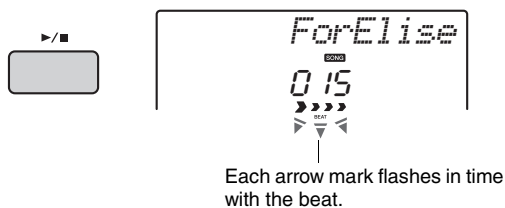
### 1 Press the [SONG] button, then use the dial to select the desired Song.

Refer to the Song List (page 76).



### 2 Press the [▶/■] (Start/Stop) button to start playback.

To stop playback, press the [▶/■] (Start/Stop) button again.





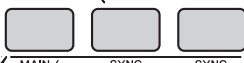
## Song Fast Forward, Fast Reverse, and Pause

Like the transport controls on an audio player, this instrument lets you fast forward [▶▶] (Fast Forward), rewind [◀◀] (Fast Reverse) 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.

C D E



MAIN/AUTO FILL

SYNC STOP

SYNC START

### Fast Reverse

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

### Pause

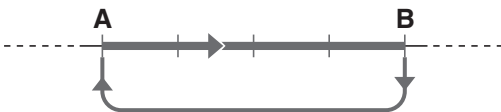
During playback, press this button to pause playback, and press again to start from that point.

**NOTE**

• When the A-B repeat is specified, the Fast Reverse and Fast Forward will only work within the range between A and B.

## 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 24).
- 2 When playback reaches to the point you want to specify as the start point, press the [A⇌B] (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] (A-B REPEAT) button again to set the B point.

The specified A-B section of the song will now play repeatedly.

- 4 To cancel repeat playback, press the [A⇌B] (A-B REPEAT) button.

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

**NOTE**

• If you want to set the start point “A” at the top of the Song, press the [A⇌B] (A-B REPEAT) button before starting playback.

## Turning Each Track On/Off

Each “track” of a Song plays a different part—melody, percussion, accompaniment, etc. Each of the tracks can be muted so that you can play the muted part yourself. Pressing the desired Track button repeatedly will toggle the on/off status.

TRACK CONTROL					
TABLA 1	TABLA 2	TANPURA 1	TANPURA 2	TANPURA 3	TANPURA 4
1/RIGHT	2/LEFT	3	4	5	A
1	2	3	4	5	6/A

Track number on—Track will playback



Track number off—Track is muted or contains no data

**NOTE**

• Up to two Track buttons can be pressed simultaneously for turning on or off.

# Using the Song Lesson Feature

You can use the selected Song for a left-hand, right-hand, or both-hands lesson. Try practicing with these three Song Lesson types while referring to the music scores in the Song Book (page 9).

## Three Types of Song Lesson

### Lesson 1—Listen

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



### Lesson 3—Waiting

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



**NOTE**

- If you want to keep a steady playback tempo is maintained during Lesson 3: Waiting, set the Your Tempo parameter (page 50) to OFF.

## Practicing with Song Lesson

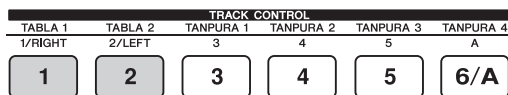
- 1 Select the desired Song for your lesson (page 24).

**NOTE**

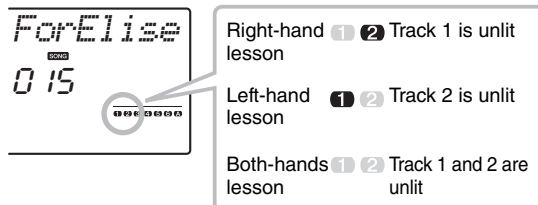
- The Song Lesson can be applied also to the Songs (SMF format 0 only) transferred from a computer (page 24), but cannot be applied to the User Songs.

- 2 Turn off the part you want to practice.

For the right-hand lesson, press the [1/RIGHT] button to turn off the right-hand part. For the left-hand lesson, press the [2/LEFT] button to turn off the left-hand part. For the lesson using both hands, turn off both the parts.



Pressing the [1/RIGHT] and [2/LEFT] buttons repeatedly will toggle the on/off status of each part, which can be shown on the display.

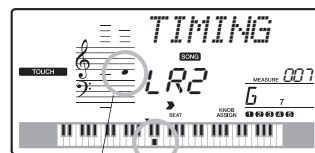


**NOTE**

- Song numbers 075–100 only support the right-hand lesson.

- 3 Press the [LESSON] button to start playback of the Song Lesson.

After starting playback, pressing the [LESSON] button repeatedly will change the Lesson number from 1: LISTEN → 2: TIMING → 3: WAITING → off → 1... Press this button until the desired number is shown on the display.



The notation and key positions you should play are shown.

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

Even during playback, you can change the Lesson number by pressing the [LESSON] button.

#### 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: OK, Good, Very Good, or Excellent.

##### See How You’ve Done

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

When the lesson song has played all the way through your performance will be evaluated in 4 levels: OK, Good, Very Good, or Excellent. “Excellent!” is the highest evaluation.

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

## Making Practice Perfect—Repeat & Learn

If you want to practice a specific section in which you made a mistake or you have difficulty with use the Repeat & Learn function.

Press the [↶] (REPEAT & LEARN) button during a Lesson playback.



The Song location will move back four measures, a one-measure count will play, then Song playback will start again. Playback of the four measures will repeat with a one-measure count-in.

To exit from this status, press this button again.

##### NOTE

- You can change the amount of measures the Repeat & Learn function jumps back by pressing a number button [1]–[9] during repeat playback.

# Recording Your Performance

You can record up to 10 of your performances as User Songs. The recorded User Songs can be played back on the instrument.

**NOTE**

- The Tabla/Tanpura performance cannot be recorded.

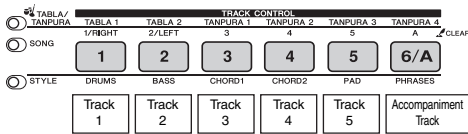
## Track Structure of a Song

### ● Melody Tracks [1]–[5]

The melody performance in the right-hand area of the keyboard will be recorded.

### ● Accompaniment Track [A]

The chord progression (for the Style) will be recorded.



## 4 Start recording.

- When you press the [SONG] button in Step 2, play any note to start recording.
- When you select a Style in Step 2, play a chord in the Auto Accompaniment area to start recording with Style playback, or press the [START/STOP] button to start recording only with playback of the Rhythm part of a Style.



Current measure number

The current measure will be shown on the display while recording.

## 5 Press the [START/STOP] or [REC] button to stop recording.

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



After recording finishes, "Writing!" appears indicating that the recorded data will be stored, then the recorded track numbers in the display will light.

**NOTICE**

- Never attempt to turn the power off when "Writing!" is shown in the display. Doing so can damage the flash memory and result in a loss of data.

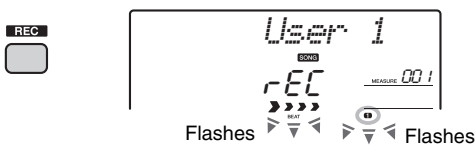
## 6 To play back the recorded Song, press the [START/STOP] button.

## Quick Recording

The operation is useful when you record a new Song from scratch.

- 1 Make the desired settings including the Main Voice selection.
- 2 Make the desired settings of your performance.
  - If you want to record only the melody performance, press the [SONG] button.
  - If you want to record the performance using a Style, press the [Style] button.
- 3 Press the [REC] button to enter the Record Ready mode.

If a User Song was not selected beforehand, this operation selects the lowest-numbered unrecorded User Song (from 101–110) as Recording target.



To exit from this status, press the [REC] button again.

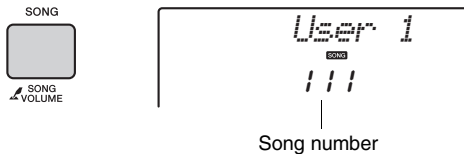
**NOTE**

- The ACMP on/off status cannot be changed after the [REC] button is pressed.

## Recording to a Specified Track

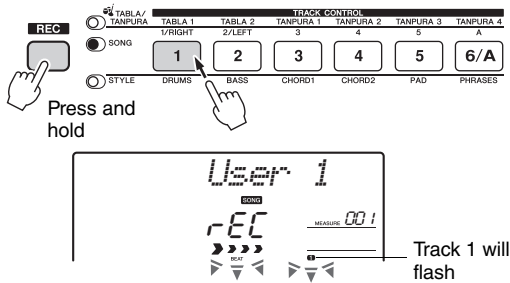
The operation here is useful especially when you want to record the additional performances to an already recorded Song.

- 1 Press the [SONG] button, then select the desired User Song (111–120) as the recording target.



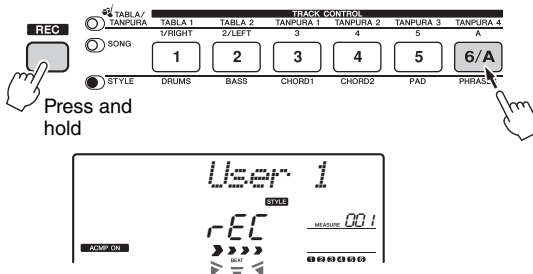
- 2 While holding down the [REC] button, press the desired Track button to enter the Record Ready mode.

- If you want to record only the melody:  
While holding down the [REC] button, press one of the [1]–[5] buttons.



- If you want to record only the Style playback:

Press the [STYLE] button, select the desired Style, then simultaneously hold down the [REC] button and press the [6/A] button. ACMP is automatically turned on.



- 3 Same as in Steps 4 to 6 (page 28) in “Quick Recording.”

### NOTE

- If the memory becomes full while recording, an alert message will appear and recording will stop automatically. In this case, delete unnecessary data by using the Clear functions (page 30), then execute the recording again.

### Limitations while recording

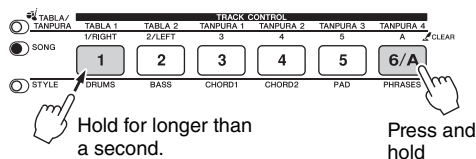
- The on/off status of ACMP cannot be changed.
- The Style number cannot be changed.
- When you use a Style, the following parameters cannot be changed: Reverb Type, Chorus Type, Time Signature, Style number and Style Volume.
- Performance with a Split Voice cannot be recorded.

## Clearing a User Song

You can clear all tracks of a User Song.

- 1 Press the [SONG] button, then select the User Song (111–120) to be cleared.
- 2 While holding down the track [A] button, press the track [1] button for longer than a second.

A confirmation message will appear on the display.



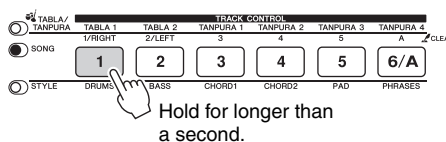
- 3 Press the [+] button. A confirmation message will appear on the display. To cancel this operation, press the [-] button.
- 4 Press the [+] button to clear the Song. A clear-in-progress message will appear briefly on the display.

## Clearing a Specified Track from a User Song

This lets you clear individual tracks from a User Song.

- 1 Press the [SONG] button, then select the desired User Song (111–120).
- 2 From [1]–[5] and [A], press the Track button to be cleared for longer than a second.

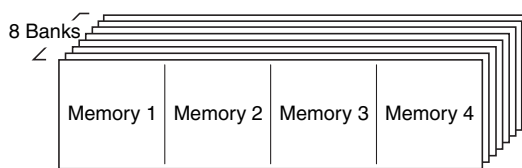
A confirmation message will appear on the display.



- 3 Press the [+] button. A confirmation message will appear on the display. To cancel this operation, press the [-] button.
- 4 Press the [+] button to clear the track. A clear-in-progress message will appear briefly on the display.

# Memorizing Your Favorite Panel Settings

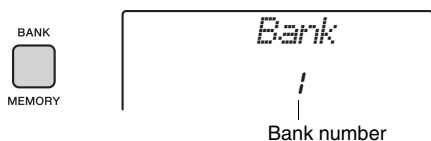
This instrument has a Registration Memory feature that lets you memorize your favorite settings for easy recall whenever they're needed. Up to 32 complete setups can be saved (eight banks of four setups each).



Up to 32 presets (eight banks of four each) can be memorized.

## Memorizing Panel Settings to the Registration Memory

- 1 Make the desired settings such as those for Voice, Style, and Tabla/Tanpura.
- 2 Press and release the [MEMORY/BANK] button to call up a Bank number on the display.

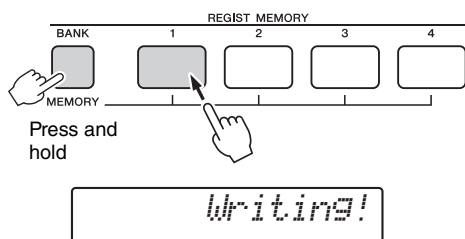


- 3 Use the dial or the [1]–[8] number buttons to select a Bank number.

**NOTE**

- Data cannot be saved to the Registration Memory during Song playback.

- 4 While holding down the [MEMORY/BANK] button, press one of the [1]–[4] buttons to memorize the current panel settings.

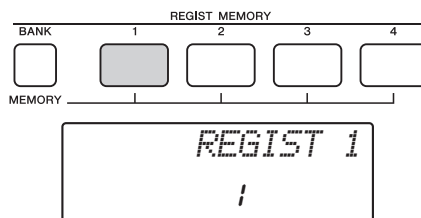


**NOTICE**

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

## Recalling Panel Settings from the Registration Memory

- 1 Press and release the [MEMORY/BANK] button to call up a Bank number on the display.
- 2 Use the dial or the [1]–[8] number buttons to select a Bank number.
- 3 Press one of the [1]–[4] buttons to call up the panel settings you memorized. The recalled REGIST MEMORY number appears in the display for a few seconds.

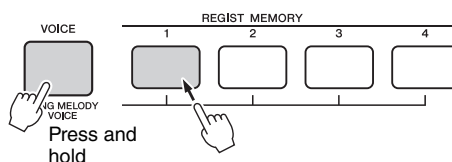


**IMPORTANT**

- When recalling the panel settings from the Registration Memory, make sure to press the same button—[STYLE] or [TABLA/TANPURA]—corresponding to the mode used when you memorize the panel settings. This is necessary since the mode status (Style or Tabla/Tanpura) is not memorized to the Registration Memory, meaning that it cannot be called up even if you press the REGISTRATION MEMORY button.

## Freezing the Style settings even if a different Registration number is selected

If you want to select different Registration Memory setups without changing the Style settings or Tabla/Tanpura settings, simultaneously hold down the [VOICE] button and press the REGIST MEMORY number button.



If you want to freeze the Style settings or Tabla/Tanpura settings permanently, set the Freeze mode parameter to ON from Function display 060 (page 50).

**NOTE**

- For details about the parameters that can be memorized to Registration Memory, see the next page.

# Backup Parameters and Initialization

## Backup Parameters

The following data will be maintained even if the power is turned off and can be transferred then saved to a computer via Musicsoft Downloader as a single Backup file. For instructions, refer to “Computer-related Operations” (page 9).

- User Song data (page 28)
- Style data transferred from a computer and loaded to Style numbers 207–211 (page 57)
- Registration Memory data (page 31)
- Function Settings (page 48):
  - Tuning, Split Point, Touch Sensitivity, Style Volume, Song Volume, Tabla/Tanpura Volume, Metronome Volume, Grade, Demo Group, Demo Play, Demo Cancel, Master EQ type, Your Tempo on/off, Auto Power Off setting, Battery Select, Freeze Mode

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

### Parameters that can be memorized to Registration Memory

- **Style settings\***  
Style number, ACMP on/off, Style volume, Track on/off
- **Tabla/Tanpura settings\*\***  
Tabla number, Tabla/Tanpura volume, Section, Track on/off, Volume balance between Tabla 1 and 2, Volume balance between Tabla and Tanpura
- **Voice settings**
  - Main Voice settings:** Voice number and all settings of the related Functions
  - Dual Voice settings:** Dual on/off and all settings of the related Functions
  - Split Voice settings:** Split on/off and all settings of the related Functions
- **Effect settings**  
Reverb Type, Chorus Type
- **Arpeggio settings**  
Arpeggio on/off and all settings of the related Functions
- **Harmony settings**  
Harmony on/off and all settings of the related Functions
- **Other settings**  
Transpose, Pitch Bend Range, Knob Effect Combination number, Split Point, Tempo, Pedal Function

\* Available only when a Style is selected.

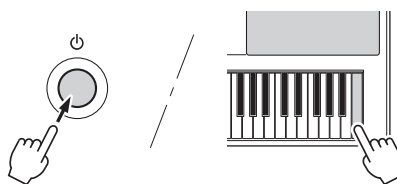
\*\* Available only when a Tabla is selected.

## Initialization

This function erases the Backup data described above and Song/Style data, then restores all the default factory settings. As required, execute one of the following two procedures.

### Backup Clear

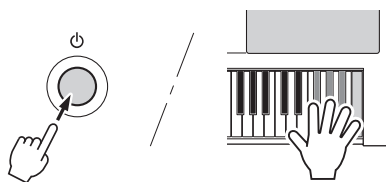
This operation initializes the backup data. While holding down the highest white key on the keyboard, press the [ ⏻ ] (Standby/On) switch to turn the power on.



### Flash Clear

This operation deletes all the Songs and Styles that have been transferred from a computer. Note that Style data loaded to Style numbers 207–211 will be maintained.

While simultaneously holding the highest white key and the three highest black keys, press the [ ⏻ ] (Standby/On) switch to turn the power on.



### NOTICE

- *Keep in mind that this operation also deletes the data you have purchased. Be sure to save the important data to a computer via Musicsoft Downloader (MSD) software. For details, refer to “Computer-related Operations” (page 9).*



# Handy Performance Features

## Selecting a Reverb Type

The Reverb effect lets you play with a rich concert hall type ambience.

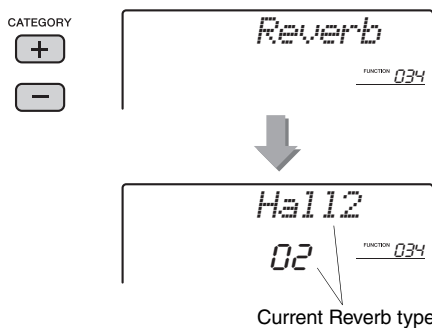
Although selecting a Style or Song will call up the optimum Reverb type for the entire sound, you can select a different Reverb type manually.

### 1 Press the [FUNCTION] button.



### 2 Use the CATEGORY [+] and [-] buttons to call up “Reverb” (Function 034).

After “Reverb” is shown for a few seconds, the current Reverb Type is shown.



#### NOTE

• Some Songs and Styles use Reverb Types which cannot be selected via panel operation. If such a Song or Style is played back, “- -” is shown on the display.

### 3 Rotate the dial to select a Reverb type.

Play the keyboard to check the sound. For information about the available Reverb types, refer to the Effect Type List (page 80).

#### Adjusting the Reverb depth

You can adjust the Reverb depth applied to the Main, Dual, and Split Voices individually via the same operations above. Regarding the item in Step 2, refer to the Function List on page 48.

## Selecting a Chorus Type

The Chorus effect creates a thick sound that is similar to many of the same Voices being played in unison.

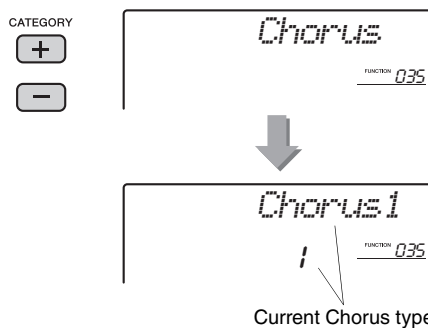
Although selecting a Style or Song will call up the optimum Chorus type for the entire sound, you can select a different Chorus type manually.

### 1 Press the [FUNCTION] button.



### 2 Use the CATEGORY [+] and [-] buttons to call up “Chorus” (Function 035).

After “Chorus” is shown for a few seconds, the current Chorus Type is shown.



#### NOTE

• Some Songs and Styles use Chorus Types which cannot be selected via panel operation. If such a Song or Style is played back, “- -” is shown on the display.

### 3 Rotate the dial to select a Chorus type.

Play the keyboard to check the sound. For information about the available Chorus types, refer to the Effect Type List (page 80).

#### Adjusting the Chorus depth

You can adjust the Chorus depth applied to the Main, Dual, and Split Voices individually via the same operations above. Regarding the item in Step 2, refer to the Function List on page 48.

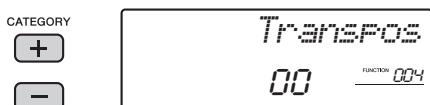
## Pitch Controls—Transpose

The overall pitch of the instrument (except for the Drum Kit Voices) can be shifted up or down by a maximum of 1 octave in semitone increments.

- 1 Press the [FUNCTION] button.



- 2 Use the CATEGORY [+] and [-] buttons to call up “Transpose” (Function 004).



- 3 Use the dial to set the Transpose value between -12 and +12.

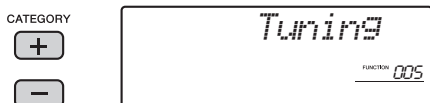
## Pitch Controls—Tuning

The overall tuning of the instrument (except for the Drum Kit Voices) can be shifted up or down between 427 Hz and 453 Hz in approximately 0.2Hz increments. The default value is 440.0 Hz.

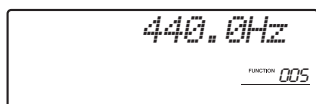
- 1 Press the [FUNCTION] button.



- 2 Use the CATEGORY [+] and [-] buttons to call up “Tuning.”

