# 

MUSIC SYNTHESIZER



# **Owner's Manual**

# SPECIAL MESSAGE SECTION

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

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

#### SPECIFICATIONS SUBJECT TO CHANGE:

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

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

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

#### NOTICE:

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

#### **ENVIRONMENTAL ISSUES:**

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

#### **Battery Notice:**

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

92-BP (bottom)

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

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

#### Warning:

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

#### **Disposal Notice:**

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

#### NAME PLATE LOCATION:

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

#### Model

Serial No.

#### **Purchase Date**

## PLEASE KEEP THIS MANUAL

# FCC INFORMATION (U.S.A.)

- IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2. IMPORTANT: When connecting this product to accessories and/ or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- **3. NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does

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

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

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

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

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

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

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

(class B)

#### **OBSERVERA!**

Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

**ADVARSEL:** Netspæendingen til dette apparat er IKKE afbrudt, sålæenge netledningen siddr i en stikkontakt, som er t endt — også selvom der or slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

(standby)

This product contains a high intensity lamp that contains a small amount of mercury. Disposal of this material may be regulated due to environmental considerations. For disposal information in the United States, refer to the Electronic Industries Alliance web site: www.eiae.org

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

(mercury)

(2 wires)

### IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured makings identifying the terminals in your plug proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

This applies only to products distributed by Yamaha-Kemble Music (U.K.) Ltd.

### COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party: Yamaha Corporation of America Address: 6600 Orangethorpe Ave., Buena Park, Calif. 90620

Telephone : 714-522-9011 Type of Equipment : Music Synthesizer Model Name : MM6

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following conditions:

1) this device may not cause harmful interference, and

2) this device must accept any interference received including interference that may cause undesired operation.

See user manual instructions if interference to radio reception is suspected.

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

(FCC DoC)

# PRECAUTIONS

## PLEASE READ CAREFULLY BEFORE PROCEEDING

\* Please keep this manual in a safe place for future reference.

# \land 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

- 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 (PA-5D or an equivalent recommended by Yamaha) 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 place the AC adaptor cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

### Do not open

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

#### Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

#### Fire warning

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

#### If you notice any abnormality

 If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel.

# 

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

- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- 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.

### Location

- 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 or damage to the internal components.
- 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 place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected adaptor and other cables.
- 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. Also, 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.

#### Maintenance

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

#### Handling caution

- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- 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.

#### Saving data

#### Saving and backing up your data

 Saved data may be lost due to malfunction or incorrect operation. Save important data to a USB storage device/or other external device such as a computer. (pages 69, 76)

#### Backing up the USB storage device

• To protect against data loss through media damage, we recommend that you save your important data onto two USB storage devices or other external device such as a computer.

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 power switch is in the "STANDBY" position, 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 AC power adaptor from the wall AC outlet.

The illustrations and LCD screens as shown in this owner's manual are for instructional purposes only, and may appear somewhat different from those on your instrument.

#### Trademarks

- Windows is the registered trademarks of Microsoft® Corporation.
- Apple and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S and other countries.
- The company names and product names in this Owner's Manual are the trademarks or registered trademarks of their respective companies.

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.

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.

Congratulations, and thank you for your choosing the Yamaha MM6 Music Synthesizer!

Please read this owner's manual carefully before using the instrument in order to take full advantage of it's various features.

When you have finished reading the manual keep it in a safe, accessible place, and refer to it when you need to better understand an operation or function.

## Accessories

The instrument package includes the following items. Please check that you have them all.

- Owner's Manual
- Supplied Disk (supplied DAW software)
- AC Power Adaptor (May not be included depending on the region in which you purchased the product. Please check with your Yamaha dealer.)

## **MM6 Main Features**

### ■ High-Quality Voices for Keyboard Performance ► Page 15

The MM6 contains a wide range of high-quality voices (many based on the Motif Series voices), ranging from acoustic musical instruments to unique synthesizer sounds. Use the Category Search function to quickly call up the sounds you want, based on their instrument type.

### ■ Play the Keyboard Along with a Pattern ► Page 23

The patterns in the MM6 were created to give you a wide range of different musical genres simply by playing back the pattern tracks. Moreover, you can easily record chord changes to both the patterns and your real time keyboard performance in the Song mode.

### ■ Use the Arpeggiator ► Page 20

The versatile Arpeggio feature automatically plays drum percussion phrases, guitar phrases, and analog synthesizer style phrases in response to the keys you play.

# ■ Save and Switch Between Performance Settings (Performance Memory) ► Page 59

The Performance Memory lets you conveniently create and store combined settings for the voices you play (including keyboard splits and layers), the patterns you want to assign to backing tracks, and other important settings for live performance. These performance settings can be easily recalled by a single button press.

### ■ Controlling Filter and EG in Real Time ► Page 41

You can control the filter (cutoff and resonance) and EG (attack and release) in real time by using four knobs on the panel. Even these detailed sonic changes can be saved in the Performance Memory.

### ■ Save Performance Data to a USB Storage Device ► Page 66

Transferring data between the MM6 and your computer is easy because the MM6 can store data and setting to standard USB storage devices.

# ■ Create Music with Your Computer and the Bundled DAW Software ► Page 80

You can connect the MM6 to your computer using a USB cable, and transfer MIDI data to and from DAW software. With the Bundled DAW software the MM6 becomes the central tone generator for your computer based music production system.

## **Contents**

Accessories MM6 Main Features	
Setting Up	
Power Supply Connections Cable clip Using Headphones Connecting to a Computer (USB Terminal) Turning the Power On Adjust Volume and Display Contrast	
Panel Controls and Terminals	12
Front Panel Rear Panel	

Quick Guide Playing the Demo Song 14	
	 15
Selecting the Main Voice	16 17 19
Playing Patterns 2	22
Listen to the Rhythm Pattern Play Along with a Pattern Playing Auto-accompaniment Chords	23
Using Songs 2	26
Selecting and Listening to a Song Song Fast Forward, Fast Reverse, and Pause	27
Recording Your Own Performance 2	29
Recording Procedure Song Clear—Deleting User Songs Track Clear—Deleting a Specified Track from a User Song	33

Backup and Initialization	
Backup Initialization	
Basic Operation and Displays	36
Basic Operation The Displays MAIN Display Items	38

## Reference

Using the MM6 Controllers	40
Controllers on the MM6 Panel External Controllers	
Enhancing the Sound with Reverb, Chorus, and Effects	DSP 42
Selecting a Reverb type Selecting a Chorus type Applying DSP Effects	43
Handy Performance Features	45
Using the Metronome Adjusting the Tempo Using the TAP TEMPO Button Setting the Touch Response Select a Master EQ Setting for the Best Sound Controlling Arpeggio Volume with Keyboard Dynamics Transpose the Keyboard Shifting Keyboard Pitch in Octaves	47 47 47 48 48 49

Pattern Functions	51
Pattern Variations (Sections) Setting the Split Point Play a Pattern with Chords but No Rhythm	
(Stop Accompaniment)	53
Pattern Volume Adjustment	53
Chord Basics Specify Chords Over the Entire Keyboard Range	54
Song Settings	50 57
Song Volume	57
Change the Song Tempo	57
Track Mute	58
Memorize Your Favorite Panel Settings	59
Saving to the Performance Memory	
Recalling Settings from the Performance Memory	
,	
Voice Editing	62
Select and Edit an Item Edit Display List	-
Utility Settings	64
Selecting and Setting Functions	64
Utility Display List	
Storing/Saving Data	66
Using a USB Storage Device	
Formatting a USB storage device	
Saving Data Convert a User Song to SMF Format and Save	69
Loading User Files and Pattern Files	70
Deleting Data from a USB Storage Device	
Playing Songs Saved to a USB Storage Device	
Connections	73
The Connectors	73
Connecting to External Audio Equipment	74
Connecting to External MIDI Devices	
Connecting a USB Storage Device	
Connecting to a Personal Computer	
Transferring Performance Data to and from a Computer . Initial Setup	
About the Supplied Disk	7 9 80
About the Supplied DAW Software	
About the Supplied DAW Software	

#### Appendix

Troubleshooting	82
Messages	83
Voice List	
Drum Kit List	
Performance List	
Pattern List	97
Effect Type List	
Arpeggio Type List	
Master EQ List	
MIDI Data Format	
MIDI Implementation Chart	
Specifications	
Index	

Be sure to do the following BEFORE turning on the power.

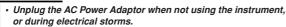
### **Power Supply Connections**

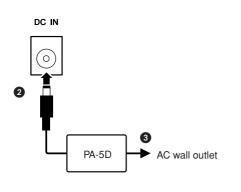
1 Make sure that the [STANDBY/ON] switch of the instrument is set to STANDBY.

#### 

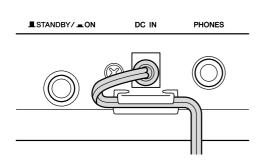
- Use ONLY a Yamaha PA-5D AC Power Adaptor (or other adaptor specifically recommended by Yamaha) to power your instrument from the AC mains. The use of other adaptors may result in irreparable damage to both the adaptor and the instrument.
- 2 Plug the adaptor's DC plug into the DC IN jack on the instrument's rear panel.
- Plug the AC adaptor (PA-5D or other adaptor specifically recommended by Yamaha) into a convenient AC wall outlet.

#### 





### **Cable clip**

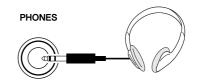


Wrap the DC output cable of the adaptor around the cable clip (as shown above) to prevent accidental unplugging of the cable during operation.

Avoid tightening the cord more than necessary or pulling on the cord strongly while it is wrapped around the cable clip to prevent wear on the cord or possible breakage of the clip.

# Make all necessary connections, as described below, BEFORE turning the power on.

### **Using Headphones**



Since the MM6 has no built-in speakers, it must be connected to an external amplifier and speakers, headphones, or other sound output device.

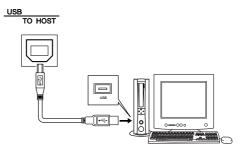
#### \land warning

Do not use headphones at a high volume for an extended period
 of time. Doing so may cause hearing loss.

#### 

 When connecting the MM6 to external equipment make sure that the power to all external devices is turned off to prevent possible electrical shock or equipment damage. Also be sure to turn any volume controls on external equipment to minimum when making connections to prevent possible speaker damage.

### **Connecting to a Computer (USB Terminal)**



You can connect the instrument's USB terminal to the USB terminal of a computer to allow transfer of performance data and song files between the two (page 77). To use the USB data-transfer features you'll need to do the following:

- First, make sure the POWER switch on the MIDI device is set to OFF, then use a USB cable to connect the MIDI device to the computer.
- Install the USB-MIDI Driver on your computer.

You can download the proper USB-MIDI driver from our website:

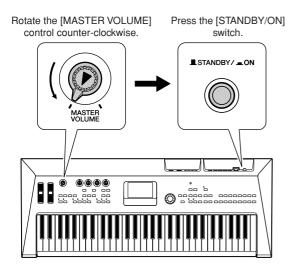
http://www.global.yamaha.com/download/usb\_midi/ Refer to the instructions included with the USB-MIDI Driver download package for the USB-MIDI Driver installation procedure.

NOTE

• USB cables can be purchased at some musical instrument stores, computer stores, and similar retail outlets.

### **Turning the Power On**

Turn down the volume by turning the [MASTER VOL-UME] control to the left and press the [STANDBY/ON] switch to turn on the power. Press the [STANDBY/ON] switch again to turn the power OFF.



Backup data is loaded from the internal flash memory when the power is turned on. If no backup data exists in the flash memory, all instrument settings are restored to the initial factory defaults.

### 

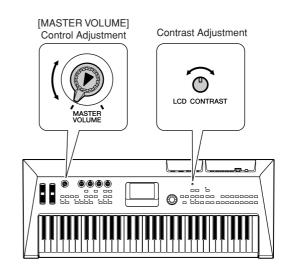
 Even when the switch is in the "STANDBY" position, a minute electrical current is present in the instrument. If you will not be using the instrument for an extended period of time, make sure you unplug the AC power adaptor from the wall AC outlet.

#### **A**CAUTION

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

### **Adjust Volume and Display Contrast**

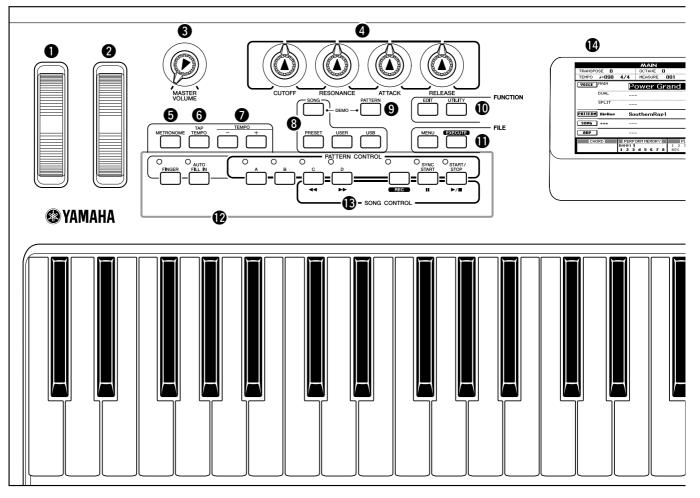
Set the MM6 and external playback equipment volume controls to appropriate levels. If necessary, adjust the legibility of the LCD display by using the LCD Contrast Control.





# **Panel Controls and Terminals**

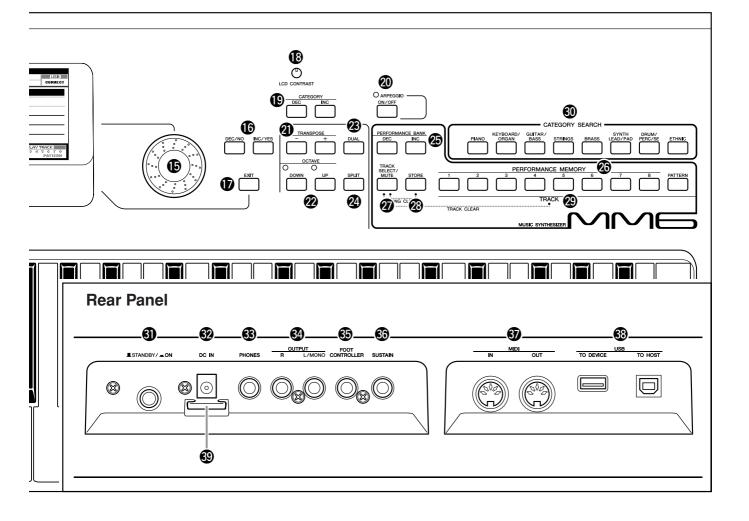
## **Front Panel**



## **Front Panel**

[PITCH BEND] wheelpage 40
2 [MODULATION] wheelpage 40
<b>③ [MASTER VOLUME] control</b> pages 14, 36
(CUTOFF], [RESONANCE], [ATTACK], [RELEASE] knobspage 41
<b>(METRONOME) button</b> page 45
<b>6</b> [TAP TEMPO] buttonpage 47
<b>TEMPO [+], [-] buttons</b> page 45
(8) SONG
[SONG] buttonpage 14
[PRESET], [USER], [USB] buttonspage 26
[PATTERN] buttonpage 22
<b>FUNCTION</b> [EDIT], [UTILITY] buttonspages 62, 64
FILE [MENU], [EXECUTE] buttonspages 67, 68

PATTERN CONTROL	
[FINGER] button pag	ge 23
[AUTO FILL IN] button pag	ge 51
<b>[A]–[D] buttons</b> pag	ye 51
[SYNC START] buttonpages 2	3, 51
[START/STOP] buttonpages 2	2, 37
SONG CONTROL	
<b>[◀◀] (REW) button</b> pag	ge 27
<b>[▶▶] (FF) button</b> pag	ge 27
[REC] button pag	ye 30
[ <b>]] (PAUSE) button</b> pag	ge 27
[▶/■] (START/STOP) buttonpages 2	7, 37
🕼 Display pag	je 38
🕼 Dial pag	ge 37
(INC/YES], [DEC/NO] buttons page	je 37
D [EXIT] button page	ye 38
B LCD CONTRAST knob pag	ge 11
CATEGORY [INC], [DEC] buttons page	ge 37



(a) [ARPEGGIO ON/OFF] buttonpage	ge 20
TRANSPOSE [+], [-] buttonspage	ge 49
OCTAVE [UP], [DOWN] buttonspage	ge 50
(DUAL) buttonpage	ge 16
② [SPLIT] buttonpage	ge 17
PERFORMANCE BANK [INC], [DEC] buttonspage	ge 59
PERFORMANCE MEMORY	
[1]–[8] buttonspa	ge 59
[TRACK SELECT/MUTE] buttonpage	ge 58
(STORE] buttonpage	ge 59
TRACK [1]–[8],	
[PATTERN] buttonspag	ge 29
CATEGORY SEARCH buttonspage	ge 15

### **Rear Panel**

[STANDBY/ON] switch page 14
DC IN jack page 10
PHONES jack page 10
OUTPUT R, L/MONO jacks page 73
G FOOT CONTROLLER jack page 41
SUSTAIN jack page 41
MIDI IN, OUT terminals page 73
🕲 USB TO DEVICE, TO HOST
terminals page 73
Cable clippage 10

# **Quick** Playing the Demo Song

This instrument includes a Demonstration Song that demonstrate some of the instrument's features and capabilities. Let's start by playing the Demonstration Song.

# **1** Press the [STANDBY/ON] button until it locks in the ON position.

The Main display will appear in the LCD.

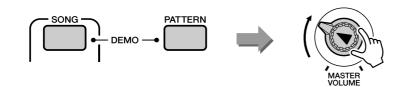


# **2** Press the [SONG] button and [PATTERN] button simultaneously.

The Demo display appears in the LCD

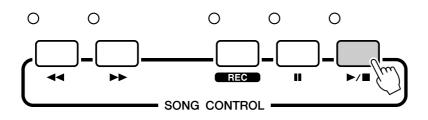
Gradually raise the [MASTER VOLUME] control while listening to the instrument to set the desired listening level.

The Demo Song will play again from the beginning when the end is reached.



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

The Main display will reappear.



# Quick Play the Instrument

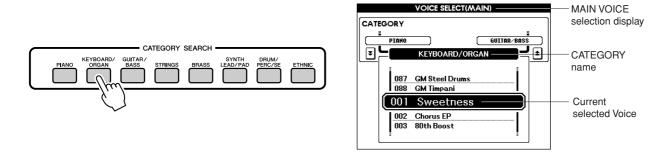
In addition to piano, organ, and other "standard" keyboard instruments, this instrument has a large range of realistic voices—including guitar, bass, strings, sax, trumpet, drums and percussion, sound effects, and a wide variety of other musical sounds.

## **Selecting the Main Voice**

Select a Main Voice and play it on the keyboard.

## Press a CATEGORY SEARCH button.

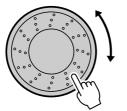
The Main Voice selection display will appear. The currently selected category name, voice number and name will be highlighted. NOTE • To change the Voice category, press another CATEGORY SEARCH button.



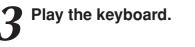
## Select a voice you want to play from the current category.

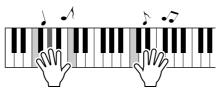
Use the dial to select the desired voice. The available voices will be selected and displayed in sequence. The voice selected here becomes the Main voice.

For this example try selecting the "004 Early70's".









Try selecting and playing a variety of Voices. Press the [EXIT] button to return to the MAIN display.

## **Combining Voices—Dual**

You can select a second voice that will play in addition to the main voice when you play the keyboard. The second voice is known as the "Dual" voice.



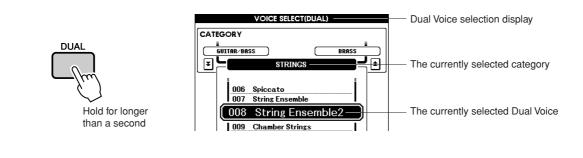
## Press the [DUAL] button.

The currently selected dual voice will sound in addition to the main voice when you play the keyboard.



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

The Dual Voice selection display will appear. The currently selected category name, voice number and name will be highlighted.



**3** Select and press the desired category button in the CATE-GORY SEARCH section.

CATEGORY SEARCH

NOTE

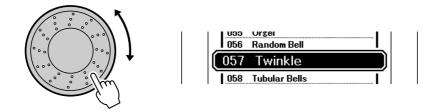
 To change the Voice category, press another category search button.



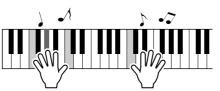
## Select a voice you want to play.

Use the dial to select the desire voice. The available voices will be selected and displayed in sequence. The voice selected here becomes the Dual voice.

For this example try selecting the "057 Twinkle".





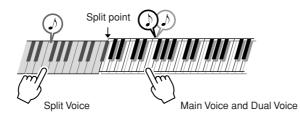


Try selecting and playing a range of Dual Voices.

Press the [EXIT] button to return to the MAIN display.

## **Split the Keyboard**

In the split mode you can play different voices to the left and right of the keyboard "split point". The main and dual voices can be played to the right of the split point, while the voice played to the left of the split point is known as the "split voice". The split point setting can be changed as required (page 52).



## Press the [SPLIT] button.

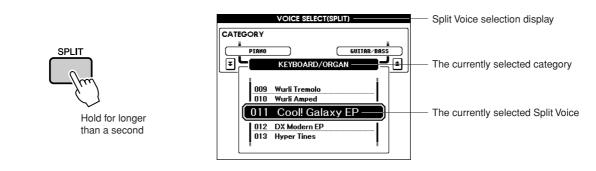
The currently selected split voice will sound to the left of the keyboard split point.



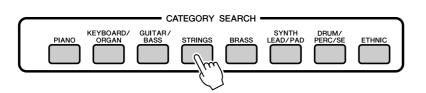
# $2\,$ Press and hold the [SPLIT] button for longer than a second.

The Split Voice selection display will appear.

The currently selected category name, voice number and name will be highlighted.



# **3** Select and press the desired category button in the CATE-GORY SEARCH section.



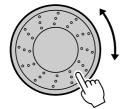
NOTE

 To change the voice category, press another CATEGORY SEARCH button.

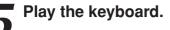
## Select a voice you want to play.

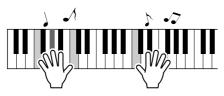
Use the dial to select the desired voice. The available voices will be selected and displayed in sequence. The voice selected here becomes the Split voice.

For this example try selecting the "002 Symphony Strings".









Try playing the selected Split Voice.

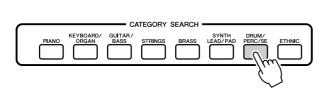
Press the [EXIT] button to return to the MAIN display.

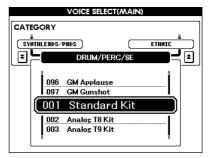
## **Selecting a Drum Voice**

Drum Kits are collections of drum and percussion instruments.

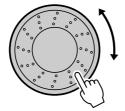
## Press the [DRUM/PERC/SE] button.

The DRUM Kit category will appear in the display.

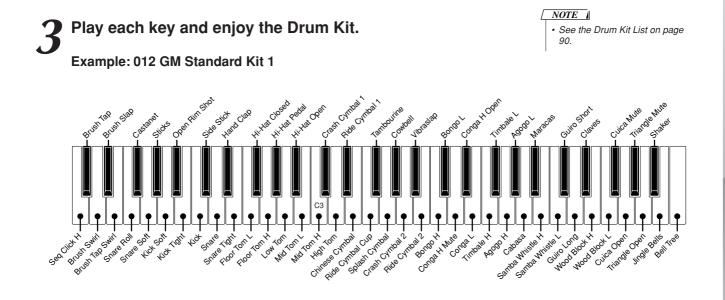




**2** Use the dial to select the Drum Kit you want to play (001– 023).

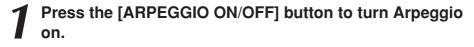


	Indian NIT
011	Chinese Kit
012	GM Standard Kit 1
013	Standard Kit 2

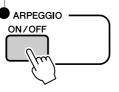


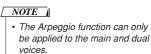
## **Using the Arpeggio Function**

The arpeggio function lets you create arpeggios (broken chords) by simply playing the required notes on the keyboard. For example, you could play the notes of a triad—the root, third, and fifth—and the arpeggio function will automatically create a variety of interesting arpeggio-type phrases. By changing the arpeggio type and the notes you play it is possible to create a wide range of patterns and phrases that can be used for music production as well as performance.



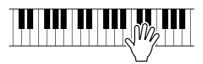
The indicator lights when ARPEGGIO is ON.





**2** Play a note or notes on the keyboard to trigger Arpeggio playback.

The rhythm pattern or phrase that plays depends on the actual notes or chords you play, as well as on the selected Arpeggio type.



3

When you have finished using with the arpeggio function, press the [ARPEGGIO ON/OFF] button to turn it off.

## Changing the Arpeggio type .....

The most suitable arpeggio type is automatically selected when you select a voice, but you can easily select any other arpeggio type.

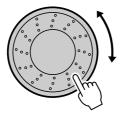
# Press and hold the [ARPEGGIO ON/OFF] button for longer than a second.

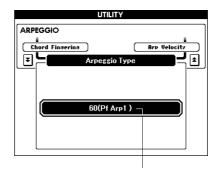
The arpeggio type selection display will appear.



### **1** Use the dial to select the desired arpeggio type.

A list of the available arpeggio types is provided on page 102.





Arpeggio type

The sound of the arpeggio produced will change according to the number of notes you play and the area of the keyboard you play in. You can save the instrument's settings at this point and then recall them at any time you want to repeat your performance (page 59). You can also record your performance (page 29).

# **Quick** Playing Patterns

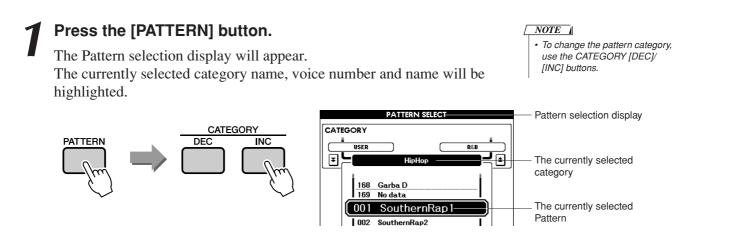
This instrument has an auto accompaniment feature that produces accompaniment (rhythm + bass + chords) in the pattern you choose to match chords you play with your left hand. A range of patterns with different time signatures and arrangements are provided (refer to the Pattern List on page 97).

In this section we'll learn how to use the auto accompaniment features.

## Listen to the Rhythm Pattern

Most patterns include a rhythm part. You can select from a wide variety of rhythmic types—rock, blues, Euro trance, and many, many more.

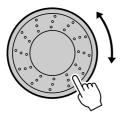
Let's begin by listening to just the basic rhythm. The rhythm part is played using percussion instruments only.

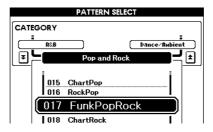




## Select a Pattern you want to play.

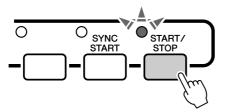
Use the dial to select the pattern you want to play. The available patterns will be selected and displayed in sequence. Refer to the Pattern list on page 97.





## Press the [START/STOP] button.

The pattern rhythm will start playing. To stop playback, press the [START/STOP] button again.



## **Play Along with a Pattern**

You learned how to select a Pattern rhythm on the preceding page.

Here we'll see how to add bass and chord accompaniment to the basic rhythm to produce a full, rich accompaniment that you can play along with.

Select the pattern you want to play (page 22, steps 1-2).

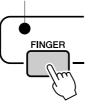
Press the [EXIT] button to return to the MAIN display screen.

## Turn FINGER on.

Press the [FINGER] button.

Press the button a second time to turn the FINGER mode off.

The indicator lights when FINGER is ON.

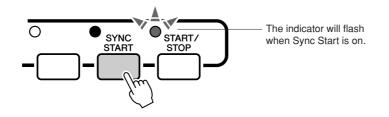


## •When FINGER is on ... The area of the keyboard to the left of the split point (54 : F sharp 2) becomes the "auto accompaniment range" and is used only for specifying the accompaniment chords. Split point (54/F#2) Auto-accompaniment Range

• The keyboard split point can be changed as required, as described on page 52.

## Turn sync start on.

Press the [SYNC START] button to turn the Sync Start function on.



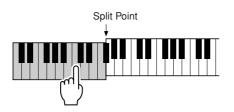
The "standby" mode will be engaged when the Sync Start function is turned on.

When sync start is on, the bass and chord accompaniment included in a pattern will start playing as soon as you play a note to left of the keyboard split point. Press the button a second time to turn the sync start function off.

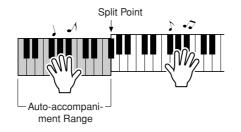
## Play a left-hand chord to start the pattern.

If you don't yet know how to play any chords, try playing anything you like on the keyboard. Refer to page 25 for information about playing chords.

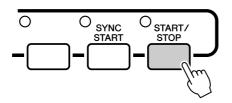
The accompaniment will change according to the left-hand notes you play.



Play a variety of left-hand chords while playing a melody with your right hand.



**6** Press the [START/STOP] button to stop pattern playback when you're done.



You can switch pattern "sections" to add variety to the accompaniment. Refer to "Pattern Variations (Sections)" on page 51.