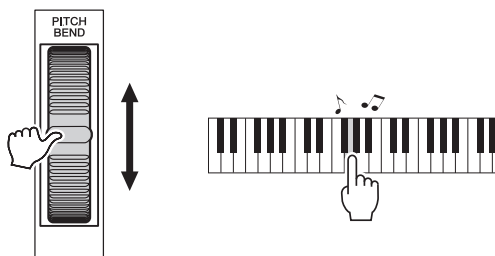


- 3 Use the dial to set the Tuning value.



## Pitch Controls—the PITCH BEND wheel

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



You can change the amount of pitch bend produced by the wheel. Refer to “Pitch Bend Range” in the Function List (page 48).

## Calling up Optimum Panel Settings

You can call up optimum panel settings that are ideal and stylistically appropriate for the current Song or Style—with a single touch. If you don’t know what settings are best with a selected Voice, for example, use the following functions.

- **To call up the settings for a Song or Style (One Touch Setting):**

Select Voice number “000 OTS.” In this status, selecting a Style or Song will call up the optimum panel settings matching the current Song or Style.

## Changing the Touch Sensitivity of the Keyboard

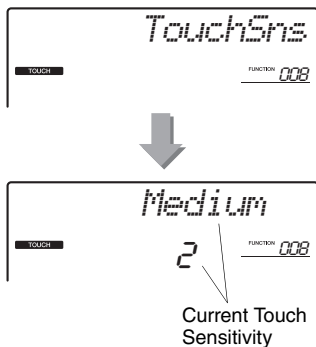
The keyboard of this instrument is equipped with a Touch Response feature that lets you dynamically and expressively control the level of the Voices according to your playing strength.

### 1 Press the [FUNCTION] button.



### 2 Press the CATEGORY [+] or [-] button several times until “TouchSns” (Function 008) appears.

“TouchSns” is shown in the display for a few seconds, and the current Touch Sensitivity is shown.



### 3 Use the dial to select a Touch Sensitivity setting between 1 and 4.

When “1”–“3” is selected, higher values produce greater (easier) volume variation in response to keyboard dynamics—i.e. greater sensitivity. When “4” (off) is selected, all notes will be played at the same volume no matter how strongly or softly you play the keys.

#### NOTE 1

- The initial default Touch Sensitivity value is “2”.

## Selecting an EQ Setting for the Best Sound

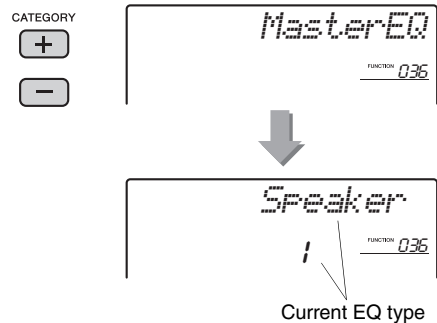
Five different master equalizer (EQ) settings are provided to give you the best possible sound when listening through different reproduction systems—the instrument’s internal speakers, headphones, or an external speaker system.

### 1 Press the [FUNCTION] button.



### 2 Press the CATEGORY [+] or [-] button several times until “MasterEQ” (Function 036) appears.

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



### 3 Use the dial to select the desired Master EQ type.

Settings 1 and 2 are best for listening via the instrument’s built-in speakers, setting 3 is for headphones, and settings 4 and 5 are ideal for listening via external speakers.

#### NOTE 1

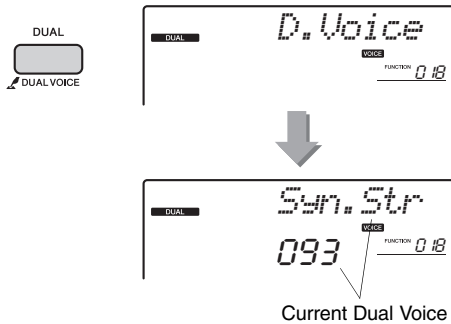
- “Boost” produces a more punchy sound but may produce distortion depending on the Voice and Style, compared to the other Master EQ types.

# Voice Settings

## Selecting a Dual Voice

- 1 Hold down the [DUAL] button for longer than a second to call up “D.Voice.”

“D.VOICE” is shown for a few seconds, then the current Dual Voice appears.

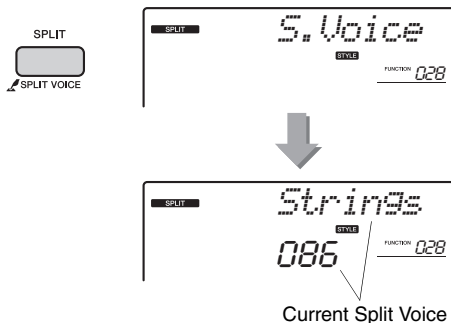


- 2 Rotate the dial to select the desired Dual Voice.

## Selecting a Split Voice

- 1 Hold down the [SPLIT] button for longer than a second to call up “S.Voice.”

“S.VOICE” is shown for a few seconds, then the current Split Voice appears.



- 2 Rotate the dial to select the desired Split Voice.

## Voice Editing

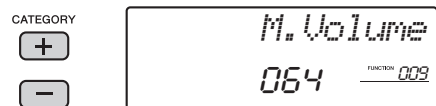
For each of the Main, Dual and Split Voices, you can edit the parameters such as volume, octave and depth of the Reverb and Chorus, allowing you to create new, custom sounds that best suit your musical needs.

- 1 Press the [FUNCTION] button.



- 2 Use the CATEGORY [+] and [-] buttons to call up the desired item.

Main Voice parameters are indicated as “M.\*\*\*\*\*,” Dual Voice parameters as “D.\*\*\*\*\*,” and Split Voice parameters as “S.\*\*\*\*\*.” For information about each parameter, refer to the Function List on page 48.



- 3 Rotate the dial to set the value.

Check the sound by playing the keyboard.

- 4 Repeat Steps 2–3 above to edit various parameters.

- 5 If necessary, memorize the settings to the Registration Memory (page 31).

The Voice-related settings are reset when a different Voice is selected. If you want to store the created sound for future recall, memorize the settings to the Registration Memory.

# Parameters Assigned to the Knobs

This section describes each of the parameters which can be assigned to the Knobs (page 21).

## 1 TABLA/TANPURA

Knob A adjusts the volume balance between the sounds of Tabla 1 and 2, while Knob B adjusts the volume balance between the sounds of Tabla and Tanpura.

## 2 TABLA/TANPURA

Knob A adjusts the tempo of Tabla playback while the Tanpura playback tempo is maintained. This follows typical Indian music stylistic conventions. Knob B raises or lowers the pitch of the Tabla/Tanpura sound in semitones, with the exception of Tabla 1. This accurately simulates the characteristics of the Tabla, in which the lower sound is not affected by the tuning. Note that also the pitch of Tabla 2 may not be changed depending on the Tabla/Tanpura pattern.

### NOTE

- When Knob B is turned all the way left, only the pitch of the Tabla 2 sound is raised abruptly by an octave. This is due to a limitation in this instrument.

## 3 FILTER

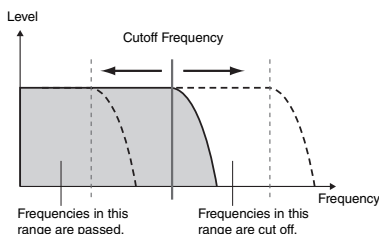
Filter effects shape the sound by allowing only a specified range of frequencies to pass and/or by producing a resonance peak at the filter's "cutoff" frequency. Filter effects can be used to create a range of synthesizer-like sounds.

### NOTE

- These effects are applied only to the Main/Dual Voices played on the keyboard.
- Filter effects can sometimes cause distortion in the bass frequencies.

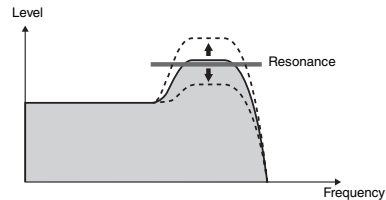
### ● Knob A: CUTOFF

Adjusts the filter's cutoff frequency, and therefore the brightness of the sound. Turning the Knob to the left makes the sound more muffled or darker, while turning the Knob A to the right makes the sound brighter.



### ● Knob B: RESONANCE

Adjusts the amount of Resonance applied at the filter's cutoff frequency. Turning the Knob to the right will increase the Resonance to emphasize the frequencies at the cutoff frequency, and thus "strengthen" the perceived effect of the filter.



## 4 EFFECT

### ● Knob A: REVERB

Reproduces the acoustic ambience of a concert hall or club. Turning the Knob to the right will increase the Reverb depth.

### ● Knob B: CHORUS

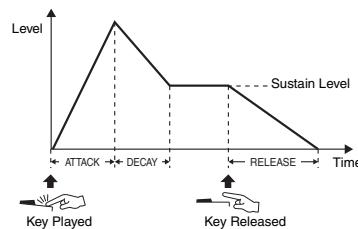
Produces a layered "multi-instrument" effect. Turning the Knob to the right will increase the Chorus depth.

### NOTE

- These effects are applied only to the Main/Dual Voices played on the keyboard.

## 5 EG (Envelope Generator)

Envelope Generator effects determine how the level of the sound varies over time. You can make the attack faster for a more percussive sound or slower for a violin-like sound, for example. Or you can lengthen or shorten the sustain to best match the music you're playing.



### ● Knob A: ATTACK

Adjusts the Attack Time (the amount of time it takes the sound to reach maximum level when a key is played). Turning the Knob to the right will increase the Attack Time, thus slowing down the attack rate.

● **Knob B: RELEASE**

Adjusts the Release Time (the amount of time it takes for the sound to decay to silence after a key is released). Turning the Knob to the right will increase the Release Time, thus make a longer sustain.

**NOTE**

- These effects are applied only to the Main/Dual Voices played on the keyboard.

**6 STYLE FILTER**

Same as “**3 FILTER.**” These effects are applied only to Style or Tabla/Tanpura playback.

The chart below lists some interesting ways to use the various effects that can be assigned to the knobs.

**Some Ideas for Using the Knobs**

Number/Effect		Try This
<b>1</b>	TABLA/TANPURA	Knob A adjusts the volume balance between the sounds of Tabla 1 (having the lower sound) and Tabla 2 (having the higher sound of Tabla or Mridangam). Knob B adjusts the volume balance between the sounds of the Tabla (assigned to the [TABLA 1] and [TABLA 2] buttons) and Tanpura (assigned to the [TANPURA 1]–[TANPURA 4] buttons). Play with these Knobs as the patterns loop, sing along if you wish, and create your own performance.
<b>2</b>	TABLA/TANPURA	Knob A adjusts the tempo of Tabla/Tanpura playback. Setting to the minimum left-most position results in half the default tempo, while setting to the maximum right-most position results in double the default tempo. The center position corresponds to the default tempo. Note that the tempo cannot exceed the range (11–280), and that the tempo of the Tanpura patterns will not change even if you rotate Knob A. Knob B raises or lowers the pitch of the Tabla/Tanpura sound in semitones. Regarding the Tabla, only the higher sound (assigned to the [2] button) will be transposed. Rotating the knob leftward lowers the pitch while rotating the knob rightward raises the pitch.  Use these knobs to set the desired tempo and key, sing along if you wish, and create your own performance!
<b>3</b>	FILTER	Select a synth-type lead or pad voice (see the Voice List; page 61). Turn Knob B all the way up and operate Knob A while playing for some spacey, floating 1980’s effects.
<b>4</b>	EFFECT	Select a voice that sounds as though it already has reverb and chorus effects applied, and turn Knob A and Knob B all the way down to hear the “direct” sound of the voice. You can then turn the Knob A and Knob B settings up to add extra impact and richness to the voice.
<b>5</b>	EG	Select a piano voice, and turn Knob B all the way up and Knob A to about the 3 o’clock position. This should give you a majestic, organ-like sound. The attack time is quite long so play the keys and hold them to let the sound come in fully. Ideal for slow pieces.
<b>6</b>	STYLE FILTER	Select style 67, Euro Trance. Turn accompaniment on and start style playback (page 22). Set Knob B to about 3 o’clock, and Knob A to about 8 o’clock. The overall sound of the style should be a bit muffled, with the drums emphasized for solid rhythmic impact.

# Arpeggio Settings

## Synchronizing an Arpeggio to Song/Style/Tabla Playback—Arpeggio Quantize

When you play the keyboard to trigger an Arpeggio (page 20) along with Song/Style/Tabla playback, you'll need to play the notes with correct timing to keep the Arpeggio in synchronization with the other playback tracks. However, your actual timing may be slightly ahead of or behind the beat (or both). The “Arpeggio Quantize” function of this instrument will correct any slight imperfections in the timing (according to settings below), and then play back the Arpeggio appropriately.

- Synchronizing at the quarter notes
- Synchronizing at the 8th notes
- No synchronization with Style or Song playback

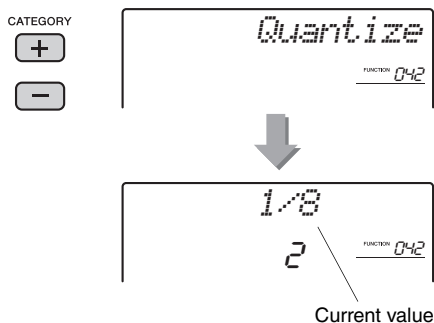
Although the Arpeggio Quantize value is pre-programmed for each Arpeggio Type, you can change the value manually.

### 1 Press the [FUNCTION] button.



### 2 Use the CATEGORY [+] and [-] buttons to call up “Quantize” (Function 042).

After “Quantize” is shown for a few seconds, the current Arpeggio Quantize value is shown.



### 3 Rotate the dial to select a value from “OFF,” “1/8” and “1/16.”

- 1/8 Synchronizing at the quarter notes
- 1/16 Synchronizing at the 8th notes
- OFF No synchronization with Style or Song playback

## Holding the Arpeggio Playback via the Footswitch

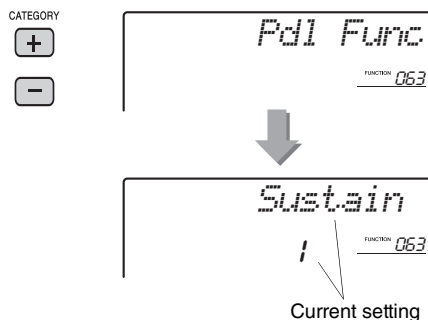
You can set the instrument so that Arpeggio playback continues even after the note has been released, by pressing the footswitch connected to the SUSTAIN jack.

### 1 Press the [FUNCTION] button.

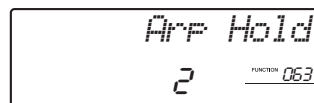


### 2 Use the CATEGORY [+] and [-] buttons to call up “Pd1 Func” (Function 063).

After “Pd1 Func” is shown for a few seconds, the current setting is shown.



### 3 Rotate the dial to select “Arp Hold.”



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

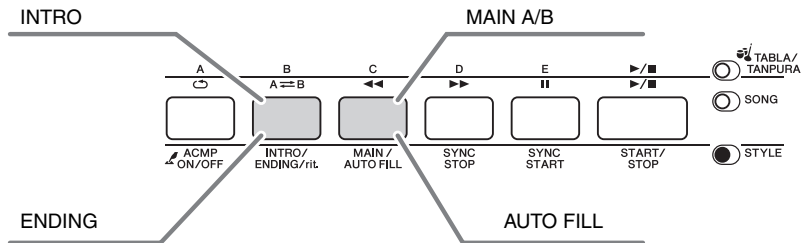
### 4 Try playing Arpeggio with the footswitch.

Press the notes to trigger the Arpeggio, then press the footswitch. Even if you release the notes, Arpeggio playback will continue. To stop Arpeggio playback, release the footswitch.

# Styles (Auto Accompaniment) and Tabla/Tanpura patterns

## 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.



### INTRO

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

### MAIN

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

### AUTO FILL

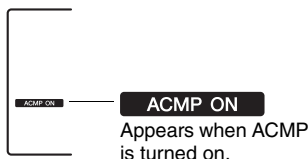
This is automatically added before changing to Main A or B.

### ENDING

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

Reference

- 1 Press the [STYLE] button, then rotate the dial to select a Style.
- 2 Press the [ACMP ON/OFF] button to turn ACMP on.



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



Beat arrows flash.

#### ● Synchro Start

When the Synchro Start is on, Style playback will begin as soon as you play a chord in the accompaniment range of the keyboard. To turn off the Synchro Start, press the [SYNC START] button.

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



Current Section



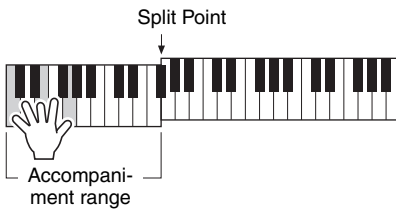
**5 Press the [INTRO/ENDING/rit.] button.**



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

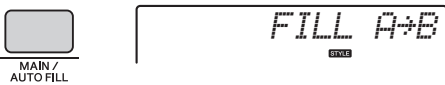
**6 Play a chord with your left hand to start playback of the Intro.**

For this example, play a C major chord (as shown below). For information on how to enter chords, see "Chords" on page 44.

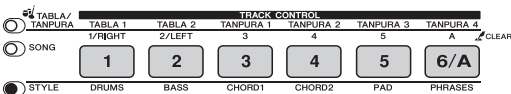


**7 After the Intro finishes, play the keyboard according to the progression of the Song you are playing.**

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.



**Turning on/off each Track via the [TRACK CONTROL] button**



1 2 3 4 5 6 — On/off status is shown in the display (page 15)

**NOTE**

- Up to two Track buttons can be pressed simultaneously for turning Tracks on or off.

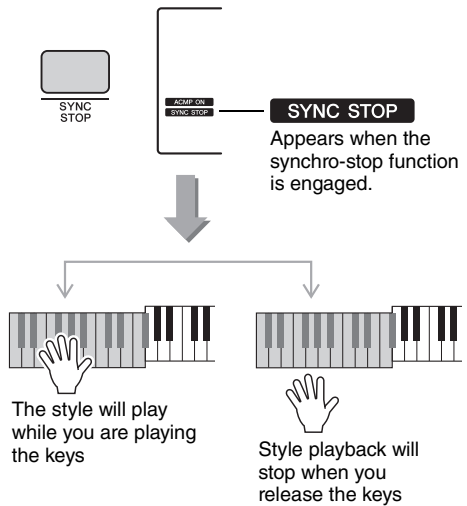
**8 Press the [INTRO/ENDING/rit.] button.**



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.

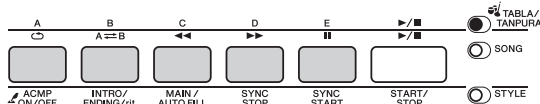
**Synchro Stop**

When you press the [SYNC/STOP] button to turn on this function, the Style will only play while pressing chords in the Accompaniment range of the keyboard. Releasing all the notes will stop Style playback. This makes it easy to add rhythmic breaks as you perform, simply by releasing your hand from the Accompaniment range of the keyboard.

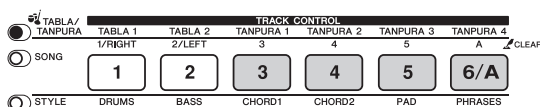


## Tabla/Tanpura Variations

Each Tabla/Tanpura features five Variations A–E via the Tabla sound. These five variations can be alternated via the [A]–[E] buttons during playback, allowing you to add dynamic variations to the performance.



In addition, four phrase variations via the Tanpura sound are provided commonly for all the Tabla/Tanpura patterns. These four variations can be alternated via the TANPURA 1–4 buttons.

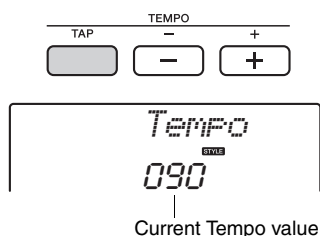


Unlike the Styles, the Tabla/Tanpura patterns do not have the variations dedicated to the beginning or ending of the Song, such as Intro and Ending. The Tabla/Tanpura playback will continue until stopped manually.

## Changing the Tempo

A Style or Tabla/Tanpura can be played at any tempo you desire—fast or slow.

- 1 Press the **TEMPO [TAP]** button to call up the Tempo value in the display.



- 2 Rotate the dial to set a tempo from 011 to 280.

Press the [+ ] and [- ] buttons simultaneously to instantly reset the value to the default tempo of the current Style, Tabla/Tanpura or Song. You can change the tempo during playback by pressing the TEMPO [TAP] button just twice at the required tempo.

**NOTE 1**

- The above operation applies also to Song or Arpeggio playback tempo.

## Tap Start

You can start play back of the Tabla/Tanpura, Style or Song by simply tapping the TEMPO [TAP] button at the required tempo—four times for time signatures in 4 (4/4, etc.), and three times for time signatures in 3 (3/4, etc.).



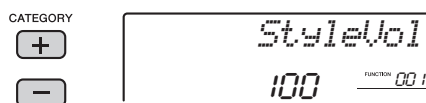
## Adjusting the Volume of the Style or Tabla/Tanpura

You can adjust the volume balance between Style or Tabla/Tanpura playback and keyboard performance.

- 1 Press the **[FUNCTION]** button.



- 2 Use the **CATEGORY [+ ]** and **[- ]** buttons to call up “StyleVol” (Function 001) or “TablaVol” (Function 003).



- 3 Rotate the dial to set the volume between 000 and 127.

## Setting the Split Point

The point on the keyboard that separates the left-hand range and the right-hand range of the keyboard is called the “Split Point.”