## **Playing Auto-accompaniment Chords**

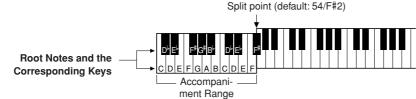
There are two types of auto-accompaniment chords:

Easy Chords

#### Standard Chords

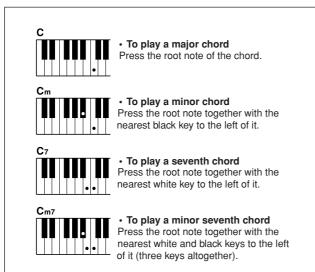
The instrument will automatically recognize the different chord types. This function is known as Multi Fingering.

The keyboard to the left of the split point (default: 54/F#2) becomes the "accompaniment range". Play the accompaniment chords in this area of the keyboard.



## Easy Chords .....

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



## Standard Chords .....

This method lets you produce accompaniment by playing chords using normal fingerings in the accompaniment range of the keyboard.



### • Multi Fingering and Full Keyboard

These let you select the accompaniment section of the keyboard for chord playing.

When changing settings refer to "Specify Chords Over the Entire Keyboard Range" on page 56, and "Chord Fingering" on page 65.

- **Multi Fingering:** As explained above, the keys to the left of the split point (default: 54, F#2) become the accompaniment range. Playing Auto-accompaniment Chords. There are two ways of playing auto-accompaniment chords: Easy Chords and Standard Chords. The default setting (factory setting) is "Multi Fingering."
- Full Keyboard: This let you play the accompaniment chords freely from anywhere on the keyboard.

# Quick Using Songs

With this instrument the term "song" refers the data that makes up a piece of music.

In this section we'll learn how to select and play songs.

## Selecting and Listening to a Song

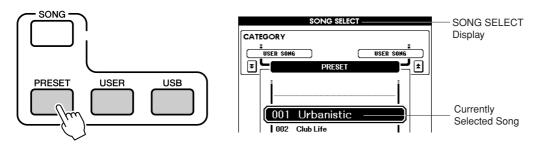
## Select and press the SONG category button that corresponds to the type of song you want to listen to.

[PRESET]: Accesses the three internal preset songs.

- [USER] : Accesses songs you have recorded yourself and songs loaded from computer.
- [USB] : Accesses songs stored on a USB storage device connected to the DEVICE terminal.

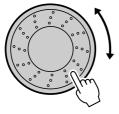
The song selection display will appear.

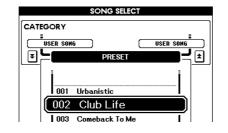
The currently selected song number and name will be highlighted.



## Select a song you want to play.

Use the dial to select the Song you want to listen to. The available songs will be selected and displayed in sequence.





#### NOTE

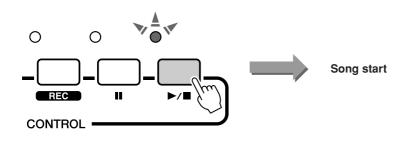
 User songs (songs you've recorded yourself) and songs on USB storage devices can also be played. The procedure for playing these types of songs is exactly the same as for playing the internal songs.

PRESET	Internal songs (three songs)
USER	User songs (songs you have recorded yourself; page 29)
USB	Songs stored on a USB storage device connected to the instrument (page 67)



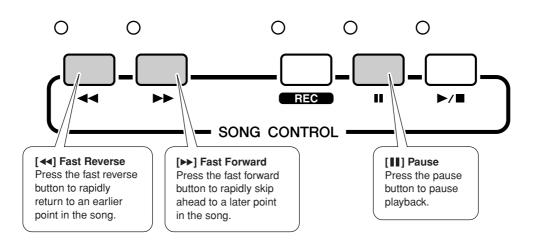
### Listen to the song.

Press the [START/STOP] button to begin playback of the selected song. You can stop playback at any time by pressing the [START/STOP] button again.



## Song Fast Forward, Fast Reverse, and Pause

These are just like the transport controls on a CD player, letting you fast forward  $[\rightarrow \]$ , reverse  $[\triangleleft]$  and pause  $[\parallel]$  playback of the song.

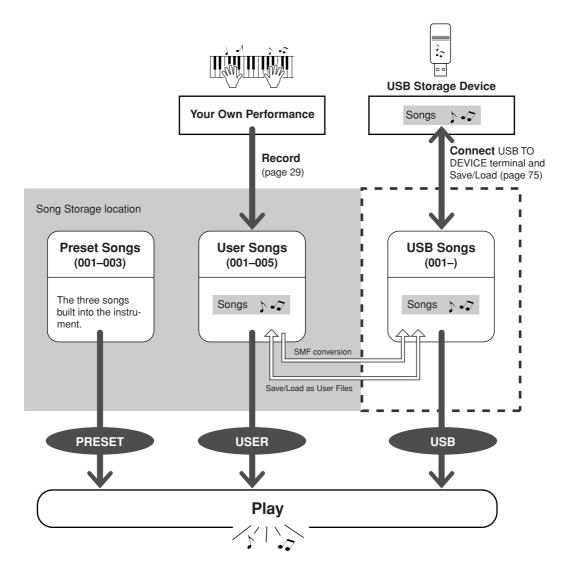


## **Types of Songs**

The following three types songs can be used by this instrument.

- Preset Songs (the three songs built into the instrument) ......Song numbers 001–003.

The chart below shows the basic flow for using the preset songs, user songs, and USB songs from storage to playback.



# **Quick** Recording Your Own Performance

You can record up to five of your own performances and save them as user songs 001 through 005. These Songs can be played in the same manner as the preset Songs.

Once your performances have been saved as user Songs, they can be converted to SMF (Standard MIDI File) format files and saved to USB storage device (page 70).

### Recordable data

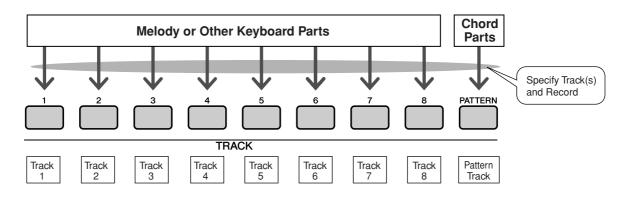
Eight tracks of keyboard performance and one pattern track (chord performance) can be recorded.

Each track can be recorded individually.

- Tracks [1]–[8] .....Record keyboard performance (main voice only).
- [PATTERN] Track ...... Records pattern rhythm and chord parts.

### Track Mute

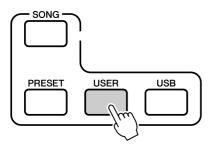
This instrument allows you to choose whether recorded tracks will play back while you are recording or playing back other tracks (page 58).

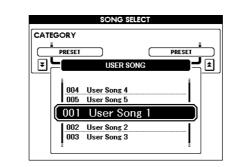


## **Recording Procedure**

Begin recording after selecting a user song number, and the track and part you want to record.

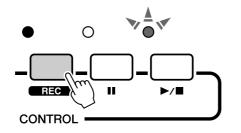
From the MAIN display press the [USER] button, then use the dial to select the user song number (001–005) you want to record.





## Press the [REC] button.

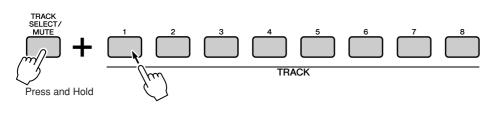
The [REC] button will light.



## Select the recording track.

Press the TRACK button ([1] to [8]) you want to record to while holding the [TRACK SELECT/MUTE] button.

The selected track will flash in the display.



contains previously-recorded
data the previous data will be

A CAUTION

NOTE

NOTE

· The FINGER mode will be auto-

If you record to a track that

overwritten and lost.

 The FINGER mode will be automatically turned on when you select the [PATTERN] track for recording.

• The FINGER mode cannot be turned on or off once you have started recording.

Track 1 will be 12 2 3 4 5 6 7 8 highlighted.

• To cancel recording to a selected track, press that track

button a second time. The FIN-GER mode cannot be turned on

or off once you have started

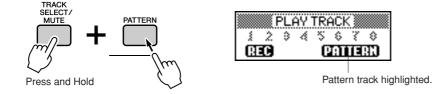
NOTE

recording.

### ◆ Pattern Track Selected for Recording

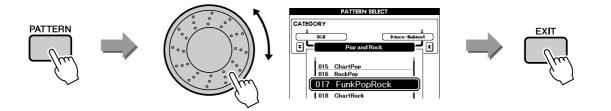
Press the TRACK [PATTTERN] button while holding down the [TRACK SELECT/MUTE] button.

The pattern track will be highlighted and the record standby mode will be engaged.



#### Changing the Pattern Being Recorded

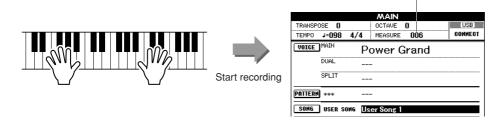
Press the [PATTERN] button and use the dial to select the desired pattern. Once the pattern has been selected press the [EXIT] button.



## Recording will start when you play on the keyboard.

You can also start recording by pressing the [START/STOP] button. Press the [EXIT] button, and the measure number will be shown in the Main display.

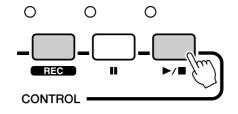
Current measure number



NOTE

 If the memory becomes full during recording a warning message will appear and recording will stop automatically. Use the song clear or track clear function (page 33) to delete unwanted data and make more room available for recording, then do the recording again.

**5** Stop recording by pressing the [START/STOP] or [REC] button.



When recording stops the current measure number will return to 001 and the recorded track numbers in the display will appear with a frame around them.

#### To Record Other Tracks

Repeat steps 2 through 5 to record any of the remaining tracks. By pressing the TRACK [1]–[8] and/or [PATTERN] button(s) it becomes possible to monitor previously recorded tracks (displayed with a frame around the track number) while recording a new track. Previously recorded tracks can also be muted (displayed without a frame around the track number) while recording a new track (page 58).

#### To Re-record a Track

Simple select the track you want to re-record for recording in the normal way. The new material will overwrite the previous data.

# 6

## When the recording is done ...

### ◆ To Play Back a User Song

The procedure is the same as that for Preset Songs (See page 26).

- **1** Press the [USER] button.
- The current Song number/name will be highlighted-use the dial to select the user Song (001 to 005) you want to play.
- **3** Press the [START/STOP] button.
- ◆ Save the User Song to USB storage device (See page 69)
- Convert the Song Data to SMF Format and then Save to USB storage device (See page 70)

The following data is recorded before the beginning of the Song. Even if you change the data while recording is in progress, the data is not recorded.

• Reverb type, Chorus type, Time signature, Pattern number, Pattern volume

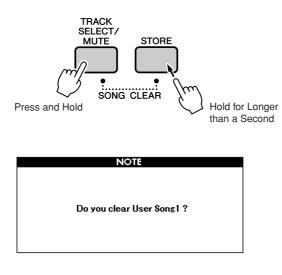
## Song Clear—Deleting User Songs

This function clears an entire user song (all tracks).

From the MAIN display, select the user song (001 to 005) you want to clear.

Press and hold the [TRACK SELECT/MUTE] button for longer than a second while holding the [STORE] button.

A confirmation message will appear on the display.



#### NOTE

 If you only want to clear a specific track from a user song use the Track Clear function.

## **Press the [INC/YES] button.**

A confirmation message will appear on the display. Press [DEC/NO] to cancel the Song Clear operation.

# To execute the Song Clear function press the [INC/YES] button.

The clear-in-progress message will appear briefly on the display while the song is being cleared.

#### 

 To execute the Song Clear function, press the [INC/YES] button. Press [DEC/NO] button to cancel the Song Clear operation.

## Track Clear—Deleting a Specified Track from a User Song

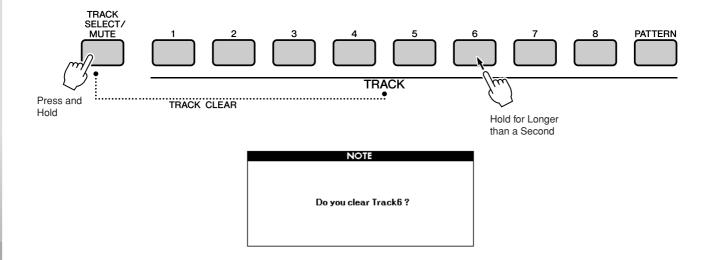
This function lets you delete a specified track from a user song.

# From the MAIN display, select the user song (001 to 005) that contains the track you want to clear.

# **2** Press the TRACK button [1] to [8] you want to clear to while holding the [TRACK SELECT/MUTE] button.

To erase the pattern track, press the TRACK [PATTERN] button for longer than one second while holding the [TRACK SELECT/MUTE] button.

A confirmation message will appear on the display.



## Press the [INC/YES] button.

A confirmation message will appear on the display. Press [DEC/NO] to cancel the Track Clear operation.

# To execute the Track Clear function press the [INC/YES] button.

The clear-in-progress message will appear briefly on the display while the track is being cleared.

#### NOTE

 To execute the Track Clear function, press the [INC/YES] button. Press [DEC/NO] button to cancel the Track Clear operation.



## Backup

The following settings are always backed up, and are maintained even when the power is turned off. If you want to initialize the settings, use the Initialize operation as explained below.

- The Backup Parameters
- User Song
- Pattern file
- Performance memory
- The parameters in the UTILITY/EDIT display
  - Split point, Touch sensitivity, Pattern volume, Song volume, Metronome volume, Demo cancel, Master EQ type, Chord fingering, Tuning, Arpeggio velocity
- Panel Setting: AUTO FILL IN

## Initialization

This function erases all backup data in the instrument's memory and restores the initial default settings.

.....

## ■Backup Clear • • • • • • • • •

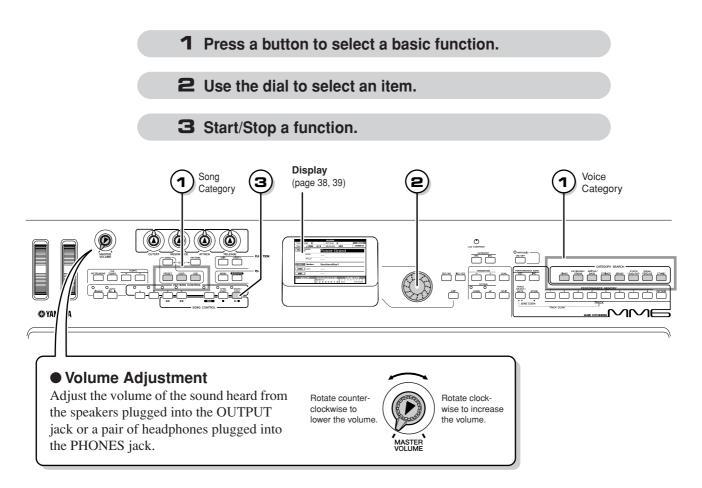
To clear the backed up data, turn the power on by pressing the [STANDBY/ ON] switch while holding the highest white key on the keyboard. The backed up data will be erased and the default values restored.

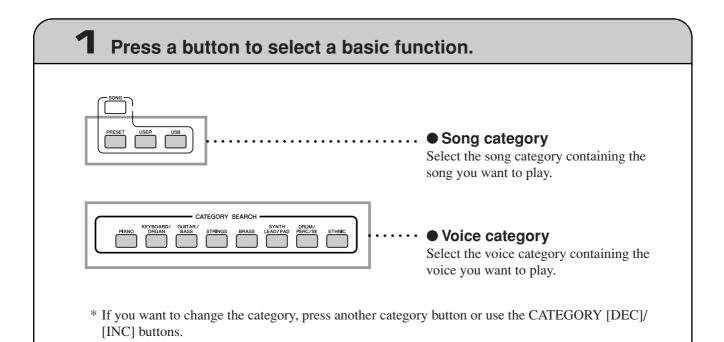


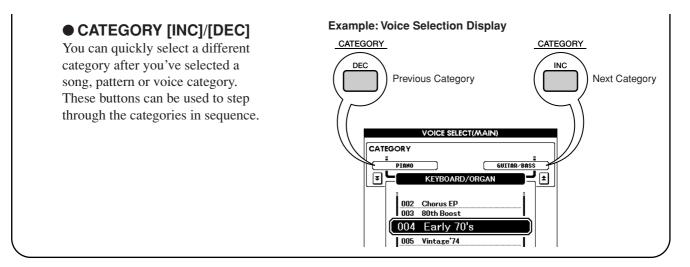


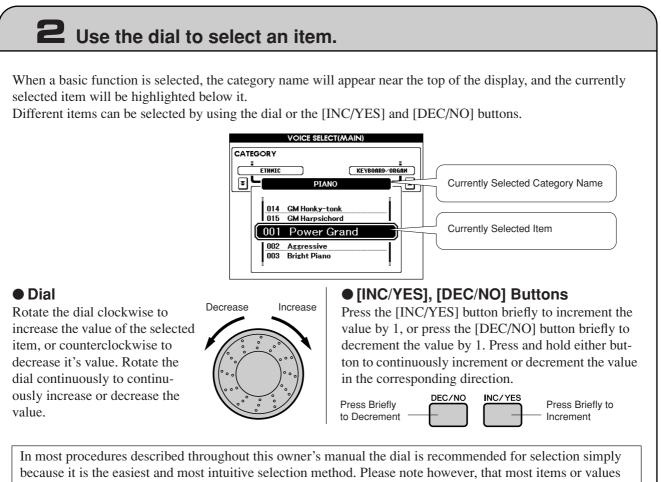
## **Basic Operation**

Overall MM6 control is based on the following simple operations.









that can be selected using the dial can also be selected using the [INC/YES] and [DEC/NO] buttons.

### **Start/Stop a function.**



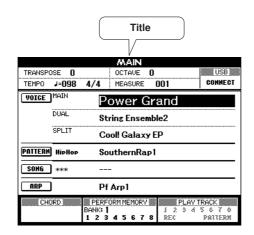
Use the [START/STOP] button. Press this button after selecting a song or pattern to start song or pattern (rhythm) playback. Press the button a second time to stop playback.

## The Displays

#### • Display names

The display provides all the information you need to easily operate the instrument. The name of the current display appears at the top of the screen. For example, "MAIN" appears at the top on the main display.

#### MAIN display







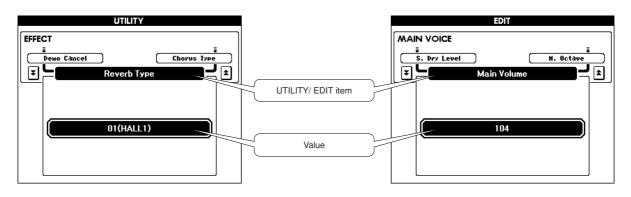
Most basic operations are carried out from the instrument's MAIN display. You can return to the MAIN display from any other display be pressing the [EXIT] button near the dial.

#### • UTILITY/EDIT display (page 64, 62)

The UTILITY/EDIT displays provide access to 46 items (25 UTILITY items and 21 EDIT items) that can be edited.

The UTILITY or EDIT display appears when the [UTILITY] or [EDIT] button is pressed. Each time the CATEGORY [DEC]/[INC] buttons described on page 37 are pressed a new item is selected from the 46 items available.

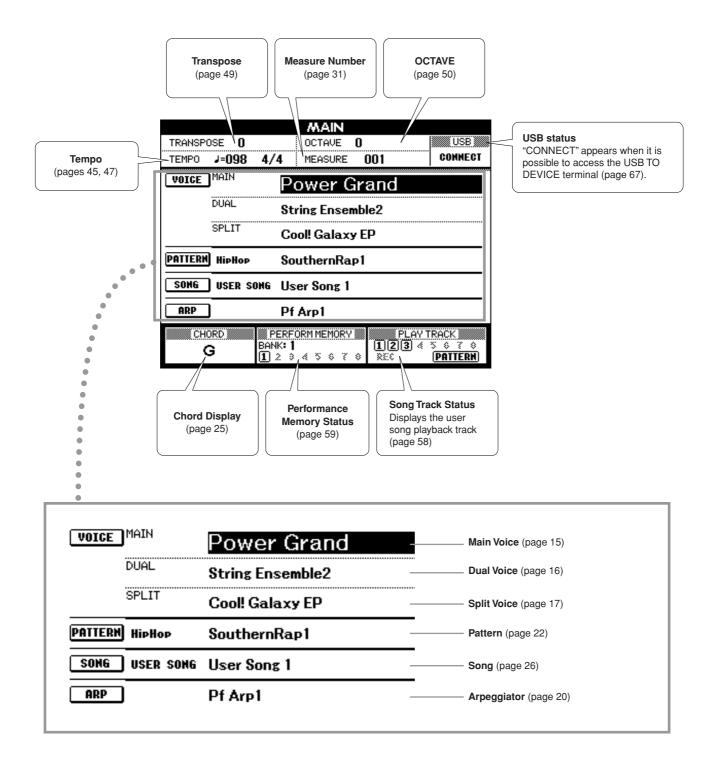
Press the CATEGORY [DEC]/[INC] button(s) as many times as necessary until the required function appears. You can then use the dial or [INC/YES] or [DEC/NO] buttons to adjust the value of the function as required.



## **MAIN Display Items**

The MAIN display shows all of the current basic song, pattern, and voice settings. It also includes a range of indicators that show the on/off status of a several functions.

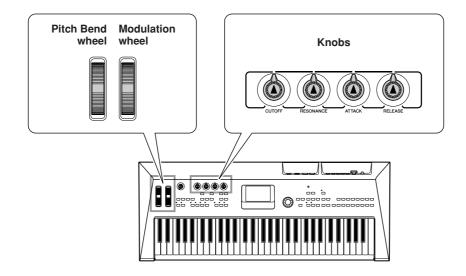
Since this display lets you see all of the current basic settings in one centralized area, it is a good idea to have it showing while playing.





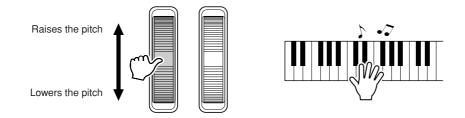
You can control tone, volume, pitch and other parameters by using the controllers on the front panel, as well as by using external controllers connected to several controller jacks on the rear panel.

## **Controllers on the MM6 Panel**



### Pitch Bend wheel .....

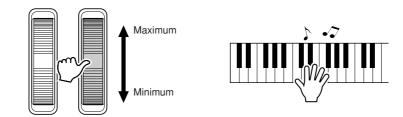
Use the Pitch Bend wheel to bend notes up (roll the wheel away from you) or down (roll the wheel toward you) while playing the keyboard. This wheel is self-centering and will automatically return to normal pitch when released. Try out the Pitch Bend wheel while pressing a note on the keyboard.



#### ■Modulation wheel •••••

This controller is used to apply vibrato to the keyboard sound.

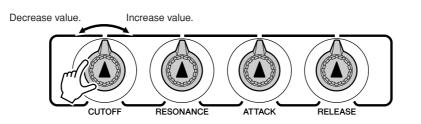
The more you move this wheel up, the greater the effect that is applied to the sound. Try out the Modulation wheel with various Preset Voices while playing the keyboard.



#### Knobs

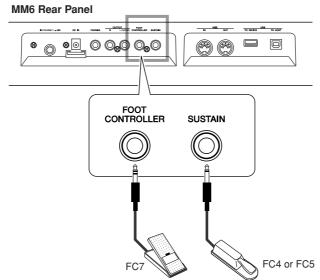
You can change the brightness and tonal characteristics of the current Main Voice and Dual Voice in real time by turning the knobs while you play.

Turn a knob to the right to increase the value, and left to decrease it.



CUTOFF	Raises or lowers the filter cutoff frequency to adjust the brilliance of the tone.
RESONANCE	Adjusts the peak level around the cutoff frequency.
ATTACK	Determines the attack time of the sound. For example, you can adjust a strings voice so that the sound gradually swells in volume by setting a slow attack time simply turn this knob to the right.
RELEASE	Determines the release time of the sound. Turning the knob to the right increases the release time and (depending on the voice) lets the sound sustain after the key is released. To produce a sharp release, in which the sound abruptly cuts off, set a short release time.

## **External Controllers**



### ■Footswitch • •

An optional FC4 or FC5 Footswitch connected to the SUSTAIN jack on the rear panel lets you control sustain. For example, you can turn sustain on or off with your foot while playing with both hands.

NOTE • Sustain can be applied only to the main and dual voices.

## ■Foot Controller .....

You can connect an optional Foot Controller (FC7) to the FOOT CONTROLLER jack on the rear panel. The ability to control volume with your foot can be an advantage during live performance.

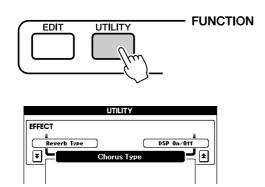


### **Selecting a Reverb type**

Reverb lets you play with concert hall type ambience.

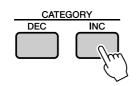
When you select a pattern or song the optimum reverb type for the voice used is automatically selected. If you want to select a different reverb type, use the procedure described below.

## Press the [UTILITY] button to go to the UTILITY display.

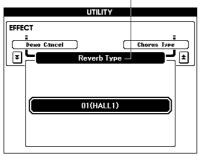


## **2** Use the CATEGORY [DEC]/ [INC] buttons to select the Reverb Type item.

The currently selected reverb type will be displayed.

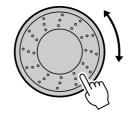


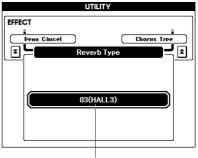
Reverb Type Item



### **3** Use the dial to select a reverb type.

You can check how the selected reverb type sounds by playing on the keyboard.





The Selected Reverb Type

Refer to the Effect Type List on page 98 for information about the available reverb types.

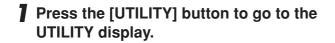
#### • Adjusting the Reverb Send Level

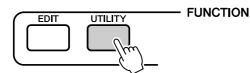
You can individually adjust the amount of reverb that is applied to the main, dual, and split voices. (page 63)

## **Selecting a Chorus type**

The chorus effect creates a thick sound that is somewhat like a number of similar voices being played in unison.

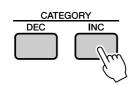
When you select a pattern or song the optimum chorus type for the voice used is automatically selected. If you want to select a different chorus type, use the procedure described below.



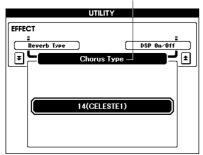


### 2 Use the CATEGORY [DEC] / [INC] buttons to select the Chorus Type item.

The currently selected chorus type will be displayed.

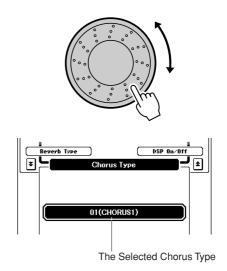






### **3** Use the dial to select a chorus type.

You can check how the selected chorus type sounds by playing on the keyboard.



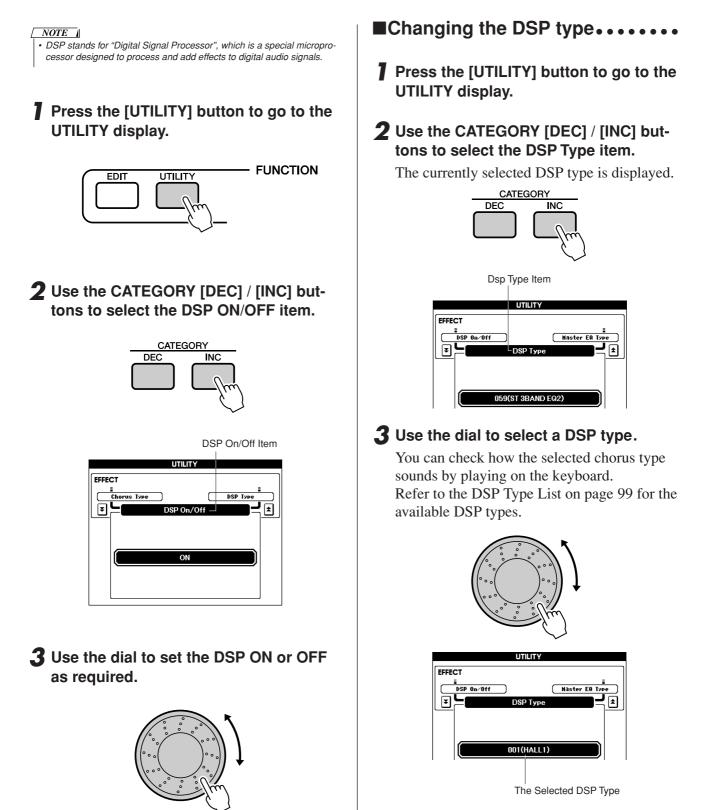
Refer to the Effect Type List on page 98 for information about the available chorus types.

#### • Adjusting the Chorus Send Level

You can individually adjust the amount of chorus that is applied to the main, dual, and split voices. (page 63)

## **Applying DSP Effects**

These effects can be used to add depth and richness to voices played on the keyboard (main, dual, and split voices).



Press the [INC/YES] and [DEC/NO] buttons simultaneously to recall the initial default value.



### **Using the Metronome**

The instrument includes a metronome with adjustable tempo and time signature. Use it to set the tempo that is most comfortable for you and the music you are playing.

### ■Start the metronome.....

## Start the metronome by pressing the [METRONOME] button.

To stop the metronome, press the [METRO-NOME] button again.

# METRONOME

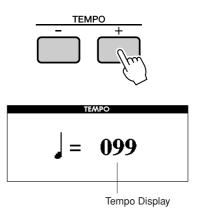
The Beat of the Current Measure

_				_		
			MAIN			
TRANSP	OSE 🚺		OCTAVE	0		USB
TEMPO	J=098	4/4 🕻	MEASURE	1	5	CONNECT
VOICE	] <sup>MAIN</sup>	Po	wer C	irar	nd	
	DUAL					
	SPLIT					
PATTERN	HipHop	Sou	ıthernRa	p1		
PATTERN	) HieHoe ) ***	Sou 	ıthernRa	р1		
-		Sou 	ıthernRa	p1		

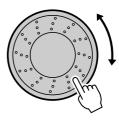
## Adjusting the Metronome Tempo

Here's how you can adjust the tempo of the metronome sound.

Press the TEMPO [+] button to increase the tempo value by 1, or the TEMPO [-] button to decrease the tempo by 1.



**2** Use the dial to select a tempo from 11 to 280.



Press the [EXIT] button to return to the original display.

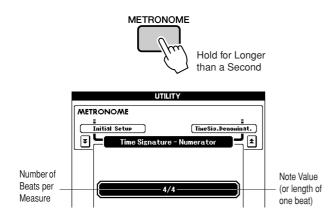
Press the TEMPO [+] or [-] button as many times as necessary to set the desired tempo. You can also hold either of the TEMPO buttons to continuously change the tempo value over large ranges.

### Setting the Number of Beats per Measure, and the Length of Each Beat

In this example we'll set up a 3/8 time signature.

#### Press and hold the [METRONOME] button for longer than a second.

The metronome time signature and length of each beat will be shown on the display.



## **2** Use the dial to select the number of beats per measure.

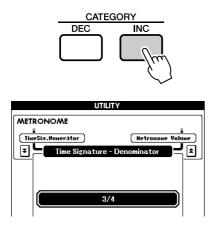
A chime will sound on the first beat of each measure while the other beats will click. All beats will simply click with no chime at the beginning of each measure if you set this parameter to "00".

The available range is from 0 through 60. Select 3 for this example.

#### NOTE

 The metronome time signature will synchronize to a pattern or song that is playing, so these parameters cannot be changed while a pattern or song is playing.

## **3** Press the category [INC] button once to display "Time Signature – Denominator".



### **4** Use the dial to select a beat length.

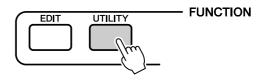
Select the required length for each beat: 2,4,8 or 16 (half note, quarter note, eight note, or 16th note). For this example, select 8. The time signature should now be set to 3/8.

METRONOME	
TimeSia.Numerator	I Metronowe Volume
Time Sig	nature - Denominator
	3/8

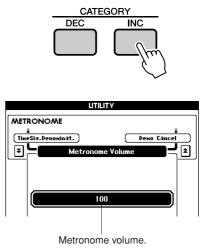
Press the [METRONOME] button to confirm the settings.

## Adjusting the Metronome Volume

Press the [UTILITY] button to go to the UTILITY display.



**2** Press the [DEC] / [INC] category button until the "Metronome Volume" item appears on the display.



**3** Use the dial to set the metronome volume as required.

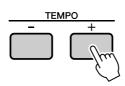
## **Adjusting the Tempo**

If a song or pattern seems to be too fast or slow, try changing the tempo.

Press the TEMPO [+] or [-] button.

The "Tempo" parameter will appear in the display.

Use the TEMPO [+] and [-] buttons to set the tempo to anywhere from 11 through 280 beats per minute.



You can return to the original tempo by simultaneously pressing the [+] and [-] buttons.

## **Using the TAP TEMPO Button**

For songs in 4/4 time tap the [TAP TEMPO] button four times, or for 3/4 songs tap it 3 times at the desired tempo to automatically set the playback tempo accordingly.

Tap slowly to reduce the tempo, or quickly to increase the tempo. You only need to tap twice to set the tempo during song playback.



## **Setting the Touch Response**

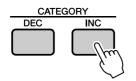
When touch response is on you can adjust the keyboard's sensitivity to dynamics in four steps.

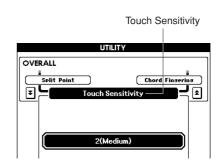
Press the [UTILITY] button to go to the UTILITY display.



### 2 Use the CATEGORY [DEC] / [INC] buttons to select the Touch Sensitivity item.

The currently selected touch sensitivity is displayed.





## **3** Use the dial to select a touch sensitivity setting between 1 and 4.

Higher values produce greater (easier) volume variation in response to keyboard dynamics i.e. greater sensitivity.

When touch sensitivity is set to 4 (Off), all notes will be played at the same volume no matter how hard or softly you play the keys.

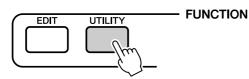
NOTE 
• The initial default touch sensitivity setting is "2".

## Select a Master EQ Setting for the Best Sound

Five different Master EQ settings are provided, giving you the best possible sound in a range of different situations—when listening with headphones, for example.

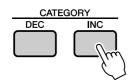
## Press the [UTILITY] button to go to the UTILITY display.

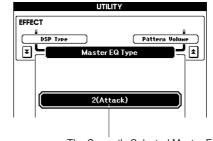
The currently selected function will appear in the display.



2 Use the CATEGORY [DEC] / [INC] buttons to select the Master EQ Type item.

The currently selected EQ type will appear.





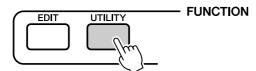
```
The Currently Selected Master EQ Type
```

## **3** Use the dial to select the desired Master EQ setting.

Five settings are available:1 through 5. Settings are provided that boost the lows, reduce the frequency range for special effects, and more.

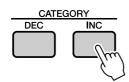
## **Controlling Arpeggio Volume with Keyboard Dynamics**

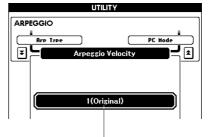
Press the [UTILITY] button to go to the UTILITY display.



### 2 Use the CATEGORY [DEC] / [INC] buttons to select the Arpeggio Velocity item.

The currently selected arpeggio velocity is displayed.





The Currently Selected Arpeggio Velocity

**3** Use the dial to set the velocity as required.

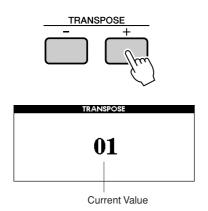
Original .. The selected velocity is used for playback of each arpeggio type. Thru...... The actual keyboard velocity is used.

## **Transpose the Keyboard**

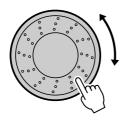
 Pitch Changes in Semitone Increments (Transpose)

The overall pitch of the instrument can be shifted up or down by a maximum of one octave in semitone increments.

Press one of the TRANSPOSE [+] / [-] buttons. The value is shown in the display, indicating the amount of transposition over or below the normal value.



## **2** Use the dial to set the transpose value between -12 and +12 as required.



**NOTE**• This setting does not affect Drum Kit Voices.

Press the [EXIT] button to return to the MAIN display.

Pressing the TRANSPOSE [+] / [-] buttons briefly allows single-step changes.

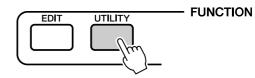
Pressing and holding either TRANPOSE [+] / [-] button continuously increases or decreases the value.

#### NOTE | Press either the [INC/YES] and [DEC/NO] buttons or TRANSPOSE [+] and [-] buttons simultaneously to recall the initial default value.

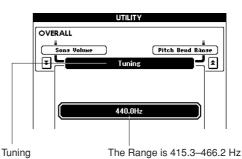
### Fine Pitch Changes (Tuning)

The overall tuning of the instrument can by shifted up or down by a maximum of 1 semitone in approximately 0.2-Hz steps. The default setting is 440Hz.

Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] / [INC] buttons to select the Tuning item.



**3** Use the dial to set the tuning value between 415.3 and 466.2Hz as required.

#### NOTE

• This setting does not affect Drum Kit Voices.

#### NOTE

 Press the [INC/YES][DEC/NO] buttons simultaneously to instantly reset to the default setting.

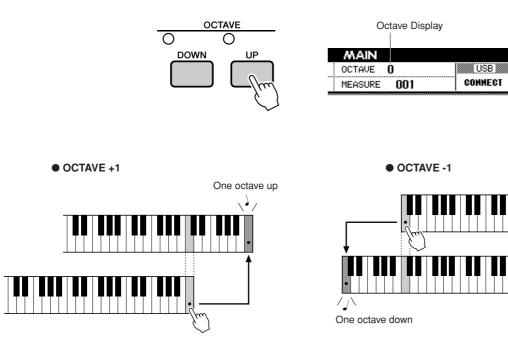
## **Shifting Keyboard Pitch in Octaves**

Sometimes you may wish to play in a lower or higher pitch range. For example, you may want to shift the pitch down to get extra bass notes, or up to get higher notes for leads and solos. The OCTAVE [UP] / [DOWN] buttons let you do this quickly and easily.

Each time you press the OCTAVE [UP] button on the panel, the overall pitch of the voice goes up by one octave. Press the OCTAVE [DOWN] button to shift the keyboard pitch down one octave. The range is from -1 to +1, with 0 being standard pitch.

When the octave is shifted up the OCTAVE [UP] button indicator lights, and when shifted down the OCTAVE [DOWN] button indicator lights.

You can instantly restore standard pitch (0) by simultaneously pressing both the OCTAVE [UP] and [DOWN] buttons (both indicators go out).



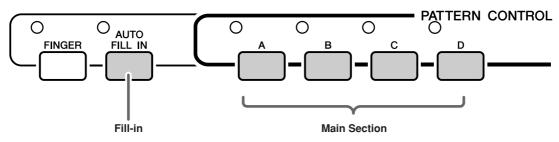
#### NOTE

• When a Drum Kit is selected, the percussion voices assigned to the keyboard are shifted in location but not pitch.

Basic operation of the Pattern (auto-accompaniment) feature is described on page 22. Here are some other ways you can play the patterns, pattern volume adjustment procedure, how you can play chords using the patterns, and more.

## **Pattern Variations (Sections)**

To provide some variation for pattern playback, each pattern includes a number of "sections" that can be selected and played as required.



#### Main sections A–D

These are the main accompaniment patterns that repeat indefinitely until another section is selected.

When the [FINGER] button is engaged the pattern will play back with chords determined by what you play with the left hand.

### • Fill Ins (AUTO FILL IN)

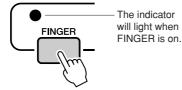
Press the [AUTO FILL IN] button to turn the automatic fill-in function on. When this function is on fill-ins will automatically be added to the pattern rhythm part when the main sections are switched.

Even when the automatic fill in function is off you can add a fill-in at any time by simply pressing a main section button while that same section is playing.

## Select the desired pattern. (See page 22)

### **2** Turn the pattern on.

Press the [FINGER] button. The indicator to the upper left of the button will light.



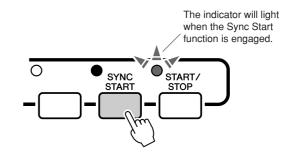
## **3** Turn AUTO FILL IN on.

Press the [AUTO FILL IN] button.



The indicator will light when the AUTO FILL IN is on.

**4** Press the [SYNC START] button to turn Sync Start on.

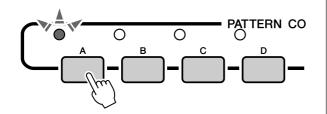


#### Sync Start

When the Sync Start standby mode is engaged, pattern playback will begin as soon as you play a chord in the accompaniment range of the keyboard.

#### **5** Press a main section button: [A]–[D].

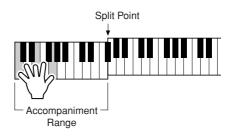
The indicator to the upper left of the active main section button will light.



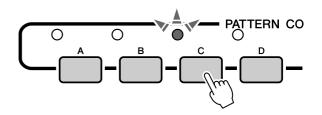
# **6** The main section of the selected pattern will start as soon as you play a chord with your left hand.

For this example, play a C major chord (as shown below).

For information on how to enter chords, see "Playing Auto-accompaniment Chords" on page 25.



Press any of the main section buttons, [A]–[D], as required.

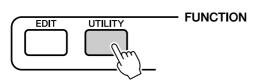


A fill-in will play, leading smoothly to the selected main section.

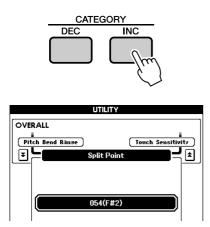
### **Setting the Split Point**

The initial default split point is key number 54 (the F#2 key), but you can change it to another key using the procedure described below.

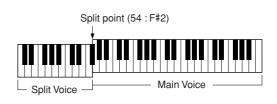
Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] / [INC] buttons to select the Split Point item.



**3** Use the dial to set the split point to any key from 000 (C-2) through 127 (G8).



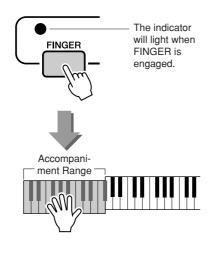
NOTE

- When you change the split point the auto-accompaniment split point also changes.
- The split voice sounds when the split-point key is played.

## Play a Pattern with Chords but No Rhythm (Stop Accompaniment)

After pressing the [FINGER] button to turn auto-accompaniment on, you can play in the left-hand (accompaniment) area of the keyboard to produce chords without rhythm accompaniment. This is "Stop Accompaniment", and any of the chord fingerings recognized by the instrument can be used. The MM6 recognizes keys played in the auto accompaniment section of the keyboard as chords (page 25).

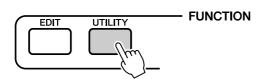
### Select a pattern (page 22) and engage the pattern mode, then press the [FINGER] button to turn the FINGER mode on.



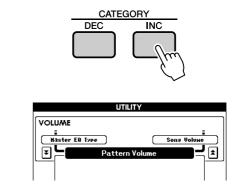
## **Pattern Volume Adjustment**

Select a pattern (page 22) and engage the pattern mode.

Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] / [INC] buttons to select the Pattern Volume item.



**3** Use the dial to set the pattern volume between 000 and 127.

### **Chord Basics**

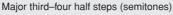
Two or more notes played together constitute a "chord".

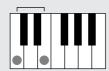
The most basic chord type is the "triad" consisting of three notes: the root, third, and fifth degrees of the corresponding scale. A C major triad, for example, is made up of the notes C (the root), E (the third note of the C major scale), and G (the fifth note of the C major scale).



In the C major triad shown above, the lowest note is the "root" of the

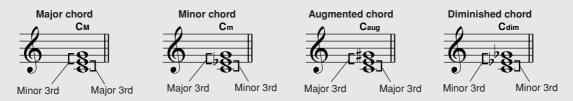
chord (this is the chord's "root position" ... using other chord notes for the lowest note results in "inversions"). The root is the central sound of the chord, which supports and anchors the other chord notes. The distance (interval) between adjacent notes of a triad in root position is either a major or minor third.





Minor third-three half steps (semitones)

The lowest interval in our root-position triad (between the root and the third) determines whether the triad is a major or minor chord, and we can shift the highest note up or down by a semitone to produce two additional chords, as shown below.



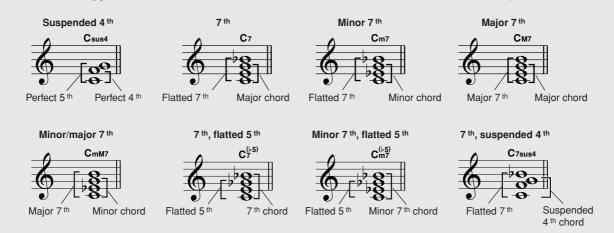
The basic characteristics of the chord sound remain intact even if we change the order of the notes to create different inversions. Successive chords in a chord progression can be smoothly connected, for example, by choosing the appropriate inversions (or chord "voicings").

#### Reading Chord Names

Chord names tell you just about everything you need to know about a chord (other than the inversion/voicing). The chord name tells you what the root of the chord is, whether it is a major, minor, or diminished chord, whether it requires a major or flatted seventh, what alterations or tensions it uses ... all at a glance.



• Some Chord Types (These are just some of the "Standard" chord types recognized by the MM6.)



### Recognized Standard Chords

All chords in the chart are	"C-root" chords.
-----------------------------	------------------

Chord Name/[Abbreviation]	Normal Voicing	Chord (C)	Display
Major [M]	1 - 3 - 5	С	С
Add ninth [(9)]	1 - 2 - 3 - 5	C <sup>(9)</sup>	Cadd9
Sixth [6]	1 - (3) - 5 - 6	C <sub>6</sub>	C6
Sixth ninth [6(9)]	1 - 2 - 3 - (5) - 6	C <sub>6</sub> <sup>(9)</sup>	C6 <sup>9</sup>
Major seventh [M7]	1 - 3 - (5) - 7	См7	См7
Major seventh ninth [M7(9)]	1 - 2 - 3 - (5) - 7	C <sup>(9)</sup> CM7	См7 <sup>9</sup>
Major seventh add sharp eleventh [M7(#11)]	1 - (2) - 3 - #4 - 5 - 7 or 1 - 2 - 3 - #4 - (5) - 7	C <sup>(#11)</sup>	CM7 <sup>#11</sup>
Flatted fifth [(\.5)]	1 - 3 - 15	C <sup>(5)</sup>	C <sup>♭5</sup>
Major seventh flatted fifth [M7 <sup>b</sup> 5]	1 - 3 - 15 - 7	С <sup>(ь5)</sup>	См7 <sup>♭5</sup>
Suspended fourth [sus4]	1 - 4 - 5	Csus4	Csus4
Augmented [aug]	1 - 3 - #5	Caug	Caug
Major seventh augmented [M7aug]	1 - (3) - #5 - 7	CM7aug	CM7aug
Minor [m]	1 - \\$3 - 5	Cm	Cm
Minor add ninth [m(9)]	1 - 2 - \\$3 - 5	C <sup>(9)</sup>	Cm add9
Minor sixth [m6]	1 - \>3 - 5 - 6	Cm6	Cm6
Minor seventh [m7]	1 - \\$3 - (5) - \\$7	Cm7	Cm7
Minor seventh ninth [m7(9)]	1 - 2 - \\$3 - (5) - \\$7	C <sup>(9)</sup> C <sup>m7</sup>	Cm7 <sup>9</sup>
Minor seventh add eleventh [m7(11)]	1 - (2) - \\$3 - 4 - 5 - (\\$7)	C <sup>(11)</sup> C <sup>m7</sup>	Cm7 <sup>11</sup>
Minor major seventh [mM7]	1 - 13 - (5) - 7	CmM7	CmM7
Minor major seventh ninth [mM7(9)]	1 - 2 - 13 - (5) - 7	(9) CmM7	CmM7 <sup>9</sup>
Minor seventh flatted fifth [m7b5]	1 - \\$3 - \\$5 - \\$7	C <sup>(b5)</sup> m7	Cm7 <sup>♭5</sup>
Minor major seventh flatted fifth [mM7b5]	1 - \\$3 - \\$5 - 7	CmM7	CmM7 <sup>♭5</sup>
Diminished [dim]	1 - \\$3 - \\$5	Cdim	Cdim
Diminished seventh [dim7]	1 - \\$3 - \\$5 - 6	Cdim7	Cdim7
Seventh [7]	1 - 3 - (5) - ♭7 or 1 - (3) - 5 - ♭7	C7	C7
Seventh flatted ninth [7(b9)]	1 - 62 - 3 - (5) - 67	C <sup>(b9)</sup>	C7 <sup>♭9</sup>
Seventh add flatted thirteenth [7(13)]	1 - 3 - 5 - 6 - 7	C7 <sup>(b13)</sup>	C7 <sup>♭13</sup>
Seventh ninth [7(9)]	1 - 2 - 3 - (5) - ♭7	C <sup>(9)</sup>	C7 <sup>9</sup>
Seventh add sharp eleventh [7(#11)]	1 - (2) - 3 - #4 - 5 - ♭7 or 1 - 2 - 3 - #4 - (5) - ♭7	C <sup>(#11)</sup>	C7 <sup>#11</sup>
Seventh add thirteenth [7(13)]	1 - 3 - (5) - 6 - \>7	C7 <sup>(13)</sup>	C7 <sup>13</sup>
Seventh sharp ninth [7(#9)]	1 - #2 - 3 - (5) - ♭7	C <sup>(#9)</sup>	C7 <sup>#9</sup>
Seventh flatted fifth [7 <sup>b</sup> 5]	1 - 3 - \>5 - \>7	C7⊌5	C7 <sup>♭5</sup>
Seventh augmented [7aug]	1 - 3 - #5 - ♭7	C7aug	C7aug
Seventh suspended fourth [7sus4]	1 - 4 - (5) - Þ7	C7sus4	C7sus4
Suspended second [sus2]	1 - 2 - 5	Csus2	Csus2

#### 

• Notes in parentheses can be omitted.

- Playing two same root keys in the adjacent octaves produces accompaniment based only on the root.
- A perfect fifth (1 + 5) produces accompaniment based only on the root and fifth which can be used with both major and minor chords.
- The chord fingerings listed are all in "root" position, but other inversions can be used—with the following exceptions: m7, m7<sup>1</sup>/<sub>5</sub>, 6, m6, sus4, aug, dim7, 7<sup>1</sup>/<sub>5</sub>, 6(9), sus2.

#### 

- Inversion of the 7sus4 and m7(11) chords are not recognized if the notes shown in parentheses are omitted.
- The auto accompaniment will sometimes not change when related chords are played in sequence (e.g. some minor chords followed by the minor seventh).
- Two-note fingerings will produce a chord based on the previously played chord.
- Some chords may not be recognized depending on the selected pattern.

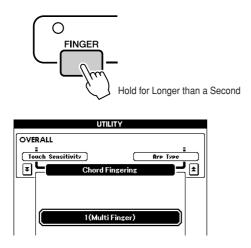
## **Specify Chords Over the Entire Keyboard Range**

In "Play Along with a Pattern" on page 23 we described two methods of playing Patterns (Multi, Full Keyboard) in which chords were either detected only to the left of the keyboard split point or over the entire keyboard.

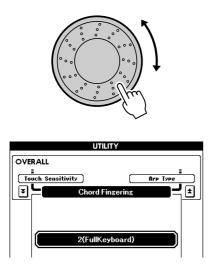
By making the settings described below, chord detection for pattern accompaniment occurs over the entire range of the keyboard. Since you can also play normally over the entire keyboard range at the same time, this capability makes it possible to create complex and interesting performances.

In this mode only chords played in the normal way (page 25) can be detected.

Press and hold the [FINGER] button for longer than a second so that the Chord Fingering item appears.



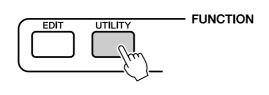
**2** Use the dial to select 2 (FullKeyboard).



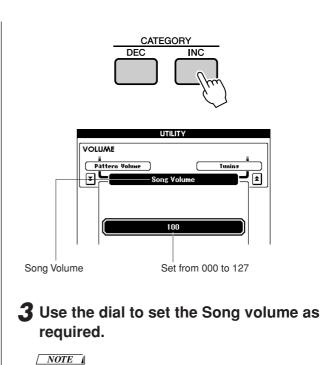


## **Song Volume**

Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] / [INC] buttons to select the Song Volume item.

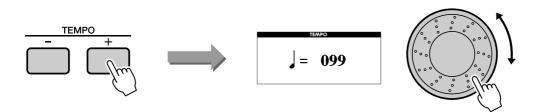


• Song volume can be adjusted while a song is selected.

## **Change the Song Tempo**

You can change the song playback tempo as required.

Press the TEMPO [+] or [-] button. The tempo display will appear and you can use the dial or the TEMPO [+] / [-] buttons to set to tempo to anywhere from 011 and 280 quarter-note beats per minute.



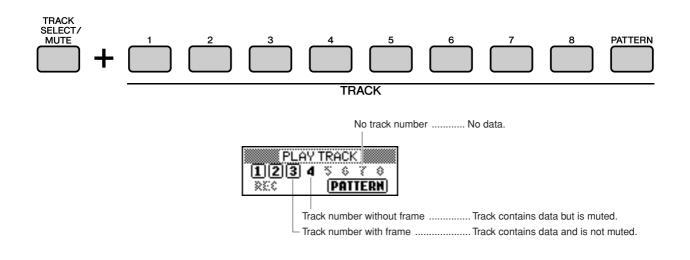
You can return to the original tempo by simultaneously pressing the [+] and [-] buttons. Press the [EXIT] button when you have finished making the required settings. Pressing and holding either button continuously increases or decreases the tempo.

## **Track Mute**

Each "track" plays a different part of the song—melody, percussion, accompaniment, etc. You can mute individual tracks and play the muted part on the keyboard yourself, or simply mute tracks other than the ones you want to listen to.

## To mute a track, press the appropriate track button (TRACK [1]–[8], [PATTERN]) while holding the [TRACK SELECT/MUTE] button.

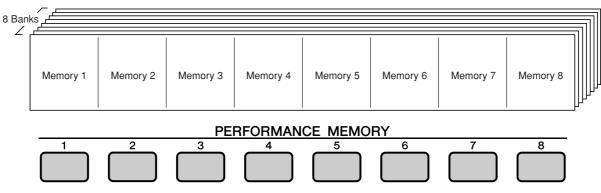
Press the same button a second time to disengage track muting.





## This instrument has a PERFORMANCE MEMORY feature that lets you save up to 64 of your favorite settings for easy recall whenever they're needed.

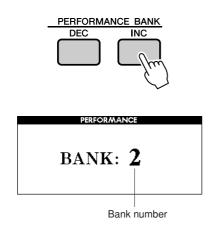




## **Saving to the Performance Memory**

- Set the panel controls as required select a voice, pattern, etc.
- **2** Press the PERFORMANCE BANK [INC] / [DEC] buttons until the desired bank number is shown on the display.

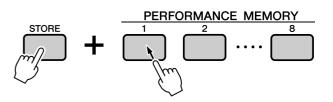
You can also use the dial in the PERFOR-MANCE BANK display.



#### NOTE

 Data cannot be saved to the performance memory during song playback. **3** Press the PERFORMANCE MEMORY [1]–[8] button while holding down the [STORE] button.

This saves the current panel settings in the instrument's memory.



#### NOTE

You can also save panel settings that have been saved to the Performance Memory to a USB storage device as a user file (see page 69).

#### NOTE

• If you save to a Performance Memory number that already contains data, the previous data is deleted and overwritten by the new data.

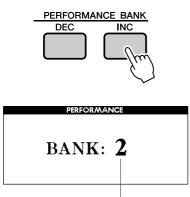
#### 

- Do not turn off the power while saving settings to the Perfor-
- mance Memory, otherwise the data may be damaged or lost.

## **Recalling Settings from the Performance Memory**

Press the PERFORMANCE BANK [INC] / [DEC] buttons until the desired bank number is shown on the display.

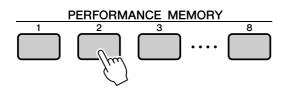
You can also use the dial in the PERFOR-MANCE BANK display.



Bank number

# **2** Press the PERFORMANCE MEMORY button, [1]–[8], containing the settings you want to recall.

The panel controls will be instantly set accordingly.



#### Settings That Can be Saved to the Performance Memory

#### Pattern settings

Pattern number, FINGER ON/OFF, Split Point, Pattern settings (Main A/B/C/D), Pattern volume, Tempo, Chord Fingering, Sync Start ON/OFF

#### Voice settings

#### Main Voice setting

Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level, DSP Send Level, DRY Level, Attack Time, Release Time, Filter Cutoff, Filter resonance

#### **Dual Voice setting**

Dual ON/OFF, Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level, DSP Send Level, DRY Level, Attack Time, Release Time, Filter Cutoff, Filter resonance

#### **Split Voice setting**

Split ON/OFF, Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level, DSP Send Level, DRY Level

#### Effect settings

Reverb Type, Chorus Type, DSP ON/OFF, DSP Type

#### · Other settings

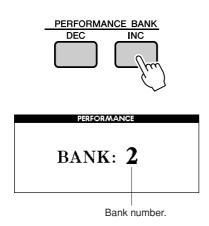
Transpose, Pitch Bend Range, Arpeggio ON/ OFF, Arpeggio Type, Octave

## **Erase a Performance Memory**

This procedure erases the panel settings saved in a performance memory.

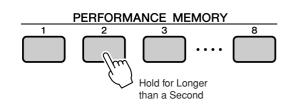
The PERFORMANCE BANK display will appear when you press the PERFOR-MANCE BANK [INC] or [DEC] button. Use the PERFORMANCE BANK [INC] and [DEC] buttons to select the bank containing the performance memory you want to erase.

While the PERFORMANCE BANK display is showing you can also use the dial to select a bank.



#### **2** Press and hold the PERFORMANCE MEMORY button ([1]–[8]) corresponding to the Performance you want to clear for longer than a second.

A confirmation message will appear on the display.



## **3** Press the [INC/YES] button.

A confirmation message will appear on the display.

Press [DEC/NO] if you want to cancel the operation.

# **4** To execute the Performance Memory erase function press the [INC/YES] button.

The clear-in-progress message will appear briefly on the display while the data is being erased.

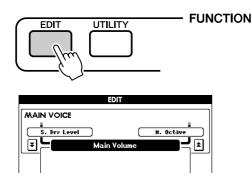
## Voice Editing

Create original voices by editing the many available voice parameters. By editing the various parameters available you can create new voices that best suit your musical needs.

## **Select and Edit an Item**

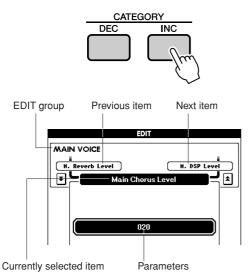
There are 21 editable parameters.

- Find the function you want to set in the EDIT display list that begins on page 63.
- **2** Press the [EDIT] button to enter the EDIT display.



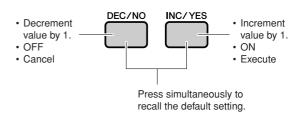
#### **3** Each time the CATEGORY [INC] / [DEC] buttons are pressed the 21 available items are selected in sequence. Select the item you want to edit.