When a Style is selected and ACMP is on, the notes played to the left of the Split Point are used to specify the chord for Style playback. When the Split function is on, the notes played to the left of the Split Point are used to play the Split Voice.

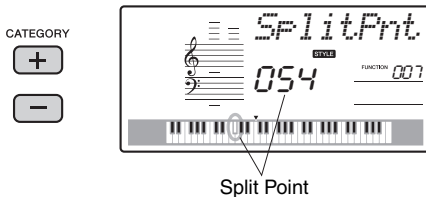
The initial default Split Point is key number 54 (the F#2 key), but you can change it to another key.

### 1 Press the [FUNCTION] button.

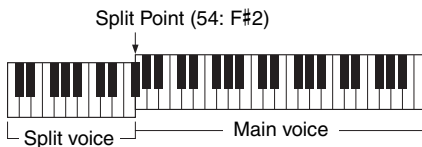


### 2 Use the CATEGORY [+ ] and [ - ] buttons to call up “SplitPnt” (Function 007).

You can call up this display also by pressing the [STYLE] then holding the [ACMP] button for longer than a second.



### 3 Rotate the dial to set the Split Point between 036 (C1) and 096 (C6).



**NOTE 1**

- The Split Point set here is applied common to the Style and Voice.
- During the Lesson playback, the Split Point cannot be changed.

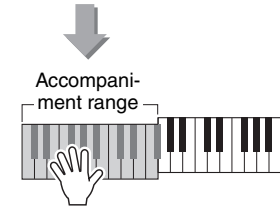
## Playing Chords Without Style Playback

If you press the [STYLE] button, press the [ACMP ON/OFF] button to turn ACMP on (the ACMP ON icon appears), and play the chord in the Left hand range of the keyboard (with SYNC START off), the chord sound will be heard without Style playback. This is referred to as “Stop Accompaniment.” The specified chord will be shown in the display, and affects the Harmony function (page 19).



ACMP ON



























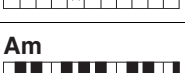


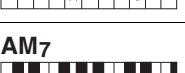



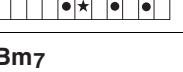

Appears when auto accompaniment is on



## Chord Types for Style Playback

For users who are new to chords, this chart features common chords. 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> 	<b>Cm</b> 	<b>C7</b> 	<b>Cm7</b> 	<b>CM7</b> 
<b>D</b> 	<b>Dm</b> 	<b>D7</b> 	<b>Dm7</b> 	<b>DM7</b> 
<b>E</b> 	<b>Em</b> 	<b>E7</b> 	<b>Em7</b> 	<b>EM7</b> 
<b>F</b> 	<b>Fm</b> 	<b>F7</b> 	<b>Fm7</b> 	<b>FM7</b> 
<b>G</b> 	<b>Gm</b> 	<b>G7</b> 	<b>Gm7</b> 	<b>GM7</b> 
<b>A</b> 	<b>Am</b> 	<b>A7</b> 	<b>Am7</b> 	<b>AM7</b> 
<b>B</b> 	<b>Bm</b> 	<b>B7</b> 	<b>Bm7</b> 	<b>BM7</b> 

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

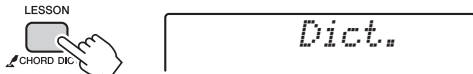


**To play a minor seventh chord**  
Press the root note together with the nearest white and black keys to the left of it (three keys altogether).

## 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.

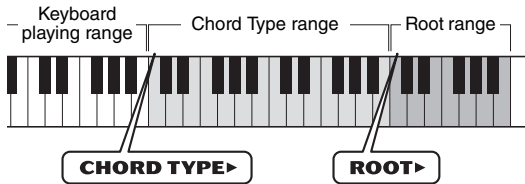
### 1 Press and hold the [CHORD DICT] button for longer than a second to call up “Dict.”



Hold for longer than a second.

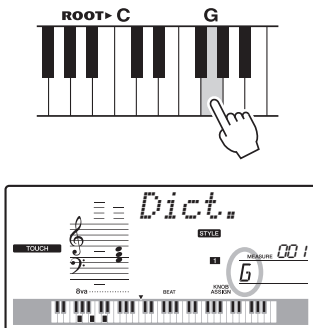
This operation will divide the entire keyboard into the three ranges as illustrated below.

- 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.

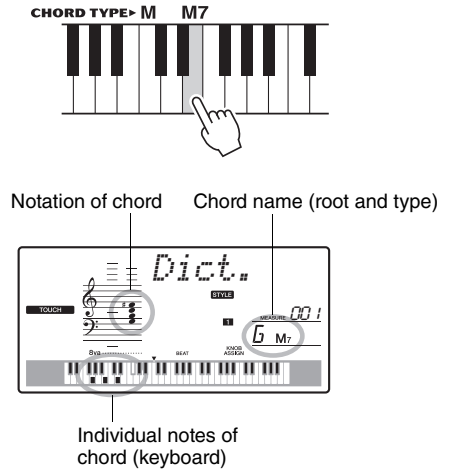


### 2 As an example, learn how to play a GM7 (G major seventh) chord.

- 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.

### 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.

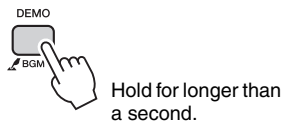
# Song Settings

## BGM (Background Music) Playback

With the default setting, pressing the [DEMO/BGM] button will play back only a few of the internal Songs repeatedly. This setting can be changed so that, for example, all internal Songs are played, or all Songs transferred to the instrument from a computer are played back, letting you use the instrument as a background music source. Five playback group settings are provided. Simply select the one that suits your needs.

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

“DemoGrp” is shown in the display for a few seconds, followed by the current repeat playback target.



### 2 Rotate the dial to select a repeat playback group from the table below.

Demo	Preset Songs 001–003
Preset	All preset Songs
User	All User Songs
Download	All Songs transferred from a computer
USB	All Songs (MIDI files) in the connected USB flash memory

### 3 Press the [DEMO] button to start playback.

To stop playback, press the [DEMO] button again.

## Random Song Playback

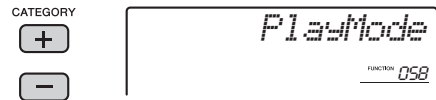
The order of Song repeat playback via the [DEMO/BGM] button can be changed between the numerical order and random order.

### 1 Press the [FUNCTION] button.



### 2 Press the CATEGORY [+] and [-] buttons several times to call up “PlayMode” (Function 058).

“PlayMode” is shown for a few seconds, followed by the current playback mode, “Normal” or “Random.”



When the DemoGrp is set to “Demo,” this parameter cannot be set.

### 3 Rotate the dial to select “Random.”

To return to the numerical order, select “Normal.”

### 4 Press the [DEMO] button to start playback.

To stop playback, press the [DEMO] button again.

## Tempo Setting of the Song

This operation is same as that of the Style and Tabla/Tanpura. Refer to page 42.

## Tap Start

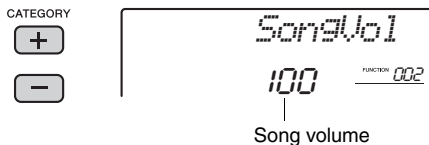
This operation is same as that of the Style and Tabla/Tanpura. Refer to page 42.

## Song Volume

- 1 Press the [FUNCTION] button.



- 2 Press the CATEGORY [+] and [-] buttons several times to call up "SongVol."



- 3 Rotate the dial to set the Song volume between 000 and 127.

### NOTE

- Song volume can be adjusted while a Song is selected.

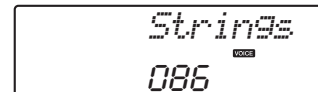
## Melody Voice Setting of the Pre-set Song

You can change the Melody Voice of the current Pre-set Song temporarily to any other desired Voice.

- 1 Press the [SONG] button, select the desired Pre-set Song, then start playback.

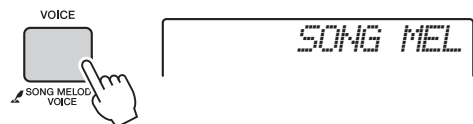


- 2 Press the [VOICE] button, then rotate the dial to select the desired Voice.



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

After "SONG MELODY VOICE" is shown for a few seconds, the Melody Voice of the Song will be changed to that selected in Step 2.



Hold for longer than a second.

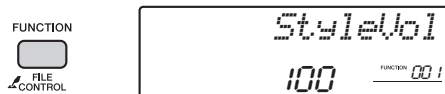
# The Functions

The “Functions” provide access to a range of detailed instrument parameters such as Tuning, Split Point, Voices and Effects. Take a look at the Function List (pages 48–50). When you find the desired Function you want to change, follow the instructions below.

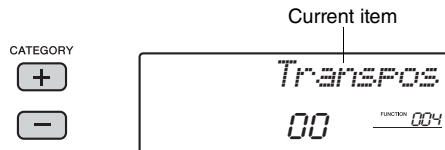
## Basic Procedure in the Function Display

1 Find the desired item in the Function List on pages 48–50.

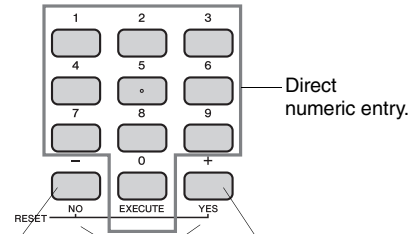
2 Press the [FUNCTION] button.



3 Press the CATEGORY [+] and [-] buttons several times until the desired item appears.



4 Use the dial, the [+] and [-] buttons, or the [0]–[9] number buttons to set the value of the selected function.



- Decrement value by 1.
- Cancel
- Press simultaneously to recall the default setting.
- Increment value by 1.
- Execute

Some Function settings are maintained even if you turn off the power, and can be transferred to the computer as Backup Data (page 32).

## Function List

Function Number	Function	Display	Range/Settings	Default Value	Description
<b>Volume</b>					
001	Style Volume	<i>StyleVol</i>	000–127	100	Refer to page 42.
002	Song Volume	<i>SongVol</i>	000–127	100	Refer to page 47.
003	Tabla Volume	<i>TablaVol</i>	000–127	100	Refer to page 42.
<b>Overall</b>					
004	Transpose	<i>Transpos</i>	-12–12	0	Refer to page 34.
005	Tuning	<i>Tuning</i>	427Hz–453Hz (in approximately 0.2Hz increments)	440.0Hz	Refer to page 34.
006	Pitch Bend Range	<i>PBRange</i>	01–12	2	Sets the range over which you can control pitch by using the PITCH BEND wheel (page 34), in semitone increments.
007	Split Point	<i>SplitPnt</i>	036–096 (C1–C6)	54 (F#2)	Refer to page 43.
008	Touch Sensitivity	<i>TouchSns</i>	1 (Soft), 2 (Medium), 3 (Hard), 4 (Off)	2 (Medium)	Refer to page 35.
<b>Main Voice (page 16)</b>					
009	Volume	<i>M. Volume</i>	000–127	*	Determines the volume of the Main Voice.
010	Octave	<i>M. Octave</i>	-2 – +2	*	Determines the octave range for the Main Voice.
011	Pan	<i>M. Pan</i>	000 (left)–64 (center)–127 (right)	*	Determines the stereo pan position of the Main Voice. The value “0” results in the sound being panned full left; the value “127” results in the sound being panned full right.
012	Reverb Depth	<i>M. Reverb</i>	000–127	*	Determines how much of the Main Voice’s signal is sent to the Reverb effect.
013	Chorus Depth	<i>M. Chorus</i>	000–127	*	Determines how much of the Main Voice’s signal is sent to the Chorus effect.
014	Attack Time	<i>M. Attack</i>	000–127	64	Determines how fast the volume of the Main Voice reaches the Attack level when the note is pressed. The larger the value, the faster the attack rate. The smaller the value, the slower the attack rate.



Function Number	Function	Display	Range/Settings	Default Value	Description
015	Release Time	<i>M. Releas</i>	000–127	64	Determines how fast the volume of the Main Voice falls to 0 when the note is released. The larger the value, the longer the sustain. The smaller the value, the shorter the sustain.
016	Filter Cutoff	<i>M. Cutoff</i>	000–127	64	Determines the Filter Cutoff Frequency (page 37) of the Main Voice.
017	Filter Resonance	<i>M. Reso.</i>	000–127	64	Determines the Filter Resonance (page 37) of the Main Voice.
<b>Dual Voice (page 16)</b>					
018	Dual Voice	<i>D. Voice</i>	001–753	*	Selects a Dual Voice.
019	Volume	<i>D. Volume</i>	000–127	*	Determines the volume of the Dual Voice.
020	Octave	<i>D. Octave</i>	-2 – +2	*	Determines the octave range for the Dual Voice.
021	Pan	<i>D. Pan</i>	000 (left)–64 (center)–127 (right)	*	Determines the stereo pan position of the Dual Voice. A value of "0" results in the sound being panned full left; a value of "127" results in the sound being panned full right.
022	Reverb Depth	<i>D. Reverb</i>	000–127	*	Determines how much of the Dual Voice's signal is sent to the Reverb effect.
023	Chorus Depth	<i>D. Chorus</i>	000–127	*	Determines how much of the Dual Voice's signal is sent to the Chorus effect.
024	Attack Time	<i>D. Attack</i>	000–127	64	Determines how fast the volume of the Dual Voice reaches the Attack level when the note is pressed. The larger the value, the faster the attack rate. The smaller the value, the slower the attack rate.
025	Release Time	<i>D. Releas</i>	000–127	64	Determines how fast the volume of the Dual Voice falls to 0 when the note is released. The larger the value, the longer the sustain. The smaller the value, the shorter the sustain.
026	Filter Cutoff	<i>D. Cutoff</i>	000–127	64	Determines the Filter Cutoff Frequency (page 37) of the Dual Voice.
027	Filter Resonance	<i>D. Reso.</i>	000–127	64	Determines the Filter Resonance (page 37) of the Dual Voice.
<b>Split Voice (page 17)</b>					
028	Split Voice	<i>S. Voice</i>	001–753	86 (Strings)	Selects a Split Voice.
029	Volume	<i>S. Volume</i>	000–127	*	Determines the volume of the Split Voice.
030	Octave	<i>S. Octave</i>	-2 – +2	*	Determines the octave range for the Split Voice.
031	Pan	<i>S. Pan</i>	000 (left)–64 (center)–127 (right)	*	Determines the stereo pan position of the Split Voice. A value of "0" results in the sound being panned full left; a value of "127" results in the sound being panned full right.
032	Reverb Depth	<i>S. Reverb</i>	000–127	*	Determines how much of the Split Voice's signal is sent to the Reverb effect.
033	Chorus Depth	<i>S. Chorus</i>	000–127	*	Determines how much of the Split Voice's signal is sent to the Chorus effect.
<b>Effects</b>					
034	Reverb Type	<i>Reverb</i>	01–10	**	Refer to page 33.
035	Chorus Type	<i>Chorus</i>	01–05	**	Refer to page 33.
036	Master EQ Type	<i>MasterEQ</i>	Speaker, Boost, Headphone, Line Out1, Line Out2	1 (Speaker)	Refer to page 35.
037	Wide Type	<i>Wide</i>	1–4	4 (Wide Off)	Determines the Ultra-Wide Stereo type. Higher values produce a greater Wide effect.
<b>Harmony (page 19)</b>					
038	Harmony Type	<i>HarmType</i>	01–26	*	Determines the Harmony type.
039	Harmony Volume	<i>HarmVol</i>	000–127	*	Determines the volume of the Harmony effect
<b>Arpeggio (page 20)</b>					
040	Arpeggio Type	<i>ARP Type</i>	001–162	*	Determines the Arpeggio type.
041	Arpeggio Velocity	<i>ARP Velo</i>	1(Original), 2(Thru)	*	When "Thru" is selected, the velocities of Arpeggio playback are determined by your playing strength. When "Original" is selected, the velocities of Arpeggio playback are determined by the original setting regardless of your playing strength.
042	Arpeggio Quantize	<i>Quantize</i>	1(OFF), 2(1/8), 3(1/16)	*	Refer to page 39.
<b>Computer (USB TO HOST terminal)***</b>					
043	PC mode	<i>PC mode</i>	OFF/PC1/PC2	OFF	Optimizes the MIDI settings when you connect to a computer
<b>MIDI***</b>					
044	Local Control	<i>Local</i>	ON/OFF	ON	Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF). When you record your keyboard performance to the application software on the computer via MIDI, set this parameter to OFF.

Function Number	Function	Display	Range/Settings	Default Value	Description
045	External Clock	<i>ExtClock</i>	ON/OFF	OFF	Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON). When you record your keyboard performance to the application software on the computer via MIDI, set this parameter to ON.
046	Keyboard Out	<i>KbdOut</i>	ON/OFF	ON	Determines whether MIDI messages generated via keyboard performance are transmitted (ON) or not (OFF) from the USB TO HOST terminal.
047	Style Out	<i>StyleOut</i>	ON/OFF	OFF	Determines whether MIDI messages generated via Style playback are transmitted (ON) or not (OFF) from the USB TO HOST terminal.
048	Song Out	<i>SongOut</i>	ON/OFF	OFF	Determines whether MIDI messages generated via Song playback are transmitted (ON) or not (OFF) from the USB TO HOST terminal.
049	Initial Send	<i>InitSend</i>	YES/NO	-	Lets you send the data of the panel settings to a computer. Press [+] to send, or press [-] to cancel. This operation should be done immediately after starting the Recording operation on the computer.
<b>Metronome (page 18)</b>					
050	Time Signature Numerator	<i>Timesign</i>	00–60	**	Determines the time signature of the Metronome.
051	Time Signature Denominator	<i>TimesigD</i>	Half note, Quarter note, Eighth note, Sixteenth note	**	Determines the length of each metronome beat.
052	Metronome Volume	<i>MtrVol</i>	000–127	100	Determines the volume of the Metronome.
<b>Lesson (page 26)</b>					
053	Lesson Track (R)	<i>R-Part</i>	GuideTrack1–16, OFF	1	Determines the guide track number for your right hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer.
054	Lesson Track (L)	<i>L-Part</i>	GuideTrack1–16, OFF	2	Determines the guide track number for your left hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer.
055	Grade	<i>Grade</i>	ON/OFF	ON	Determines whether the Grade function is on or off.
056	Your Tempo	<i>YourTemp</i>	ON/OFF	ON	This parameter is for Lesson 3 “Waiting.” When set to ON, playback tempo will change to match the speed at which you are playing. When set to OFF, playback tempo will be maintained regardless of the speed at which you are playing.
<b>Demo (page 24)</b>					
057	Demo Group	<i>DemoGrp</i>	1 (Demo) / 2 (Preset) / 3 (User) / 4 (Download) / 5 (USB)	1 (Demo)	Refer to page 46.
058	Demo Play Mode	<i>PlayMode</i>	1 (Normal) / 2 (Random)	1 (Normal)	Refer to page 46.
059	Demo Cancel	<i>D-Cancel</i>	ON/OFF	OFF	Determines whether Demo cancel is enabled or not. When this is set to ON, the Demo Song will not play, even if the [DEMO/BGM] button is pressed.
<b>Registration Memory (page 31)</b>					
060	Freeze Mode	<i>Freeze</i>	ON/OFF	OFF	When set to on, the Style related settings are maintained even if you press another Registration Memory number button.
<b>Auto Power Off (page 14)</b>					
061	Auto Power Off Time	<i>AutoDff</i>	OFF, 5/10/15/30/60/120 (min.)	30 minutes	Specifies the time that will elapse before the instrument’s power is automatically turned off.
<b>Battery (page 12)</b>					
062	Battery Type	<i>Battery</i>	1 (Alkaline) / 2 (Ni-MH)	1 (Alkaline)	Selects the type of batteries you have installed to this instrument.
<b>Pedal Function (page 20)</b>					
063	Pedal Function	<i>Pdl Func</i>	1 (Sustain) / 2 (Arp Hold) / 3 (Hold+Sus) / 4 (Sostenut)	1 (Sustain)	Determines the function of the footswitch connected to the SUSTAIN jack (page 13). When “1 (Sustain)” or “4 (Sostenut)” is selected, the footswitch works as a damper pedal or sostenuto pedal as on an acoustic piano. Note that sustain does not affect the Split Voice, while sostenuto affects only the Split Voice when Split is on. When “2 (Arp Hold)” is selected, pressing the footswitch maintains Arpeggio playback even if you release the notes (page 39). When “3 (Hold+Sus)” is selected, both the Arpeggio Hold and Sustain functions are assigned to the footswitch.

\* The appropriate value is automatically set for each Voice combination.  
 \*\* The appropriate value is automatically set for each Song, Style or Tabla/Tanpura.  
 \*\*\* For details, refer to “Computer-related Operations” (page 9).

# USB Flash Memory Operations

By connecting the USB flash memory device to the [USB TO DEVICE] terminal, you can save the data created on this instrument, such as User Song and parameter settings. The saved data can be recalled to this instrument again for the future use.

## IMPORTANT

- It is recommended to use the Power Adaptor when executing USB flash memory operations, since battery power may not be reliable enough to last through these crucial operations. When you try executing certain functions, the “Use Adaptor” indication may appear and the selected function cannot be executed.

## Precautions when using the [USB TO DEVICE] terminal

This instrument features a built-in [USB TO DEVICE] terminal. When connecting a USB device to the terminal, be sure to handle the USB device with care. Follow the important precautions below.

### NOTE

- For more information about the handling of USB devices, refer to the owner’s manual of the USB device.

### ● Compatible USB devices

The instrument does not necessarily support all commercially available USB devices. Yamaha cannot guarantee operation of USB devices that you purchase. Before purchasing a USB device for use with this instrument, check the following web page:

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

### NOTE

- Other USB devices such as a computer keyboard or mouse cannot be used.

### ● Connecting USB flash memory

- When connecting a USB device to the [USB TO DEVICE] terminal, make sure that the connector on the device is appropriate and that it is connected in the proper direction.
- When connecting a USB cable, make sure that the length is less than 3 meters.
- Though the instrument supports the USB 1.1 standard, you can connect and use a USB 2.0 storage device with the instrument. However, note that the transfer speed is that of USB 1.1.

## Using USB Flash Memory

By connecting the instrument to a USB flash memory, you can save data you’ve created to the connected device, as well as read data from the connected device.

### ● The number of USB flash memory to be used

Only one USB flash memory device can be connected to the [USB TO DEVICE] terminal.

### ● Formatting USB flash memory

When a USB flash memory is connected, a message may appear prompting you to format the device. If so, execute the Format operation (page 53).

### NOTICE

- The format operation overwrites any previously existing data. Make sure that the USB flash memory you are formatting does not contain important data.

### ● To protect your data (write-protect)

To prevent important data from being inadvertently erased, apply the write-protect provided with the particular USB flash memory. If you are saving data to the USB flash memory, make sure to disable write-protect.

### ● Connecting/removing USB storage device

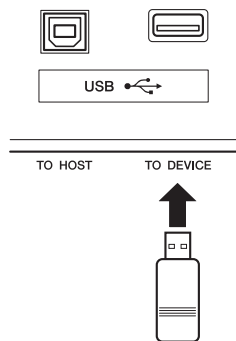
Before removing the USB flash memory from the [USB TO DEVICE] terminal, make sure that the instrument is not accessing data (such as in the Save and Delete operations).

### NOTICE

- Avoid frequently connecting/disconnecting the USB flash memory too often. Doing so may result in the operation of the instrument “freezing” or hanging up. While the instrument is accessing data (such as during Save, Delete, Load and Format operations) or is mounting the USB storage device (shortly after the connection), do NOT unplug the USB flash memory, and do NOT turn the power off. Doing so may corrupt the data on either or both devices.

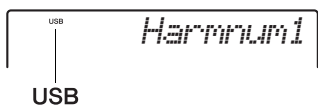
## Connecting a USB Flash Memory

- 1 **Connect a USB flash memory to the USB TO DEVICE terminal, being careful to insert it with the proper orientation.**

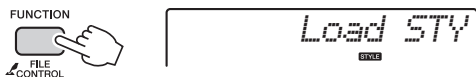


- 2 **Wait until “USB” appears on the left corner of the display.**

The “USB” indication confirms that the connected USB flash memory has been mounted or recognized.



- 3 **Hold down the [FILE CONTROL] button to call up the File Control display.**



Hold for longer than a second.

- **If “UnFormat” followed by “Format?” appears:**

This indicates that the connected USB flash memory has not been formatted, and cannot be mounted or recognized. Execute the Format operation by following the instructions starting with Step 2 on page 53.

- 4 **Rotate the dial to call up the desired File Control function, then execute it.**

For details, refer to the table below.

Display	File Control function	Page
Load STY	Loading a Style File	57
Load USR	Loading User Data from a USB Flash Memory	56
Save SMF	Saving a User Song as SMF to a USB Flash Memory	55
Save USR	Saving User Data to a USB Flash Memory	54
Del SMF	Deleting a SMF File in a USB Flash Memory	58
Del USR	Deleting a User File in a USB Flash Memory	58
Format?	Formatting a USB Flash Memory	53
Exit?	Exiting from a File Control display	59

Messages may appear on the display during File Control procedures to aid in smooth operation. Refer to the Message List on page 59 for details.

**NOTE**

- No sound will be produced if the keyboard is played while the file control display is showing, and only buttons related to File Control operations will be active.

**NOTE**

- The File Control display cannot be called up in the following situations.
- During playback of Style, Tabla/Tanpura, or Song
  - When “USB” does not appear even if you have connected a USB flash memory to the [USB TO DEVICE] terminal.

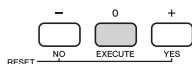
## Formatting a USB Flash Memory

The Format operation lets you prepare commercially available USB flash memory for use with this instrument is called “Format.”

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Format?”



- 3 Press the [0/EXECUTE] button. A confirmation message will appear. To cancel the operation, press the [-/NO] button.



- 4 Press the [0/EXECUTE] button again or the [+ /YES] button to execute the Format operation.

After a while, a message indicating completion of the operation appears, and the “USER FILES” folder will be created on the root directory in the USB flash memory.

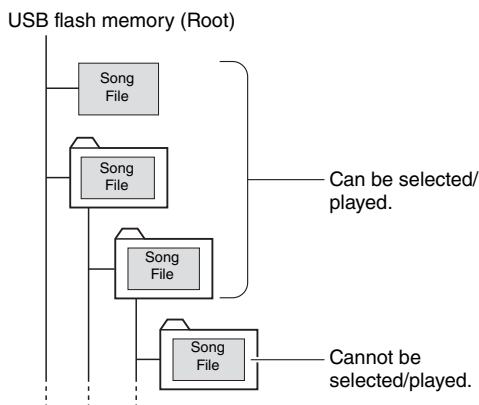
### NOTICE

- The Format operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

- 5 Press the [FILE CONTROL] button to exit from the File Control display.



## Recognizable file location in the USB flash memory for Song playback (page 24)



### IMPORTANT

- In order to play data copied to a USB flash memory from a computer or other device, the data must be stored either in the USB flash memory's root directory or a first-level/second-level folder in the root directory. Data stored in third-level folders created inside a second-level folder cannot be selected and played by this instrument.

### NOTE

- If playback of an external Song (created via a different instrument or computer) produces the distorted sound, decrease the Song Volume (page 47) to reduce the distortion then adjust the Master Volume (page 14).

## Saving User Data to a USB Flash Memory

The following data created on this instrument comprise the “User Data.”

- All 10 User Songs
- Styles which have been transferred from a computer then loaded to Style numbers 207–211.
- All the Registration Memory settings

The User Data can be saved as a single “User File” (.usr) to a USB flash memory.

**NOTE**

- The extension (.usr) of the User File will not be shown on the display of this instrument. Confirm the extension on the computer display when connecting the USB flash memory to a computer.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Save USR.”



- 3 Press the [0/EXECUTE] button. As the target file name, “USER\*\*\*” (\*\*\*: number) appears on the display. If desired, rotate the dial to select a different file name from “USER001”–“USER100.”



- 4 Press the [0/EXECUTE] button again. A confirmation message will appear. To cancel the operation, press the [-/NO] button.

**Overwriting existing files**

If a file that already contains data is selected as the target user file, an overwrite confirmation message will appear.

- 5 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Save operation.

After a while, a message indicating completion of the operation appears, and a User file (.usr) will be saved in a “USER FILES” folder which will automatically be created on the USB flash memory.

**NOTICE**

- The Save operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

**NOTE**

- The amount of time required for this operation may vary depending on the condition of the USB flash memory.

- 6 Press the [FILE CONTROL] button to exit from the File Control display.



**NOTE**

- If you want to recall the User file (.usr) to this instrument again, execute the Load operation (page 56).

## Saving a User Song as SMF to a USB Flash Memory

A User Song can be converted to SMF (Standard MIDI File) format 0 and saved to a USB flash memory.

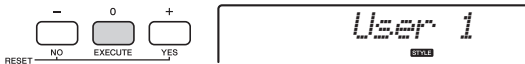
### SMF (Standard MIDI File) format

With this format, various events via the keyboard performance such as note on/off and Voice selection will be recorded as MIDI data. The SMF Format 0 and Format 1 are available. A large number of MIDI devices are compatible with SMF Format 0, and most commercially available Song file (MIDI file) is provided in SMF Format 0.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Save SMF.”



- 3 Press the [0/EXECUTE] button. As the target User Song, “USER\*\*” (\*\*: number 1–10) appears on the display. If desired, rotate the dial to select a different User Song from “USER01”–“USER10” then press the [0/EXECUTE] button.



- 4 Press the [0/EXECUTE] button again. As the target file name on the USB flash memory, “SONG\*\*\*” (\*\*\*: number 1–100) appears on the display. If desired, rotate the dial to select the different file.



- 5 Press the [0/EXECUTE] button again.

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

### Overwriting existing files

If a file that already contains data is selected, an overwrite confirmation message will appear.

- 6 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Save operation.

After a while, a message indicating completion of the operation appears, and a User Song will be saved as the SMF format 0 in a “USER FILES” folder which will automatically be created on the USB flash memory.

### NOTICE

- The Save operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

### NOTE

- The amount of time required for this operation may vary depending on the condition of the USB flash memory.

- 7 Press the [FILE CONTROL] button to exit from the File Control display.



## Loading User Data from a USB Flash Memory

A User data (page 54) saved as a User file (.usr) to the USB flash memory can be loaded to this instrument.

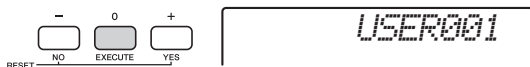
### NOTICE

- Loading a User file will overwrite and erase the existing data, including all 10 User Songs, Style data loaded to the Style numbers 207–211, and all the Registration Memory settings. Save important data you want to keep to a separate USB flash memory before loading a User file.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Load USR.”



- 3 Press the [0/EXECUTE] button. “USER\*\*\*” (\*\*\*: number) appears on the display as the User file name in the USB flash memory. As desired, rotate the dial to select a different User file.



Note that the User file should be saved in the USERFILES folder on the USB flash memory. Files saved outside this folder cannot be recognized.

- 4 Press the [0/EXECUTE] button again. A confirmation message will appear. To cancel the operation, press the [-/NO] button.
- 5 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Load operation.

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

### NOTICE

- The Load operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

- 6 Press the [FILE CONTROL] button to exit from the File Control display.
- 7 Check the loaded data by calling up the User Song, one of the Styles 207–211, and Registration Memory settings.



## Loading a Style File

Style data created on another instrument or a computer can be loaded to the Style numbers 207–211, and you can play them like the internal preset Styles. The following two Load operations are available.

- Loading of a Style file (.sty) saved on the root directory on the USB flash memory
- Loading of a Style file (.sty) transferred from a computer via the Musicsoft Downloader and stored in the internal memory of this instrument

**NOTE**

- For instructions on transferring a Style file from a computer via the Musicsoft Downloader, refer to “Computer-related Operations” (page 9). After data transfer, load the Style data to one of the Style numbers 207–211 to enable playback.

**NOTICE**

- Loading a Style file will overwrite and erase the existing data of the destination number. Save important data you want to keep to a separate USB flash memory before loading.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Load STY:”



- 3 Press the [0/EXECUTE] button. A name of a Style file in the USB flash memory or internal memory of this instrument will appear on the display. As desired, rotate the dial to select a different Style file.



- 4 Press the [0/EXECUTE] button again.

As the Load destination, “Load To? \*\*\*” (\*\*\*: 207–211) appears on the display. If desired, rotate the dial to select a different number.



- 5 Press the [0/EXECUTE] button again.

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

- 6 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Load operation.

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

**NOTICE**

- The Load operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

- 7 Press the [STYLE] button, rotate the dial to select a Style from 207–211, then try playing it back.

## Deleting a User File in the USB Flash Memory

User Files (.usr) in the root directory of the USB flash memory can be deleted.

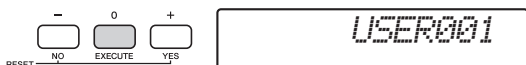
**IMPORTANT**

- The User file (.usr) to be deleted should have been saved in the root directory of the USB flash memory. Files outside this folder cannot be recognized.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Del USR.”



- 3 Press the [0/EXECUTE] button. As a User file name in the USB flash memory, “USER\*\*\*\*” (\*\*\*\*: number) appears on the display. As desired, rotate the dial to select a different User file.



- 4 Press the [0/EXECUTE] button again. A confirmation message will appear. To cancel the operation, press the [-/NO] button.
- 5 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Delete operation. After a while, a message indicating completion of the operation appears.

**NOTICE**

- The Delete operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

- 6 Press the [FILE CONTROL] button to exit from the File Control display.

## Deleting a SMF File in the USB Flash Memory

You can delete a SMF file that has been saved in the USB flash memory via the Save SMF operation (page 55).

**IMPORTANT**

- The SMF file (.usr) to be deleted should have been saved in the root directory of the USB flash memory. Files outside this folder cannot be recognized. This operation can be applied only to file names with the “SONG\*\*\*\*” (\*\*\*\*: number) format.

- 1 Hold the [FILE CONTROL] button for longer than a second to call up the File Control display.
- 2 Use the CATEGORY [+] and [-] buttons to call up “Del SMF.”



- 3 Press the [0/EXECUTE] button. As a SMF file name in the USB flash memory, “SONG\*\*\*\*” (\*\*\*\*: number) appears on the display. As desired, rotate the dial to select a different SMF file.



- 4 Press the [0/EXECUTE] button again. A confirmation message will appear. To cancel the operation, press the [-/NO] button.
- 5 Press the [0/EXECUTE] button again, or the [+ /YES] button to execute the Delete operation. After a while, a message indicating completion of the operation appears.

**NOTICE**

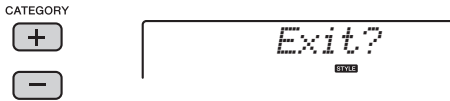
- The Delete operation cannot be cancelled during execution. Never turn off the power or disconnect the USB flash memory during the operation. Doing so may result in data loss.

- 6 Press the [FILE CONTROL] button to exit from the File Control display.


## Exiting from a File Control display

To exit from the File Control display, press the [VOICE], [STYLE], [TABLA/TANPURA], [SONG], [FUNCTION], or [GRAND PIANO] button. You can also exit from the File Control function mode as follows:

- 1 Use the CATEGORY [+] and [-] buttons to call up “Exit?.”



- 2 Press the [0/EXECUTE] button to exit from the File Control display.

Message	Comment
Can't Use	Indicates that the file control function is currently unavailable since the media is being accessed.
Comple.	Indicates the specified job completion such as data saving and transmission.
Data Err	Displayed when the user song contains illegal data.
Disk Ful	Displayed when saving data cannot be executed since the media memory becomes full.
Error	Displayed when a file error or operational error occurs.
File Ful	Indicates that SMF songs cannot be displayed since the total number of files exceeds the capacity.
no data	There is no data to save in the flash memory.
no file	There is no file to load or delete from the media.
	Communication with the USB device has been shut down because of the overcurrent to the USB device. Disconnect the device from the [USB TO DEVICE] terminal, then turn on the power of the instrument.
Protect	Displayed when trying to save or delete data on a protected media, or format a protected media. Set protect to off and try again.
UnFormat	Displayed when connecting an unformatted media.
UseAdpt	USB flash memory save, delete, and format operations cannot be performed when the instrument is being powered from battery. Use an AC adaptor.

# 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
The instrument is automatically turned off even if no operation is done.	This is normal. This occurs due to the Auto Power Off function (page 14).
The volume is too soft. The sound quality is poor. The Style/Tabla/Song/Arpeggio stops unexpectedly or will not play. The recorded data of the song, etc. does not play correctly. The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones or completely recharged ones, or use the AC power adaptor.
No sound is produced even when the keyboard is played, or a Song, Style, or Tabla/Tanpura is being played back.	Check whether a set of headphones or an audio cable is connected to the PHONES/OUTPUT, or not. When such a connection is made, no sound is output from the speaker of this instrument.
	Check the on/off status of the Local Control (page 49). Normally, set this parameter to ON.
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.
No sound is produced even when playing keys in the right hand area of the keyboard, although chords played in the left hand area are recognized.	Check whether or not the Dictionary function (page 45) is used. When used, this is normal.
Not all of the Voices seem to sound, or the sound seems to be cut off, when playing the keyboard, Arpeggio, Style or Tabla/Tanpura or Song.	You have exceeded 32 simultaneous notes, which is the maximum polyphony (the maximum amount of notes that can be played simultaneously) of this instrument. If the Main, Dual, and Split Voices are being used along with playback of Arpeggio, Style, Tabla/Tanpura or Song, some notes/sounds may be omitted (or "stolen").
The sound of the Voice changes from note to note.	This is normal. The 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.
The keyboard performance and playback of Style/Tabla/Song produces an unexpected or inappropriate sound, and cannot be restored to the normal status.	Using the Knobs can produce dramatic changes in the sound, but may also produce unexpected or undesired sounds. If you want to restore the original, normal sound before being changed by the Knobs, change the Voice, Style, Tabla/Tanpura or Song, or press the [PORTABLE GRAND] button to reset the panel settings.
The Style, Tabla/Tanpura or Song does not start even when the [START/STOP] button is pressed. The Arpeggio does not start even when the note is pressed with the Arpeggio turned on.	Check the on/off status of the External Clock (page 50). Normally, set this parameter to OFF.
The volume of the Style, Tabla/Tanpura or Song is too low.	Check the volume setting in the Functions (pages 42 and 47).
The chords played in the left hand area cannot be recognized even when the ACMP is turned on.	Check the Split Point setting (page 43). Set this to the appropriate value.
Style parts other than the Rhythm part produce no sound.	Check the on/off status of the ACMP (page 22). Make sure to turn ACMP on.
The Styles numbered 194–206 produce no rhythm drum sound even when the [START/STOP] button is pressed.	This is normal. Style numbers 194–206 have no rhythm parts, so no rhythm will play. When one of these Styles is selected, turn ACMP on, then specify the chord in the left hand area to play Style parts other than the Rhythm part.
The ACMP indicator does not appear on the display when the [ACMP ON/OFF] button is pressed.	Check the on/off status of the [STYLE] lamp. When using a Style, press the [STYLE] button to turn on the [STYLE] lamp.

# 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 Split Voice and Song functions. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

### NOTE

- The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the instrument via MIDI from an external device.
- Program change numbers are often specified as numbers "0-127." Since this list uses a "1-128" numbering system, in such cases it is necessary to subtract 1 from the transmitted program change numbers to select the appropriate sound: e.g. to select No. 2 in the list, transmit program change number 1.
- Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

## Panel Voice List

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
<b>INDIAN</b>				
1	0	113	21	Harmonium 1 (Single Reed)
2	0	114	21	Harmonium 2 (Double Reed)
3	0	115	21	Harmonium 3 (Triple Reed)
4	0	123	112	Shehnai
5	0	123	111	Sarangi 1
6	0	124	111	Sarangi 2
7	0	124	112	Pungi
8	0	117	74	Bansuri
9	0	112	105	Sitar 1
10	0	113	105	Sitar 2
11	0	115	105	Sarod
12	0	97	16	Santur
13	0	114	105	Tanpura
14	0	116	117	Tabla
15	126	0	116	Tabla Kit 1
16	126	0	117	Tabla Kit 2
17	126	0	40	Indian Kit 1
18	126	0	115	Indian Kit 2
19	126	0	112	Animal Kit
<b>PIANO</b>				
20	0	112	1	Grand Piano
*21	-	-	-	Octave Piano
22	0	112	2	Bright Piano
23	0	112	7	Harpsichord
*24	-	-	-	Octave Harpsichord
25	0	112	4	Honky-tonk Piano
26	0	112	3	MIDI Grand Piano
27	0	113	3	CP 80
*28	-	-	-	Piano+Strings
*29	-	-	-	Piano Pad
<b>E.PIANO</b>				
30	0	114	5	Cool! Galaxy Electric Piano
31	0	113	6	Hyper Tines
*32	-	-	-	Tiny Electric Piano
33	0	112	5	Funky Electric Piano
34	0	112	6	DX Modern Electric Piano
35	0	114	6	Venus Electric Piano
*36	-	-	-	EP Pad
37	0	112	8	Clavi
<b>ORGAN</b>				
38	0	118	19	Cool! Organ
39	0	117	19	Cool! Rotor Organ
40	0	112	17	Jazz Organ 1
41	0	113	17	Jazz Organ 2
42	0	112	19	Rock Organ
43	0	114	19	Purple Organ
44	0	112	18	Click Organ
45	0	116	17	Bright Organ
46	0	127	19	Theater Organ
47	0	121	20	16'+2' Organ
48	0	120	20	16'+4' Organ
*49	-	-	-	Full Organ
50	0	113	20	Chapel Organ
51	0	112	20	Pipe Organ
52	0	112	21	Reed Organ

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
<b>ACCORDION</b>				
53	0	112	22	Musette Accordion
54	0	113	22	Traditional Accordion
55	0	113	24	Bandoneon
56	0	113	23	Modern Harp
57	0	112	23	Harmonica
<b>GUITAR</b>				
58	0	116	25	Dynamic Nylon Guitar
59	0	118	30	Dynamic Overdriven
60	0	112	25	Classical Guitar
61	0	112	26	Folk Guitar
62	0	112	27	Jazz Guitar
*63	-	-	-	Octave Jazz Guitar
64	0	117	28	60s Clean Guitar
65	0	113	26	12Strings Guitar
66	0	112	28	Clean Guitar
67	0	113	27	Octave Guitar
68	0	112	29	Muted Guitar
69	0	112	30	Overdriven Guitar
70	0	112	31	Distortion Guitar
<b>BASS</b>				
71	0	116	34	Dynamic Electric Bass
72	0	112	34	Finger Bass
73	0	112	33	Acoustic Bass
74	0	112	35	Pick Bass
75	0	112	36	Fretless Bass
76	0	112	37	Slap Bass
77	0	118	40	DX100 Bass
78	0	119	40	Ramp Bass
79	0	120	40	Dark Core Bass
80	0	119	39	Fat Lo Bass
81	0	122	40	Bleep Bass
82	0	121	40	Funk Bass
83	0	112	39	Synth Bass
84	0	113	39	Hi-Q Bass
85	0	113	40	Dance Bass
<b>STRINGS</b>				
86	0	112	49	String Ensemble
87	0	112	50	Chamber Strings
88	0	115	50	Marcato Strings
89	0	113	50	Slow Strings
*90	-	-	-	Octave Strings
*91	-	-	-	Orchestra Section
92	0	112	45	Tremolo Strings
93	0	112	51	Synth Strings
94	0	112	46	Pizzicato Strings
*95	-	-	-	Octave Pizzicato Strings
96	0	112	41	Violin
97	0	112	43	Cello
*98	-	-	-	Strings Session
99	0	112	44	Contrabass
100	0	112	47	Harp
*101	-	-	-	Octave Harp
102	0	112	106	Banjo
103	0	112	56	Orchestra Hit
*104	-	-	-	Orchestra Hit & Timpani
105	0	96	105	Tambra