Refer to the function settings list on page 63 for information on the items that can be edited. The previous item will be displayed in the upper left area of the display, while the next item will be displayed in upper right area of the display.



## **4** Use the dial or [DEC/NO] and [INC/YES] buttons to set the value.

On/off type settings can be turned ON by pressing the [INC/YES] button, and OFF by pressing the [DEC/NO] button. In some cases the [INC/YES] button will initiate execution of the selected function, and the [DEC/NO] will cancel the selection. Press the [INC/YES][DEC/NO] buttons simultaneously to instantly reset to the default setting.



Edited parameters are memorized as soon as they are edited.

To restore all initial factory default settings perform the "Backup Clear" procedure described in the "Initialization" section on page 35.

#### Edit Display List

Group	Function Item	Display Indication	Range/Settings	Description
MAIN VOICE	Volume	Main Volume	000–127	Determines the volume of the Main Voice.
	Octave	Main Octave	-2–2	Determines the octave of the Main Voice in octave increments.
	Pan	Main Pan	000 (left)– 064 (center)– 127 (right)	Determines the pan position of the Main Voice. "0" results in the sound being panned full left; "127" results in the sound being panned full right.
	Reverb Level	Main Reverb Level	000–127	Determines how much of the Main Voice signal is sent to the Reverb effect.
	Chorus Level	Main Chorus Level	000–127	Determines how much of the Main Voice signal is sent to the Chorus effect.
	DSP Level	Main DSP Level	000–127	Determines how much of the Main Voice signal is sent to the DSP effect.
	Dry Level	Main Dry Level	000–127	Determines how much of the unprocessed Main Voice signal is heard (without Reverb, Chorus or DSP effect processing).
DUAL VOICE	Volume	Dual Volume	000–127	Determines the volume of the Dual Voice.
	Octave	Dual Octave	-2–2	Determines the octave range for the Dual Voice in octave increments.
	Pan	Dual Pan	000 (left)– 064 (center)– 127 (right)	Determines the pan position of the Dual Voice. "0" results in the sound being panned full left; "127" results in the sound being panned full right.
	Reverb Level	Dual Reverb Level	000–127	Determines how much of the Dual Voice signal is sent to the Reverb effect.
	Chorus Level	Dual Chorus Level	000–127	Determines how much of the Dual Voice signal is sent to the Chorus effect.
	DSP Level	Dual DSP Level	000–127	Determines how much of the Dual Voice signal is sent to the DSP effect.
	Dry Level	Dual Dry Level	000–127	Determines how much of the unprocessed Dual Voice signal is heard (without Reverb, Chorus or DSP effect processing).
SPLIT VOICE	Volume	Split Volume	000–127	Determines the volume of the Split Voice.
	Octave	Split Octave	-2–2	Determines the octave range of the Split Voice in octave increments.
	Pan	Split Pan	000 (left)– 064 (center)– 127 (right)	Determines the pan position of the Split Voice. "0" results in the sound being panned full left; "127" results in the sound being panned full right.
	Reverb Level	Split Reverb Level	000–127	Determines how much of the Split Voice signal is sent to the Reverb effect.
	Chorus Level	Split Chorus Level	000–127	Determines how much of the Split Voice signal is sent to the Chorus effect.
	DSP Level	Split DSP Level	000–127	Determines how much of the Split Voice signal is sent to the DSP effect.
	Dry Level	Split Dry Level	000–127	Determines how much of the unprocessed Split Voice signal is heard (without Reverb, Chorus or DSP effect processing).

\* Press the [INC/YES][DEC/NO] buttons simultaneously to instantly reset to the default settings.

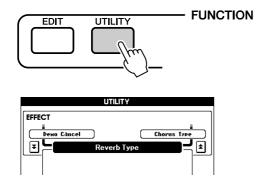


Detailed settings such as tuning, split point, and effects can be made via the UTILITY screen.

## **Selecting and Setting Functions**

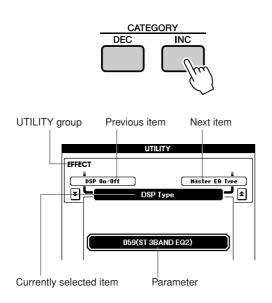
There are 25 function parameters in all.

- Find the function you want to set in the UTILITY display list that begins on page 65.
- **2** Press the [UTILITY] button to go to the UTILITY display.



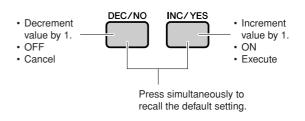
# **3** Press the CATEGORY [DEC] and [INC] buttons as many times as necessary until the function's display name appears in the display.

Refer to the function list on page 65. The name of the previous item in the list appears to the upper left, and the name of the next item in the list appears to the upper right of the currently selected item.



## **4** Use the dial or [DEC/NO] and [INC/YES] buttons to set the value.

On/off type settings can be turned ON by pressing the [INC/YES] button, and OFF by pressing the [DEC/NO] button. In some cases the [INC/YES] button will initiate execution of the selected function, and the [DEC/NO] will cancel the selection. Press the [INC/YES][DEC/NO] buttons simultaneously to instantly reset to the default settings (except for initial MIDI setup).



Utility settings are memorized as soon as they are changed.

To restore all initial factory default settings perform the "Backup Clear" procedure described in the "Initialization" section on page 35.

## Utility Display List

Group	Function Item	<b>Display Indication</b>	Range/Settings	Description
EFFECT	Reverb Type	Reverb Type	01–26	Determines the Reverb type, "26" is "off". (See the list on page 98)
	Chorus Type	Chorus Type	01–31	Determines the Chorus type. "31" is "off". (See the list on page 98)
	DSP On/Off	DSP On/Off	ON/OFF	Sets the equalizer applied to the instrument output (including headphones or other output) for optimum sound in different listening situations.
	DSP Type	DSP Type	001–190	Determines the DSP type. "190" is "off". (See the list on page 99).
	Master EQ Type	Master EQ Type	1 (Flat), 2 (Attack), 3 (Hard), 4 (Retro), 5 (HighPass)	Selects the Master EQ type. Use this feature to boost the bass, reduce the reproduction range for special effects, and more.
VOLUME	Pattern Volume	Pattern Volume	000–127	Determines the volume of pattern playback.
	Song Volume	Song Volume	000–127	Determines the volume of song playback.
OVERALL	Tuning	Tuning	415.3–466.2 Hz	Sets the pitch of the instrument's sound in approximately 0.2 Hertz increments.
	Pitch Bend Range	Pitch Bend Range	01–12	Sets the pitch bend range in semitone increments.
	Split Point	Split Point	000–127(C-2–G8)	Determines the highest key for the Split voice and sets the Split "point"—in other words, the key that separates the Split (lower) and Main (upper) voices. The Split Point and Accompaniment Split Point set- tings are automatically set to the same value.
	Touch Sensitivity	Touch Sensitivity	1 (Soft), 2 (Medium), 3 (Hard), 4 (off)	Determines the sensitivity of the feature.
	Chord Fingering	Chord Fingering	1 (Multi Finger), 2 (FullKeyboard)	Sets the chord detection mode. In the Multi Finger mode both normal chords and simple chords played to the left of the split point are detected. In the Full keyboard mode normal chords played anywhere on the keyboard will be detected, and notes played normally will sound as well.
ARPEGGIO	Arpeggio Type	Arpeggio Type	01–150	Selects the arpeggio type. Refer to the arpeggio list on page 102.
	Arpeggio Velocity	Arpeggio Velocity	1 (Original), 2 (Thru)	Sets the arpeggio volume.
PC MODE	PC Mode	PC Mode	ON/OFF	Optimizes the MIDI settings for connecting to a computer (page 79).
MIDI	Local On/Off	Local	ON/OFF	Local control determines whether or not notes played on the instrument are sounded by its internal tone generator system: the internal tone generator is active when local control is on, and inactive when local control is off. (page 78)
	External Clock On/Off	External Clock	ON/OFF	These settings determine whether the instrument is synchronized to its own internal clock (OFF), or to a clock signal from an external device (ON). (page 78)
	Keyboard Out	Keyboard Out	ON/OFF	These settings determine whether keyboard perfor- mance data is transmitted via the MIDI output (ON) or not (OFF).
	Pattern Out	Pattern Out	ON/OFF	Determines whether pattern data will be output via the MIDI output (ON) or not (OFF) during pattern playback.
	Song Out	Song Out	ON/OFF	Determines whether song data will be output via the MIDI output (ON) or not (OFF) during song playback.
	Initial Setup	Initial Setup	YES/NO	Sends the instrument's panel data to a computer. Press [INC/YES] to send, or press [DEC/NO] to can- cel.
METRONOME	Time Signature – Numerator	Time Signature – Numerator	00–60	Determines the time signature of the metronome.
	Time Signature – Denominator	Time Signature – Denominator	2, 4, 8,16	Sets the length of each metronome beat.
	Volume	Metronome Vol- ume	000–127	Determines the volume of the metronome.
UTILITY	Demo Cancel	Demo Cancel	ON/OFF	When ON, demo playback will not start even if the [SONG] and [PATTERN] buttons are pressed simultaneously.
				incouciy.

\* Press the [INC/YES][DEC/NO] buttons simultaneously to instantly recall the default settings (except for initial MIDI setup).



## Storing/Saving Data

In this section we'll look at the procedures for setting up and formatting USB storage devices, as well as for saving and loading data to and from them.

A USB storage device is a large-volume memory medium used for storing data. When a USB storage device is inserted in this instrument's USB TO DEVICE terminal, user songs created on the instruments and memorized settings can be saved to or loaded from the device.

A USB storage device can also be used to transfer song data downloaded from the Internet to the instrument.

If you don't have a USB storage device, you will need to purchase one (or more, as needed).

The instrument does not necessarily support all commercially available USB storage devices. Yamaha cannot guarantee operation of USB storage devices that you purchase. Before purchasing a USB storage device, please consult your Yamaha dealer, or an authorized Yamaha distributor (see list at end the Owner's Manual) for advice.

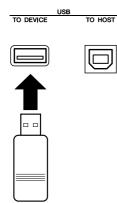
#### • To protect your data (write-protect switch)

Some USB storage devices are equipped with a write-protect switch.

To prevent accidental erasure of important data saved on a USB storage device, slide the write-protect switch on the device to the "protect" position. When saving data, make sure that the write-protect switch is set to the "overwrite" position.

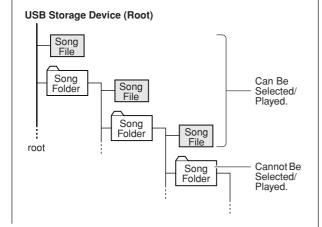
## **Using a USB Storage Device**

Connect a USB storage device to the USB TO DEVICE terminal, being careful to insert it in the proper direction.



#### IMPORTANT

 In order to play songs copied to a USB storage device from a computer or other device, the songs must be stored either in the USB storage device's root directory or a first-level/secondlevel folder in the root directory. Songs stored in these location can be selected and played as USB songs (page 26). Songs stored in third-level-folders created inside a second-level folder cannot be selected and played by this instrument.



2 Check that "CONNECT" is showing in the MAIN display.



You can go to the FILE CONTROL display from which you can access USB storage device operations by pressing the [MENU] button from this display.

(Do not press this button now, but only when instructed to in the section below.)

Menu	Page
Format	68
User File Save	69
SMF Save	70
Load	71
Delete	72

A message (information or confirmation dialog) will sometimes appears on the display to facilitate operation. Refer to the "Messages" section on page 83 for explanations of each message.

#### NOTE

 No sound will be produced if you play the keyboard while FILE CONTROL display is showing. Also, in this state only buttons related to file functions will be active.

#### NOTE

- The FILE CONTROL display will not appear in any of the following cases:
  - During pattern or song playback
  - While data is being loaded from a USB storage device

## Formatting a USB storage device

A new USB storage device must be formatted before it can be used by this instrument.

#### <u>A CAUTION</u>

 If you format a USB storage device that already contains data, all of the data will be erased. Be careful not to erase important data when using the format function.

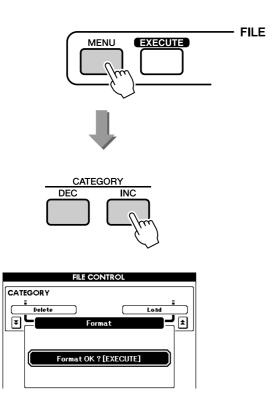
After connecting the USB storage device to be formatted to the instrument's USB TO DEVICE terminal, check that "CONNECT" is showing in the MAIN display.

#### **2** Press the [MENU] button.

A message will appear asking you to confirm the format operation.

#### NOTE

 If the Load item appears in step 2, press the CATEGORY [INC] / [DEC] buttons as many times as necessary until the Format item appears.



## **3** Press [EXECUTE] button and a confirmation message will appear.

You can press the [DEC/NO] button at this point to cancel the operation.

**4** Press the [EXECUTE] button again, or the [INC/YES] button, and the format operation will begin.

#### 

 Once the format-in-progress message appears on the display the format operation cannot be canceled. Never turn off the power or remove the USB storage device during this operation.

**5** A message will appear on the display when the operation is complete.

Press the [EXIT] button to return to the MAIN display.

#### NOTE

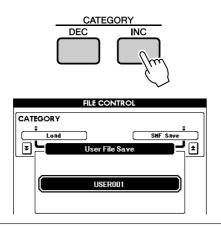
 If the USB storage device has been write-protected, an appropriate message will appear on the display and you will not be able to execute the operation.

## **Saving Data**

Three types of data are saved to one "User File" by this operation: user song, pattern file, and performance memory data.

- Make sure that a appropriately formatted USB storage device has been properly connected to the instrument's USB TO DEVICE terminal, and that "CON-NECT" is showing in the MAIN display.
- **2** Press the [MENU] button.
- **3** Use the CATEGORY [DEC] and [INC] buttons to locate the User File Save item.

A default file name will automatically be created.



#### • To Overwrite an Existing File

If you want to overwrite a file that already exists on the USB storage device, use the dial or the [INC/YES] and [DEC/NO] buttons to select the file, then skip ahead to step 6.

#### NOTE

- If the USB storage device has been write-protected, an appropriate message will appear on the display and you will not be able to execute the operation.
- If there is not enough capacity left on the USB storage device to save the data, an appropriate message will appear on the display and you will not be able to save the data. Erase unwanted files from the USB storage device to make more memory available (page 72), or use a different USB device.
- Refer to the "Messages" list on page 83 for other possible errors that might prevent you from completing the operation.

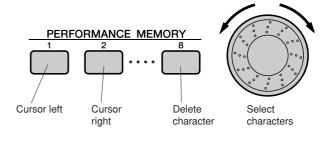
### **4** Press the [EXECUTE] button.

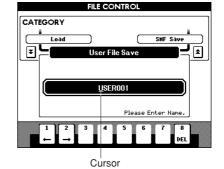
A cursor will appear below the first character in the file name.

#### **5** Change the file name as necessary.

- The [1] button moves the cursor to the left, and the [2] button moves it to the right.
- Use the dial to select a character for the current cursor location.

• The [8] button deletes the character at the cursor location.





## **6** Press the [EXECUTE] button.

A confirmation message will appear on the display. You can press the [DEC/NO] button at this point to cancel the operation.

#### Press the [EXECUTE] button again, or the [INC/YES] button, and the save operation will begin.

The user file will be stored to the USER FILES folder in the USB storage device.

#### **A**CAUTION

- Once the save-in-progress message appears in the display, the
- operation cannot be canceled. Never turn off the power or remove the USB storage device during this operation.

## **8** A message will appear on the display when the operation is complete.

Press the [EXIT] button to return to the MAIN display.

- If an existing filename is specified you will be prompted for confirmation. Press [EXECUTE] or [INC/YES] if it is OK to overwrite the file, or [DEC/NO] to cancel.
- The amount of time it will take to perform the save operation depends on the particular USB storage device you are using.

## **Convert a User Song to SMF Format and Save**

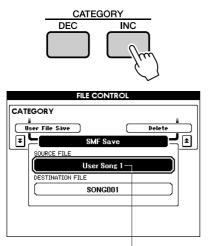
This operation converts a user song (song numbers 001–005) to SMF Format 0 and saves the file to a USB storage device.

#### • What is SMF (Standard MIDI File)?

The SMF (Standard MIDI File) format is one of the most common and widely compatible sequence formats used for storing sequence data. There are two variations: Format 0 and Format 1. A large number of MIDI devices are compatible with SMF Format 0, and most commercially available MIDI sequence data is provided in SMF Format 0.

- Make sure that an appropriately formatted USB storage device has been properly connected to the instrument's USB TO DEVICE terminal, and that "CON-NECT" is showing in the MAIN display.
- **2** Press the [MENU] button.
- **3** Use the CATEGORY [DEC] and [INC] buttons to locate the SMF Save item.

The SOURCE FILE field be highlighted and the user song name will be displayed.



The Source User Song Name

## **4** Use the dial to select the source user song.

You can press the [INC/YES] and [DEC/NO] buttons simultaneously to select the first user song.

### **5** Press the [EXECUTE] button.

The DESTINATION FILE will be highlighted, and a default name will appear for the converted song file.

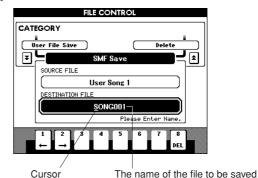
#### • To Overwrite an Existing File

If you want to overwrite a file that already exists on the USB storage device, use the dial or the [INC/YES] and [DEC/NO] buttons to select the file, then skip ahead to step 8.

**6** Press the [EXECUTE] button. A cursor will appear below the first character in the file name.

#### **7** Change the file name as necessary.

Refer to "Saving Data" on page 69 for filename entry.



## **8** Press the [EXECUTE] button.

A confirmation message will appear on the display. You can press the [DEC/NO] button at this point to cancel the operation.

#### Press the [EXECUTE] button again, or the [INC/YES] button, and the save operation will begin.

The user song will be stored to the USER FILES folder in the USB storage device.

#### **A**CAUTION

- Once the save-in-progress message appears in the display, the operation cannot be canceled. Never turn off the power or remewer the USB storage device during this operation.
- remove the USB storage device during this operation.

## **10** A message will appear on the display when the operation is complete.

Press the [EXIT] button to return to the MAIN display.

#### NOTE

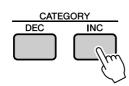
- If an existing filename is specified the display prompts you for confirmation. Press [EXECUTE] or [INC/YES] if it is OK to overwrite the file, or [DEC/NO] to cancel. You can press the [DEC/NO] button at this point to cancel the operation.
- The amount of time it will take to perform the save operation depends on the particular USB storage device you are using.

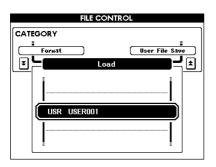
## **Loading User Files and Pattern Files**

User and pattern files residing on a USB storage device can be loaded into the instrument.

#### <u>A CAUTION</u>

- When a User file is loaded, user songs 001–005, the pattern files (user patterns), and performance memory will all be overwritten. If you only load a pattern file, only the pattern file data will be overwritten. Save important data to a USB storage device before loading data that will overwrite it.
- With the USB storage device containing the file you want to load connected to the USB TO DEVICE connector, check that "CONNECT" is showing in the MAIN display.
- **2** Press the [MENU] button.
- **3** Use the CATEGORY [DEC] / [INC] buttons to locate the Load item.





## **4** Use the dial to select the user file or pattern file you want to load.

All user files in the USB storage device will be displayed first, followed by the pattern files.

NOTE
Pattern files must be located in the root directory. Pattern files located within folders will not be recognized.

## **5** Press the [EXECUTE] button.

A confirmation message will appear on the display. You can press the [DEC/NO] button at this point to cancel the operation.

6 Press the [EXECUTE] button again, or the [INC/YES] button, and the load operation will begin.

#### **A**CAUTION

 Once the load-in-progress message appears in the display, the operation cannot be canceled. Never turn off the power or remove the USB storage device during this operation.

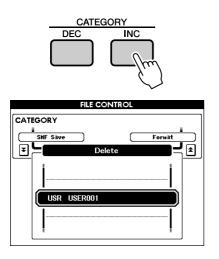
## **7** A message will appear on the display when the operation is complete.

Press the [EXIT] button to return to the MAIN display.

## **Deleting Data from a USB Storage Device**

This procedure deletes selected user files and SMF files from a USB storage device.

- Make sure that the USB storage device containing the file(s) you want to delete has been properly connected to the instrument's USB TO DEVICE terminal, and that "CONNECT" is showing in the MAIN display.
- **2** Press the [MENU] button.
- **3** Use the CATEGORY [DEC] and [INC] buttons to locate the Delete item.



### **4** Select the file you want to delete.

You can press the [INC/YES] and [DEC/NO] buttons simultaneously to select the first song or user file on the USB storage device.

### **5** Press the [EXECUTE] button.

A confirmation message will appear on the display. You can press the [DEC/NO] button at this point to cancel the operation.

6 Press the [EXECUTE] button again, or the [INC/YES] button, and the delete operation will begin.

#### 

 Once the delete-in-progress message appears in the display, the operation cannot be canceled. Never turn off the power or remove the USB storage device during this operation.

## A message will appear on the display when the operation is complete.

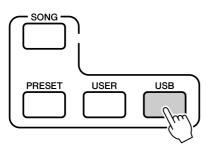
Press the [EXIT] button to return to the MAIN display.

#### NOTE

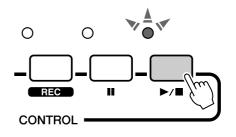
 If the USB storage device has been write-protected, an appropriate message will appear on the display and you will not be able to execute the operation.

## **Playing Songs Saved to a USB Storage Device**

- Make sure that the USB storage device containing the song you want to play has been properly connected to the instrument's USB TO DEVICE terminal, and that "CONNECT" is showing in the MAIN display.
- **2** Press the [USB] button.

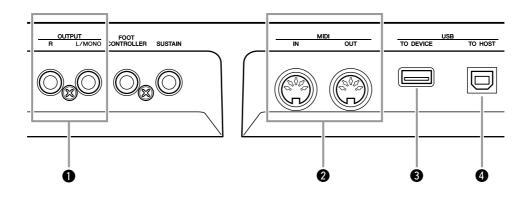


- **3** Use the dial to select the song you want to play.
- **4** Press the [START/STOP] button.





# **The Connectors**



### OUTPUT L/MONO and R jacks

These jacks output stereo audio signals (1/4" mono phone plugs).

For monophonic output, use just the L/MONO jack.

### MIDI IN and OUT terminals

The MIDI IN connector receives MIDI messages from external MIDI devices. This can be used to control the MM6 or play it's tone-generator from an external MIDI device. MM6 performance data and control data generated when it's controllers and knobs are operated is transmitted via the MIDI OUT connector.

### USB TO DEVICE terminal

This terminal allows connection to USB storage devices, (USB storage device, Floppy disk drive, Hard disk drive, etc.) and allows you to save data you've created to the connected device, as well as load data from the connected device.

Refer to "Connecting a USB Storage Device" on page 75 for more information.

### USB TO HOST terminal

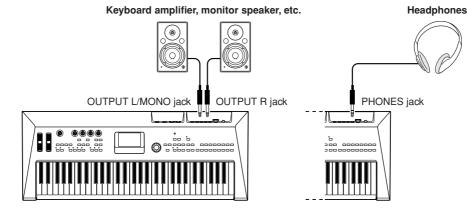
This terminal allows direct connection to a personal computer, and allows you to transfer MIDI data between the devices. Refer to "Connecting to a Personal Computer" on page 77 for more information.

## **Connecting to External Audio Equipment**

Since the MM6 has no built-in speakers, it must be connected to an external amplifier and speakers, head-phones, or other sound output device.

### Connecting to Powered Speakers or Monitor Speakers.....

For optimum, accurate reproduction of the instrument's rich sounds with effects and full stereo imaging, use a pair of powered speakers. Connect the powered speakers to the OUTPUT L/MONO and R jacks on the rear panel.



NOTE

• When using just one powered speaker, connect it to the OUTPUT L/MONO jack on the rear panel.

## **Connecting to External MIDI Devices**

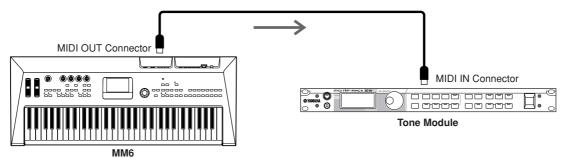
NOTE

 MIDI data can be received and transmitted via the MIDI connectors as well as the USB TO HOST terminal. However, they cannot be used at the same time.

### Controlling an External Tone Module from the MM6 .....

This type of connection lets you play an external MIDI tone generator (tone generator module, etc.) from the MM6 keyboard, or by playing back the MM6 songs or patterns.

Use this connection when you want the external instrument to sound as well as the MM6.



In order to play the external tone module in this type of setup, the MIDI receive channel of the tone module must be set to the same channel as the MM6 MIDI transmit channel.

The MM6 transmit channels are fixed, as shown below.

Main Voice	Channel 1				
Dual Voice	Channel 2				
Split Voice	Channel 3				

## **Connecting a USB Storage Device**

By connecting a USB storage device to the instrument you can save data you've created, as well as load or play the data from the connected device.

# Compatible USB Storage devices

A USB storage device such as a hard disk drive, floppy disk drive, or flash memory can be connected to the USB TO DEVICE terminal. Other types of USB device such as computer keyboards or mice cannot be used.

Before purchasing USB storage devices please consult your Yamaha dealer or an authorized Yamaha distributor (see list at end of the Owner's Manual) for advice.

### 

• Avoid frequently turning the power to USB storage devices on or off, or connecting/disconnecting the cable. Doing so may result in the instrument "freezing" or hanging up. While the instrument is accessing data (such as during the Save, Load and Delete operations), do not unplug the USB cable, do not remove the media from the device, and do not turn the power off to either or both devices.

### Connection to a USB Storage Device .....

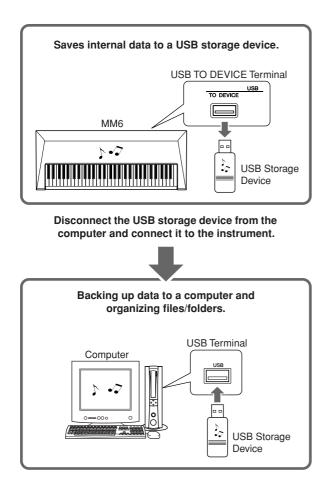
USB	
TO DEVICE	TO HOST

### 

 Some USB memory devices may require more current than the instrument can supply, causing the instrument's over-current protection function to be activated and making it impossible to use the device. If this occurs "OverCurrent" will appear in the upperright area of the MAIN display. To restore normal operation remove the USB device from the USB TO DEVICE connector and turn the instrument's power off and then back on again.

### Backing up instrument data to a computer.

Once you've saved data to a USB storage device, you can copy the data to the hard disk of your computer, then archive and organize the files as desired.



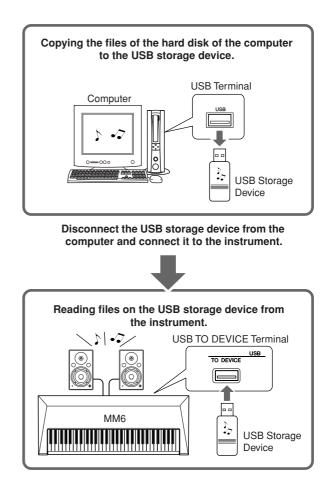
# Copying files from a computer hard disk to a USB storage device, and then playing back the songs on the instrument.

Files on a computer's hard disk can be transferred to the instrument by first copying them to a USB storage device, and then connecting the media to the instrument.

User files, pattern files, and MIDI songs can be copied to a USB storage device from the hard disk of the computer. Once you've copied the data, connect the device to the USB TO DEVICE terminal of the instrument and play back the MIDI songs, or load the user file or pattern file into the instrument.

#### NOTE

• In the case of MAC OSX a file with a different name will sometimes be created. Always select the file with the original name when loading into the MM6.



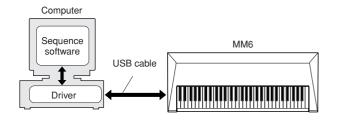
## **Connecting to a Personal Computer**

The following functions become available when this instrument is connected to a computer.

### Installing the USB-MIDI Driver ..

In order to be able to communicate with and use instruments connected to your computer, the appropriate driver software must be properly installed on your computer.

The USB-MIDI driver allows sequence software and similar applications on your computer to transmit and receive MIDI data to and from MIDI devices via a USB cable.



# Download the proper driver from our website:

http://www.global.yamaha.com/download/ usb\_midi/

Versions are available for: Windows XP Professional/Home Edition Macintosh: OS X 10.2.8–10.4.5

### 2 Install the USB MIDI driver on the computer.

Refer to the installation instructions included with the download package.

# **3** Connect the computer to the instrument with a USB cable.

For details, see the page 78.

### USB Precautions .....

Please observe the following precautions when connecting the instrument to a computer via a USB cable. Failing to do so can cause the instrument and/or the computer to hang up (freeze), possibly causing corruption or loss of data. If the instrument or computer does hang up, turn the power to both devices off and then on again, and restart the computer.