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
106	0	96	106	Rabab
107	0	98	106	Oud
108	0	0	107	Shamisen
109	0	97	106	Gopichant
110	0	0	108	Koto
111	0	96	108	Taisho-kin
112	0	0	16	Dulcimer
113	0	97	108	Kanoon
114	0	96	16	Cimbalom
**115	-	-	-	Tremolo Cimbalom
116	0	40	47	Yang Chin
**117	-	-	-	Tremolo Yang Chin
<b>CHOIR</b>				
118	0	112	53	Choir
119	0	113	53	Vocal Ensemble
120	0	112	55	Air Choir
*121	-	-	-	Grand Choir
122	0	112	54	Vox Humana
<b>SAXOPHONE</b>				
123	0	117	67	Sweet! Tenor Sax
124	0	113	65	Sweet! Soprano Sax
125	0	116	66	Sax Ensemble
*126	-	-	-	Ballroom Sax Ensemble
*127	-	-	-	Jazz Section
128	0	112	67	Tenor Sax
129	0	112	66	Alto Sax
130	0	112	65	Soprano Sax
131	0	112	68	Baritone Sax
132	0	114	67	Breathy Tenor Sax
133	0	112	72	Clarinet
134	0	112	69	Oboe
135	0	112	70	English Horn
136	0	112	71	Bassoon
137	0	116	72	WoodWind Section
138	0	97	112	Hichiriki
<b>TRUMPET</b>				
139	0	115	57	Sweet! Trumpet
140	0	112	57	Trumpet
141	0	112	58	Trombone
142	0	113	58	Trombone Section
143	0	112	60	Muted Trumpet
144	0	112	61	French Horn
*145	-	-	-	Octave Horns
146	0	112	59	Tuba
<b>BRASS</b>				
147	0	112	62	Brass Section
148	0	113	62	Big Band Brass
149	0	116	62	Octave Brass
*150	-	-	-	Ballroom Brass
*151	-	-	-	Jazz Brass Section
*152	-	-	-	Orchestra Brass
153	0	113	56	Brass Hit
154	0	113	63	80s Brass
*155	-	-	-	Fat Synth Brass
156	0	119	62	Mellow Horns
157	0	115	63	Funkey Brass
158	0	114	63	Techno Brass
159	0	112	63	Synth Brass
<b>FLUTE</b>				
160	0	114	74	Sweet! Flute
161	0	113	76	Sweet! Pan Flute
162	0	112	74	Flute
*163	-	-	-	Flute & Clarinet
164	0	112	73	Piccolo
165	0	112	76	Pan Flute
166	0	112	75	Recorder
167	0	112	80	Ocarina
<b>SYNTH LEAD</b>				
168	0	104	82	RS Saw Lead 1

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
169	0	106	82	RS Saw Lead 2
170	0	114	84	RS Dist Lead
171	0	119	81	RS Dual Square
172	0	107	82	RS Ramp Lead
173	0	108	82	RS Tech Saw
174	0	119	85	RS Quack Lead
175	0	109	82	RS Dual Saw
176	0	105	82	RS Sync 1
177	0	119	88	RS Sync 2
178	0	112	81	Square Lead
179	0	112	82	Sawtooth Lead
180	0	112	88	Under Heim
181	0	112	85	Portatone
182	0	115	82	Analogon
183	0	119	82	Fargo
184	0	112	86	Voice Lead
185	0	121	82	Funky Lead
*186	-	-	-	Octave Lead
*187	-	-	-	Wah Square Lead
*188	-	-	-	Resonance Lead
*189	-	-	-	Quack Lead
*190	-	-	-	5th Wah Lead
*191	-	-	-	Super 5th Lead
<b>SYNTH PAD</b>				
*192	-	-	-	Dynamic Chime
193	0	126	90	RS Analog Pad
194	0	123	90	RS Synth Pad
195	0	113	92	RS Warm Pad
196	0	116	91	RS Short Resonance
197	0	124	90	RS Noise Pad
198	0	125	90	RS Tekno Man
199	0	118	89	Sweet Heaven
200	0	121	89	Dream Heaven
201	0	113	89	Symbiont
202	0	112	99	Star Dust
203	0	112	92	Xenon Pad
204	0	112	95	Equinox
205	0	112	89	Fantasia
206	0	113	90	Dark Moon
207	0	112	101	Brightness
208	0	113	101	Bell Pad
<b>PERCUSSION</b>				
209	0	112	12	Vibraphone
210	0	112	13	Marimba
**211	-	-	-	Tremolo Marimba
212	0	112	14	Xylophone
**213	-	-	-	Tremolo Xylophone
214	0	112	115	Steel Drums
**215	-	-	-	Tremolo Steel Drum
216	0	112	9	Celesta
217	0	112	11	Music Box
218	0	112	15	Tubular Bells
219	0	112	48	Timpani
**220	-	-	-	Timpani Roll
<b>DRUM KITS</b>				
221	127	0	88	Power Kit
222	127	0	1	Standard Kit 1
223	127	0	2	Standard Kit 2
224	127	0	9	Room Kit
225	127	0	17	Rock Kit
226	127	0	25	Electronic Kit
227	127	0	59	T8 Kit
228	127	0	60	T9 Kit
229	127	0	26	Analog Kit
230	127	0	113	Dance Kit
231	127	0	33	Jazz Kit
232	127	0	41	Brush Kit
233	127	0	49	Symphony Kit
234	126	0	1	SFX Kit 1

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
235	126	0	2	SFX Kit 2
236	126	0	21	Bass Drum Kit
237	126	0	22	Reverse Bass Drum Kit
238	126	0	125	China Kit 1
239	127	0	127	China Kit 2
240	126	0	37	Arabic Kit
241	126	0	41	Cuban Kit
<b>ARPEGGIO</b>				
242	-	-	-	Concerto
243	-	-	-	Chambers
244	-	-	-	Pizzicato Strings
245	-	-	-	Latin Rock
246	-	-	-	Brass Section 1
247	-	-	-	Brass Section 2
248	-	-	-	Funk Brass
249	-	-	-	Piano Chord
250	-	-	-	Piano Ballad
251	-	-	-	Piano Arpeggio
252	-	-	-	Hybrid
253	-	-	-	Synth Sequence
254	-	-	-	Guitarist
*255	-	-	-	Strum
256	-	-	-	Pickin'
257	-	-	-	Spanish
258	-	-	-	Synth Chords
259	-	-	-	Funky Clavi
260	-	-	-	Reggae Organ
261	-	-	-	Harpeggio
262	-	-	-	Analog Sequence
263	-	-	-	Sawtooth
264	-	-	-	Percussion Arpeggio
265	-	-	-	Trill
266	-	-	-	Club Beat
267	-	-	-	R&B Loop
268	-	-	-	Club Adds
269	-	-	-	Samba
270	-	-	-	Indian
271	-	-	-	Arabic
272	-	-	-	Finger Bass Left
273	-	-	-	Combo Jazz Left
274	-	-	-	Paul's Bass Left
275	-	-	-	Trance Bass Left
276	-	-	-	Acid Bass Left
277	-	-	-	Piano Ballad Left
278	-	-	-	Salsa Piano Left
279	-	-	-	Piano Arpeggio Left
280	-	-	-	Guitar Arpeggio Left
281	-	-	-	Strum Left
282	-	-	-	Teen Tal C
283	-	-	-	Teen Tal F
284	-	-	-	Teen Tal A
285	-	-	-	Dadra D
286	-	-	-	Dadra E
287	-	-	-	Dadra G

**XGlite Voice List**

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
<b>XG PIANO</b>				
288	0	0	1	Grand Piano
289	0	1	1	Grand Piano KSP
290	0	18	1	MellowGrPno
291	0	40	1	Piano Strings
292	0	41	1	Dream
293	0	0	2	Bright Piano
294	0	1	2	Bright Piano KSP
295	0	0	3	Electric Grand Piano

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
296	0	1	3	Electric Grand Piano KSP
297	0	32	3	Detuned CP80
298	0	40	3	LayeredCP 1
299	0	41	3	LayeredCP 2
300	0	0	4	Honky-tonk Piano
301	0	1	4	Honky-tonk Piano KSP
302	0	0	5	Electric Piano 1
303	0	1	5	Electric Piano 1 KSP
304	0	18	5	MellowEP 1
305	0	32	5	Chorus Electric Piano 1
306	0	40	5	HardEI.Piano
307	0	45	5	Velocity Crossfade EI.P 1
308	0	64	5	60's EI.Piano 1
309	0	0	6	Electric Piano 2
310	0	1	6	Electric Piano 2 KSP
311	0	32	6	Chorus Electric Piano 2
312	0	33	6	DX EP Hard
313	0	34	6	DX Legend
314	0	40	6	DX Phase EP
315	0	41	6	DX + Analog Electric Piano
316	0	42	6	DX Koto EP
317	0	45	6	Velocity Crossfade EI.P 2
318	0	0	7	Harpsichord
319	0	1	7	Harpsichord KSP
320	0	25	7	Harpsichord 2
321	0	27	8	Clavi.Wah
322	0	35	7	Harpsichord 3
323	0	64	8	Pulse Clavi.
324	0	0	8	Clavi
325	0	1	8	Clavi KSP
326	0	65	8	PierceClavi.
<b>XG CHROMATIC</b>				
327	0	0	9	Celesta
328	0	0	10	Glockenspiel
329	0	0	11	Music Box
330	0	64	11	Orgel
331	0	0	12	Vibraphone
332	0	1	12	Vibraphone KSP
333	0	45	12	Hard Vibes
334	0	0	13	Marimba
335	0	1	13	Marimba KSP
336	0	64	13	Sine Marimba
337	0	97	13	Balimba
338	0	98	13	Log Drums
339	0	0	14	Xylophone
340	0	0	15	Tubular Bells
341	0	96	15	Church Bells
342	0	35	16	Dulcimer 2
343	0	97	15	Carillon
<b>XG ORGAN</b>				
344	0	0	17	Drawbar Organ
345	0	32	17	Detuned Drawbar Organ
346	0	33	17	60's Drawbar Organ 1
347	0	34	17	60's Drawbar Organ 2
348	0	35	17	70's Drawbar Organ 1
349	0	36	17	Drawbar Organ 2
350	0	37	17	60's Drawbar Organ 3
351	0	38	17	Even Bar Organ
352	0	40	17	16+2'2/3
353	0	64	17	Organ Bass
354	0	65	17	70's Drawbar Organ 2
355	0	66	17	Cheezy Organ
356	0	67	17	Drawbar Organ 3
357	0	0	18	Percussive Organ
358	0	24	18	70's Percussive Organ
359	0	32	18	Detuned Percussive Organ
360	0	33	18	Light Organ
361	0	37	18	Percussive Organ 2
362	0	0	19	Rock Organ

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
363	0	64	19	Rotary Organ
364	0	65	19	Slow Rotary
365	0	66	19	Fast Rotary
366	0	0	20	Church Organ
367	0	32	20	Church Organ 3
368	0	35	20	Church Organ 2
369	0	40	20	Notre Dame
370	0	64	20	Organ Flute
371	0	65	20	Tremolo Organ Flute
372	0	0	21	Reed Organ
373	0	40	21	Puff Organ
374	0	0	22	Accordion
375	0	32	22	AccordIt
376	0	0	23	Harmonica
377	0	32	23	Harmonica 2
378	0	0	24	Tango Accordion
379	0	64	24	Tango Accordion 2
<b>XG GUITAR</b>				
380	0	0	25	Nylon Guitar
381	0	16	25	Nylon Guitar 2
382	0	25	25	Nylon Guitar 3
383	0	43	25	Velocity Guitar Harmonics
384	0	96	25	Ukulele
385	0	0	26	Steel Guitar
386	0	16	26	Steel Guitar 2
387	0	35	26	12-string Guitar
388	0	40	26	Nylon & Steel Guitar
389	0	41	26	Steel Guitar with Body Sound
390	0	96	26	Mandolin
391	0	0	27	Jazz Guitar
392	0	18	27	Mellow Guitar
393	0	32	27	Jazz Amp
394	0	0	28	Clean Guitar
395	0	32	28	Chorus Guitar
396	0	0	29	Muted Guitar
397	0	40	29	Funk Guitar 1
398	0	41	29	Muted Steel Guitar
399	0	43	29	Funk Guitar 2
400	0	45	29	Jazz Man
401	0	0	30	Overdriven Guitar
402	0	43	30	Guitar Pinch
403	0	0	31	Distortion Guitar
404	0	40	31	Feedback Guitar
405	0	41	31	Feedback Guitar 2
406	0	0	32	Guitar Harmonics
407	0	65	32	Guitar Feedback
408	0	66	32	Guitar Harmonics 2
<b>XG BASS</b>				
409	0	0	33	Acoustic Bass
410	0	40	33	Jazz Rhythm
411	0	45	33	Velocity Crossfade Upright Bass
412	0	0	34	Finger Bass
413	0	18	34	Finger Dark
414	0	27	34	Flange Bass
415	0	40	34	Bass & Distorted Electric Guitar
416	0	43	34	Finger Slap Bass
417	0	45	34	Finger Bass 2
418	0	65	34	Modulated Bass
419	0	0	35	Pick Bass
420	0	28	35	Muted Pick Bass
421	0	0	36	Fretless Bass
422	0	32	36	Fretless Bass 2
423	0	33	36	Fretless Bass 3
424	0	34	36	Fretless Bass 4
425	0	96	36	Syn.Fretless
426	0	97	36	SmthFretless
427	0	0	37	Slap Bass 1

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
428	0	27	37	ResonantSlap
429	0	32	37	Punch Thumb Bass
430	0	0	38	Slap Bass 2
431	0	43	38	Velocity Switch Slap
432	0	0	39	Synth Bass 1
433	0	18	39	Synth Bass 1 Dark
434	0	20	39	Fast Reso Bass
435	0	24	39	Acid Bass
436	0	35	39	Clavi Bass
437	0	40	39	Techno Synth Bass
438	0	64	39	Orbiter
439	0	65	39	Square Bass
440	0	66	39	Rubber Bass
441	0	96	39	Hammer
442	0	0	40	Synth Bass 2
443	0	6	40	Mellow Synth Bass
444	0	12	40	Sequenced Bass
445	0	18	40	Click Synth Bass
446	0	19	40	Synth Bass 2 Dark
447	0	32	40	Smooth Synth Bass
448	0	40	40	Modular Synth Bass
449	0	41	40	DX Bass
450	0	64	40	XWire Bass
<b>XG STRINGS</b>				
451	0	0	41	Violin
452	0	8	41	Slow Violin
453	0	0	42	Viola
454	0	0	43	Cello
455	0	0	44	Contrabass
456	0	0	45	Tremolo Strings
457	0	8	45	Slow Tremolo Strings
458	0	40	45	Suspense Strings
459	0	0	46	Pizzicato Strings
460	0	0	47	Orchestral Harp
461	0	0	48	Timpani
<b>XG ENSEMBLE</b>				
462	0	0	49	Strings 1
463	0	3	49	Stereo Strings
464	0	8	49	Slow Strings
465	0	24	49	Arco Strings
466	0	35	49	60's Strings
467	0	40	49	Orchestra
468	0	41	49	Orchestra 2
469	0	42	49	Tremolo Orchestra
470	0	45	49	Velocity Strings
471	0	0	50	Strings 2
472	0	3	50	Stereo Slow Strings
473	0	8	50	Legato Strings
474	0	40	50	Warm Strings
475	0	41	50	Kingdom
476	0	64	50	70's Strings
477	0	65	50	Strings 3
478	0	0	51	Synth Strings 1
479	0	27	51	ResoStrings
480	0	64	51	Synth Strings 4
481	0	65	51	Synth Strings 5
482	0	0	52	Synth Strings 2
483	0	0	53	Choir Aahs
484	0	3	53	Stereo Choir
485	0	32	53	Mellow Choir
486	0	16	53	Choir Aahs 2
487	0	40	53	Choir Strings
488	0	0	54	Voice Oohs
489	0	0	55	Synth Voice
490	0	40	55	Synth Voice 2
491	0	41	55	Choral
492	0	64	55	Analog Voice
493	0	0	56	Orchestra Hit
494	0	35	56	Orchestra Hit 2



Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
495	0	64	56	Impact
<b>XG BRASS</b>				
496	0	0	57	Trumpet
497	0	16	57	Trumpet 2
498	0	17	57	Brite Trumpet
499	0	32	57	Warm Trumpet
500	0	0	58	Trombone
501	0	18	58	Trombone 2
502	0	0	59	Tuba
503	0	16	59	Tuba 2
504	0	0	60	Muted Trumpet
505	0	0	61	French Horn
506	0	6	61	French Horn Solo
507	0	32	61	French Horn 2
508	0	37	61	Horn Orchestra
509	0	0	62	Brass Section
510	0	35	62	Trumpet & Trombone Section
511	0	40	62	Brass Section 2
512	0	41	62	High Brass
513	0	42	62	Mellow Brass
514	0	0	63	Synth Brass 1
515	0	12	63	Quack Brass
516	0	20	63	Resonant Synth Brass
517	0	24	63	Poly Brass
518	0	27	63	Synth Brass 3
519	0	32	63	Jump Brass
520	0	45	63	Ana Vel Brass 1
521	0	64	63	Analog Brass 1
522	0	0	64	Synth Brass 2
523	0	18	64	Soft Brass
524	0	40	64	Synth Brass 4
525	0	41	64	Choir Brass
526	0	45	64	Ana Vel Brass 2
527	0	64	64	Analog Brass 2
<b>XG REED</b>				
528	0	0	65	Soprano Sax
529	0	0	66	Alto Sax
530	0	40	66	Sax Section
531	0	43	66	Hyper Alto Sax
532	0	0	67	Tenor Sax
533	0	40	67	Breathy Tenor Sax
534	0	41	67	Soft Tenor Sax
535	0	64	67	Tenor Sax 2
536	0	0	68	Baritone Sax
537	0	0	69	Oboe
538	0	0	70	English Horn
539	0	0	71	Bassoon
540	0	0	72	Clarinet
<b>XG PIPE</b>				
541	0	0	73	Piccolo
542	0	0	74	Flute
543	0	0	75	Recorder
544	0	0	76	Pan Flute
545	0	0	77	Blown Bottle
546	0	0	78	Shakuhachi
547	0	0	79	Whistle
548	0	0	80	Ocarina
<b>XG SYNTH LEAD</b>				
549	0	0	81	Square Lead
550	0	6	81	Square Lead 2
551	0	8	81	LM Square
552	0	18	81	Hollow
553	0	19	81	Shroud
554	0	64	81	Mellow
555	0	65	81	Solo Sine
556	0	66	81	Sine Lead
557	0	0	82	Sawtooth Lead
558	0	6	82	Sawtooth Lead 2
559	0	8	82	Thick Sawtooth

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
560	0	18	82	Dynamic Sawtooth
561	0	19	82	Digital Sawtooth
562	0	20	82	Big Lead
563	0	24	82	Heavy Synth
564	0	25	82	Waspy Synth
565	0	40	82	Pulse Saw
566	0	41	82	Dr. Lead
567	0	45	82	Velocity Lead
568	0	96	82	Sequenced Analog
569	0	0	83	Calliope Lead
570	0	65	83	Pure Lead
571	0	0	84	Chiff Lead
572	0	64	84	Rubby
573	0	0	85	Charang Lead
574	0	64	85	Distorted Lead
575	0	65	85	Wire Lead
576	0	0	86	Voice Lead
577	0	24	86	Synth Aahs
578	0	64	86	Vox Lead
579	0	0	87	Fifths Lead
580	0	35	87	Big Five
581	0	0	88	Bass & Lead
582	0	16	88	Big & Low
583	0	64	88	Fat & Perky
584	0	65	88	Soft Whirl
<b>XG SYNTH PAD</b>				
585	0	0	89	New Age Pad
586	0	64	89	Fantasy
587	0	0	90	Warm Pad
588	0	16	90	Thick Pad
589	0	17	90	Soft Pad
590	0	18	90	Sine Pad
591	0	64	90	Horn Pad
592	0	65	90	Rotary Strings
593	0	0	91	Poly Synth Pad
594	0	64	91	Poly Pad 80
595	0	65	91	Click Pad
596	0	66	91	Analog Pad
597	0	67	91	Square Pad
598	0	0	92	Choir Pad
599	0	64	92	Heaven
600	0	66	92	Itopia
601	0	67	92	CC Pad
602	0	0	93	Bowed Pad
603	0	64	93	Glacier
604	0	65	93	Glass Pad
605	0	0	94	Metallic Pad
606	0	64	94	Tine Pad
607	0	65	94	Pan Pad
608	0	0	95	Halo Pad
609	0	0	96	Sweep Pad
610	0	20	96	Shwimmer
611	0	27	96	Converge
612	0	64	96	PolarPad
613	0	66	96	Celestial
<b>XG SYNTH EFFECTS</b>				
614	0	0	97	Rain
615	0	45	97	Clavi Pad
616	0	64	97	Harmo Rain
617	0	65	97	African Wind
618	0	66	97	Carib
619	0	0	98	Sound Track
620	0	27	98	Prologue
621	0	64	98	Ancestral
622	0	0	99	Crystal
623	0	12	99	Synth Drum Comp
624	0	14	99	Popcorn
625	0	18	99	Tiny Bells
626	0	35	99	Round Glockenspiel