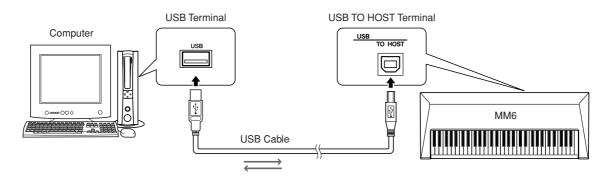
### A CAUTION

- Before connecting the computer to the USB TO HOST connector, exit from any computer power-saving mode (such as suspended, sleep, standby).
- Before turning on the power to the instrument, connect the computer to the USB TO HOST connector.
- Check the following points before turning the instrument's power
   on or off, and before plugging or unplugging the USB cable.
  - Quit all applications.
  - Make sure that no data transfer is in progress. (Data is transmitted whenever you play the keyboard or play back a song.)
- Allow at least 6 seconds between turning the instrument's power on and off, and between plugging and unplugging the USB cable.
- Directly connect the instrument to the computer using a single USB cable. Do not use a hub.

# **Transferring Performance Data to and from a Computer**

By connecting the instrument to a computer, the instrument's performance data can be used on the computer, and performance data from the computer can be played on the instrument.

### • Transferring Performance Data Between the Instrument and a Computer



### ■MIDI settings .....

These settings pertain to performance data transmission and reception.

Item	Range/Settings	Description
Local	ON/OFF	Local control determines whether or not notes played on the instrument are sounded by its internal tone generator system: the internal tone generator is active when local control is on, and inactive when local control is off.
External Clock	ON/OFF	This setting determines whether the instrument is synchronized to its own internal clock (OFF), or to a clock signal from an external device (ON).
Keyboard Out	ON/OFF	This setting determines whether keyboard performance is transmitted via the MIDI output (ON) or not (OFF).
Pattern Out	ON/OFF	This setting determines whether keyboard performance data is transmitted via the MIDI output (ON) or not (OFF).
Song Out	ON/OFF	This setting determines whether keyboard song data is transmitted via the MIDI output (ON) or not (OFF).

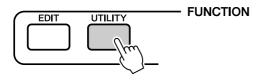
### 

• If you can't get any sound out of the instrument, the Local setting may be the most likely cause.

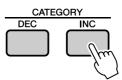
### <u> CAUTION</u>

 If External Clock is ON and no clock signal is being received from an external device, the song, pattern, and metronome functions will not start.

# Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] and [INC] buttons to select the item you want to set.



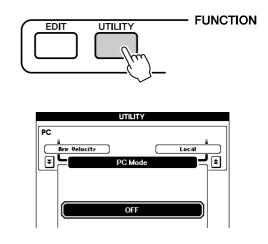
**3** Use the dial to select ON or OFF.

### ■PC Mode .....

The PC Mode item can conveniently make multiple settings for you in one operation. Select ON or OFF.

	ON	OFF
Local	OFF	ON
External Clock	ON	OFF
Song Out	ON	ON
Style Out	ON	ON
Keyboard Out	ON	ON

Press the [UTILITY] button to go to the UTILITY display.

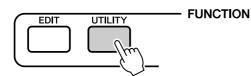


- **2** Use the CATEGORY [DEC] and [INC] buttons to select the PC Mode item.
- **3** Use the dial to select ON or OFF.

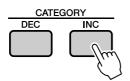
# **Initial Setup**

This function lets you send the panel setup data to a computer. Before you record performance data to a sequencer application running on your computer, it is a good idea to first send and record the panel setup data before the actual performance data.

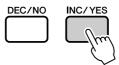
# Press the [UTILITY] button to go to the UTILITY display.



**2** Use the CATEGORY [DEC] / [INC] buttons to select the Initial Setup item.



## **3** Press [INC/YES] to send.





### **SPECIAL NOTICES**

- This owner's manual is the exclusive copyrights of Yamaha Corporation.
- The supplied software is the exclusive copyrights of Steinberg Media Technologies GmbH.
- Use of the supplied software and this manual is governed by the license agreement which the purchaser fully agrees to upon breaking the seal of the software packaging.(Please read carefully the Software Licensing Agreement at the page 81 of this manual before installing the application.)
- Copying of the supplied software or reproduction of this manual in whole or in part by any means is expressly forbidden without the written consent of the manufacturer.
- Yamaha makes no representations or warranties with regard to the use of the software and documentation and cannot be held responsible for the results of the use of this manual and the software.
- The supplied software disk is not an audio CD. Do not attempt to play it on a standard audio/video CD or DVD player.
- Please check the latest information about the supplied software and system requirements at the following URL:

http://www.yamahasynth.com/

• Yamaha Corporation does not provide support for the supplied software.

## **About the Supplied DAW Software**

The supplied disk includes DAW software for Windows and Macintosh computers.

### NOTE

- The serial number required for installation of the software can be found on the license agreement sheet provided with the disk.
- Install the DAW software while connected to the Internet, and be sure to fill in all items
- Macintosh users can begin the installation process by double-clicking the icon with the ".pkg" file name extension.
- Refer to the URL below for the latest information on system requirements. http://www.yamahasynth.com/

### **Support**

Information about the supplied DAW software can be found at the Steinberg website.

Support information, update downloads, FAQs, and more can be found at the Steinberg website (see the URL below).

http://www.steinberg.net

You can also access the Steinberg website from the DAW application [Help] menu (a PDF manual for the software as well as supplemental information can be found at the site).

### ATTENTION SOFTWARE LICENSE AGREEMENT

PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("AGREE-MENT") CAREFULLY BEFORE USING THIS SOFTWARE. YOU ARE ONLY PERMITTED TO USE THIS SOFTWARE PURSUANT TO THE TERMS AND CONDITIONS OF THIS AGREEMENT. THIS AGREEMENT IS BETWEEN YOU (AS AN INDIVIDUAL OR LEGAL ENTITY) AND YAMAHA CORPORATION ("YAMAHA").

BY BREAKING THE SEAL OF THIS PACKAGE YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE WITH THE TERMS, DO NOT INSTALL, COPY, OR OTHERWISE USE THIS SOFTWARE.

THIS AGREEMENT PROVIDES YOUR USE-CONDITIONS ABOUT THE "DAW" SOFTWARE OF STEINBERG MEDIA TECHNOLOGIES GMBH("STEINBERG") WHICH IS BUNDLED WITH THIS PRODUCT. SINCE THE END-USER SOFTWARE LICENSE AGREEMENT (EUSLA) SHOWED ON YOUR PC-DISPLAY IN YOUR INSTALLING THE "DAW" SOFTWARE IS REPLACED BY THIS AGREEMENT, YOU SHOULD DISRE-GARD THE EUSLA. THAT IS, IN THE INSTALLING PROCESS, YOU SHOULD SELECT "AGREE" WITH THE EUSLA, WITHOUT YOUR JUDG-MENT THERETO, SO AS TO PROCEED TO THE NEXT PAGE.

### 1. GRANT OF LICENSE AND COPYRIGHT

Yamaha hereby grants you the right to use one copy of the software program(s) and data ("SOFTWARE") accompanying this Agreement. The term SOFT-WARE shall encompass any updates to the accompanying software and data. The SOFTWARE is owned by STEINBERG, and is protected by relevant copyright laws and all applicable treaty provisions. Yamaha has acquired the sublicense right to license you to use the SOFTWARE. While you are entitled to claim ownership of the data created with the use of SOFTWARE, the SOFTWARE will continue to be protected under relevant copyrights.

- You may use the SOFTWARE on a single computer.
- You may make one copy of the SOFTWARE in machine-readable form for backup purposes only, if the SOFTWARE is on media where such backup copy is permitted. On the backup copy, you must reproduce Yamaha's copyright notice and any other proprietary legends that were on the original copy of the SOFTWARE.
- You may permanently transfer to a third party all your rights in the SOFT-WARE, provided that you do not retain any copies and the recipient reads and agrees to the terms of this Agreement.

#### 2. RESTRICTIONS

- You may not engage in reverse engineering, disassembly, decompilation or otherwise deriving a source code form of the SOFTWARE by any method whatsoever.
- You may not reproduce, modify, change, rent, lease, or distribute the SOFT-WARE in whole or in part, or create derivative works of the SOFTWARE.
- You may not electronically transmit the SOFTWARE from one computer to another or share the SOFTWARE in a network with other computers.
- You may not use the SOFTWARE to distribute illegal data or data that violates public policy.
- You may not initiate services based on the use of the SOFTWARE without permission by Yamaha Corporation

Copyrighted data, including but not limited to MIDI data for songs, obtained by means of the SOFTWARE, are subject to the following restrictions which you must observe.

- Data received by means of the SOFTWARE may not be used for any commercial purposes without permission of the copyright owner.
- Data received by means of the SOFTWARE may not be duplicated, transferred, or distributed, or played back or performed for listeners in public without permission of the copyright owner.
- The encryption of data received by means of the SOFTWARE may not be removed nor may the electronic watermark be modified without permission of the copyright owner.

### **3. TERMINATION**

This Agreement becomes effective on the day that you receive the SOFT-WARE and remains effective until terminated. If any copyright law or provisions of this Agreement is violated, the Agreement shall terminate automatically and immediately without notice from Yamaha. Upon such termination, you must immediately destroy the licensed SOFTWARE, any accompanying written documents and all copies thereof.

### 4. LIMITED WARRANTY ON MEDIA

As to SOFTWARE sold on tangible media, Yamaha warrants that the tangible media on which the SOFTWARE is recorded will be free from defects in materials and workmanship under normal use for a period of fourteen (14) days from the date of receipt, as evidenced by a copy of the receipt. Yamaha's entire liability and your exclusive remedy will be replacement of the defective media

if it is returned to Yamaha or an authorized Yamaha dealer within fourteen days with a copy of the receipt. Yamaha is not responsible for replacing media damaged by accident, abuse or misapplication. TO THE FULLEST EXTENT PERMITTED BY LAW, YAMAHA EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES ON THE TANGIBLE MEDIA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

### 5. DISCLAIMER OF WARRANTY ON SOFTWARE

You expressly acknowledge and agree that use of the SOFTWARE is at your sole risk. The SOFTWARE and related documentation are provided "AS IS" and without warranty of any kind. NOTWITHSTANDING ANY OTHER PROVISION OF THIS AGREEMENT, YAMAHA EXPRESSLY DIS-CLAIMS ALL WARRANTIES AS TO THE SOFTWARE, EXPRESS, AND IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WAR-RANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS. SPECIFICALLY, BUT WITHOUT LIMITING THE FOREGOING, YAMAHA DOES NOT WARRANT THAT THE SOFTWARE WILL MEET YOUR REQUIREMENTS, THAT THE OPERATION OF THE SOFTWARE WILL MEET WILL BE UNINTERRUPTED OR ERROR-FREE, OR THAT DEFECTS IN THE SOFTWARE WILL BE CORRECTED.

### 6. LIMITATION OF LIABILITY

YAMAHA'S ENTIRE OBLIGATION HEREUNDER SHALL BE TO PER-MIT USE OF THE SOFTWARE UNDER THE TERMS HEREOF. IN NO EVENT SHALL YAMAHA BE LIABLE TO YOU OR ANY OTHER PER-SON FOR ANY DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOST PROFITS, LOST DATA OR OTHER DAMAGES ARIS-ING OUT OF THE USE, MISUSE OR INABILITY TO USE THE SOFT-WARE, EVEN IF YAMAHA OR AN AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. In no event shall Yamaha's total liability to you for all damages, losses and causes of action (whether in contract, tort or otherwise) exceed the amount paid for the SOFT-WARE.

### 7. GENERAL

This Agreement shall be interpreted according to and governed by Japanese law without reference to principles of conflict of laws. Any dispute or procedure shall be heard before the Tokyo District Court in Japan. If for any reason a court of competent jurisdiction finds any portion of this Agreement to be unenforceable, the remainder of this Agreement shall continue in full force and effect.

### 8. COMPLETE AGREEMENT

This Agreement constitutes the entire agreement between the parties with respect to use of the SOFTWARE and any accompanying written materials and supersedes all prior or contemporaneous understandings or agreements, written or oral, regarding the subject matter of this Agreement. No amendment or revision of this Agreement will be binding unless in writing and signed by a fully authorized representative of Yamaha.



Problem	Possible Cause and Solution
A popping sound is heard when the instrument is turned on or off.	This is normal, and is caused by the brief current surge produced when the device is turned on or off. Be sure to turn the volume down when turning the device on or off.
Noise is produced when using a mobile phone.	To prevent this, turn off the mobile phone or use it further away from the instrument. Using a mobile phone in close proximity to the instru- ment may produce interference.
There is no sound even when the keyboard is	Check the Local Control on/off setting. (See page 78).
played or when a song or pattern is being played back.	Is the FILE CONTROL display showing? The instrument's keyboard, etc., will not produce any sound while the FILE CONTROL display is showing. Press the [EXIT] button to return to the MAIN display.
The pattern or song does not play back when the [START/STOP] button is pressed.	Is External Clock set to ON? Make sure External Clock is set to OFF; refer to "External Clock" on page 78.
	Make sure that the pattern volume is set to an appropriate level. (See page 53).
The pattern does not sound properly.	Is the split point set at an appropriate key for the chords you are play- ing? Set the split point an appropriate key (page 52). Is the [FINGER] button indicator lit? If not, press the [FINGER} button so that it does light.
Only the pattern rhythm plays even if the [FIN- GER] button indicator is lit when pattern num- ber 113 through 168 is selected.	This is normal. Pattern numbers 113 through 168 only include a rhythm part, so not other pattern parts will play. Select a pattern number other than 113– 168 to hear parts other than the rhythm part.
Not all of the voices seem to sound, or the sound seems to be cut off. Or, the pattern or song sound is interrupted when playing on the keyboard.	The instrument is polyphonic up to a maximum of 32 notes. If the Dual voice or Split voice is being used and a style or song is play- ing back at the same time, some notes/sounds may be omitted (or "stolen") from the accompaniment or song.
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 reserved. Make sure that the foot- switch plug is properly connected to the SUSTAIN jack before turning on the power.
The sound of the voice changes from note to note.	This is normal. The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the voice may be slightly different from note to note.
The [FINGER] button indicator does not light even when the button is pressed.	Is the pattern selection screen showing? Be sure to press the [PAT- TERN] button before using any of the pattern-related functions.
When a voice is changed during recording the DSP effect is not applied as expected.	During recording the DSP type set before recording was begun is maintained. For this reason the expected DSP effect may not be applied if you change voices. This is not a malfunction.
The volume changes when DSP is turned ON or OFF.	Some voices change in volume when the DSP effects are turned ON or OFF. This is not a malfunction.
The DSP effect doesn't sound as expected.	Only one DSP effect can be active at a time for the entire instrument. It is for this reason that, for example, the DSP effect may not sound as expected when playing the keyboard while playing back a song or pat- tern loaded from an external device. The DSP settings are saved with the song and pattern data. This is not a malfunction.



# Messages

LCD Message	Comment
Access error!	Indicates the failure in reading or writing from/to the media or the flash memory.
All Memory Clearing	Displayed while erasing all data in the flash memory. Never turn the power off during data transmission.
Are you sure?	Confirms whether Song Clear or Track Clear is executed or not.
Backup Clearing	Displayed while clearing the back-up data in the flash memory.
Cancel	Displayed when the transmission of Initial Send is cancelled.
Clearing	Displayed while executing Song Clear or Track Clear for a user song.
Completed	Indicates the completion of the specified job, such as saving data or transmission.
Data Error!	Displayed when the user song contains illegal data.
End	Displayed when transmission of Initial Setup data has been completed.
Error!	Displayed when a write operation has failed.
File information area is not large enough.	Indicates that data cannot be saved to the media because the total number of files is too large.
File is not found.	Indicates that there is no file.
File too large. Loading is impossible.	Indicates that data cannot be loaded because the file is too large.
Format OK ? [EXECUTE]	Confirms whether the media format operation is executed or not.
Formatting	Displayed while formatting.
Load OK ?	Confirms whether loading is executed or not.
Loading	Displayed while loading data.
Media is not inserted.	This message will appear if you attempt to access a memory device when no mem- ory device is connected to the USB TO DEVICE terminal.
Media capacity is full.	Displayed when data cannot be saved because the memory media is full.
Memory Full	Displayed when the internal memory becomes full during song recording.
MIDI receive buffer overflow.	Displayed when the MIDI receive buffers overflows.
Now Writing (Don't turn off the power now, otherwise the data may be damaged.)	Displayed while writing data to the memory. Never turn the power off while writing. Doing so may result in data loss.
Overwrite ?	Confirms whether overwriting is executed or not
Save OK ?	Confirms whether saving is executed or not
Saved data is not found.	Displayed when the data to be saved doesn't exist.
Saving	Displayed while saving data to the memory. Never turn the power off while saving. Doing so may result in data loss.
Send OK?	Confirms whether the data transmission is executed or not
Sending	Displayed while transmitting data.
Since the media is in use now, this function is not available.	Indicates that the file control function is currently unavailable since the media is being accessed.
Sure ? [YES/NO]	Reconfirms whether each operation is executed or not
The limit of the media has been reached.	Indicates that data cannot be saved because the folder/directory structure has become too complicated.
The media is not formatted.	Indicates that the inserted media has not been formatted.
The media is write-protected.	Indicates that the inserted media cannot be written to because it is write-protected. Set the write-protect switch to the "overwrite" position before use.
There are too many files.	Indicates that data cannot be saved because the total number of files exceeds the maximum capacity.
This function is not available now.	Indicates that the designated function is not available because the instrument is executing another job.

 NOTE
 I

 • Not all messages are listed in the table.

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).

### Panel Voice List

		Bank	Select	MIDI	
Voice No.	Order in category	MSB (0–127)	LSB (0–127)	Program Change (1–128)	Voice Name
			PIA	、 ,	
1	1	0	113	1	Power Grand
2	2	0	113	2	Aggressive
3	3	0	112	2	Bright Piano
4	4	0	115	1	Classic Piano
5	5	0	114	1	Warm Grand
6	6	0	116	1	Amb Piano
7	7	0	112	7	Harpsichord
8	8	0	112	4	Honky-tonk Piano
9	9	0	112	3	MIDI Grand Piano
10	10	0	113	3	CP 80
11	11	0	0	1	GM Grand Piano
12	12	0	0	2	GM Bright Piano
13	13	0	0	3	GM Electric Grand
14	14	0	0	4	GM Honky-tonk
15	15	0	0	7	GM Harpsichord
		KE	YBOAR	D/ORGA	N
16	1	0	117	5	Sweetness
17	2	0	112	5	Chorus EP
18	3	0	115	5	80th Boost
19	4	0	115	6	Early 70's
20	5	0	116	5	Vintage'74
21	6	0	117	6	Vintage Case
22	7	0	118	5	Cool! Suitcase EP
23	8	0	113	5	Tremolo EP
24	9	0	119	5	Wurli Tremolo
25	10	0	119	6	Wurli Amped
26	11	0	114	5	Cool! Galaxy EP
27	12	0	112	6	DX Modern EP
28	13	0	113	6	Hyper Tines
29	14	0	114	6	Venus EP
30	15	0	116	6	New Tines
31	16	0	118	6	Ana Piano
32	17	0	112	8	Clavi
33	18	0	113	8	Super Clavi
34	19	0	114	8	Nu Phasing
35	20	0	115	8	Touch Clavi
36	21	0	116	8	Reso Clavi

### 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 Numbers 001 to 128 directly relate to MIDI Program Change Numbers 000 to 127. That is, Program Numbers and Program Change Numbers differ by a value of 1. Remember to take this into consideration.
- · Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

		Bank	Select	MIDI	
Voice No.	Order in category	MSB (0–127)	LSB (0–127)	Program Change (1–128)	Voice Name
41	26	0	113	18	Vintage C
42	27	0	114	18	C Vibrato
43	28	0	115	18	Mellow
44	29	0	116	17	Bright Organ
45	30	0	118	19	Cool! Organ
46	31	0	117	19	Cool! Rotor Organ
47	32	0	113	17	Jazz Organ
48	33	0	112	18	Click Organ
49	34	0	121	20	16'+2' Organ
50	35	0	120	20	16'+4' Organ
51	36	0	40	17	16'+2'2/3 Organ
52	37	0	113	19	Progressy
53	38	0	114	19	Rock Percussive
54	39	0	115	19	Rock Vibrato
55	40	0	112	19	Rock Organ
56	41	0	114	20	1967 Keys
57	42	0	116	20	Sea Horse
58	43	0	115	20	Compact
59	44	0	117	20	Saw Combo
60	45	0	127	19	Theater Organ
61	46	0	113	20	Chapel Organ
62	47	0	112	20	Church Organ
63	48	0	112	21	Reed Organ
64	49	0	112	12	Vibraphone
65	50	0	112	13	Marimba
66	51	0	112	14	Xylophone
67	52	0	112	9	Celesta
68	53	0	40	99	Glocken Chimes
69	54	0	112	11	Music Box
70	55	0	64	11	Orgel
71	56	0	113	113	Random Bell
72	57	0	112	113	Twinkle
73	58	0	112	15	Tubular Bells
74	59	0	112	115	Steel Drums
75	60	0	112	48	Timpani
76	61	0	112	22	Musette Accordion
77	62	0	113	22	Trad Accordion
78	63	0	113	24	Bandoneon
79	64	0	113	23	Modern Harp
80	65	0	112	23	Harmonica
81	66	0	0	5	GM E.Piano 1
82	67	0	0	6	GM E.Piano 2

22

23

24

25

0

0

0

0

117

112

114

115

8

17

17

17

Wah Clavi

Petit

Tiny

Clean

37

38

39

		Bank	Select	MIDI				Bank	Select	MIDI	
Voice	Order in	MSB	LSB	Program	Voice Name	Voice	Order in	MSB	LSB	Program	Voice Name
No.	category	(0–127)	(0–127)	Change (1–128)	voloo namo	No.	category	(0–127)	(0–127)	Change (1–128)	
83	68	0	0	8	GM Clavi	139	36	0	112	35	Pick Bass
84	69	0	0	17	GM Drawbar Organ	140	37	0	112	36	Fretless Bass
85	70	0	0	18	GM Percussive Org	141	38	0	112	37	Slap Bass
86	71	0	0	19	GM Rock Organ	142	39	0	112	40	Simple Bass
87	72	0	0	20	GM Church Organ	143	40	0	114	39	Fat Pulse
88	73	0	0	21	GM Reed Organ	144	41	0	114	40	Dark Bass
89	74	0	0	23	GM Harmonica	145	42	0	115	39	One Voice
90	75	0	0	22	GM Accordion	146	43	0	115	40	Mini Sub
91	76	0	0	24	GM Tango Accord.	147	44	0	116	39	Fat Sine Resonance
92	77	0	0	9	GM Celesta	148	45	0	116	40	Ballad Bass
93	78	0	0	10	GM Glockenspiel	149	46	0	113	87	Long Spit
94	79	0	0	113	GM Tinkle Bell	150	47	0	113	88	Lately
95	80	0	0	11	GM Music Box	151	48	0	117	39	Boogie A
96	81	0	0	12	GM Vibraphone	152	49	0	114	81	Wazoo
97	82	0	0	13	GM Marimba	153	50	0	114	82	Velo Master
98	83	0	0	14	GM Xylophone	154	51	0	117	40	Trance Bass
99	84	0	0	15	GM Tubular Bells	155	52	0	118	39	Deep Point
100	85	0	0	16	GM Dulcimer	156	53	0	118	40	Short FM
101	86	0	0	114	GM Agogo	157	54	0	119	39	Competitor
102	87	0	0	115	GM Steel Drums	158	55	0	119	40	1o1 Sub L
103	88	0	0	48	GM Timpani	159	56	0	120	39	101 Sub S
100	00	0	GUITAR	-	Ciwi Timpani	160	57	0	120	40	1o1 Bass
104	1	0	117	26	Live! Steel Guitar	161	58	0	120	39	Big Bass
104	2	0	115	26	Strummer	162	59	0	121	40	Bobby Bass
105	3	0	118	26	Dyno Steel Guitar	163	60	0	121	39	Fundamental
107	4	0	113		12Str Guitar	163	61	0	122	40	Old House
107	4 5	0	113	26 26		164	62	0	122	39	
		-			Mega Steel Guitar			-			Seq Bass
109	6	0	119	26	Spanish Steel	166	63	0	123	40	Booty Bass
110	7	0	119	26	Unplug Reversible	167	64	0	124	39	Hard Syn Bass
111	8	0	112	28	Clean Guitar	168	65	0	124	40	Funky Bass
112	9	0	113	29	Funk Guitar	169	66	0	125	39	Tekno Bass
113	10	0	114	28	Deep Chorus	170	67	0	125	40	Knock Bass
114	11	0	117	29	Single Dream	171	68	0	126	39	Perc Punch
115	12	0	117	29	HardArmer	172	69	0	126	40	Echo Bass
116	13	0	119	28	Electric 12Str Gt	173	70	0	127	39	P.Mod Bass
117	14	0	122	28	Wah Guitar	174	71	0	112	39	Synth Bass
118	15	0	115	28	Mega Clean Guitar	175	72	0	113	39	Hi-Q Bass
119	16	0	115	28	Auto Funk	176	73	0	113	40	Dance Bass
120	17	0	115	28	9th Shaky	177	74	0	116	39	Primitive Arp Bass
121	18	0	117	28	60's Clean Guitar	178	75	0	117	39	Clip Beat
122	19	0	112	30	Overdriven Guitar	179	76	0	113	88	Lately Arp
123	20	0	117	30	Cool! Blues Guitar	180	77	0	0	25	GM Nylon Guitar
124	21	0	112	31	Distortion Guitar	181	78	0	0	26	GM Steel Guitar
125	22	0	113	28	Combo Amped	182	79	0	0	27	GM Jazz Guitar
126	23	0	118	28	60's Distortion	183	80	0	0	28	GM Clean Guitar
127	24	0	112	30	Heavy Distortion	184	81	0	0	29	GM Muted Guitar
128	25	0	113	30	Mega Overdrive Gt	185	82	0	0	30	GM Overdriven Gt
129	26	0	113	30	Heavy Pop	186	83	0	0	31	GM Distortion Gt
130	27	0	114	30	Over The Top	187	84	0	0	32	GM Gt Harmonics
131	28	0	114	30	Bottom Boost	188	85	0	0	33	GM Acoustic Bass
132	29	0	112	25	Classical Guitar	189	86	0	0	34	GM Finger Bass
133	30	0	112	26	Folk Guitar	190	87	0	0	35	GM Pick Bass
134	31	0	112	27	Jazz Guitar	191	88	0	0	36	GM Fretless Bass
135	32	0	113	27	Octave Guitar	192	89	0	0	37	GM Slap Bass 1
136	33	0	112	29	Muted Guitar	193	90	0	0	38	GM Slap Bass 2
	34	0	112	34	Finger Bass	194	91	0	0	39	GM Synth Bass 1
137											

		Bank	Select	MIDI				Bank	Select	MIDI	
Voice No.	Order in category	MSB (0–127)	LSB (0–127)	Program Change (1–128)	Voice Name	Voice No.	Order in category	MSB (0–127)	LSB (0–127)	Program Change (1–128)	Voice Name
			STRI	· ,		251	22	0	112	60	Muted Trumpet
196	1	0	116	50	Live! Orchestra	252	23	0	112	58	Trombone
197	2	0	114	49	Symphony Strings	253	24	0	113	58	Trombone Section
198	3	0	113	50	Slow Strings	254	25	0	112	61	French Horn
199	4	0	122	50	Live! Allegro	255	26	0	112	59	Tuba
200	5	0	113	49	Orchestra Strings	256	27	0	117	67	Sweet! Tenor Sax
201	6	0	116	49	Spiccato	257	28	0	113	65	Sweet! Soprn Sax
202	7	0	112	49	String Ensemble	258	29	0	112	67	Tenor Sax
203	8	0	115	49	String Ensemble2	259	30	0	112	66	Alto Sax
204	9	0	112	50	Chamber Strings	260	31	0	112	65	Soprano Sax
205	10	0	3	49	Stereo Strings	261	32	0	112	68	Baritone Sax
206	11	0	45	49	Velocity Strings	262	33	0	114	67	Breathy Tenor Sax
207	12	0	112	45	Tremolo Strings	263	34	0	112	72	Clarinet
208	13	0	117	49	Tron Strings	264	35	0	112	69	Oboe
209	14	0	112	51	Synth Strings	265	36	0	112	70	English Horn
210	15	0	112	46	Pizzicato Strings	266	37	0	112	71	Bassoon
211	16	0	112	41	Violin	267	38	0	114	74	Sweet! Flute
212	17	0	112	43	Cello	268	39	0	113	76	Sweet! Pan Flute
213	18	0	112	44	Contrabass	269	40	0	112	74	Flute
214	19	0	112	47	Harp	270	41	0	113	74	Tron Flute
215	20	0	112	56	Orchestra Hit	271	42	0	112	73	Piccolo
216	21	0	64	56	Impact	272	43	0	112	76	Pan Flute
217	22	0	40	49	Orchestra	273	44	0	112	75	Recorder
218	23	0	0	41	GM Violin	274	45	0	112	80	Ocarina
219	24	0	0	42	GM Viola	275	46	0	0	57	GM Trumpet
220	25	0	0	43	GM Cello	276	47	0	0	58	GM Trombone
221	26	0	0	44	GM Contrabass	277	48	0	0	59	GM Tuba
222	27	0	0	45	GM Tremolo Str	278	49	0	0	60	GM Muted Trumpet
223	28	0	0	46	GM Pizzicato Str	279	50	0	0	61	GM French Horn
224	29	0	0	47	GM Orch Harp	280	51	0	0	62	GM Brass Section
225	30	0	0	49	GM Strings 1	281	52	0	0	63	GM Synth Brass 1
226	31	0	0	50	GM Strings 2	282	53	0	0	64	GM Synth Brass 2
227	32	0	0	51	GM Synth Strings 1	283	54	0	0	65	GM Soprano Sax
228	33	0	0	52	GM Synth Strings 2	284	55	0	0	66	GM Alto Sax
229	34	0	0	56	GM Orchestra Hit	285	56	0	0	67	GM Tenor Sax
	01	•	BRA			286	57	0	0	68	GM Baritone Sax
230	1	0	117	63	Live! Pop Brass	287	58	0	0	69	GM Oboe
231	2	0	116	63	Live! Octave Brass	288	59	0	0	70	GM English Horn
232	3	0	125	62	Sforzando Brass	289	60	0	0	71	GM Bassoon
233	4	0	118	62	Pop Brass	200	61	0	0	72	GM Clarinet
234	5	0	112	62	Brass Section	200	62	0	0	73	GM Piccolo
235	6	0	113	62	Big Band Brass	292	63	0	0	74	GM Flute
236	7	0	119	62	Mellow Horns	293	64	0	0	75	GM Recorder
237	8	0	112	64	Big Syn	294	65	0	0	76	GM Pan Flute
238	9	0	113	64	Ober Brass	295	66	0	0	77	GM Blown Bottle
239	10	0	114	64	Ober Horns	296	67	0	0	78	GM Shakuhachi
240	11	0	115	64	Big Squish	297	68	0	0	79	GM Whistle
240	12	0	116	64	After 1984	297	69	0	0	80	GM Ocarina
241	13	0	117	64	Timeless	230	05		YNTH LE		
242	14	0	118	64	Kustom	299	1	0	112	83	Mini Three
243 244	14	0	113	63	80's Brass	300	2	0	112	84	Punch Lead
244 245	15	0	113	63	Techno Brass	300	3	0	112	87	Trojan
245 246	16	0	114	63	Synth Brass	301	4	0	112	87	Crying
	17	0			,		4	0			Flange Filter
	IØ		119 120	64 64	Hard Saw Brass Syn Saw Brass	303 304	5 6	0	114	86	Big LFO
	10					.304	1 10	I U	115	84	
247 248 249	19 20	0	115	57	Sweet! Trumpet	305	7	0	112	85	Funky Pulse

		Bank Sele		MIDI				Bank	Select	MIDI	
Voice	Order in	MSB	LSB	Program	Voice Name	Voice	Order in	MSB	LSB	Program	Voice Name
No.	category	(0–127)	(0–127)	Change (1–128)		No.	category	(0–127)	(0–127)	Change (1–128)	
307	9	0	114	85	Simple Oct1	364	66	0	114	95	Slow LFO Pad
308	10	0	114	84	Simple Oct2	365	67	0	112	95	Equinox
309	11	0	116	81	Prog Lead	366	68	0	113	90	Dark Moon
310	12	0	114	88	Galaga	367	69	0	115	90	Landing Pad
311	13	0	115	88	Reso Lead	368	70	0	115	91	Sand Pad
312	14	0	115	87	Cosmeter	369	71	0	112	103	Amb Pad
313	15	0	116	82	Gus Lead	370	72	0	113	89	Digi Stuff far
314	16	0	115	81	Dancy Hook	371	73	0	113	98	Neo Crystal
315	17	0	115	96	W Phaser	372	74	0	112	89	Fantasia
316	18	0	113	91	Big Lead	373	75	0	112	97	Glass Arp
317	19	0	115	95	Faaat Dance	374	76	0	112	99	Star Dust
318	20	0	115	85	Power Lead	375	77	0	113	101	Bell Pad
319	21	0	119	82	Fargo	376	78	0	42	99	Chorus Bells
320	22	0	113	83	Mr.Finger	377	79	0	112	53	Choir
321	23	0	113	84	Mini Soft	378	80	0	113	53	Vocal Ensemble
322	24	0	115	82	Analogon	379	81	0	66	92	Itopia
323	25	0	113	85	Lucky	380	82	0	112	55	Air Choir
324	26	0	113	86	Inda Night	381	83	0	112	86	Voice Lead
325	27	0	114	87	Sky Walk	382	84	0	64	55	Analog Voice
326	28	0	113	81	Early Lead	383	85	0	112	92	Xenon Pad
327	29	0	113	82	Soft RnB	384	86	0	112	54	Vox Humana
328	30	0	116	83	Poly Lead	385	87	0	117	86	Big Comp
329	31	0	115	83	Orbit Sine	386	88	0	117	87	Light Comp
330	32	0	116	84	Square Lead 1	387	89	0	116	87	Short Pulse
331	33	0	112	81	Square Lead 2	388	90	0	116	88	Chord Seq 1
332	34	0	112	82	Sawtooth Lead	389	91	0	117	81	Chord Seq 2
333	35	0	6	82	Sawtooth Lead 2	390	92	0	117	82	Digital Seq
334	36	0	8	82	Thick Sawtooth	391	93	0	117	83	Hollow Seq
335	37	0	112	84	Index Finger	392	94	0	118	86	Snap Seq
336	38	0	117	83	Digi Moon	393	95	0	96	82	Analog Seq
337	39	0	115	82	Dry Growl	394	96	0	117	88	Trance Seq 1
338	40	0	115	95	Sync Faaat	395	97	0	118	81	Trance Seq 2
339	41	0	116	87	Mode Reverse	396	98	0	118	82	Trance Seq 3
340	42	0	113	87	Slap Spit	397	99	0	114	83	Tech Comp
341	43	0	114	83	Cheap Tech	398	100	0	116	85	Quick Punch
342	44	0	116	84	Standard Square	399	101	0	117	85	Poly Master
343	45	0	112	94	The Synth	400	102	0	118	83	Trancy
344	46	0	112	96	Vapor	401	103	0	117	84	Silk Road
345	47	0	115	94	VP Soft	402	104	0	116	86	Rezz Punch
346	48	0	112	90	X-Shower	403	105	0	113	99	Sine Comp
347	49	0	115	92	Light Pad	404	106	0	118	84	Amb Sine
348	50	0	115	93	Noble Pad	405	107	0	115	113	Clack Bell
349	51	0	112	91	Analog	406	108	0	118	85	Pulse Stop
350	52	0	112	93	Square	407	109	0	113	103	Mystery Sine
351	53	0	113	92	Dark Light	408	110	0	118	87	Stroll
352	54	0	113	93	Sine Pad	409	111	0	118	88	FM Metal
353	55	0	113	94	Air Hose	410	112	0	119	81	FS Buzz
354	56	0	114	91	Mid Range	411	113	0	119	83	Digi Osc
355	57	0	114	92	LPF Sweep	412	114	0	119	84	Bleep
356	58	0	114	93	Sharp Teeth	413	115	0	112	98	Twist
357	59	0	114	96	Da Pad	414	116	0	112	100	Zen
358	60	0	115	89	LFO Pad	415	117	0	112	102	Landscape
359	61	0	113	95	Chorus Pad	416	118	0	113	97	Meow Pad
360	62	0	113	96	Basic Pad	417	119	0	113	100	Mind Bell
361	63	0	114	89	Ice Rink	418	120	0	113	102	Rebirth '70
	64	0	114	90	Back Pad	419	121	0	0	97	GM Rain
362							1			-	i da la companya da l

		Bank	Select	MIDI				Bank	Select	MIDI	
Voice	Order in	MSB	LSB	Program	Voice Name	Voice	Order in	MSB	LSB	Program	Voice Name
No.	category	(0–127)	(0–127)	Change (1–128)		No.	category	(0–127)	(0–127)	Change (1–128)	
421	123	0	0	99	GM Crystal	477	32	0	112	104	Warp Alert
422	124	0	0	100	GM Atmosphere	478	33	0	112	128	Whale Dreams
423	125	0	0	101	GM Brightness	479	34	0	112	121	Strange Hit
424	126	0	0	102	GM Goblins	480	35	0	113	121	Noise Perc
425	127	0	0	103	GM Echoes	481	36	0	113	122	Noise Fx
426	128	0	0	104	GM Sci-Fi	482	37	0	113	123	El Perc 1
427	129	0	0	81	GM Square Lead	483	38	0	113	124	El Perc 2
428	130	0	0	82	GM Sawtooth Lead	484	39	0	113	124	Elec Samba
429	131	0	0	83	GM Calliope Lead	485	40	0	113	125	Mini Blips
430	132	0	0	84	GM Chiff Lead	486	41	0	113	126	Hi Q 1
431	133	0	0	85	GM Charang Lead	487	42	0	113	127	Hi Q 2
432	134	0	0	86	GM Voice Lead	488	43	0	113	128	Radio Nz
433	135	0	0	87	GM Fifths Lead	489	44	64	0	1	Cutting Noise
434	136	0	0	88	GM Bass & Lead	490	45	64	0	2	Cutting Noise 2
435	137	0	0	89	GM New Age Pad	491	46	64	0	4	String Slap
436	138	0	0	90	GM Warm Pad	492	47	64	0	17	Flute Key Click
437	139	0	0	91	GM Poly Synth Pad	493	48	64	0	33	Shower
438	140	0	0	92	GM Choir Pad	494	49	64	0	34	Thunder
439	141	0	0	53	GM Choir Aahs	495	50	64	0	35	Wind
440	142	0	0	54	GM Voice Oohs	496	51	64	0	36	Stream
441	143	0	0	55	GM Synth Voice	497	52	64	0	37	Bubble
442	144	0	0	93	GM Bowed Pad	498	53	64	0	38	Feed
443	145	0	0	94	GM Metallic Pad	499	54	64	0	49	Dog
444	146	0	0	95	GM Halo Pad	500	55	64	0	50	Horse
445	147	0	0	96	GM Sweep Pad	501	56	64	0	51	Bird Tweet
			DRUM/P	ERC/SE		502	57	64	0	56	Maou
446	1	127	0	81	Standard Kit	503	58	64	0	65	Phone Call
447	2	127	0	82	Analog T8 Kit	504	59	64	0	66	Door Squeak
448	3	127	0	83	Analog T9 Kit	505	60	64	0	67	Door Slam
449	4	127	0	84	Break Kit	506	61	64	0	68	Scratch Cut
450	5	127	0	85	Hip Hop Kit	507	62	64	0	69	Scratch Split
451	6	126	0	41	Afro Cuban Kit	508	63	64	0	70	Wind Chime
452	7	126	0	44	Pop Latin kit	509	64	64	0	71	Telephone Ring
453	8	127	0	28	Dance Kit1	510	65	64	0	81	Car Engine Ignition
454	9	126	0	37	Arab.Kit	511	66	64	0	82	Car Tires Squeal
455	10	126	0	40	Indian Kit	512	67	64	0	83	Car Passing
456	11	127	0	128	Chinese Kit	513	68	64	0	84	Car Crash
457	12	127	0	1	GM Standard Kit 1	514	69	64	0	85	Siren
458	13	127	0	2	Standard Kit 2	515	70	64	0	86	Train
459	14	127	0	9	Room Kit	516	71	64	0	87	Jet Plane
460	15	127	0	17	Rock Kit	517	72	64	0	88	Starship
461	16	127	0	25	Electronic Kit	518	73	64	0	89	Burst
462	17	127	0	26	Analog Kit	519	74	64	0	90	Roller Coaster
463	18	127	0	113	Dance Kit2	520	75	64	0	91	Submarine
464	19	127	0	33	Jazz Kit	521	76	64	0	97	Laugh
465	20	127	0	41	Brush Kit	522	77	64	0	98	Scream
466	21	127	0	49	Symphony Kit	523	78	64	0	99	Punch
467	22	126	0	1	SFX Kit 1	524	79	64	0	100	Heartbeat
468	23	126	0	2	SFX Kit 2	525	80	64	0	101	Footsteps
469	24	126	0	40	Under Street	526	81	64	0	113	Machine Gun
470	25	127	0	83	Perc Loop	527	82	64	0	114	Laser Gun
471	26	0	112	122	Ghost	528	83	64	0	115	Explosion
472	27	0	112	123	Haunted	529	84	64	0	116	Firework
473	28	0	112	124	Volcano	530	85	0	0	116	GM Woodblock
474	29	0	112	125	Laser Beam	531	86	0	0	117	GM Taiko Drum
475	30	0	112	126	Lo-Fi Looper	532	87	0	0	118	GM Melodic Tom
476	31	0	112	127	U.F.O. Takeoff	533	88	0	0	119	GM Synth Drum

Voice No.Order in charge (1-128)Program charge (1-128)Voice Name534890120GM Revrs Cymbal535900121GM Fret Noise5369100122GM Breath Noise5379200123GM Seashore5389300124GM Bird Tweet5399400125GM Telephone Ring5439700126GM Helicopter5419600127GM Applause5429700128GM Gunshot54310113108Kanun5442011378Kawala54310113106Oud 154420113106Oud 254530113106Oud 254750116112Mizmar5486011949Wataryat549709816Yang Qin5519098106Pi Pa55513098108Zheng55614098111Jing Hu55513096110Shang55614098112Suo Na55614098113Bonang556140			Bank	Select	MIDI	
535         90         0         0         121         GM Fret Noise           536         91         0         0         122         GM Breath Noise           537         92         0         0         123         GM Seashore           538         93         0         0         124         GM Bird Tweet           539         94         0         0         125         GM Telephone Ring           540         95         0         0         126         GM Applause           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           544         2         0         116         112         Mizmar           545         3         0         119         49         Wataryat           549         7         0					Change	Voice Name
536         91         0         0         122         GM Breath Noise           537         92         0         0         123         GM Seashore           538         93         0         0         124         GM Bird Tweet           539         94         0         0         125         GM Telephone Ring           540         95         0         0         126         GM Helicopter           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           550         8         0 <td< td=""><td>534</td><td>89</td><td>0</td><td>0</td><td>120</td><td>GM Revrs Cymbal</td></td<>	534	89	0	0	120	GM Revrs Cymbal
537         92         0         0         123         GM Seashore           538         93         0         0         124         GM Bird Tweet           539         94         0         0         125         GM Telephone Ring           540         95         0         0         126         GM Helicopter           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           550         8         0         99         106         Pi Pa           551         9         0         <	535	90	0	0	121	GM Fret Noise
538         93         0         0         124         GM Bird Tweet           539         94         0         0         125         GM Telephone Ring           540         95         0         0         126         GM Helicopter           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98	536	91	0	0	122	GM Breath Noise
539         94         0         0         125         GM Telephone Ring           540         95         0         0         126         GM Helicopter           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           543         1         0         113         78         Kawala           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           544         2         0         116         112         Mizmar           545         3         0         116         112         Mizmar           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16	537	92	0	0	123	GM Seashore
540         95         0         0         126         GM Helicopter           541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           550         8         0         99         106         Pi Pa           551         9         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         110         Sheng           555         13         0         96         110	538	93	0	0	124	GM Bird Tweet
541         96         0         0         127         GM Applause           542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         97         111         Ban Hu           553         11         0         97         111         Banjo           555         13         0         96         110         Sheng           555         13         0         112         106	539	94	0	0	125	GM Telephone Ring
542         97         0         0         128         GM Gunshot           ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           544         2         0         113         106         Oud 1           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         S	540	95	0	0	126	GM Helicopter
ETHNIC           543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         112         106         Ba	541	96	0	0	127	GM Applause
543         1         0         113         108         Kanoun           544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         113         Bonang           557         15         0         112         106         Banjo           558	542	97	0	0	128	GM Gunshot
544         2         0         113         78         Kawala           545         3         0         113         106         Oud 1           546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         113         Bonang           557         15         0         112         106         Banjo           558				ETH	NIC	
545       3       0       113       106       Oud 1         546       4       0       98       106       Oud 2         547       5       0       116       112       Mizmar         548       6       0       119       49       Wataryat         549       7       0       96       111       Er Hu         550       8       0       99       106       Pi Pa         551       9       0       98       16       Yang Qin         552       10       0       98       111       Jing Hu         553       11       0       97       111       Ban Hu         554       12       0       98       108       Zheng         555       13       0       96       110       Sheng         556       14       0       98       112       Suo Na         557       15       0       112       106       Banjo         558       16       0       114       113       Asian Bell         559       17       0       96       113       Bonang         561       19	543	1	0	113	108	Kanoun
546         4         0         98         106         Oud 2           547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         113         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559	544	2	0	113	78	Kawala
547         5         0         116         112         Mizmar           548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         113         Bonag           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           561	545	3	0	113	106	Oud 1
548         6         0         119         49         Wataryat           549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         113         Bonag           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           561	546	4	0	98	106	Oud 2
549         7         0         96         111         Er Hu           550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar <t< td=""><td>547</td><td>5</td><td>0</td><td>116</td><td>112</td><td>Mizmar</td></t<>	547	5	0	116	112	Mizmar
550         8         0         99         106         Pi Pa           551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         113         Bonag           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           <	548	6	0	119	49	Wataryat
551         9         0         98         16         Yang Qin           552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         105         GM Saiar           563	549	7	0	96	111	Er Hu
552         10         0         98         111         Jing Hu           553         11         0         97         111         Ban Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           556         14         0         98         112         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto	550	8	0	99	106	Pi Pa
553         11         0         97         111         Ban Hu           553         11         0         97         111         Ban Hu           554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           555         13         0         96         110         Sheng           556         14         0         98         112         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565 <td>551</td> <td>9</td> <td>0</td> <td>98</td> <td>16</td> <td>Yang Qin</td>	551	9	0	98	16	Yang Qin
554         12         0         98         108         Zheng           555         13         0         96         110         Sheng           556         14         0         98         112         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Saiar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe	552	10	0	98	111	Jing Hu
555         13         0         96         110         Sheng           556         14         0         98         112         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	553	11	0	97	111	Ban Hu
556         14         0         98         112         Suo Na           557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	554	12	0	98	108	Zheng
557         15         0         112         106         Banjo           558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	555	13	0	96	110	Sheng
558         16         0         114         113         Asian Bell           559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Bagpipe           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	556	14	0	98	112	Suo Na
559         17         0         96         113         Bonang           560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Bagpipe           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	557	15	0	112	106	Banjo
560         18         0         98         115         Thai Bells           561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Bagpipe           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	558	16	0	114	113	Asian Bell
561         19         0         32         105         Detuned Sitar           562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Bagpipe           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	559	17	0	96	113	Bonang
562         20         0         0         105         GM Sitar           563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	560	18	0	98	115	Thai Bells
563         21         0         0         106         GM Banjo           564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	561	19	0	32	105	Detuned Sitar
564         22         0         0         107         GM Shamisen           565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	562	20	0	0	105	GM Sitar
565         23         0         0         108         GM Koto           566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	563	21	0	0	106	GM Banjo
566         24         0         0         109         GM Kalimba           567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	564	64 22 0		0	107	GM Shamisen
567         25         0         0         110         GM Bagpipe           568         26         0         0         111         GM Fiddle	565	23	0	0	108	GM Koto
568         26         0         0         111         GM Fiddle	566	24	0	0	109	GM Kalimba
	567	25	0	0	110	GM Bagpipe
569 27 0 0 112 GM Shanai	568	26	0	0	111	GM Fiddle
	569	27	0	0	112	GM Shanai



# **Drum Kit List**

- " \_\_\_\_\_ " indicates that the drum sound is the same as "GM Standard Kit 1".
- Each percussion voice uses one note.
- The MIDI Note # and Note are actually one octave lower than keyboard Note # and Note. For example, in "128: Standard Kit 1", the "Seq Click H" (Note# 36/Note C1) corresponds to (Note# 24/Note C0).
- 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.)