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
627	0	40	99	Glockenspiel Chimes
628	0	41	99	Clear Bells
629	0	42	99	Chorus Bells
630	0	64	99	Synth Mallet
631	0	65	99	Soft Crystal
632	0	66	99	Loud Glocken
633	0	67	99	Christmas Bel
634	0	68	99	Vibe Bells
635	0	69	99	Digital Bells
636	0	70	99	Air Bells
637	0	71	99	Bell Harp
638	0	72	99	Gamelimba
639	0	0	100	Atmosphere
640	0	18	100	Warm Atmosphere
641	0	19	100	Hollow Release
642	0	40	100	Nylon Electric Piano
643	0	64	100	Nylon Harp
644	0	65	100	Harp Vox
645	0	66	100	Atmosphere Pad
646	0	67	100	Planet
647	0	0	101	Brightness
648	0	64	101	Fantasy Bells
649	0	96	101	Smokey
650	0	0	102	Goblins
651	0	64	102	Goblins Synth
652	0	65	102	Creeper
653	0	66	102	Ring Pad
654	0	67	102	Ritual
655	0	68	102	To Heaven
656	0	70	102	Night
657	0	71	102	Glisten
658	0	96	102	Bell Choir
659	0	0	103	Echoes
660	0	8	103	Echoes 2
661	0	14	103	Echo Pan
662	0	64	103	Echo Bells
663	0	65	103	Big Pan
664	0	66	103	Synth Piano
665	0	67	103	Creation
666	0	68	103	Star Dust
667	0	69	103	Reso&Panning
668	0	0	104	Sci-Fi
669	0	64	104	Starz
<b>XG WORLD</b>				
670	0	0	105	Sitar
671	0	35	105	Sitar 2
672	0	32	105	Detuned Sitar
673	0	97	105	Tamboura
674	0	0	112	Shanai
675	0	64	112	Shanai 2
676	0	96	112	Pungi
677	0	0	106	Banjo
678	0	28	106	Muted Banjo
679	0	0	109	Kalimba
680	0	0	110	Bagpipe
681	0	0	111	Fiddle
<b>XG PERCUSSIVE</b>				
682	0	0	113	Tinkle Bell
683	0	96	113	Bonang
684	0	97	113	Altair
685	0	98	113	Gamelan Gongs
686	0	99	113	Stereo Gamelan Gongs
687	0	100	113	Rama Cymbal
688	0	101	113	Asian Bells
689	0	0	114	Agogo
690	0	0	115	Steel Drums
691	0	97	115	Glass Percussion
692	0	98	115	Thai Bells
693	0	0	116	Woodblock

Voice No.	Bank Select		MIDI Program Change# (1-128)	Voice Name
	MSB (0-127)	LSB (0-127)		
694	0	96	116	Castanets
695	0	0	117	Taiko Drum
696	0	96	117	Gran Cassa
697	0	0	118	Melodic Tom
698	0	64	118	Melodic Tom 2
699	0	65	118	Real Tom
700	0	66	118	Rock Tom
701	0	0	119	Synth Drum
702	0	64	119	Analog Tom
703	0	65	119	Electronic Percussion
704	0	0	120	Reverse Cymbal
<b>XG SOUND EFFECTS</b>				
705	0	0	121	Fret Noise
706	0	0	122	Breath Noise
707	0	0	123	Seashore
708	0	0	124	Bird Tweet
709	0	0	125	Telephone Ring
710	0	0	126	Helicopter
711	0	0	127	Applause
712	0	0	128	Gunshot
713	64	0	1	Cutting Noise
714	64	0	2	Cutting Noise 2
715	64	0	4	String Slap
716	64	0	17	Flute Key Click
717	64	0	33	Shower
718	64	0	34	Thunder
719	64	0	35	Wind
720	64	0	36	Stream
721	64	0	37	Bubble
722	64	0	38	Feed
723	64	0	49	Dog
724	64	0	50	Horse
725	64	0	51	Bird Tweet 2
726	64	0	56	Maou
727	64	0	65	Phone Call
728	64	0	66	Door Squeak
729	64	0	67	Door Slam
730	64	0	68	Scratch Cut
731	64	0	69	Scratch Split
732	64	0	70	Wind Chime
733	64	0	71	Telephone Ring 2
734	64	0	81	Car Engine Ignition
735	64	0	82	Car Tires Squeal
736	64	0	83	Car Passing
737	64	0	84	Car Crash
738	64	0	85	Siren
739	64	0	86	Train
740	64	0	87	Jet Plane
741	64	0	88	Starship
742	64	0	89	Burst
743	64	0	90	Roller Coaster
744	64	0	91	Submarine
745	64	0	97	Laugh
746	64	0	98	Scream
747	64	0	99	Punch
748	64	0	100	Heartbeat
749	64	0	101	Footsteps
750	64	0	113	Machine Gun
751	64	0	114	Laser Gun
752	64	0	115	Explosion
753	64	0	116	Firework

**NOTE**

- Selecting a Voice number between 242 and 287 will turn on Arpeggio.
- Selecting a Voice number with an asterisk (\*) will turn on Dual.
- Selecting a Voice number with an asterisk (\*\*) will turn on Harmony.
- These Voice numbers cannot be selected via MIDI messages from a computer.

# Drum Kit List

- “ ” indicates that the drum sound is the same as “Standard Kit 1”.
- Each percussion voice uses one note.
- The MIDI Note is actually one or two octave(s) lower than keyboard Note (see Default Octave column). For example, in “222: Standard Kit 1”, the “Seq Click H” (Note C1) corresponds to (Note C0: Note# 24).
- Key Off: Keys marked “O” stop sounding the instant they are released.
- Voices with the same Alternate Note Number (\*1 ... 4) cannot be played simultaneously. (They are designed to be played alternately with each other.)
- Actual keyboard notes of 14 “Tabla” are one octave lower than the ones described in the list below. For example, the C4 sound in the following list is actually played from C3.

	Voice No.				14		15		16		17	
	MSB (0-127) / LSB (0-127) / PC (1-128)				0/116/117		126/0/116		126/0/117		126/0/40	
	Keyboard	MIDI	Keyboard	MIDI	Keyboard	MIDI	Keyboard	MIDI	Keyboard	MIDI	Keyboard	MIDI
	Note#	Note	Note#	Note	Tabla	Tabla Kit 1	Alternate Group	Tabla Kit 2	Alternate Group	Indian Kit 2	Alternate Group	
	25	C# 0	13	C# -1								
	26	D 0	14	D -1								
	27	D# 0	15	D# -1								
	28	E 0	16	E -1								
	29	F 0	17	F -1								
	30	F# 0	18	F# -1								
	31	G 0	19	G -1								
	32	G# 0	20	G# -1								
	33	A 0	21	A -1								
	34	A# 0	22	A# -1								
	35	B 0	23	B -1								
	36	C 1	24	C 0								
C1	C#1	37	C# 1	25	C# 0							
D1	D#1	38	D 1	26	D 0							
E1	E#1	39	D# 1	27	D# 0							
F1	F#1	40	E 1	28	E 0							
G1	G#1	41	F 1	29	F 0							
A1	A#1	42	F# 1	30	F# 0	Baya ke / ge (Velocity 1-47 / 48-127)						
B1	B#1	43	G 1	31	G 0							
C2	C#2	44	G# 1	32	G# 0							
D2	D#2	45	A 1	33	A 0							
E2	E#2	46	A# 1	34	A# 0							
F2	F#2	47	B 1	35	B 0							
G2	G#2	48	C 2	36	C 1							
A2	A#2	49	C# 2	37	C# 1							
B2	B#2	50	D 2	38	D 1							
C3	C#3	51	D# 2	39	D# 1							
D3	D#3	52	E 2	40	E 1							
E3	E#3	53	F 2	41	F 1							
F3	F#3	54	F# 2	42	F# 1							
G3	G#3	55	G 2	43	G 1							
A3	A#3	56	G# 2	44	G# 1							
B3	B#3	57	A 2	45	A 1							
C4	C#4	58	A# 2	46	A# 1							
D4	D#4	59	B 2	47	B 1							
E4	E#4	60	C 3	48	C 2							
F4	F#4	61	C# 3	49	C# 2							
G4	G#4	62	D 3	50	D 2							
A4	A#4	63	D# 3	51	D# 2							
B4	B#4	64	E 3	52	E 2							
C5	C#5	65	F 3	53	F 2	Baya ka / ghe (Velocity 1-47 / 48-127)						
D5	D#5	66	F# 3	54	F# 2							
E5	E#5	67	G 3	55	G 2							
F5	F#5	68	G# 3	56	G# 2							
G5	G#5	69	A 3	57	A 2							
A5	A#5	70	A# 3	58	A# 2							
B5	B#5	71	B 3	59	B 2							
C6	C#6	72	C 4	60	C 3							
		73	C# 4	61	C# 3							
		74	D 4	62	D 3							
		75	D# 4	63	D# 3							
		76	E 4	64	E 3							
		77	F 4	65	F 3	Tabla ne / na (Velocity 1-47 / 48-127)						
		78	F# 4	66	F# 3							
		79	G 4	67	G 3							
		80	G# 4	68	G# 3							
		81	A 4	69	A 3							
		82	A# 4	70	A# 3							
		83	B 4	71	B 3							
		84	C 5	72	C 4							
		85	C# 5	73	C# 4							
		86	D 5	74	D 4							
		87	D# 5	75	D# 4							
		88	E 5	76	E 4							
		89	F 5	77	F 4	Tabla ne / tin (Velocity 1-47 / 48-127)						
		90	F# 5	78	F# 4							
		91	G 5	79	G 4							
		92	G# 5	80	G# 4							
		93	A 5	81	A 4							
		94	A# 5	82	A# 4							
		95	B 5	83	B 4							
		96	C 6	84	C 5							
		97	C# 6	85	C# 5							
		98	D 6	86	D 5							
		99	D# 6	87	D# 5							
		100	E 6	88	E 5	Tabla ne / di (Velocity 1-47 / 48-127)						
		101	F 6	89	F 5							
		102	F# 6	90	F# 5							
		103	G 6	91	G 5							

# Drum Kit List

		Voice No.				18		19
		MSB (0-127) / LSB (0-127) / PC (1-128)		MIDI		126/0/115		126/0/112
		Note#	Note	Note#	Note	Indian Kit 1	Alternate Group	Animal Kit
		25	C# 0	13	C# -1			
		26	D 0	14	D -1			
		27	D# 0	15	D# -1	Hand Clap		
		28	E 0	16	E -1	Dafli Open		
		29	F 0	17	F -1	Dafli Slap	1	
		30	F# 0	18	F# -1	Dafli Rim	1	
		31	G 0	19	G -1	Duff Open		
		32	G# 0	20	G# -1	Duff Slap		
		33	A 0	21	A -1	Duff Rim		
		34	A# 0	22	A# -1	Hatheli Long	2	
		35	B 0	23	B -1	Hatheli Short	2	
		36	C 1	24	C 0	Baya ge	3	
		37	C# 1	25	C# 0	Baya ke	3	
		38	D 1	26	D 0	Baya ghe	3	
		39	D# 1	27	D# 0	Baya ka	3	
		40	E 1	28	E 0	Tabla na	4	
		41	F 1	29	F 0	Tabla tin	4	
		42	F# 1	30	F# 0	Tablabaya dha	3	
		43	G 1	31	G 0	Dhol 1 Open		
		44	G# 1	32	G# 0	Dhol 1 Slap	5	
		45	A 1	33	A 0	Dhol 1 Mute	5	
		46	A# 1	34	A# 0	Dhol 1 Open Slap	5	
		47	B 1	35	B 0	Dhol 1 Roll		
		48	C 2	36	C 1	Dandia Short	6	
		49	C# 2	37	C# 1	Dandia Long	6	
		50	D 2	38	D 1	Chutki		
		51	D# 2	39	D# 1	Chipri		
		52	E 2	40	E 1	Khanjira Open		
		53	F 2	41	F 1	Khanjira Slap		
		54	F# 2	42	F# 1	Khanjira Mute		
		55	G 2	43	G 1	Khanjira Bendup		
		56	G# 2	44	G# 1	Khanjira Benddown		
		57	A 2	45	A 1	Dholak 1 Open		
		58	A# 2	46	A# 1	Dholak 1 Mute	7	
		59	B 2	47	B 1	Dholak 1 Slap	7	
		60	C 3	48	C 2	Dhol 2 Open		Rooster
		61	C# 3	49	C# 2	Dhol 2 Slap	8	
		62	D 3	50	D 2	Dhol 2 Rim	8	Elephant
		63	D# 3	51	D# 2	Mrdangam na	9	
		64	E 3	52	E 2	Mrdangam din	9	Horse
		65	F 3	53	F 2	Mrdangam ki	9	Cricket
		66	F# 3	54	F# 2	Mrdangam ta	9	
		67	G 3	55	G 2	Mrdangam Chapu	9	Cow
		68	G# 3	56	G# 2	Mrdangam Lo Closed	10	
		69	A 3	57	A 2	Mrdangam Lo Open	10	Tiger
		70	A# 3	58	A# 2	Chimta Normal	11	
		71	B 3	59	B 2	Chimta Ring	11	Rattlesnake
		72	C 4	60	C 3	Dholki Hi Open	12	Monkeies
		73	C# 4	61	C# 3	Dholki Hi Mute	12	
		74	D 4	62	D 3	Dholki Lo Open	13	Crow
		75	D# 4	63	D# 3	Dholki Hi Slap	12	
		76	E 4	64	E 3	Dholki Lo Slide	13	
		77	F 4	65	F 3	Khul Open	14	
		78	F# 4	66	F# 3	Khul Slide		
		79	G 4	67	G 3	Khul Mute	14	
		80	G# 4	68	G# 3	Manjira Open	15	
		81	A 4	69	A 3	Manjira Close	15	
		82	A# 4	70	A# 3	Jhanji Open	16	
		83	B 4	71	B 3	Jhanji Close	16	
		84	C 5	72	C 4	Mondira Open	17	
		85	C# 5	73	C# 4	Mondira Close	17	
		86	D 5	74	D 4	Bhangra Scat 1		
		87	D# 5	75	D# 4	Bhangra Scat 2		
		88	E 5	76	E 4	Bhangra Scat 3		
		89	F 5	77	F 4	Bhangra Scat 4		
		90	F# 5	78	F# 4	Khomokh Normal		
		91	G 5	79	G 4	Khomokh Mute		
		92	G# 5	80	G# 4	Khomokh Miltak		
		93	A 5	81	A 4	Thavil Open		
		94	A# 5	82	A# 4	Thavil Slap		
		95	B 5	83	B 4	Thavil Mute		
		96	C 6	84	C 5	Khartaal		
		97	C# 6	85	C# 5	Dholak 2 Open	18	
		98	D 6	86	D 5	Dholak 2 Slide	18	
		99	D# 6	87	D# 5	Dholak 2 Rim 1		
		100	E 6	88	E 5	Dholak 2 Rim 2		
		101	F 6	89	F 5	Dholak 2 Ring		
		102	F# 6	90	F# 5	Dholak 2 Slap		
		103	G 6	91	G 5	Dholak 2 Body		

		Voice No.						221	222	223	224	225
		MSB (0-127) / LSB (0-127) / PC (1-128)						127/000/088	127/000/001	127/000/002	127/000/009	127/000/017
		Keyboard		MIDI		Key Off	Alternate Group	Power Kit	Standard Kit 1	Standard Kit 2	Room Kit	Rock Kit
		Note#	Note	Note#	Note							
		25	C# 0	13	C# -1		3		Surdo Mute			
		26	D 0	14	D -1		3		Surdo Open			
		27	D# 0	15	D# -1				Hi Q			
		28	E 0	16	E -1				Whip Slap			
		29	F 0	17	F -1		4		Scratch H			
		30	F# 0	18	F# -1		4		Scratch L			
		31	G 0	19	G -1				Finger Snap			
		32	G# 0	20	G# -1				Click Noise			
		33	A 0	21	A -1				Metronome Click			
		34	A# 0	22	A# -1				Metronome Bell			
		35	B 0	23	B -1				Seq Click L			
		36	C 1	24	C 0				Seq Click H			
		37	C# 1	25	C# 0				Brush Tap			
		38	D 1	26	D 0	O			Brush Swirl			
		39	D# 1	27	D# 0				Brush Slap			
		40	E 1	28	E 0	O			Brush Tap Swirl			
		41	F 1	29	F 0	O			Snare Roll			
		42	F# 1	30	F# 0				Castanet			
		43	G 1	31	G 0			Snare Soft Power 1	Snare Soft	Snare Soft 2		Snare Noisy
		44	G# 1	32	G# 0				Sticks			
		45	A 1	33	A 0			Kick Amb+	Kick Soft			
		46	A# 1	34	A# 0			Open Rim Power 1	Open Rim Shot	Open Rim Shot H Short		
		47	B 1	35	B 0			Kick Power Open	Kick Tight			Kick 2
		48	C 2	36	C 1			Kick Power Closed	Kick	Kick Short		Kick Gate
		49	C# 2	37	C# 1			Side Stick Power	Side Stick	Side Stick Light		
		50	D 2	38	D 1			Snare Power	Snare	Snare Short	Snare Snappy	Snare Rock
		51	D# 2	39	D# 1			Hand Clap Power	Hand Clap			
		52	E 2	40	E 1			Snare Rough	Snare Tight	Snare Tight H	Snare Tight Snappy	Snare Rock Tight
		53	F 2	41	F 1			Tom Power 1	Floor Tom L	Floor Tom 1	Tom Room 1	Tom Rock 1
		54	F# 2	42	F# 1	1		Hi-Hat Closed Power	Hi-Hat Closed			
		55	G 2	43	G 1			Tom Power 2	Floor Tom H	Tom Room 2	Tom Room 2	Tom Rock 2
		56	G# 2	44	G# 1	1		Hi-Hat Pedal Power	Hi-Hat Pedal			
		57	A 2	45	A 1			Tom Power 3	Low Tom	Tom Room 3	Tom Room 3	Tom Rock 3
		58	A# 2	46	A# 1	1		Hi-Hat Open Power	Hi-Hat Open			
		59	B 2	47	B 1			Tom Power 4	Mid Tom L	Tom Room 4	Tom Room 4	Tom Rock 4
		60	C 3	48	C 2			Tom Power 5	Mid Tom H	Tom Room 5	Tom Room 5	Tom Rock 5
		61	C# 3	49	C# 2			Crash Cymbal Acoustic 1	Crash Cymbal 1			
		62	D 3	50	D 2			Tom Power 6	High Tom	Tom Room 6	Tom Room 6	Tom Rock 6
		63	D# 3	51	D# 2			Ride Cymbal Acoustic 1	Ride Cymbal 1			
		64	E 3	52	E 2			Chinese Cymbal Acoustic	Chinese Cymbal			
		65	F 3	53	F 2			Ride Cymbal Acoustic	Ride Cymbal Cup			
		66	F# 3	54	F# 2				Tambourine			
		67	G 3	55	G 2			Splash Cymbal Acoustic	Splash Cymbal			
		68	G# 3	56	G# 2				Cowbell			
		69	A 3	57	A 2			Crash Cymbal Acoustic 2	Crash Cymbal 2			
		70	A# 3	58	A# 2				Vibraslap			
		71	B 3	59	B 2			Ride Cymbal Acoustic 2	Ride Cymbal 2			
		72	C 4	60	C 3				Bongo H			
		73	C# 4	61	C# 3				Bongo L			
		74	D 4	62	D 3				Conga H Mute			
		75	D# 4	63	D# 3				Conga H Open			
		76	E 4	64	E 3				Conga L			
		77	F 4	65	F 3				Timbale H			
		78	F# 4	66	F# 3				Timbale L			
		79	G 4	67	G 3				Agogo H			
		80	G# 4	68	G# 3				Agogo L			
		81	A 4	69	A 3				Cabasa			
		82	A# 4	70	A# 3				Maracas			
		83	B 4	71	B 3	O			Samba Whistle H			
		84	C 5	72	C 4	O			Samba Whistle L			
		85	C# 5	73	C# 4				Guiro Short			
		86	D 5	74	D 4	O			Guiro Long			
		87	D# 5	75	D# 4				Claves			
		88	E 5	76	E 4				Wood Block H			
		89	F 5	77	F 4				Wood Block L			
		90	F# 5	78	F# 4				Cuica Mute			
		91	G 5	79	G 4				Cuica Open			
		92	G# 5	80	G# 4	2			Triangle Mute			
		93	A 5	81	A 4	2			Triangle Open			
		94	A# 5	82	A# 4				Shaker			
		95	B 5	83	B 4				Jingle Bells			
		96	C 6	84	C 5				Bell Tree			
		97	C# 6	85	C# 5							
		98	D 6	86	D 5							
		99	D# 6	87	D# 5							
		100	E 6	88	E 5							
		101	F 6	89	F 5							
		102	F# 6	90	F# 5							
		103	G 6	91	G 5							

		Voice No.						222	226	227	228	229
		MSB (0-127) / LSB (0-127) / PC (1-128)						127/000/001	127/000/025	127/000/059	127/000/060	127/000/026
		Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Electronic Kit	T8 Kit	T9 Kit	Analog Kit
		Note#	Note	Note#	Note							
		25	C# 0	13	C# -1			3	Surdo Mute			
		26	D 0	14	D -1			3	Surdo Open			
		27	D# 0	15	D# -1				Hi Q			
		28	E 0	16	E -1				Whip Slap			
		29	F 0	17	F -1			4	Scratch H			
		30	F# 0	18	F# -1			4	Scratch L			
		31	G 0	19	G -1				Finger Snap	Snare Hammer	Snare Drum&Bass 1	
		32	G# 0	20	G# -1				Click Noise	Kick ZapHard	Kick Break 2	
		33	A 0	21	A -1				Metronome Click	Snare Garg L	Snare Distortion	
		34	A# 0	22	A# -1				Metronome Bell	Kick TekPower	Kick TekPower	
		35	B 0	23	B -1				Seq Click L	Kick Slimy	Kick Distortion RM	
		36	C 1	24	C 0				Seq Click H	Kick T8 1	Kick T9 2	
		37	C# 1	25	C# 0				Brush Tap	Snare Analog CR	Snare Analog CR	
		38	D 1	26	D 0		O		Brush Swirl	Snare T8 4	Snare T9 5	
		39	D# 1	27	D# 0				Brush Slap	Snare Clap Analog	Clap Analog Sm	
		40	E 1	28	E 0		O		Brush Tap Swirl	Snare T8 3	Snare T9 Gate	Reverse Cymbal
		41	F 1	29	F 0		O		Snare Roll	Tom T8 5	Snare Rock Roll	
		42	F# 1	30	F# 0				Castanet	Hi Q 2	Snare T8 5	Hi Q 2
		43	G 1	31	G 0				Snare Soft	Snare Snappy Electro	Kick T8 3	Snare T9 4
		44	G# 1	32	G# 0				Sticks	Snare T8 4	Snare T9 Gate	Snare Noisy 4
		45	A 1	33	A 0				Kick Soft	Kick 3	Kick T8 2	Kick T9 4
		46	A# 1	34	A# 0				Open Rim Shot	Snare T8 3	Snare T9 5	Kick 3
		47	B 1	35	B 0				Kick Tight	Kick Gate	T8 Kick Bass	Snare T9 1
		48	C 2	36	C 1				Kick	Kick Gate Heavy	Kick T8 1	Kick T9 3
		49	C# 2	37	C# 1				Side Stick	Snare T8 Rim	Snare T9 Rim	Side Stick Analog
		50	D 2	38	D 1				Snare	Snare Noisy 2	Snare T8 2	Snare T9 1
		51	D# 2	39	D# 1				Hand Clap		Clap T9	Snare Analog
		52	E 2	40	E 1				Snare Tight	Snare Noisy 3	Snare T8 1	Snare T9 2
		53	F 2	41	F 1				Floor Tom L	Tom Electro 1	Tom T8 1	Tom T9 1
		54	F# 2	42	F# 1		1		Hi-Hat Closed		Hi-Hat Closed T8 2	Hi-Hat Closed T9
		55	G 2	43	G 1				Floor Tom H	Tom Electro 2	Tom T8 2	Tom T9 2
		56	G# 2	44	G# 1		1		Hi-Hat Pedal		Hi-Hat Open T8 1	Hi-Hat Pedal T9
		57	A 2	45	A 1				Low Tom	Tom Electro 3	Tom T8 3	Tom T9 3
		58	A# 2	46	A# 1		1		Hi-Hat Open		Hi-Hat Open T8 1	Hi-Hat Open T9
		59	B 2	47	B 1				Mid Tom L	Tom Electro 4	Tom T8 4	Tom T9 4
		60	C 3	48	C 2				Mid Tom H	Tom Electro 5	Tom T8 6	Tom T9 5
		61	C# 3	49	C# 2				Crash Cymbal 1		Crash T8	Crash T9
		62	D 3	50	D 2				High Tom	Tom Electro 6	Tom T8 7	Tom T9 6
		63	D# 3	51	D# 2				Ride Cymbal 1		Ride T9	Ride T9
		64	E 3	52	E 2				Chinese Cymbal		Chinese Cymbal 2	Chinese Cymbal 2
		65	F 3	53	F 2				Ride Cymbal Cup		Ride Cymbal Cup 2	Ride Cymbal Cup 2
		66	F# 3	54	F# 2				Tambourine		Tambourine RX5	Tambourine RX5
		67	G 3	55	G 2				Splash Cymbal		Crash Cymbal 3	Crash Cymbal 3
		68	G# 3	56	G# 2				Cowbell		Cowbell T8	Cowbell 1
		69	A 3	57	A 2				Crash Cymbal 2		Crash Cymbal 4	Crash Cymbal 4
		70	A# 3	58	A# 2				Vibraslap		Cowbell T8	Cowbell T8
		71	B 3	59	B 2				Ride Cymbal 2		Ride Cymbal 3	Ride Cymbal 3
		72	C 4	60	C 3				Bongo H		Conga T8 5	Conga T8 5
		73	C# 4	61	C# 3				Bongo L		Conga T8 4	Conga T8 4
		74	D 4	62	D 3				Conga H Mute		Conga T8 3	Conga Tip
		75	D# 4	63	D# 3				Conga H Open		Conga T8 2	Conga Open Slap
		76	E 4	64	E 3				Conga L		Conga T8 1	Conga Open
		77	F 4	65	F 3				Timbale H			
		78	F# 4	66	F# 3				Timbale L			
		79	G 4	67	G 3				Agogo H		Glass H	Analog Click
		80	G# 4	68	G# 3				Agogo L		Glass L	Conga T8 1
		81	A 4	69	A 3				Cabasa			
		82	A# 4	70	A# 3				Maracas		Maracas T8	Maracas Slur
		83	B 4	71	B 3		O		Samba Whistle H		FxGun 2	FxGun 2
		84	C 5	72	C 4		O		Samba Whistle L		FxGun 1	FxGun 1
		85	C# 5	73	C# 4				Guero Short		Analog Shaker H	Scratch H 2
		86	D 5	74	D 4		O		Guero Long		Analog Shaker L	Scratch Down
		87	D# 5	75	D# 4				Claves		Clave T8	Hi Q 3
		88	E 5	76	E 4				Wood Block H		Hi Q 1	Claves 2
		89	F 5	77	F 4				Wood Block L		Hi Q 2	Hi Q 2
		90	F# 5	78	F# 4				Cuica Mute	Scratch H 2	Scratch L	Scratch L
		91	G 5	79	G 4				Cuica Open	Scratch L 2	Scratch L 2	Scratch L 2
		92	G# 5	80	G# 4		2		Triangle Mute			
		93	A 5	81	A 4		2		Triangle Open			
		94	A# 5	82	A# 4				Shaker		Analog Shaker	Analog Shaker
		95	B 5	83	B 4				Jingle Bells		Sleigh Bell	Sleigh Bell
		96	C 6	84	C 5				Bell Tree		Wind Chime	Wind Chime
		97	C# 6	85	C# 5						Snare Hip 1	Snare Piccolo
		98	D 6	86	D 5						Snare Hip 2	Snare T8 5
		99	D# 6	87	D# 5						Snare Hip Gate	Snare Rock Roll Distortion
		100	E 6	88	E 5						Snare Break 1	Snare Brush Mute
		101	F 6	89	F 5						Kick Blip	Kick Blip Hard
		102	F# 6	90	F# 5						Snare FX 1	Snare Jungle 1
		103	G 6	91	G 5						Kick FxHammer	Kick Sustain



# Drum Kit List

		Voice No.						222	236	237	238	
		MSB (0-127) / LSB (0-127) / PC (1-128)						127/000/001	126/000/021	126/000/022	126/000/125	
		Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Bass Drum Kit	Reverse Bass Drum Kit	China Kit 1	Alternate Group
		Note#	Note	Note#	Note							
		25	C# 0	13	C# -1		3	Surdo Mute	BD Electro	Reverse BD Electro		
		26	D 0	14	D -1		3	Surdo Open	BD FX Gate	Reverse BD FX Gate		
		27	D# 0	15	D# -1			Hi Q	BD Hammer	Reverse BD Hammer		
		28	E 0	16	E -1			Whip Slap	BD Analog Power	Reverse BD Analog Power		
		29	F 0	17	F -1		4	Scratch H	BD Analog Distortion 5			
		30	F# 0	18	F# -1		4	Scratch L	BD Analog Distortion 6	Reverse BD Analog Distortion 6		
		31	G 0	19	G -1			Finger Snap	BD Analog Distortion 4			
		32	G# 0	20	G# -1			Click Noise	BD Analog Distortion 3	Reverse BD Analog Distortion 3		
		33	A 0	21	A -1			Metronome Click	BD Analog Distortion 2	Reverse BD Analog Distortion 2		
		34	A# 0	22	A# -1			Metronome Bell	BD Analog Tight	Reverse BD Analog Tight		
		35	B 0	23	B -1			Seq Click L	BD Analog 94	Reverse BD Analog 94	Da Cha	
		36	C 1	24	C 0			Seq Click H	BD Analog Blip 2	Reverse BD Analog Blip 2	Da Gu mp	2
		37	C# 1	25	C# 0			Brush Tap	BD Analog Rubber 2	Reverse BD Analog Rubber 2	Da Gu rim	
		38	D 1	26	D 0	O		Brush Swirl	BD Analog 93	Reverse BD Analog 93	Da Gu f	2
		39	D# 1	27	D# 0	O		Brush Slap	BD Analog 90	Reverse BD Analog 90	Da Gu hand	2
		40	E 1	28	E 0	O		Brush Tap Swirl	BD Analog 83	Reverse BD Analog 83	Da Gu roll	2
		41	F 1	29	F 0	O		Snare Roll	BD Analog 82	Reverse BD Analog 82	Pat Gu 4	
		42	F# 1	30	F# 0			Castanet	BD Analog 92		Pat Gu 4 High	
		43	G 1	31	G 0			Snare Soft	BD Analog 91	Reverse BD Analog 91	Pat Gu 3	
		44	G# 1	32	G# 0			Sticks	BD Analog Deep	Reverse BD Analog Deep	Pat Gu 3 High	
		45	A 1	33	A 0			Kick Soft	BD Analog Hard 2		Pat Gu 2	
		46	A# 1	34	A# 0			Open Rim Shot	BD Analog Blip 1	Reverse BD Analog Hard 1	Pat Gu 2 High	
		47	B 1	35	B 0			Kick Tight	BD Analog Blip 1	Reverse BD Analog Blip 1	Pat Gu 1	
		48	C 2	36	C 1			Kick	BD Analog Rubber 1	Reverse BD Analog Rubber 1	Luo High 1	
		49	C# 2	37	C# 1			Side Stick	BD Analog Loose	Reverse BD Analog Loose	Gong batter	
		50	D 2	38	D 1			Snare	BD Synth 1	Reverse BD Synth 1	Jin Luo	
		51	D# 2	39	D# 1			Hand Clap	BD Synth 2	Reverse BD Synth 2	Luo High 2	
		52	E 2	40	E 1			Snare Tight	BD Analog Distortion 1	Reverse BD Analog Distortion 1	Luo Mid-Low	
		53	F 2	41	F 1			Floor Tom L	Ripper	Reverse Ripper	Luo	
		54	F# 2	42	F# 1		1	Hi-Hat Closed	BD Analog 70 L		Jin Luo Low	5
		55	G 2	43	G 1			Floor Tom H	BD Analog 70	Reverse BD Analog 70	Da Cha	5
		56	G# 2	44	G# 1		1	Hi-Hat Pedal	BD Analog 80	Reverse BD Analog 81	Da Cha effect	5
		57	A 2	45	A 1			Low Tom	BD Analog 80 Long		Zhong Cha	
		58	A# 2	46	A# 1		1	Hi-Hat Open	BD Dry	Reverse BD Dry	Xiao Cha effect	1
		59	B 2	47	B 1			Mid Tom L	BD Dry Hard		Xiao Cha	1
		60	C 3	48	C 2			Mid Tom H	BD Room 1		Mang Luo Low	
		61	C# 3	49	C# 2			Crash Cymbal 1	BD Soft	Reverse BD Soft	Mang Luo Mid	
		62	D 3	50	D 2			High Tom	BD Room 2	Reverse BD Room 2	Qing	
		63	D# 3	51	D# 2			Ride Cymbal 1	BD Break Lo-fi 2	Reverse BD Break Lo-fi 2	Finger Bell	
		64	E 3	52	E 2			Chinese Cymbal	BD Break Lo-fi 1	Reverse BD Break Lo-fi 1	Luo big	
		65	F 3	53	F 2			Ride Cymbal Cup	BD & Hi-Hat Open	Reverse BD & Hi-Hat Open	Mu Yu Low	
		66	F# 3	54	F# 2			Tambourine	BD Jungle 2		Mu Yu Mid-Low	
		67	G 3	55	G 2			Splash Cymbal	BD Jungle 1		Mu Yu Mid	
		68	G# 3	56	G# 2			Cowbell	BD Jungle 3	Reverse BD Jungle 3	Mu Yu High	
		69	A 3	57	A 2			Crash Cymbal 2	BD D&B 1	Reverse BD D&B 1	Nan Bang Zi roll	3
		70	A# 3	58	A# 2			Vibraslap	BD D&B 2	Reverse BD D&B 2	Nan Bang Zi	3
		71	B 3	59	B 2			Ride Cymbal 2	BD RX5 1	Reverse BD RX5 1	Ban Gu	4
		72	C 4	60	C 3			Bongo H	BD RX5 2	Reverse BD RX5 2	Ban	4
		73	C# 4	61	C# 3			Bongo L	BD Room 3	Reverse BD Room 3	Ban Gu roll	4
		74	D 4	62	D 3			Conga H Mute	BD Power Gate	Reverse BD Power Gate	Chinese Opera Voice 1	
		75	D# 4	63	D# 3			Conga H Open	BD R&B 1	Reverse BD R&B 1	Chinese Opera Voice 2	
		76	E 4	64	E 3			Conga L	BD R&B 2	Reverse BD R&B 2	Chinese Opera Voice 3	
		77	F 4	65	F 3			Timbale H	BD Lo-fi	Reverse BD Lo-fi	Yun Luo F4	
		78	F# 4	66	F# 3			Timbale L	BD Hip Deep		Yun Luo F#4	
		79	G 4	67	G 3			Agogo H	BD Break Deep	Reverse BD Break Deep	Yun Luo G4	
		80	G# 4	68	G# 3			Agogo L	BD Break Heavy	Reverse BD Break Heavy	Yun Luo G#4	
		81	A 4	69	A 3			Cabasa	BD Break Hard	Reverse BD Break Hard	Yun Luo A4	
		82	A# 4	70	A# 3			Maracas	Big Drum	Reverse Big Drum	Yun Luo A#4	
		83	B 4	71	B 3	O		Samba Whistle H	Taiko Drum	Reverse Taiko Drum	Yun Luo B4	
		84	C 5	72	C 4	O		Samba Whistle L	Surdo Open	Reverse Surdo Open	Yun Luo C5	
		85	C# 5	73	C# 4			Guiro Short	Feet 2	Reverse Feet 2	Yun Luo C#5	
		86	D 5	74	D 4	O		Guiro Long	BD Industrial	Reverse Tom Industrial	Yun Luo D5	
		87	D# 5	75	D# 4			Claves	Door Slam	Reverse Door Slam	Yun Luo D#5	
		88	E 5	76	E 4			Wood Block H	Punch	Reverse Punch	Yun Luo E5	
		89	F 5	77	F 4			Wood Block L	Heart		Yun Luo F5	
		90	F# 5	78	F# 4			Cuica Mute	Feet 1	Reverse Feet 1	Yun Luo F#5	
		91	G 5	79	G 4			Cuica Open	BD Human	Reverse BD Human	Yun Luo G5	
		92	G# 5	80	G# 4		2	Triangle Mute	BD Human Deep	Reverse BD Human Deep	Yun Luo G#5	
		93	A 5	81	A 4		2	Triangle Open	Vox Buhl	Reverse Vox Buhl	Yun Luo A5	
		94	A# 5	82	A# 4			Shaker	Vox Muhl	Reverse Vox Muhl	Yun Luo A#5	
		95	B 5	83	B 4			Jingle Bells			Yun Luo B5	
		96	C 6	84	C 5			Bell Tree			Yun Luo C6	
		97	C# 6	85	C# 5							
		98	D 6	86	D 5							
		99	D# 6	87	D# 5							
		100	E 6	88	E 5							
		101	F 6	89	F 5							
		102	F# 6	90	F# 5							
		103	G 6	91	G 5							





# Style List

Style No.	Style Name
<b>INDIAN</b>	
1	Bhajan
2	Bolly 1
3	Bolly 2
4	Bolly 3
5	Bolly 4
6	Indy Pop
7	Hind Bld
8	IndyWlz1
9	IndyWlz2
10	Bhangra1
11	Bhangra2
12	Boliyan
13	BaleBale
14	IndyDnc1
15	IndyDnc2
16	Tamil
17	Kerala
18	Goa Grv
19	Goan Pop
20	Rajsthan
21	Dandiya
22	MdrnQwal
23	Qawwali
<b>8BEAT</b>	
24	BritRock
25	8BtModrn
26	Cool 8Bt
27	60sGtPop
28	8BtAdria
29	60s8Beat
30	BblgumPp
31	BritPpSw
32	8Beat
33	Off Beat
34	60s Rock
35	HardRock
36	RockShfl
37	8Bt Rock
<b>16BEAT</b>	
38	16Beat
39	PopShf 1
40	PopShf 2
41	Gtr Pop
42	16Bt Up
43	KoolShfl
44	JazzRock
45	HH Light
<b>BALLAD</b>	
46	Glam Pno
47	Gtr Bld
48	PianoBld
49	LoveSong
50	68Modern
51	68SlowRk
52	68OrcBld
53	OrganBld
54	Pop Bld
55	16Bld 1
56	16Bld 2
<b>DANCE</b>	
57	AgagBeat
58	CoastDnc
59	ClubBeat

Style No.	Style Name
60	Electron
61	FunkyHse
62	ChartR&B
63	MellowHH
64	Soul R&B
65	Soul Bld
66	Chillout
67	EuTrance
68	Ibiza
69	DreamDnc
70	NewHipHp
71	Pop R&B
72	TrancPop
73	ChartPop
74	HouseMsk
75	Swing H
76	TcnPolis
77	Clubdanc
78	Club Ltn
79	Garage 1
80	Garage 2
81	TcnParty
82	UK Pop
83	HHGroove
84	Hip Shfl
85	HipHopPp
<b>DISCO</b>	
86	ModDisco
87	70sDsc 1
88	70sDsc 2
89	LatinDsc
90	DscPhily
91	SatNight
92	DscChoco
93	DscHands
<b>SWING&amp;JAZZ</b>	
94	BB Fast
95	BBMedium
96	BBBallad
97	BB Shfl
98	AcousJaz
99	AcidJazz
100	JazzClub
101	Swing 1
102	Swing 2
103	OrchSwng
104	FiveFour
105	Jazz Bld
106	Dixie
107	Ragtime
108	AfroCubn
109	Charlstrn
<b>R&amp;B</b>	
110	Blues Rk
111	Soul
112	DetPop 1
113	60s R&R
114	6/8 Soul
115	ModrnR&B
116	CroTwist
117	Rck&Roll
118	DetPop 2
119	Boogie 1
120	Boogie 2

Style No.	Style Name
121	6/8Blues
<b>COUNTRY</b>	
122	Cntry8Bt
123	CntryPop
124	CntrySwg
125	CntryBld
126	Cntry2/4
127	CowboyBg
128	CntryShf
129	Blgrass
<b>LATIN</b>	
130	BrzSamba
131	Bossa
132	PopBossa
133	Forro
134	Srtanejo
135	Tijuana
136	Joropo
137	Parranda
138	Regaeton
139	DscLatin
140	Mambo
141	Salsa
142	Beguine
143	GtrRumba
144	Flamenco
145	RmbIslnd
146	Reggae
<b>BALLROOM</b>	
147	VienWltz
148	EngWaltz
149	Slowfox
150	Foxtrot
151	Quickstp
152	Tango
153	Pasodobl
154	Samba
155	ChaCha
156	Rumba
157	Jive
<b>TRAD &amp; WORLD</b>	
158	US March
159	6/8March
160	GerMarch
161	PolkaPop
162	OberPlka
163	Trntella
164	Showtune
165	Xmas Swg
166	XmasWltz
167	Reel
168	Hawaiian
169	Durgens
170	CGrupera
171	Saeidy
172	WehdaSag
173	Laff
174	IranElec
175	Emarati
176	Luo Gu
177	Jing Ju
178	Dangdut
179	Kroncong

# Tabla/Tanpura Pattern List

Style No.	Style Name
<b>WALTZ</b>	
180	ItalyWlz
181	MriacWlz
182	Serenade
183	SwingWlz
184	Jz Wlz 1
185	Jz Wlz 2
186	CntryWlz
187	OberWltz
188	Musette
<b>CHILDREN</b>	
189	Learn2/4
190	Learn4/4
191	Learn6/8
192	Fun 3/4
193	Fun 4/4
<b>PIANIST</b>	
194	Stride
195	PnoBlis 1
196	PnoBlis 2
197	Pno Rag
198	Pno R&R
199	PnoBoogi
200	PnoJzWlz
201	PnoJzBld
202	Arpeggio
203	Musical
204	SlowRock
205	8Pno Bld
206	PnoSwing