K           Note           24           22           24           22           24           25           26           27           24           25           26           27           24           25           26           27           28           29           21           23           33           33           33           34           35           36           37           38           137           37           38           21           33           34           35           36           37           38           39           31           32           33           33           34           35           36           37           38           39           310	Keybb ke No. 225 226 227 28 29 30 31 33 34 35 33 34 35 36 37 38 39 40 41 42 43 39 40 41 42 44 44 44 44 44 44 44 44 44	127)/LSB Note D D C T 0 0 0 0 0 0 0 0 0 0 0 0 0		IDI           Note           C# -1           D -1           E -1           F -1           FG -1           F# -1           G 4 -1           A -1           A# -1           B -1           C 40           O 0           D 0           D 0           D 40           F 0           F 0           F 0           F 0           G 0	127/000/00 GM Standard Kit 1 Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click H Brush Tap Brush Sap Brush Swirl Brush Tap Swirl Snare Roll	Key Alte off Gi	127/000/C       Ide     Standard Kit       Surdo Mute     Surdo Open       Hi Q     Whip Slap       Scratch H     Scratch L       Finger Snap     Click Noise       Metronome Bell     Seq Click L       Seq Click H     Brush Tap       Brush Swirl	V81 Key off	Alternate Group 3 3 	127/000/08 Analog T8 Kit Snare Hammer Kick ZapHard Snare Garg L Kick TekPower	Key off	Alternate Group 3 3 4 4 4	127/000/08: Analog T9 Kit Snare D&B1 Kick Break2	3 off	Alternate Group 3 3 	127/00/084 Break Kit Snare Break 8	Key off	Alternati Group 3 3 4 4 4
Note           21           22           22           22           23           33           33           33           34           35           36           37           38           10           11           33           12           133           11           133           11           133           11           133           11           141           141           141           141           141           141           141           141           141           141           141           141           142           142           142           142	te No. 225 226 227 228 229 300 31 331 332 333 34 35 36 337 38 39 40 41 42 43 39 40 41 42 44 44 44 44 44 44 44 44 44	Note           C#         0           D         0           D#         0           F#         0           F#         0           G         0           G#         0           G#         0           A         0           B         0           C#         1           D         1           E         1           F#         1           G         1           G#         1           G#         1           G#         1	Note No.           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27           28           29           30           31           32	Note           C#         -1           D#         -1           D#         -1           F         -1           F#         -1           G#         -1           G#         -1           A#         -1           A#         -1           D         -1           D         0           D         0           D#         0           C#         0           F#         0           F         0           F#         0           G         0	Surdo Mute Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Bell Seq Click L Seq Click H Brush Tap Brush Tap Brush Slap Brush Tap Swirl		pp Standard Nt     Surdo Mute     Surdo Open     Hi Q     Whip Slap     Scratch H     Scratch L     Finger Snap     Click Noise     Metronome Click     Metronome Bell     Seq Click L     Seq Click H     Brush Tap		Group 3 3 4	Snare Hammer Kick ZapHard Snare Garg L	Key off	Group 3 3 4	Snare D&B1	Key off	Group 3 3 4	Snare Break 8	Key off	Group 3 3 4
21           22           22           23           24           25           33           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           314           314	225         226           227         228           229         330           331         332           333         34           355         336           366         337           388         339           440         441           442         443           444         445           446         447           448         488	$\begin{array}{cccc} C \# & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ F & 0 \\ G \# & 0 \\ G \# & 0 \\ G \# & 0 \\ A \# & 0 \\ B & 0 \\ C & 1 \\ C & 1 \\ D & 1 \\ E & 1 \\ F & 1 \\ F & 1 \\ F & 1 \\ F & 1 \\ G & 1 \\ A & 1 \\ \end{array}$	13         14         15         16         17         18         19         20         21         22         23         24         25         26         27         28         29         30         31         32	$\begin{array}{cccc} C \# & -1 \\ D & -1 \\ D \# & -1 \\ E & -1 \\ F & -1 \\ F & -1 \\ G & -1 \\ G \# & -1 \\ G \# & -1 \\ A \# & -1 \\ A \# & -1 \\ B & -1 \\ C & 0 \\ C \# & 0 \\ C \# & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ G & 0 \\ \end{array}$	Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Bell Seq Click L Seq Click L Brush Tap Brush Tap Brush Slap Brush Slap	0	Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap		3	Kick ZapHard Snare Garg L		3			3			3
C1 C#1 33 C1 C#1 33 D1 D#1 33 E1 D#1 33 E1 D#1 44 F1 F#1 44 G1 G#1 44 A1 A#1 44 B1 A#1 44 C2 C#2 44 D2 D#2 5	226         227           228         229           330         331           332         333           34         35           366         337           388         339           440         441           442         443           444         445           446         447           448         488	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	$\begin{array}{cccc} D & -1 \\ D^{\#} & -1 \\ E & -1 \\ F & -1 \\ F^{\#} & -1 \\ G & -1 \\ G^{\#} & -1 \\ G^{\#} & -1 \\ A^{\#} & -1 \\ A^{\#} & -1 \\ B & -1 \\ C & 0 \\ C^{\#} & 0 \\ C^{\#} & 0 \\ D^{\#} & 0 \\ E & 0 \\ F^{\#} & 0 \\ F^{\#} & 0 \\ G & 0 \end{array}$	Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Bell Seq Click L Seq Click L Brush Tap Brush Tap Brush Slap Brush Slap	0	Surdo Open Hi Q Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap		3	Kick ZapHard Snare Garg L		3			3			3
C1 C#1 33 34 D1 D#1 33 E1 D#1 44 G1 F#1 44 G1 F#1 44 G1 G#1 44 B1 44 C2 C#2 44 D2 D#2 5	28         29           30         31           32         33           34         35           36         37           38         39           40         41           42         43           44         45           44         45           44         45           44         44           45         446           47         448	$\begin{array}{c c} E & 0 \\ F & 0 \\ F \# & 0 \\ G & 0 \\ G \# & 0 \\ A \# & 0 \\ B & 0 \\ C & 1 \\ C \# & 1 \\ D & 1 \\ D & 1 \\ E & 1 \\ F \# & 1 \\ G & 1 \\ G \# & 1 \\ A & 1 \\ \end{array}$	16           17           18           19           20           21           22           23           24           25           26           27           28           29           30           31           32	$\begin{array}{cccc} E & -1 \\ F & -1 \\ F & -1 \\ G & -1 \\ G & -1 \\ G & -1 \\ A & -1 \\ A & -1 \\ A & -1 \\ A & -1 \\ C & 0 \\ C & 0 \\ C & 0 \\ C & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ F & 0 \\ G & 0 \\ \end{array}$	Whip Slap Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click L Seq Click L Brush Tap Brush Slap Brush Slap Brush Tap Swirl	0	Whip Slap         Scratch H         Scratch L         Finger Snap         Click Noise         Metronome Click         Metronome Bell         Seq Click L         Seq Click H         Brush Tap			Kick ZapHard Snare Garg L								
C1 C#1 33 33 33 33 33 33 33 33 33 33 33 33 33	29         30           31         32           333         33           333         34           335         36           337         38           339         40           441         42           443         444           445         446           447         448	$\begin{array}{c cccc} F & 0 \\ F \# & 0 \\ G & 0 \\ G \# & 0 \\ A & 0 \\ A \# & 0 \\ B & 0 \\ C & 1 \\ C & 1 \\ D & 1 \\ D & 1 \\ D & 1 \\ D & 1 \\ F & 1 \\ F & 1 \\ F & 1 \\ G & 1 \\ G \# & 1 \\ A & 1 \\ \end{array}$	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	$\begin{array}{cccc} F & -1 \\ F \# & -1 \\ G & -1 \\ G \# & -1 \\ A & -1 \\ A & -1 \\ A & -1 \\ B & -1 \\ C & 0 \\ C \# & 0 \\ C \# & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ F & 0 \\ G & 0 \\ \end{array}$	Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap Brush Tap Brush Slap Brush Slap Brush Tap Swirl	0	Scratch H Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap			Kick ZapHard Snare Garg L								
30           33           33           33           33           33           33           34           35           36           37           38           39           31           32           33           33           33           33           34           35           36           37           38           39           31           31           32           33           34           35           36           37           38           39           31           31           32           33           34           35           36           37           38           39           310           311           32           311           312           313           314	30         31           32         33           333         34           335         36           337         36           338         39           440         44           442         43           444         445           446         447           448         448	$\begin{array}{cccc} F \# & 0 \\ G & 0 \\ G \# & 0 \\ A & 0 \\ A & 0 \\ B & 0 \\ C & 1 \\ C \# & 1 \\ D & 1 \\ C \# & 1 \\ F & 1 \\ F & 1 \\ G & 1 \\ G \# & 1 \\ A & 1 \\ \end{array}$	18           19           20           21           22           23           24           25           26           27           28           29           30           31           32	$\begin{array}{cccc} F \# & -1 \\ G & -1 \\ G \# & -1 \\ A & -1 \\ A & -1 \\ A \# & -1 \\ B & -1 \\ C & 0 \\ C \# & 0 \\ C \# & 0 \\ D & 0 \\ D & 0 \\ D \# & 0 \\ E & 0 \\ F \# & 0 \\ G & 0 \\ \end{array}$	Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap Brush Tap Brush Swirl Brush Slap Brush Tap Swirl	0	Scratch L Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap			Kick ZapHard Snare Garg L								
3           33           33           34           35           36           37           38           39           31           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           31           32           33           34           35           36           37           38           39           310           311           32           312           313           314	31           32           33           34           35           36           37           38           39           40           41           42           43           44           45           46           47           48	G         0           G#         0           A         0           A#         0           B         0           C         1           D         1           D#         1           F#         1           F#         1           G##         1           G##         1	19           20           21           22           23           24           25           26           27           28           29           30           31           32	$\begin{array}{ccc} G & -1 \\ G^{\#} & -1 \\ A & -1 \\ A^{\#} & -1 \\ B & -1 \\ C & 0 \\ C & 0 \\ C & 0 \\ C & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ F^{\#} & 0 \\ G & 0 \end{array}$	Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap Brush Sap Brush Slap Brush Slap	0	Finger Snap Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap		4	Kick ZapHard Snare Garg L		4			4			4
33         33           33         34           34         35           D1         34           D1         34           E1         D#1           34         44           G1         G#1           G4         44           G1         G#1           G4         44           G1         G#1           G4         44           B1         44           C2         C#2           C2         C#2           D4         5	32         33           333         34           35         36           36         37           388         39           440         41           442         43           444         45           446         447           448         448	G#         0           A         0           A#         0           C         1           C         1           D         1           D#         1           F         1           G         1           G#         1           A         1	20 21 22 23 24 25 26 27 28 29 30 31 32	$\begin{array}{ccc} G^{\#} & -1 \\ A & -1 \\ B & -1 \\ B & -1 \\ C & 0 \\ C & 0 \\ C & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ D & 0 \\ F & 0 \\ F & 0 \\ F & 0 \\ G & 0 \end{array}$	Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap Brush Swirl Brush Slap Brush Tap Swirl		Click Noise Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap			Kick ZapHard Snare Garg L								
33       34       34       34       34       34       35       36       37       38       39       31       31       33       34       35       36       37       38       39       31       34       41       44       31       44       36       37       38       39       39       39       39       31       44       31       44       31       44       31       44       31       44       31       44       31       44       31       44       31       44       31       44       31       44       32       34       34       34       34       35       36       37       36       37       36 <td>33         33           334         35           335         336           337         38           339         40           441         42           443         445           446         447           448         448</td> <td>A         0           A#         0           B         0           C         1           C#         1           D         1           D#         1           F         1           G         1           G#         1           A         1</td> <td>21 22 23 24 25 26 27 28 29 30 31 32</td> <td>A         -1           A#         -1           B         -1           C         0           C#         0           D#         0           D#         0           F         0           F#         0           G         0</td> <td>Metronome Click Metronome Bell Seq Click L Brush Tap Brush Swirl Brush Suirl Brush Slap Brush Tap Swirl</td> <td></td> <td>Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap</td> <td></td> <td></td> <td>Snare Garg L</td> <td></td> <td></td> <td>NICK DIEakz</td> <td></td> <td></td> <td></td> <td></td> <td><math>\vdash</math></td>	33         33           334         35           335         336           337         38           339         40           441         42           443         445           446         447           448         448	A         0           A#         0           B         0           C         1           C#         1           D         1           D#         1           F         1           G         1           G#         1           A         1	21 22 23 24 25 26 27 28 29 30 31 32	A         -1           A#         -1           B         -1           C         0           C#         0           D#         0           D#         0           F         0           F#         0           G         0	Metronome Click Metronome Bell Seq Click L Brush Tap Brush Swirl Brush Suirl Brush Slap Brush Tap Swirl		Metronome Click Metronome Bell Seq Click L Seq Click H Brush Tap			Snare Garg L			NICK DIEakz					$\vdash$
34           33           C1         33           D1         33           D1         33           E1         44           F1         44           G11         44           B1         44           C2         44           D2         5	34       35       36       37       38       39       40       41       42       43       44       45       46       47       48	A#         0           B         0           C         1           C#         1           D         1           D#         1           F#         1           G         1           G#         1           A         1	22 23 24 25 26 27 28 29 30 31 32	A#       -1         B       -1         C       0         C#       0         D#       0         D#       0         F       0         F#       0         G       0	Metronome Bell Seq Click L Seq Click H Brush Tap Brush Swirl Brush Slap Brush Tap Swirl		Metronome Bell Seq Click L Seq Click H Brush Tap						Snare Distortion			Snare Break 9		
33           C1         31           D1         33           E1         41           F1         44           F1         44           B1         44           B1         44           C2         44           D2         5	35       36       37       38       39       40       41       42       43       44       45       46       47       48	B         0           C         1           C#         1           D         1           D#         1           F#         1           G         1           G#         1           G#         1	23 24 25 26 27 28 29 30 31 32	B         -1           C         0           C#         0           D         0           D#         0           F         0           F#         0           G         0	Seq Click L Seq Click H Brush Tap Brush Swirl Brush Slap Brush Tap Swirl		Seq Click L Seq Click H Brush Tap						Kick TekPower			Hi-Hat Closed Break1	1 ]	
C#1         33           D1         33           E1         44           F1         44           G1         44           G1         44           B1         44           C2         44           C2         44           D2         5           D42         5	37       38       39       40       41       42       43       44       45       46       47       48	C# 1 D 1 D# 1 E 1 F 1 F# 1 G 1 G# 1 A 1	25 26 27 28 29 30 31 32	C# 0 D 0 D# 0 E 0 F 0 F# 0 G 0	Brush Tap Brush Swirl Brush Slap Brush Tap Swirl		Brush Tap			Kick Slimy			Kick Distortion RM			Hi-Hat Closed Break2		
C+1         3:           D1         33           E1         44           F1         44           G1         44           G1         44           B1         44           C2         44           D2         5	38       39       40       41       42       43       44       45       46       47       48	D       1         D#       1         E       1         F       1         F#       1         G       1         G#       1         A       1	26 27 28 29 30 31 32	D 0 D# 0 E 0 F 0 F# 0 G 0	Brush Swirl Brush Slap Brush Tap Swirl					Kick T8 1			Kick T9 2			Kick Break Deep		
E1 Di1 33 E1 44 F1 44 G1 E1 44 G1 44 G1 44 G1 44 B1 44 B1 44 C2 Ci 2 44 D2 Ci 2 5	39       40       41       42       43       44       45       46       47       48	D#       1         E       1         F       1         G#       1         G#       1         A       1	27 28 29 30 31 32	D# 0 E 0 F 0 F# 0 G 0	Brush Slap Brush Tap Swirl		Brush Swirl			Snare AnCR			Snare AnCR			Snare Hip		
E1 440 F1 441 G1 442 G1 442	40 41 42 43 44 45 46 47 48	E 1 F 1 F# 1 G 1 G# 1 A 1	28 29 30 31 32	E 0 F 0 F# 0 G 0	Brush Tap Swirl			0		Snare T8 4			Snare T9 5			Snare Lo-Fi		$\vdash$
F1 44 G1 44 G1 44 A1 44 B1 44 C2 44 D2 55 D#2 55	41 42 43 44 45 46 47 48	F       1         F#       1         G       1         G#       1         A       1	29 30 31 32	F 0 F# 0 G 0			Brush Slap	-		Snare ClapAna			Clap AnSm			Snare Clappy	-	<u> </u>
F#1         42           G1         43           G#1         44           A1         44           B1         44           C#2         44           D2         56           D#2         55	42 43 44 45 46 47 48	F# 1 G 1 G# 1 A 1	30 31 32	F# 0 G 0	Share Hon	0	Brush Tap Swirl Snare Roll	0		Snare T8 3 Tom T8 5	+		Snare T9Gate Snare RockRoll	0		Snare LdwHMono Snare RockRoll	0	<u> </u>
G1 44 G#1 44 A1 44 B1 A#1 44 C2 C#2 44 D2 55 D#2 55	43 44 45 46 47 48	G 1 G# 1 A 1	31 32	G 0	Castanet		Castanet	+		Snare T8 5			Snare T9 3	<u> </u>		Snare Gate1		<u> </u>
G#1         44           A1         45           B1         44           C2         44           C2         45           D2         50           D2         50	44 45 46 47 48	G# 1 A 1		0 1 1	Snare Soft		Snare Soft	+		Kick T8 3			Snare T9 4			Snare Mid		
A#1 44 B1 43 C2 44 C#2 44 D2 50 D2 55	46 47 48		33	G# 0	Sticks		Sticks	1		Snare T8 4			Snare T9Gate			Snare BreakRim		
B1 47 C2 C#2 48 D2 50 D#2 57	47 48	Δ# 1		A 0	Kick Soft		Kick Soft			Kick T8 2			Kick T9 4			Kick Break Heavy		
C2 C#2 D2 D2 D#2 C#2 50 C#2	48		34	A# 0	Open Rim Shot		Open Rim Shot			Snare T8 3			Snare T9 5			Snare Hip Rim4		
C#2 49 D2 50 D#2 51		B 1	35	B 0	Kick Tight	$\vdash$	Kick Tight			T8 Kick Bass			Kick T9 1	<u> </u>		Kick Break2		—
D2 50		C 2 C# 2	36 37	C 1 C# 1	Kick Side Stick		Kick Side Stick	+		Kick T8 1 Snare T8 Rim	+		Kick T9 3 Snare T9 Rim	-		Kick Break1	+	<u> </u>
D#2 5		C# 2 D 2	37	D 1	Side Stick Snare		Side Stick Snare	+		Snare T8 Rim Snare T8 2	+		Snare T9 Rim Snare T9 1	-		Snare Hip Rim1 Snare Break3	-	H
		D# 2	39	D# 1	Hand Clap	$\vdash$	Hand Clap	-		Clap T9	+		Clap T9	-		Share Break1		<u> </u>
_ <b>ند</b>    5;		E 2	40	E 1	Snare Tight		Snare Tight	+		Snare T8 1	+		Snare T9 2			Snare Break2		<u> </u>
F2 50		F 2	41	F 1	Floor Tom L		Floor Tom L			Tom T8 1			Tom T9 1			Tom Break 1		
F#2 54	54	F# 2	42	F# 1	Hi-Hat Closed		Hi-Hat Closed		1	Hi-Hat Closed T8 2		1	Hi-Hat Closed T9		1	Hi-Hat Closed Rock S		1
		G 2	43	G 1	Floor Tom H		Floor Tom H			Tom T8 2			Tom T9 2			Tom Break 2		
		G# 2	44	G# 1	Hi-Hat Pedal			_	1	Hi-Hat Open T8 1		1	Hi-Hat Pedal T9		1	Hi-Hat Pedal Rock		1
A2 5		A 2	45	A 1	Low Tom		Low Tom	-		Tom T8 3		4	Tom T9 3		-	Tom Break 3		-
A#2 58		A# 2 B 2	46 47	A# 1 B 1	Hi-Hat Open Mid Tom L		Hi-Hat Open Mid Tom L	-	1	Hi-Hat Open T8 1 Tom T8 4		1	Hi-Hat Open T9 Tom T9 4		1	Hi-Hat Half Open Rock Tom Break 4		1
		C 3	47	C 2	Mid Tom H		Mid Tom H	-		Tom T8 6			Tom T9 5			Tom Break 5		<u> </u>
C3 C#3 6		C# 3	49	C# 2	Crash Cymbal 1		Crash Cymbal 1	+		Crash T8			Crash T9			Crash Cymbal 2		
D3 62		D 3	50	D 2	High Tom		High Tom	-		Tom T8 7			Tom T9 6			Tom Break 6		
D#3 63	63	D# 3	51	D# 2	Ride Cymbal 1		Ride Cymbal 1			Ride T9			Ride T9			Ride Cymbal 3		
E3 64		E 3	52	E 2	Chinese Cymbal		Chinese Cymbal			Chinese Cymbal 2			Chinese Cymbal 2			Chinese Cymbal 2		
		F 3	53	F 2	Ride Cymbal Cup		Ride Cymbal Cup	_		Ride Cymbal Cup 2			Ride Cymbal Cup 2			Ride Cymbal Cup 2		L
F#3 66		F# 3 G 3	54	F# 2	Tambourine		Tambourine	_		Tambourine RX5			Tambourine RX5			Tambourine1 Hit		—
G3 67 G#3 68		G 3 G# 3	55 56	G 2 G# 2	Splash Cymbal Cowbell		Splash Cymbal Cowbell	-		Splash Cymbal Cowbell T8	+		Crash Cymbal 3 Cowbell1			Crash Cymbal 3 Cowbell1	-	<u> </u>
		A 3	50	A 2	Crash Cymbal 2		Crash Cymbal 2	-		Crash Cymbal 4			Crash Cymbal 4			Crash Cymbal 2		<u> </u>
<b>∆</b> #3 70		A# 3	58	A# 2	Vibraslap		Vibraslap			Vibraslap			Cowbell T8			Cowbell RX11		
B3 7		B 3	59	B 2	Ride Cymbal 2		Ride Cymbal 2	-		Ride Cymbal 3			Ride Cymbal 3			Ride Cymbal 2		
C4 72	72	C 4	60	C 3	Bongo H		Bongo H			Conga T8 5			Conga T8 5			Bongo H		
C#4 73		C# 4	61	C# 3	Bongo L		Bongo L			Conga T8 4			Conga T8 4			Bongo L		
		D 4	62	D 3	Conga H Mute		Conga H Mute			Conga T8 3			Conga Tip			Conga H Tip		<u> </u>
		D# 4 E 4	63 64	D# 3 E 3	Conga H Open	$\vdash$	Conga H Open	-		Conga T8 2	+		Conga Open Slap	-	<u> </u>	Conga H Open Slap	-	<u> </u>
		E 4 F 4	64 65	E 3 F 3	Conga L Timbale H		Conga L Timbale H	+		Conga T8 1 Timbale H	+		Conga Open Timbale H	-		Conga H Open Bongo2 H	+	<u> </u>
		F# 4	66	F# 3	Timbale L	$\vdash$	Timbale L	+	-	Timbale L	+		Timbale L	-		Bongo2 L	+	<u> </u>
		G 4	67	G 3	Agogo H		Agogo H	+		Glass H	+		Analog Click			Conga Open		
G#4 80	30	G# 4	68	G# 3	Agogo L		Agogo L			Glass L			Conga T8 1			Agogo L		
A4 8		A 4	69	A 3	Cabasa		Cabasa			Cabasa			Cabasa			Cabasa		
		A# 4		A# 3	Maracas		Maracas			MaracasT8			Maracas Slur			Maracas Slur		$\vdash$
		B 4		B 3	Samba Whistle H		Samba Whistle H	0		FxGun2	0		FxGun2	0		Timbale H		
0.0		C 5 C# 5	72 73	C 4 C# 4	Samba Whistle L Guiro Short	0	Samba Whistle L Guiro Short	0		FxGun1 Analog Shaker H	0		FxGun1 Scratch H2	0		Timbale L Scratch H2	0	-
		D 5	73	D 4	Guiro Long	0	Guiro Long	0		Analog Shaker L	0		Scratch Down	-		Scratch Down	0	-
D#5 8		D# 5	75	D# 4	Claves	⊢ ̃ ⊢	Claves	Ť		Clave T8	1 I		Hi Q3			Clave	Ť	<u> </u>
		E 5	76	E 4	Wood Block H		Wood Block H	1		Hi Q1			Hi Q1			Wood Block H		
F5 89	39	F 5	77	F 4	Wood Block L		Wood Block L			Hi Q2			Hi Q2			Wood Block L		
F#5 90		F# 5	78	F# 4	Cuica Mute		Cuica Mute			Scratch L			Scratch L			Scratch L		
G5 9'		G 5	79	G 4	Cuica Open		Cuica Open			Scratch L2	$\downarrow$		Scratch L2			Scratch L2		
		G# 5	80	G# 4	Triangle Mute		Triangle Mute	+	2	Triangle Mute		2	Triangle Mute	<u> </u>	2	Triangle Mute		2
		A 5 A# 5	81 82	A 4 A# 4	Triangle Open Shaker	$\left  \right $	Triangle Open Shaker	+	2	Triangle Open Analog Shaker	+	2	Triangle Open Analog Shaker	-	2	Triangle Open Kick Break 3	-	2
		A# 5 B 5	82	A# 4 B 4	Jingle Bells	$\vdash$	Jingle Bells	+		Sleigh Bell	+		Sleigh Bell	-		Kick Break 4		<u> </u>
		C 6	84	C 5	Bell Tree	$\vdash$	Bell Tree	+		Bell Tree	+		Bell Tree	-	<u> </u>	Kick Break 5	0	-
		C# 6	85	C# 5				1		Snare Hip1	+		Snare Piccolo			Kick Break 6	-	
	98	D 6	86	D 5						Snare Hip2			Snare T8 5			Kick Break 7		
		D# 6	87	D# 5						Snare Hip Gate			Snare RockRollD			Hi-Hat Closed Break3		
		E 6	88	E 5				-		Snare Break1			Snare Brush Mute			Snare Break 4		
		F 6	89	F 5		$\vdash$		+		Kick Blip			Kick Blip Hard	<u> </u>		Snare Break 5		<u> </u>
		F# 6 G 6	90 91	F# 5 G 5				+		Snare FX1 Kick FxHammer	+		Snare Jungle1 Kick Sustain			Snare Break 6 Snare Break 7	-	<del> </del>

	MSB(0		bice No. 12 SB(0-127)/PC(1-128) 127/000/001 MIDI 0100000001 Key Alternation			5	5		6 126/000/041			7 126/000/044			8 127/000/028				
	<u>`</u>	poard			GM Standard Kit 1	Key off	Alternate	Hip Hop Kit	Key off	Alternate	AfroCuban Kit	Key off	Alternate	Pop Latin kit	Key off	Alternate	Dance Kit1	Key off	Alternate
	Note No.	Note	Note No.	Note		off	Group	пір пор кії	off	Group	Allocuball Kit	off	Group	FOP Latin Kit	off	Group		off	Group
	25 26	C# 0		C# -1 D -1	Surdo Mute Surdo Open		3			5 5							Kick Dance 1 Kick Dance 2	┢	$\vdash$
	27	D# 0		D# -1	Hi Q		-			-							Hi Q Dance 2		
	28	E C	_	E -1	Whip Slap												Hi Q Dance 3		
	29 30	F 0		F -1	Scratch H Scratch L		4			6 6				Hand Clap			Scratch Dance 1 Scratch Dance 2	0	
	31	G		G -1	Finger Snap			Hi-Hat Closed T8 2		4							Solution Ballee 2	Ĕ	$\vdash$
	32	G# 0		G# -1	Click Noise			Tom T8 3											
	33 34	A 0 A# 0	_	A -1 A# -1	Metronome Click Metronome Bell			Hi-Hat Open T8 2 Tom T8 6		4	Conga H Tip			Conga H Tip			Dance Percussion 1 Reverse Dance 1	⊢	
	35	B 0		B -1	Seq Click L			Crash T8			Conga H Heel			Conga H Heel			Dance Percussion 2	$\vdash$	
C1	36	C 1	24	C 0	Seq Click H			Triangle Mute		1	Conga H Open			Conga H Open			Hi Q Dance 1		
C#1	37 38	C# 1 D 1		C# 0 D 0	Brush Tap Brush Swirl	0		Triangle Open Bell Tree		1	Conga H Mute			Conga H Mute			Snare Aanalog 3 Vinyl Noise	0	
D1 <b>D#1</b>	39	D# 1		D 0 D# 0	Brush Slap			Tambourine RX5			Conga H Slap Open Conga H Slap			Conga H Slap Open Conga H Slap			Snare Analog 4	F	
E1	40	E 1	28	E 0	Brush Tap Swirl	0		Tambourine RX5 2			Conga H Slap Mute			Conga H Slap Mute			Reverse Cymbal	0	
F1	41	F 1		F 0	Snare Roll	0		Kick HipHop9		0	Conga L Tip			Conga L Tip			Reverse Dance 2	0	
G1	42 43	F# 1 G 1		F# 0 G 0	Castanet Snare Soft			Hi-Hat Closed Tek Kick Gate		3	Conga L Heel Conga L Open			Conga L Heel Conga L Open			Hi Q 2 Snare Techno	⊢	
G#1	44	G# 1		G# 0	Sticks			Hi-Hat Open Lo-Fi		3	Conga L Mute			Conga L Mute			Snare Dance 1		
A1	45	A 1		A 0	Kick Soft			Kick Gran Casa Open			Conga L Slap Open			Conga L Slap Open			Kick Techno Q	$\vdash$	$\square$
B1 A#1	46 47	A# 1 B 1		A# 0 B 0	Open Rim Shot Kick Tight			Hi-Hat Reverse D&B Kick HipHop1			Conga L Slap Conga L Slide	0		Conga L Slap Conga L Slide	0		Rim Gate Kick Techno L	$\vdash$	+
C2	48	C 2		C 1	Kick			Kick AnCR			Bongo H Open 1 finger			Bongo H Open 1 finger	5		Kick Techno		
C#2	49	C# 2		C# 1	Side Stick			Snare AnSm Rim			Bongo H Open 3 finger			Bongo H Open 3 finger			Side Stick Analog	$\vdash$	
D2 <b>D#2</b>	50 51	D 2 D# 2		D 1 D# 1	Snare Hand Clap	$\left  \right $		Snare HipHop1 Snare Clappy			Bongo H Rim Bongo H Tip			Bongo H Rim Bongo H Tip			Snare Clap Dance Clap	$\vdash$	+
E2	52	E 2		E 1	Snare Tight			Snare HipHop2			Bongo H Heel			Bongo H Heel			Snare Dry	$\vdash$	
F2	53	F 2		F 1	Floor Tom L			Floor Tom L			Bongo H Slap			Bongo H Slap			Tom Analog 1		
— F#2	54	F# 2 G 2		F# 1 G 1	Hi-Hat Closed Floor Tom H		1	Hi-Hat Closed Hip Low Tom		2	Bongo L Open 1 finger			Bongo L Open 1 finger			Hi-Hat Closed Analog3 Tom Analog 2	⊢	1
G2 G#2	55 56	G 2 G# 2		G 1 G# 1	Hi-Hat Pedal		1	Hi-Hat Pedal Hip		2	Bongo L Open 3 finger Bongo L Rim			Bongo L Open 3 finger Bongo L Rim			Hi-Hat Closed Analog 4	-	1
A2	57	A 2		A 1	Low Tom			Mid Tom L			Bongo L Tip			Bongo L Tip			Tom Analog 3		
B2 A#2	58	A# 2		A# 1	Hi-Hat Open		1	Hi-Hat Open Hip		2	Bongo L Heel			Bongo L Heel			Hi-Hat Open Analog 2		1
	59 60	B 2 C 3		B 1 C 2	Mid Tom L Mid Tom H			High Tom Ride Cymbal 3			Bongo L Slap Timbale L Open			Bongo L Slap Timbale L Open			Tom Analog 4 Tom Analog 5	$\vdash$	
C3 C#3	61	C# 3	49	C# 2	Crash Cymbal 1			Crash Cymbal 3			Timbalo E opon						Crash Analog		
D3	62	D 3		D 2	High Tom			Shaker 2									Tom Analog 6		
E3 D#3	63 64	D# 3 E 3		D# 2 E 2	Ride Cymbal 1 Chinese Cymbal			Scratch Bd F Scratch Bd R										⊢	
F3	65	F 3		F 2	Ride Cymbal Cup			Kick HipHop2			Paila L			Paila L					
— F#3	66	F# 3		F# 2	Tambourine			Snare HipHop Rim2			Timbale H Open			Timbale H Open			Tambourine Analog	$\square$	
G3 G#3	67 68	G 3 G# 3		G 2 G# 2	Splash Cymbal Cowbell			HipHop clap2 HipHop Snap1									Cowbell Analog	⊢	
A3	69	A 3	57	A 2	Crash Cymbal 2			Snare HipHop3									Componitionalog		
B3 A#3	70	A# 3		A# 2	Vibraslap			Electric Clap2			Daila II			Deile II			Vibraslap Analog	$\vdash$	
	71 72	B 3 C 4		B 2 C 3	Ride Cymbal 2 Bongo H			Kick Hip Deep Kick HipHop3			Paila H Cowbell Top			Paila H Cowbell Top			Ride Analog Bongo Analog H	⊢	
C4 C#4	73	C# 4		C# 3	Bongo L			Snare HipHop Rim3									Bongo Analog L		
D4	74	D 4		D 3	Conga H Mute			Snare HipHop5									Conga Analog H	$\square$	
E4 D#4	75 76	D# 4 E 4		D# 3 E 3	Conga H Open Conga L			Electric Clap1 Handbell H			Guiro Short			Guiro Short			Conga Analog M Conga Analog L		
F4	77	F 4		F 3	Timbale H			Kick HipHop4			Guiro Long	0		Guiro Long	0		oonga malog 2		
F#4	78	F# 4		F# 3	Timbale L			HipHop clap3										F	
G4 G#4	79 80	G 4 G# 4		G 3 G# 3	Agogo H Agogo L			HipHop Snap2 Snare HipHop Rim5			Tambourine			Tambourine				$\vdash$	
	81	A 4	69	A 3	Cabasa			HipHop flex1							_				
A4 B4	82			A# 3	Maracas			HipHop flex2									Maracas 2	Ę	
	83 84	B 4 C 5		B 3 C 4	Samba Whistle H Samba Whistle L	0		Shaker 2 Kick HipHop5			Maracas			Maracas				0	+
C5 C#5		C# 5	73	C# 4	Guiro Short	۲,		Snare HipHop Rim4			Shaker			Shaker				Ĕ	
05	86	D 5	74	D 4	Guiro Long	0		Snare HipHop6			Cabasa			Cabasa				0	
E5 D#5	87 88	D# 5		D# 4 E 4				Snare HipHop11 Kick HipHop10						Cuica Mute Cuica Open			Claves 2 Dance Percussion 3		
F5	89	F 5		F 4	Wood Block H			Snare HipHop7									Dance Percussion 4	$\vdash$	
F#5	90	F# 5	78	F# 4	Cuica Mute			HipHop clap5									Dance Breath 1	<b>—</b>	
G5	91	G 5 G# 5		G 4			0	Conga H Tip Conga H Heel									Dance Breath 2	0	
A5	92 93	G# 5		G# 4 A 4		$\vdash$	2	Conga H Heel Conga H Open						Triangle Mute		1		$\vdash$	2
A#5	94	A# 5	82	A# 4	Shaker		-	Conga L Open 1						Triangle Open		1			
B5	95 96	B 5		B 4	Jingle Bells Bell Tree			Conga L Open 2 Kick HipHop8						Bell Tree	_			F_	<u> </u>
C6	96 97	C 6 C# 6		C 5 C# 5		$\vdash$		HipHop clap6										$\vdash$	
	98	D 6	86	D 5				Snare T8 1											
	99	D# 6		D# 5				Snare T8 1 H										$\vdash$	$\mid = \mid$
	100 101	E 6		E 5 F 5		$\left  \right $		HipHop clap7 Tom T8 1										$\vdash$	+
	102	F# 6	90	F# 5				Hi-Hat Closed T8 2							_				
	103	G 6	91	G 5				Tom T8 2											