Pattern No.	Pattern Name
1	TeenTaal
2	Rupak
3	JhapTaal
4	EkTaal
5	ChauTaal
6	Chachar
7	Dadra
8	Keherwa
9	Garba
10	Bhajan
11	Punjabi
12	Tishram
13	Chtushrm
14	Khandam
15	Mishram
16	Sankernm

# Song List

Song No.	Song Name	Composer
<b>Main Demo</b>		
1	India	Original
2	GlobePop	Original
3	Chillin	Original
<b>Voice Demo</b>		
4	Grand Piano Demo	Original
5	Sweet! Tenor Sax Demo	Original
6	Cool! Rotor Organ Demo	Original
7	Cool! Galaxy Electric Piano Demo	Original
8	Modern Harp & Sweet! Soprano Demo	Original
9	Power Kit Drum Demo	Original
10	Dance Kit Drum Demo	Original
11	Afro Cuban Kit Percussion Demo	Original
<b>Piano Solo</b>		
12	Maple Leaf Rag	S. Joplin
13	Jeanie with the Light Brown Hair	S. C. Foster
14	The Last Rose of Summer	Traditional
15	For Elise	L. v. Beethoven
16	Valse op.64-1 "Petit Chien"	F. Chopin
17	Turkish March	W.A. Mozart
18	Menuett/Beethoven	L. v. Beethoven
19	Andante grazioso (Sonate K.331)	W. A. Mozart
20	24 Preludes op.28-7	F. Chopin
21	Melodie (Album für die Jugend)	R. Schumann
22	Fröhlicher Landmann (Album für die Jugend)	R. Schumann
23	Von fremden Ländern und Menschen (Kinderszenen)	R. Schumann
24	Träumerei (Kinderszenen)	R. Schumann
25	Thema (Impromptus D.935-3)	F. Schubert
26	Menuett BWV. Anh.116	J. S. Bach
27	Invention Nr.1	J. S. Bach
28	Gavotte/J. S. Bach	J. S. Bach
29	Arietta/Grieg	E. Grieg
30	To a Wild Rose	E. A. MacDowell
31	Tango/Albeniz	I. Albéniz
32	La Fille aux Cheveux de Lin	C. A. Debussy
33	La Chevaleresque	J. F. Burgmüller
34	Arabesque	J. F. Burgmüller
35	Pastorale	J. F. Burgmüller
36	Annie Laurie	Traditional
37	The Entertainer	S. Joplin
<b>Piano Ensemble</b>		
38	Amazing Grace	Traditional
39	Die Lorelei	F. Silcher
40	Piano Concerto No.21 2nd mov.	W. A. Mozart
41	Scarborough Fair	Traditional
42	Old Folks at Home	S. C. Foster
43	Londonderry Air	Traditional
44	Home Sweet Home	H. R. Bishop
45	Jesus bleibt meine Freude	J. S. Bach
46	Loch Lomond	Traditional
47	Twinkle Twinkle Little Star	Traditional
48	Three Blind Mice	Traditional
49	Believe Me If All Those Endearing Young Charms	Traditional
50	Nocturne op.9-2	F. Chopin
51	Étude op.10-3 "Chanson de L'adieu"	F. Chopin
52	Ave Maria/J. S. Bach - Gounod	J. S. Bach / C. F. Gounod
53	Menuett BWV. Anh.114	J. S. Bach
54	Wenn ich ein Vöglein wär	Traditional
55	Der Vogelfänger bin ich ja	W. A. Mozart
56	Romanze (Serenade K.525)	W. A. Mozart
57	Ave Verum Corpus	W. A. Mozart
58	Liebesträume Nr.3	F. Liszt
59	Chanson du Toreador	G. Bizet

Song No.	Song Name	Composer
60	Frühlingslied	F. Mendelssohn
61	Ode to Joy	L. v. Beethoven
62	O Christmas Tree	Traditional
63	Deck the Halls	Traditional
64	Silent Night	F. Gruber
<b>Piano Accompaniment</b>		
65	Ep Ballad	Original
66	Boogie Woogie	Original
67	Rock Piano	Original
68	Salsa	Original
69	Country Piano	Original
70	Gospel R&B	Original
71	Medium Swing	Original
72	Jazz Waltz	Original
73	Medium Bossa	Original
74	Slow Rock	Original
<b>Classical Melodies</b>		
75	Waltz (The Sleeping Beauty)	P. I. Tchaikovsky
76	Air (Orchestral Suite)	J. S. Bach
77	Minuetto/Boccherini	L. Boccherini
78	Siciliano/J. S. Bach	J. S. Bach
79	Menuet (L'Arlesienne)	G. Bizet
80	Slavonic Dances op.72-2	A. Dvořák
81	Largo (From the New World)	A. Dvořák
82	Pizzicato Polka	J. Strauss II
83	Romanze/Beethoven	L. v. Beethoven
84	Swan Lake	P. I. Tchaikovsky
85	Sicilienne/Fauré	G. Fauré
86	Méditation (Thaïs)	J. Massenet
87	Serenade/Haydn	F. J. Haydn
88	Grand March (Aida)	G. Verdi
89	Danza dell'Ore (La Gioconda)	A. Ponchielli
90	Le Cygne (Le Carnaval des Animaux)	C. Saint-Saëns
91	L'éléphant (Le Carnaval des Animaux)	C. Saint-Saëns
92	Fossiles (Le Carnaval des Animaux)	C. Saint-Saëns
93	Wachet auf, ruft uns die Stimme BWV. 645	J. S. Bach
<b>Traditional Melodies</b>		
94	Greensleeves	Traditional
95	Beautiful Dreamer	S. C. Foster
96	Ring de Banjo	S. C. Foster
97	O du lieber Augustin	Traditional
98	London Bridge	Traditional
99	Aura Lee	Traditional
100	Aloha Oe	Q. Liliuokalani
<b>Raga Scale</b>		
101	Bilawal	–
102	Khamaaj	–
103	Bhairav	–
104	Kalyan	–
105	Asavari	–
106	Kalyani	–
107	Hamsadhvani	–
108	Mohanam	–
109	Hindolam	–
110	Sankarabharanam	–

# Arpeggio List

Arpeggio No.	Arpeggio Name
1	UpOct
2	DownOct
3	UpDwnOct
4	SynArp1
5	SynArp2
6	SynArp3
7	SynArp4
8	SyncEcho
9	PulsLine
10	StepLine
11	Random
12	Down&Up
13	SuperArp
14	AcidLine
15	TekEcho
16	VelGruv
17	Planet
18	Trance1
19	Trance2
20	Trance3
21	ChordAlt
22	SynChrd1
23	SynChrd2
24	Syncopa
25	Hybrid1
26	Hybrid2
27	Hybrid3
28	Hybrid4
29	Hybrid5
30	PfArp1
31	PfArp2
32	PfArp3
33	PfArp4
34	PfClub1
35	PfClub2
36	PfBallad
37	PfChd8th
38	EPArp
39	PfShuffle
40	PfRock
41	Clavi1
42	Clavi2
43	RocknPf
44	70RockPf
45	SlowfIPf
46	SoulPf
47	ChordUp
48	ChdDance
49	LatinRck
50	Salsa1
51	Salsa2
52	Reggae1
53	Reggae2
54	Reggae3
55	6/8R&B
56	Gospel
57	BalladEP
58	Strum1
59	Strum2
60	Strum3
61	Strum4
62	Pickin1
63	Pickin2
64	Funky
65	GtrChrd1

Arpeggio No.	Arpeggio Name
66	GtrChrd2
67	GtrChrd3
68	GtrArp
69	FngrPck1
70	FngrPck2
71	CleanGtr
72	Slowfl
73	Samba1
74	Samba2
75	Spanish1
76	Spanish2
77	Harp1
78	Harp2
79	FngrBas1
80	FngrBas2
81	FngrBas3
82	CoolFunk
83	SlapBass
84	AcidBas1
85	AcidBas2
86	FunkyBas
87	CmbJazB1
88	CmbJazB2
89	CmbJazB3
90	NewR&BBs
91	HipHopBs
92	SmoothBs
93	DreamBas
94	TranceBs
95	LatinBas
96	Strings1
97	Strings2
98	Strings3
99	Strings4
100	StrngDwn
101	StrngUp
102	OrcheStr
103	Jupiter
104	Pizz1
105	Pizz2
106	BrasSec1
107	BrasSec2
108	BrasSec3
109	FunkBras
110	SoulReed
111	DiscoLd
112	SmoothPd
113	PercArp
114	Trill
115	Cresendo
116	DiscoCP
117	Perc1
118	Perc2
119	R&B
120	Funk1
121	Funk2
122	Funk3
123	Soul
124	ClscHip
125	Smooth
126	NewGospl
127	CmbJazz1
128	CmbJazz2
129	Bebop
130	JazzHop

Arpeggio No.	Arpeggio Name
131	FolkRock
132	Unplugge
133	HipHop
134	Trance
135	Dream
136	2 Step
137	ClubHs1
138	ClubHs2
139	EuroTek
140	House
141	Ibiza1
142	Ibiza2
143	Ibiza3
144	Garage
145	Samba
146	African
147	Latin
148	China
149	Indian
150	Arabic
151	TeenTalC
152	TeenTalD
153	TeenTalE
154	TeenTalF
155	TeenTalG
156	TeenTalA
157	Dadra C
158	Dadra D
159	Dadra E
160	Dadra F
161	Dadra G
162	Dadra A

# Music Database List

MDB No.	MDB Name
<b>ALL TIME HITS</b>	
1	Jude Hey
2	New UK
3	MyLoving
4	All OK
5	Buttercp
6	JustCall
7	CheepChp
8	Daddy's
9	Dance?
10	GetBack
11	GtrWheel
12	HighTide
13	IWasBorn
14	Sailing
15	BluJeans
16	Holiday
17	Imagine
18	LoveMe
19	LetItBld
20	LdyMdon
21	YelowSub
22	Marriage
23	MovinOut
24	My Shell
25	NowNever
26	DoLoveMe
27	TcktRide
28	SeeClear
29	Masachus
30	Hard Day
31	USA Pie
32	Norway
33	YesterBd
<b>MODERN POP</b>	
34	Watches
35	SoundMPH
36	Hold Us
37	Unfound
38	NeedSome
39	PrtTmLvr
40	MoonShdw
41	NikitSng
42	Sure of
43	Off Day
44	Tell Her
45	GirlsMne
46	NeedLove
47	Radio
<b>POP CLASSICS</b>	
48	Standing
49	RainLaff
50	Sunshine
51	ForNamdo
52	ThankFor
53	ManPiano
54	CoinLane
55	LovesYou
56	Tmbourin
57	Alone
58	GldField
59	Raindrop
60	SultanSw
61	Life'sWk
62	TopWorld

MDB No.	MDB Name
63	WatchGrI
<b>POP BALLAD</b>	
64	WnderLnd
65	CanIStop
66	EvryTime
67	IvoryAnd
68	TheWorld
69	LovWoman
70	Dolannes
71	Madigan
72	Paradise
73	Whisper
<b>BALLAD</b>	
74	AllOdds
75	AtonalFI
76	Hero
77	Woman
78	RunToYou
79	LoveOfAI
80	CndleWnd
81	Cavatina
82	Cherish
83	ToLoveMe
84	YouKnow
85	Evrythng
86	EyesOfBI
87	Hello
88	BeThere
89	FlyAway
90	LoveYou
91	NeverLet
92	JustOnce
93	IfYouGo
94	SavingAI
95	InTheDrk
96	LovePwr
97	Vision
98	Beautifl
99	AllAlone
100	Opposite
101	BeHonest
102	SayYou
103	SayNthng
104	Stranger
105	OneDay
106	TheBayou
107	ThisSong
108	Distance
109	ThisWay
110	LoveGone
111	Inspirng
112	TrueColr
<b>ROCK &amp; ROLL</b>	
113	ShakenUp
114	Beethovn
115	HurryLov
116	BeCruel
117	Jumping
118	Countdwn
119	SuePeggy
120	Champion
121	Jailhous
122	BlueShoe
123	Rockin24
124	Shouting






















MDB No.	MDB Name
125	Rock&Rll
126	HonkyTnk
<b>OLDIES</b>	
127	Daydream
128	Sumertme
129	Diana's
130	Uptown
131	Apache
132	IGotIt
133	Tonight
134	MyPillow
135	NoRain
136	FinalDan
137	SlpnLion
138	Ghetto
139	LipsLcky
140	PrettyWm
141	TikiGr
142	TurnThre
143	Sherry
<b>DANCE &amp; DISCO</b>	
144	Babylon
145	Goodbye
146	Catch22
147	DISCO
148	Survival
149	TheNavy
150	DontHide
151	Celebrat
152	LondonRU
153	10,2 Sun
154	ShakeYou
155	Believe
156	BoySumer
157	I'mSexy
158	StuffHot
<b>SWING &amp; JAZZ</b>	
159	MoonOf
160	Patrol
161	Charles
162	GiveLove
163	HallOfMe
164	Rhythm
165	LOVE
166	LeroyBad
167	Caraban
168	Misbehav
169	Safari
170	Smiling
171	SoWhatIs
172	TimeGone
173	TasteHny
174	Sandman
175	Tunisian
176	TwoFoot
177	MyBaby
<b>R&amp;B</b>	
178	Sally's
179	AsPlayed
180	BabyGro
181	Highwy66
182	SweetCHI
183	JustU&Me
184	ManLoves
185	OurLove

MDB No.	MDB Name
186	Wish I
187	What
<b>COUNTRY</b>	
188	OnTheRd
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191	ContryHw
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194	Lonesome
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199	DanceMng
200	DntWorry
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202	FleaSpa
203	I'mPola
204	MamboJm
205	OneNote
206	PasoCani
207	SayNoMor
208	Beguine
209	Tijuana
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212	Barnacle
213	Califrag
214	DadClock
215	DanceLd
216	DnceFire
217	BigCntry
218	Cabaret
219	OdeToJoy
220	Mi-Re-Do
221	MyPrince
222	Necesary
223	NoBuiz
224	NoisyOld
225	Sleigh
226	RockBaby
227	Magnifiq
228	Magnfcnt
229	SilentNt
230	Nabucco
231	Standing
232	SummerPl
233	Christms
234	Favorite
235	Tubbie
236	Turkish
237	12OClock
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239	CanCan
240	Charmain
241	Musicbox
242	Clementn
243	Doodah!
244	Dreamer
245	EnterRag
246	Birthday

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248	Donald's
249	MoonWlz
250	MoulinHt
251	Sunshine
252	PieceOf
253	GreenSlv
254	TakeFour
255	TexRose
256	ThePolka
257	Scarboro
258	Edelweis
259	AroundWd
260	Whatever
261	Yankee's
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263	D'amor
264	EiCondor
265	GoodbyRm
266	ILandOn
267	ItalyBel
268	Cucarumb
269	Puntuali
270	Cielito
271	ItalySun
272	SantaLuc
273	Trumpetr
274	VanMass
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275	ItalySun
276	BeGood
277	Birdland
278	BlueRose
279	Chaie's
280	Highwy66
281	Leaves
282	Miload
283	Cabaret
284	Wonderfl
285	Imagine
286	LtleStar
287	MapleRag
288	Mi-Re-Do
289	NoBuiz
290	OhBlah
291	Charades
292	Sally's
293	Nabucco
294	SunnyStr
295	MistyFln
296	LdnBridg
297	GrndClick
298	Importnc
299	Snowman
300	Favorite
301	SongForU
302	SugerSpn
303	ThisWay
304	WenSmile
305	ZipperD

# Effect Type List

## Harmony Types

No.	Harmony Type	Description	
01	Duet	Harmony types 01–05 are pitch-based and add one-, two- or three-note harmonies to the single-note melody played in the right hand. These types sound when chords are played in the auto accompaniment range of the keyboard. These Harmony types will also work when playing songs that contain chord data.	
02	Trio		
03	Block		
04	Country		
05	Octave		
06	Trill 1/4 note		<p>Types 6–26 are rhythm-based effects and add embellishments or delayed repeats in time with the auto accompaniment. These types sound whether the auto accompaniment is on or not; however, the actual speed of the effect depends on the Tempo setting. The individual note values in each type let you synchronize the effect precisely to the rhythm. Triplet settings are also available: 1/6 = quarter-note triplets, 1/12 = eighth-note triplets, 1/24 = sixteenth-note triplets.</p> <ul style="list-style-type: none"> <li>• The Trill effect Types (06–12) create two-note trills (alternating notes) when two notes are held.</li> <li>• The Tremolo effect Types (13–19) repeat all held notes (up to four).</li> <li>• The Echo effect Types (20–26) create delayed repeats of each note played.</li> </ul>
07	Trill 1/6 note		
08	Trill 1/8 note		
09	Trill 1/12 note		
10	Trill 1/16 note		
11	Trill 1/24 note		
12	Trill 1/32 note		
13	Tremolo 1/4 note		
14	Tremolo 1/6 note		
15	Tremolo 1/8 note		
16	Tremolo 1/12 note		
17	Tremolo 1/16 note		
18	Tremolo 1/24 note		
19	Tremolo 1/32 note		
20	Echo 1/4 note		
21	Echo 1/6 note		
22	Echo 1/8 note		
23	Echo 1/12 note		
24	Echo 1/16 note		
25	Echo 1/24 note		
26	Echo 1/32 note		

## 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
01–02	Chorus 1–2	Conventional chorus program with rich, warm chorusing.
03–04	Flanger 1–2	Pronounced three-phase modulation with a slight metallic sound.
05	Off	No effect.



# Specifications

<b>Size/Weight</b>	Dimensions (W x D x H)		946 mm x 405 mm x 140 mm (37-1/4" x 15-15/16" x 5-1/2")
	Weight		6.8 kg (15lbs 0oz.) (not including batteries)
<b>Keyboard</b>	Number of Keys		61
	Touch Response		Yes
<b>Other Controllers</b>	Pitch Bend		Yes
	Control Knobs		Yes
<b>Display</b>	Display		LCD display
	Language		English
<b>Voices</b>	Tone Generation	Tone Generating Technology	AWM Stereo Sampling
	Polyphony	Number of Polyphony (Max.)	32
	Preset	Number of Voices	214 + 466XGlite + 6 Indian Kits + 21 Drum/SFX Kits + 46 Arpeggio
	Compatibility		GM, XGlite
<b>Effects</b>	Types	Reverb	9 types
		Chorus	4 types
		Master EQ	5 types
		Harmony	26 types
		Ultra-Wide Stereo	3 types
	Functions	Dual	Yes
Split		Yes	
Arpeggio type		162 types	
<b>Accompaniment Styles</b>	Preset	Number of Preset Styles	206
		Fingering	Multi finger
		Style Control	ACMP ON/OFF, INTRO/ENDING/rit., MAIN/AUTO FILL, SYNC START, SYNC STOP, START/STOP, TRACK ON/OFF
	User Styles		5
	Other Features	Music Database	305
<b>Tabla/Tanpura pattern</b>	Preset	One Touch Setting (OTS)	Yes
		Number of Preset Tabla Patterns	16
		Number of Variations	5 (for each Tabla Pattern)
		Number of Preset Tanpura Patterns	4 (for all Tabla Patterns)
<b>Recording/Playback</b>	Preset	Number of Preset Songs	110
		Number of Songs	10
		Number of Tracks	6 (5 Melody + 1 Style)
		Data Capacity	Approx. 19,000 notes (when only "melody" tracks are recorded) Approx. 5,500 chords (when only "chord" tracks are recorded)
<b>Compatible Data Format</b>	Playback		SMF
	Recording		Original File Format (SMF conversion function)
<b>Function</b>	Lesson/Guide		[1 LISTENING, 2 TIMING, 3 WAITING], [Repeat & Learn], [Chord Dictionary]
	Registration	Number of Buttons	4 (x 8 banks) with Freeze function
		Metronome	Yes
	Overall	Tempo Range	11 – 280
		Transpose	-12 to 0, 0 to +12
		Tuning	427.0 – 440.0 – 453.0 Hz
	Miscellaneous	Portable Grand Button	Yes
<b>Memory/Connectivity</b>	Memory	Internal Memory	Approx. 1.54MB
		External Storage Device	USB flash memory
	Connectivity	DC IN	DC IN 12V
		Headphones/Output	[PHONES/OUTPUT] x 1
		Sustain Pedal	[SUSTAIN] x 1
		USB TO DEVICE	Yes
USB TO HOST	Yes		
<b>Amplifiers/Speakers</b>	Amplifiers		2.5W + 2.5W
	Speakers		12cmx2 + 3cmx2
<b>Power Supply</b>	Power Supply	Adaptor	• Adaptor: PA-150A or an equivalent recommended by Yamaha
		Batteries	• Six "AA" size alkaline (LR6), manganese (R6) or Ni-MH rechargable batteries
	Power Consumption		• 16W (PA-150A)
	Auto Power Off Function		Yes
<b>Accessories</b>	Included Accessories		<ul style="list-style-type: none"> <li>• Owner's Manual</li> <li>• AC Power Adaptor PA-150A or an equivalent</li> <li>• Music Rest</li> <li>• Online Member Product Registration</li> </ul>
	Optional Accessories		<ul style="list-style-type: none"> <li>• AC Power Adaptor PA-150A or an equivalent recommended by Yamaha</li> <li>• Keyboard Stand (L-2C)</li> <li>• Stereo Headphones (HPE-150/HPE-30)</li> <li>• Footswitch (FC4/FC5)</li> </ul>

\* Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

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