			e No.		12			9 126/000/037		10			11			13			
				PC(1-128) /IIDI	127/000/0			126/000/03	-		126/000/040	<u> </u>		127/000/12	_		127/000/002		1
	Note No.	board Note	Note No	-	GM Standard Kit 1	Key off	Alternate Group	Arab.Kit	Key off	Alternate Group	Indian Kit	Key off	Alternate Group	Chinese Kit	Key off	Alternate Group	Standard Kit 2	Key off	Alternat Group
	25	C# 0	13	C# -1	Surdo Mute		3	Zarb Back mf								2			3
	26	D 0	14	D -1	Surdo Open		3	Zarb Tom f								2			3
	27	D# 0	15	D# -1	Hi Q			Zarb Eshareh											
	28	E 0	16	E -1	Whip Slap			Zarb Whipping											
	29	F 0	17	F -1	Scratch H		4	Tombak Tom f								3			4
	30	F# 0	18	F# -1	Scratch L		4	Neghareh Tom f								3			4
	31	G 0	19	G -1	Finger Snap			Tombak Back f	<u> </u>						-				
	32	G# 0	20 21	G# -1 A -1	Click Noise Metronome Click			Neghareh Back f Tombak Snap f	-										
	34	A 0 A# 0	21	A -1 A# -1	Metronome Bell			Neghareh Pelang f	-		Hateli_Long				-				+
	35	B 0	23	B -1	Seq Click L			Tombak Trill	0		Hateli_Long Hateli_Short								+
	36	C 1	24	C 0	Seq Click H			Khaligi Clap 1	ľ		Baya_ge		1						-
1 C#1	37	C# 1	25	C# 0	Brush Tap			Zalgouta Open	0		Baya_ke		1						+
1	38	D 1	26	D 0	Brush Swirl	0		Khaligi Clap 2			Baya_ghe		1		0			0	1
D#1	39	D# 1	27	D# 0	Brush Slap			Zalgouta Close			Baya_ka		1						
1	40	E 1	28	E 0	Brush Tap Swirl	0		Arabic Hand Clap			Tabla_na		2		0			0	
1	41	F 1	29	F 0	Snare Roll	0		Tabel Tak 1			Tabla_tin		2		0		Snare Roll 2	0	
F#1	42	F# 1	30	F# 0	Castanet			Sagat 1			Tablabaya_dha		1						
1	43	G 1	31	G 0	Snare Soft			Tabel Dom			Tabla_tun		2				Snare Soft 2		
G#1	44	G# 1	32	G# 0	Sticks	<u> </u>		Sagat 2			Tablabaya_dhin	<u> </u>	1		-			<u> </u>	+
1	45	A 1	33	A 0	Kick Soft			Tabel Tak 2	-	<u> </u>	Tabla_di	-	2				Open Dim Chat II Oh		+
A#1	46	A# 1 B 1	34 35	A# 0 B 0	Open Rim Shot	-		Sagat 3 Rig Tik 3			Tablabaya_dhe	-	1				Open Rim Shot H Short	-	+
	47	B 1 C 2	35	B 0 C 1	Kick Tight Kick	-		Rig Tik 2	-		Tabla_ti Tabla_ne	-	2		-	-	Kick Tight Short Kick Short	-	+
2 C#2	48	C# 2	36	C# 1	Side Stick	-		Rig Tik Hard 1	+	<u> </u>	Tabla_ne Tabla taran	-	2				NOK SHULL		+
2 2	50	D 2	37	D 1	Snare			Rig Tik 1	-	<u> </u>	Tabla_taran		2			-	Snare Short		+
D#2	51	D# 2	39	D# 1	Hand Clap			Rig Tik Hard 2	+	<u> </u>	Chipri		-			-			+
2	52	E 2	40	E 1	Snare Tight			Rig Tik Hard 3			Kanjira_open	1	3				Snare Tight H		+
2	53	F 2	41	F 1	Floor Tom L			Riq Tish			Kanjira_slap		3						1
F#2	54	F# 2	42	F# 1	Hi-Hat Closed		1	Rig Snouj 2			Kanjira mute		3			1			1
2	55	G 2	43	G 1	Floor Tom H			Riq Roll	0		Kanjira_bendup		3						1
G#2	56	G# 2	44	G# 1	Hi-Hat Pedal		1	Riq Snouj			Kanjira_benddown		3			1			1
2	57	A 2	45	A 1	Low Tom			Riq Sak			Dholak_open		4						
A#2	58	A# 2	46	A# 1	Hi-Hat Open		1	Riq Snouj 3			Dholak_mute		4			1			1
2	59	B 2	47	B 1	Mid Tom L			Riq Snouj 4			Dholak_slap		4						
3	60	C 3	48	C 2	Mid Tom H			Riq Tak 1			Dhol_open		5						
-C#3	61	C# 3	49	C# 2	Crash Cymbal 1			Riq Brass 1			Dhol_mute		5						
3	62	D 3	50	D 2	High Tom			Riq Tak 2			Dhol_slap		5						
3 D#3	63	D# 3	51	D# 2	Ride Cymbal 1			Riq Brass 2			Dhol_slide		5						
3	64	E 3	52	E 2	Chinese Cymbal			Riq Dom	<u> </u>		Mridangam_normal		6						
3	65	F 3	53	F 2	Ride Cymbal Cup			Katem Tak Doff	_		Mridangam_open		6		-			-	
F#3	66	F# 3 G 3	54 55	F# 2 G 2	Tambourine	<u> </u>		Katem Dom Katem Sak 1	-		Mridangam_mute Mridangam_slap		6					-	+
3 G#3	67 68	G# 3	56	G 2 G# 2	Splash Cymbal Cowbell			Katem Tak 1			Mridangam_siap		6		-			-	
G#3 3	69	A 3	57	A 2	Crash Cymbal 2			Katem Sak 2	-		Chimta_open		7					-	+
	70	A# 3	58	A# 2	Vibraslap			Katem Tak 2	-		Chimta_open		7						+
3	71	B 3	59	B 2	Ride Cymbal 2			Daholla Sak 2			Chimta_ring		7						+
4	72	C 4	60	C 3	Bongo H			Daholla Sak 1			Dholki_open		8						+
4 C#4	73	C# 4	61	C# 3	Bongo L			Daholla Tak 1			Dholki mute		8						1
4	74	D 4	62	D 3	Conga H Mute			Daholla Dom			Dholki_slap		8						1
D#4	75	D# 4	63	D# 3	Conga H Open			Daholla Tak 2			Dholki_slide		8						
4	76	E 4	64	E 3	Conga L			Tablah Prok			Dholki_rim		8						
1	77	F 4	65	F 3	Timbale H			Tablah dom 2			Khol_open		9						
F#4	78	F# 4	66	F# 3	Timbale L			Tabla Roll of Edge	0		Khol_slide		9						
4	79	G 4	67	G 3	Agogo H			Tablah Tak Finger 4	-		Khol_mute		9	Dagu Mute	-	4			+
G#4	80	G# 4	68	G# 3	Agogo L	-		Tablah Tak Trill 1			Manjira_open	-	10	Zhongcha Mute	-	5		-	+
4 A#4	81	A 4		A 3				Tablah Tak Finger 3	-		Manjira_cls	-	10	Dagu Heavy Zhangaha Onon	-	4		-	+
4 A#4	82	A# 4 B 4			Maracas Samba Whiatlo H	<u> </u>		Tablah Tak Trill 2			Jhanji_open	-		Zhongcha Open Paigu Middle	-	5		0	+
	83 84	B 4 C 5		B 3 C 4		0		Tablah Tak Finger 2 Tablah Tak Finger 1	-		Jhanji_cls Mondira_open	-	11 12	Paigu Middle Paigu Low	-			0	+
5 C#5	84	C# 5		C# 4	Guiro Short	1		Tablah Tak Finger 1 Tablah Tik 2	-	<u> </u>	Mondira_open Mondira_close	-	12	Xiaocha Mute	+	6		1	+-
C#5	86	D 5		D 4		0		Tablah Tik 4	-		Mridang_open	-	12	Bangu	+	0		0	+
D#5	87	D# 5		D# 4	Claves	F		Tablah Tik 3	-		Mridang_mute	-	13	Xiaocha Open	-	6		۲	+
5	88	E 5		E 4	Wood Block H			Tablah Tik 1	1	<u> </u>	Mridang_rim		13	Bangzi	+				+
	89	F 5		F 4	Wood Block L			Tablah Tak 3	-		Mridang slide		13	Muyu Low	1	1			+
5 <b>F</b> #5	90	F# 5		F# 4	Cuica Mute			Tablah Tak 1	1		Khomokh_normal			Zhongluo Mute		7			$\vdash$
5	91	G 5		G 4				Tablah Tak 4	1		Khomokh_mute			Muyu Mid-Low	1	· ·			$\vdash$
	92	G# 5		G# 4	Triangle Mute		2	Tablah Tak 2			Khomokh_mltatk	1		Zhongluo Open	1	7			2
5	93	A 5		A 4	Triangle Open		2	Tablah Sak 2	1		Madal-A2	1		Muyu Middle					2
A#5	94	A# 5		A# 4	Shaker			Tablah Tremolo	0		Madal-A#2			Xiaoluo Open					1
5	95	B 5		B 4	Jingle Bells			Tablah Sak 1			Madal-B2			Triangle Mute		8			
6	96	C 6	84	C 5	Bell Tree	Ĺ		Tablah Dom 1			Madal-C3			Triangle Open		8			
	97	C# 6	85	C# 5							Madal-C#3								
	98	D 6		D 5							Madal-D3								
	99	D# 6		D# 5							Madal-D#3								
	100	E 6	88	E 5							Madal-E3								
	101	F 6		F 5							Madal-F3								
	102	F# 6		F# 5							Madal-F#3								$\perp$
	103	G 6	91	G 5							Madal-G3								

			ce No			12			14			15			16			17		
		-127)/LS board	B(0-12		C(1-128)	127/000/0			127/000/009		A11	127/000/0	_	AD: 1	127/000/025	-	41	127/000/026		A11
	Note No.	Note	Note		Note	GM Standard Kit 1	Key off	Alternate Group	Room Kit	Key off	Alternate Group	Rock Kit	Key off	Alternate Group	Electronic Kit	Key off	Alternate Group	Analog Kit	Key off	Alternate Group
	25	C# 0			C# -1	Surdo Mute		3			3			3			3			3
	26	DC			D -1	Surdo Open		3			3			3			3			3
	27	D# 0			D# -1														_	
	28	E C			E -1 F -1	Whip Slap		4			4			4			4		-	4
	29 30	F# 0			F -1 F# -1	Scratch H Scratch L		4			4			4			4		-	4
	31	G			G -1	Finger Snap	<u> </u>	· ·											-	
	32	G# (	2	0	G# -1	Click Noise														
	33	A C			A -1	Metronome Click														
	34	A# (			A# -1	Metronome Bell	_									-			-	
	35 36	B ( C 1			B -1 C 0	Seq Click L Seq Click H													-	
C1 C#1	37	C# 1			C# 0														-	
D1	38	D 1			D 0	Brush Swirl	0			0			0			0			0	
E1 D#1	39	D# 1			D# 0	Brush Slap													L	
	40	E 1 F 1			E 0 F 0	Brush Tap Swirl Snare Roll	0			0			0		Reverse Cymbal	0		Reverse Cymbal	0	
F1	41	F# 1			F# 0	Castanet	10			0					Hi Q 2			Hi Q 2	10	
G1	43	G 1			G 0	Snare Soft						Snare Noisy			Snare Snappy Electro			Snare Noisy 4		
G#1	44	G# 1	3	2	G# 0	Sticks														
A1	45	A 1			A 0	Kick Soft						Kick Tight 2			Kick 3			Kick Tight 2		
B1 A#1	46	A# 1			A# 0	Open Rim Shot	-					Kick 2			Kick Cata			Kick Angles Chart	-	
	47 48	B 1 C 2			B 0 C 1	Kick Tight Kick	-					Kick 2 Kick Gate			Kick Gate Kick Gate Heavy			Kick Analog Short Kick Analog	-	
C2 C#2	40	C# 2			C# 1	Side Stick	-					Non Gale			Nich Gale Heavy			Side Stick Analog	-	
D2	50	D 2	: 3		D 1	Snare			Snare Snappy			Snare Rock			Snare Noisy 2			Snare Analog		
D#2	51	D# 2	: 3		D# 1	Hand Clap						_			-					
E2	52	E 2			E 1	Snare Tight	-		Snare Tight Snappy			Snare Rock Rim			Snare Noisy 3			Snare Analog 2	-	
F2	53 54	F 2			F 1 F# 1	Floor Tom L Hi-Hat Closed	<u> </u>	1	Tom Room 1		1	Tom Rock 1		1	Tom Electro 1		1	Tom Analog 1 Hi-Hat Closed Analog		1
G2	55	G 2			G 1	Floor Tom H	-		Tom Room 2		1	Tom Rock 2		1	Tom Electro 2		1	Tom Analog 2	-	- 1
G#2	56	G# 2			G# 1	Hi-Hat Pedal		1			1			1			1	Hi-Hat Closed Analog 2		1
A2	57	A 2			A 1	Low Tom			Tom Room 3			Tom Rock 3			Tom Electro 3			Tom Analog 3		
B2 A#2	58	A# 2			A# 1	Hi-Hat Open		1			1			1			1	Hi-Hat Open Analog		1
	59 60	B 2 C 3			B 1 C 2	Mid Tom L Mid Tom H	<u> </u>		Tom Room 4 Tom Room 5			Tom Rock 4 Tom Rock 5			Tom Electro 4 Tom Electro 5			Tom Analog 4	-	
C3 C#3	61	C# 3			C# 2	Crash Cymbal 1	-					TOTT HOCK 5			TOTT Electro 5			Tom Analog 5 Crash Analog	-	
D3	62	D 3			D 2	High Tom			Tom Room 6			Tom Rock 6			Tom Electro 6			Tom Analog 6	<u> </u>	
D#3	63	D# 3		1	D# 2	Ride Cymbal 1														
E3	64	E 3			E 2	Chinese Cymbal														
F3	65	F 3			F 2 F# 2	Ride Cymbal Cup	<u> </u>												-	
<b>F#3</b> G3	66 67	G 3			F# 2 G 2	Tambourine Splash Cymbal	-												-	
G#3	68	G# 3			G# 2	Cowbell												Cowbell Analog		
A3	69	A 3	5		A 2	Crash Cymbal 2														
B3 A#3	70	A# 3			A# 2	Vibraslap														
	71 72	B 3 C 4			B 2 C 3	Ride Cymbal 2 Bongo H	<u> </u>												-	
C4 C#4	72	C# 4			C# 3	Bongo L	-												-	
D4	74	D 4			D 3	Conga H Mute												Conga Analog H		
D#4	75	D# 4	6	3	D# 3	Conga H Open												Conga Analog M		
E4	76	E 4			E 3	Conga L												Conga Analog L		
F4	77	F 4			F 3														-	
G4	78 79	F# 4 G 4			F# 3 G 3	Timbale L Agogo H	-												-	
G4 G#4	80	G# 4			G# 3	Agogo L	1									-			-	
A4	81	A 4			A 3															
B4 A#4			7			Maracas												Maracas 2		
04	83	B 4				Samba Whistle H				0			0			0			0	
C5 C#5			7			Samba Whistle L Guiro Short	0			0			0			0			0	
D5		D 5	7	4	D 4		0			0			0			0			0	
D#5	87	D# 5	7	5	D# 4	Claves												Claves 2		
E5	88	E 5	i 71	6	E 4	Wood Block H														
F5 F#5	89	F 5			F 4			<u> </u>							Ormatak II C			Constate U.C.	<u> </u>	
G5	90 91	F# 5 G 5	i 71	8 9	F# 4 G 4		-	-							Scratch H 2 Scratch L 2	-		Scratch H 2 Scratch L 3	-	
G5 G#5	92	G# 5			G# 4		-	2			2			2			2		-	2
A5	93		8		A 4			2			2			2			2			2
A#5	94	A# 5	8	2	A# 4	Shaker								-						
B5	95		8																	
C6	96	C 6 C# 6		4			-												-	
	97 98	D 6		5 6		1	-									-			-	
	99	D# 6			D# 5	1	1													
	100	Εē	8	8	E 5															
	101			9																
	102	F# 6			F# 5											<u> </u>				
	103	Gé	9	1	G 5										l			l		

I	Voice No. 12 MSB(0-127)/LSB(0-127)/PC(1-128) 127/000/001			18	19			20								
	MSB(0			PC(1-128)		)1		127/000/113			127/000/033			127/000/041		
	Key	board	N	1IDI	GM Standard Kit 1	Key off	Alternate	Dance Kit2	Key off	Alternate	Jazz Kit	Key off	Alternate	Brush Kit	Key off	Alternate
	Note No.	Note	Note No.	Note		off	Group	Dance Miz	off	Group	0822 111	off	Group	Diusirini	off	Group
	25 26	C# 0 D 0	13 14	C# -1 D -1	Surdo Mute Surdo Open		3 3			3			3			3
	27	D# 0	15	D# -1	Hi Q		0			-						
	28	E 0	16	E -1	Whip Slap											
	29	F 0	17	F -1	Scratch H		4			4			4			4
	30	F# 0	18	F# -1	Scratch L		4			4			4			4
	31 32	G 0 G# 0	19 20	G -1 G# -1	Finger Snap 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											
C1	36	C 1	24	C 0	Seq Click H											L
D1	37 38	C# 1 D 1	25 26	C# 0 D 0	Brush Tap Brush Swirl	0			0			0			0	
D1	39	D# 1	27	D# 0	Brush Slap	-			Ĕ			Ĕ			L_	
E1	40	E 1	28	E 0	Brush Tap Swirl	0		Reverse Cymbal	0			0			0	
F1	41	F 1	29	F 0	Snare Roll	0			0			0			0	
F\$1	42	F# 1 G 1	30	F# 0 G 0	Castanet			Hi Q 2			Chara lazz H			Bruch Clan 0		
G1 G#1	43 44	G 1 G# 1	31 32	G 0 G# 0	Snare Soft Sticks			Snare Techno	-		Snare Jazz H			Brush Slap 2		-
A1	45	A 1	33	A 0	Kick Soft			Kick Techno Q								<u> </u>
A#1	46	A# 1	34	A# 0	Open Rim Shot			Rim Gate								
B1	47	B 1	35	B 0	Kick Tight			Kick Techno L								$\vdash$
C2	48 49	C 2 C# 2	36 37	C 1 C# 1	Kick Side Stick			Kick Techno Side Stick Analog	-		Kick Jazz	-		Kick Small		
D2	49 50	C# 2 D 2	37	D 1	Side Stick Snare			Side Stick Analog Snare Clap			Snare Jazz L	-		Brush Slap 3		<u> </u>
D#2	51	D# 2	39	D# 1	Hand Clap											
E2	52	E 2	40	E 1	Snare Tight			Snare Dry			Snare Jazz M			Brush Tap 2		
F2	53	F 2	41	F 1	Floor Tom L			Tom Analog 1			Tom Jazz 1			Tom Brush 1		
G2	54 55	F# 2 G 2	42 43	F# 1 G 1	Hi-Hat Closed Floor Tom H		1	Hi-Hat Closed Analog3 Tom Analog 2		1	Tom Jazz 2		1	Tom Brush 2		1
G#2	56	G# 2	44	G# 1	Hi-Hat Pedal		1	Hi-Hat Closed Analog 4		1	1011104222		1	Tom Brasinz		1
A2	57	A 2	45	A 1	Low Tom			Tom Analog 3			Tom Jazz 3			Tom Brush 3		
B2 A#2	58	A# 2	46	A# 1	Hi-Hat Open		1	Hi-Hat Open Analog 2		1			1			1
	59 60	B 2 C 3	47 48	B 1 C 2	Mid Tom L Mid Tom H			Tom Analog 4 Tom Analog 5			Tom Jazz 4			Tom Brush 4 Tom Brush 5		-
C3 C#3	61	C# 3	40	C# 2	Crash Cymbal 1			Crash Analog			Tom Jazz 5					-
D3	62	D 3	50	D 2	High Tom			Tom Analog 6			Tom Jazz 6			Tom Brush 6		
D#3	63	D# 3	51	D# 2	Ride Cymbal 1											
E3	64	E 3	52	E 2	Chinese Cymbal											<u> </u>
F3 F#3	65 66	F 3 F# 3	53 54	F 2 F# 2	Ride Cymbal Cup Tambourine				<u> </u>			-				
G3	67	G 3	55	G 2	Splash Cymbal											
G#3	68	G# 3	56	G# 2	Cowbell			Cowbell Analog								
A3	69	A 3	57	A 2	Crash Cymbal 2											
B3 A#3	70	A# 3	58	A# 2	Vibraslap											<u> </u>
	71 72	B 3 C 4	59 60	B 2 C 3	Ride Cymbal 2 Bongo H											
C4 C#4	73	C# 4	61	C# 3	Bongo L											
D4	74	D 4	62	D 3	Conga H Mute			Conga Analog H								
E4 D#4	75	D# 4	63	D# 3	Conga H Open			Conga Analog M								
	76 77	E 4 F 4	64 65	E 3 F 3	Conga L Timbale H		<u> </u>	Conga Analog L				-				<u> </u>
F4	78	F 4 F# 4	66	F 3	Timbale L				-			-				
G4	79	G 4	67	G 3	Agogo H											
G#4	80	G# 4	68	G# 3	Agogo L											
A4	81	A 4	69		Cabasa			Maraaaa 0								<u> </u>
B4 A#4	82 83	A# 4 B 4	70	A# 3 B 3	Maracas Samba Whistle H	0		Maracas 2	0			0			0	<u> </u>
	84	Б 4 С 5	72	с 4	Samba Whistle L	0			0			0			0	<u> </u>
C5 C#5	85	C# 5	73	C# 4	Guiro Short											
D5	86	D 5	74	D 4	Guiro Long	0			0			0			0	
E5	87	D# 5	75	D# 4	Claves			Claves 2								
	88 89	E 5 F 5	76 77	E 4 F 4	Wood Block H Wood Block L											
F5 F#5	90	F# 5	78	F# 4	Cuica Mute			Scratch H 2								
G5	91	G 5	79	G 4	Cuica Open			Scratch L 3								
G#5	92	G# 5	80	G# 4	Triangle Mute		2			2			2			2
A5	93	A 5	81	A 4	Triangle Open		2			2			2			2
B5 A#5	94 95	A# 5 B 5	82 83	A# 4 B 4	Shaker Jingle Bells				-			-				
C6	95	C 6	84	C 5	Bell Tree											<u> </u>
	97	C# 6	85	C# 5												
	98	D 6	86	D 5												
	99	D# 6	87	D# 5					<u> </u>			-				<del> </del>
	100	E 6 F 6	88 89	E 5 F 5					-			-				<u> </u>
	102	F# 6	90	F# 5												<u> </u>
	103	G 6	91	G 5												
	_							-			-				_	

	No:	- 11-	12			01	22			23					
	MSB(0-127)/LSB	e No.	PC(1-128)	12	)1		21 127/000/049			126/000/001			126/000/002		
	Keyboard		AIDI	GM Standard Kit 1	Key off	Alternate	Symphony Kit	Key off	Alternate	SFX Kit 1	Key	Alternate	SFX Kit 2	Key off	Alternate
	Note No. Note	Note No.			off	Group	Symphony Kit	off	Group	SFX KILI	off	Group	SFA NILZ	off	Group
	25 C# 0 26 D 0	13 14	C# -1 D -1	Surdo Mute		3		-	3						
	26 D 0 27 D# 0	14	D -1 D# -1	Surdo Open Hi Q		3			3					-	
	28 E 0	16	E -1	Whip Slap											
	29 F 0	17	F -1	Scratch H		4			4						
	30 F# 0	18	F# -1	Scratch L		4			4						
	31 G 0	19	G -1	Finger Snap				-							
	32 G# 0 33 A 0	20 21	G# -1 A -1	Click Noise Metronome Click											
	34 A# 0	22	A# -1	Metronome Bell											
	35 B 0	23	B -1	Seq Click L											
C1	36 C 1	24	C 0	Seq Click H											
C#1	37 C# 1 38 D 1	25 26	C# 0 D 0	Brush Tap Brush Swirl	0			0							
D1 D#1	39 D# 1	20	D# 0	Brush Slap											
E1	40 E 1	28	E 0	Brush Tap Swirl	0			0							
F1	41 F 1	29	F 0	Snare Roll	0			0							
F#1	42 F# 1	30	F# 0	Castanet											
G1	43 G 1 44 G# 1	31 32	G 0 G# 0	Snare Soft Sticks				$\vdash$			<u> </u>				
<mark>G#1</mark> A1	44 G# 1 45 A 1	32	A 0	Kick Soft			Kick Soft 2	-							
A#1	46 A# 1	34	A# 0	Open Rim Shot											
B1	47 B 1	35	B 0	Kick Tight			Gran Cassa								
C2	48 C 2	36	C 1	Kick			Gran Cassa Mute	1		Cutting Noise			Phone Call	0	
D2	49 C# 2 50 D 2	37 38	C# 1 D 1	Side Stick Snare			Band Snare	-		Cutting Noise 2	-		Door Squeak Door Slam	0	
D#2	50 D 2 51 D# 2	30	D# 1	Hand Clap			Band Gilare	1		String Slap			Scratch Cut	0	
E2	52 E 2	40	E 1	Snare Tight			Band Snare 2						Scratch H 3	0	
F2	53 F 2	41	F 1	Floor Tom L			Tom Jazz 1						Wind Chime	0	
F#2	54 F# 2	42	F# 1	Hi-Hat Closed		1			1				Telephone Ring	0	
G2 G#2	55 G 2 56 G# 2	43 44	G 1 G# 1	Floor Tom H Hi-Hat Pedal		1	Tom Jazz 2		1						
A2	57 A 2	44	A 1	Low Tom			Tom Jazz 3		1						
A#2	58 A# 2	46	A# 1	Hi-Hat Open		1			1						
B2	59 B 2	47	B 1	Mid Tom L			Tom Jazz 4								
C3	60 C 3	48	C 2	Mid Tom H			Tom Jazz 5								
C#3	61 C# 3 62 D 3	49 50	C# 2 D 2	Crash Cymbal 1 High Tom			Hand Cymbal Tom Jazz 6	-							
D3 D#3	63 D# 3	51	D# 2	Ride Cymbal 1			Hand Cymbal Short	-							
E3	64 E 3	52	E 2	Chinese Cymbal						Flute Key Click			Car Engine Ignition	0	
F3	65 F 3	53	F 2	Ride Cymbal Cup									Car Tires Squeal	0	
— F#3	66 F# 3	54	F# 2	Tambourine									Car Passing	0	
G3 G#3	67 G 3 68 G# 3	55 56	G 2 G# 2	Splash Cymbal Cowbell				-					Car Crash Siren	0	
A3	69 A 3	57	A 2	Crash Cymbal 2			Hand Cymbal 2						Train	0	
A#3	70 A# 3	58	A# 2	Vibraslap									Jet Plane	0	
B3	71 B 3	59	B 2	Ride Cymbal 2			Hand Cymbal 2 Short						Starship	0	
C4	72 C 4	60	C 3	Bongo H									Burst	0	
D4	73 C# 4 74 D 4	61 62	C# 3 D 3	Bongo L Conga H Mute									Roller Coaster Submarine	0	
D#4	74 D 4 75 D# 4	63	D# 3	Conga H Open										<b>F</b>	
E4	76 E 4	64	E 3	Conga L											
F4	77 F 4	65	F 3	Timbale H											
F#4	78 F# 4 79 G 4	66 67	F# 3 G 3	Timbale L Agogo H				-						$\square$	
G4 G#4	80 G# 4	67	G# 3	Agogo H Agogo L	-			-		Shower	0		Laugh	0	
A4	81 A 4	69	A 3	Cabasa				L		Thunder	0		Scream	0	
A#4	82 A# 4	70	A# 3	Maracas						Wind	0		Punch	0	
B4	83 B 4	71	B 3	Samba Whistle H	0			0		Stream	0		Heartbeat	0	
C5 C#5	84 C 5 85 C# 5	72 73	C 4 C# 4	Samba Whistle L Guiro Short	0			0		Bubble Feed	0		Footsteps	0	
D5	86 D 5	74	D 4	Guiro Long	0			0			F				
D#5	87 D# 5	75	D# 4	Claves				Ľ							
E5	88 E 5	76	E 4	Wood Block H											
F5	89 F 5	77	F 4	Wood Block L Cuica Mute				-			<u> </u>			$\vdash$	
<b>F#5</b> G5	90 F# 5 91 G 5	78 79	F# 4 G 4	Cuica Mute Cuica Open	-			$\vdash$			-			+	
G#5	92 G# 5	80	G# 4	Triangle Mute		2			2						
A5	93 A 5	81	A 4	Triangle Open		2			2						
B5 A#5	94 A# 5	82	A# 4	Shaker											
	95 B 5	83	B 4	Jingle Bells				-		Dec			Maahina Cun		
C6	96 C 6 97 C# 6	84 85	C 5 C# 5	Bell Tree				-		Dog Horse	0		Machine Gun Laser Gun	0	
	98 D 6	86	D 5					-		Bird Tweet	0		Explosion	0	
	99 D# 6	87	D# 5										Firework	0	
	100 E 6	88	E 5												
	101 F 6 102 F# 6	89	F 5					-							
	102 F# 6 103 G 6	90 91	F# 5 G 5		-			+		Maou	0			$\square$	
			- 0		_		l				<u> </u>		1		



Bank	Perfor- mance	Pattern	Sync Start	Main Voice	Dual Voice	Split Voice	Split Point	Chord Fingering
	1	RnB Ballad1 D,B	-	Power Grand	-	-	B2	Multi Finger
	2	RnB Ballad1 D,B	-	Sweetness	-	-	B2	Multi Finger
	3	RockPop D,B	-	Mega Steel Guitar	-	-	B2	Multi Finger
1	4	ElektroPop1	-	Da Pad	-	-	B2	Multi Finger
	5	SouthernRap1	On	After 1984	-	-	B2	Multi Finger
	6	RootRock	On	Rock Percussive	-	Over The Top	B2	Multi Finger
	7	Underground	On	Dancy Hook	Light Comp	-	B2	Multi Finger
	8	WestcoastRap1D	-	Lo-Fi Looper	Knock Bass	Laser Beam	B2	Multi Finger
	1	WestcoastRap2	On	Harpsichord	-	-	B2	Multi Finger
	2	JazzyRnB D	On	Sweetness	-	Finger Bass	B2	Multi Finger
	3	RnB Ballad1	On	Cool! Galaxy EP	-	-	B2	Full Keyboard
2	4	PowerRock	On	Cool! Blues Guitar	- Deney Heek	-	B2	Multi Finger
	5	Dancefloor	On	Simple Oct2	Dancy Hook	-	B2	Multi Finger
	6	Chillout	On	Inda Night	LFO Pad	-	B2	Multi Finger
	7	ClubSamba	On	Sweet! Flute	-	-	B2	Multi Finger
	8	TurkishDance D	-	Meow Pad	Arab.Kit	U.F.O. Takeoff	B2	Multi Finger
	1	SouthernRap2	On	Spiccato	-	Big Comp	B2	Multi Finger
	2	RnB Pop1	On	Orchestra Strings	-	Wurli Amped	B2	Multi Finger
	3	RnB Ballad1 D,B	On	Classic Piano	Slow Strings	-	B2	Full Keyboard
3	4	RockShuffle D,B	On	Cool! Blues Guitar	-	Rock Vibrato	B2	Multi Finger
-	5	Minimal	On	Crying	Trance Seq 2	-	B2	Multi Finger
	6	Ambient	On	Glass Arp	Amb Pad	-	B2	Multi Finger
	7	TurkishPop	On	Kanoun	Wataryat	Live! Steel Guitar	B2	Multi Finger
	8	HipHopPop	-	Volcano	Booty Bass	U.F.O. Takeoff	B2	Multi Finger
	1	EastcoastRap	On	Simple Oct1	Wah Clavi	-	B2	Multi Finger
	2	RnB Ballad2 D,B	On	GM Nylon Guitar	Mini Soft	Aggressive	B2	Multi Finger
	3	RockPop D,B	On	Single Dream	Amb Pad	Live! Steel Guitar	B2	Multi Finger
4	4	RockPop	On	Vintage C	-	-	B2	Multi Finger
-	5	RetroDisco	On	Spiccato	Spiccato	-	B2	Multi Finger
	6	AmbientRap	On	Dark Light	-	-	B2	Full Keyboard
	7	Garba	On	Zheng	Detuned Sitar	-	B2	Multi Finger
	8	Analog D	-	Haunted	Zen	-	B2	Multi Finger
	1	HipHopPop	On	Touch Clavi	-	-	B2	Multi Finger
	2	RnB Chart1 D,B	On	Early 70's	Sweet! Flute	Wurli Tremolo	B2	Multi Finger
	3	FunkPopRock	On	Cool! Organ	-	CP 80	B2	Multi Finger
5	4	FunkPopRock D,B	On	Mini Soft	-	Vintage Case	B2	Multi Finger
	5	ClubDance	On	Dancy Hook	-	W Phaser	B2	Multi Finger
	6	Analog	On	Sky Walk	-	Vapor	B2	Multi Finger
	7	LatinPop	On	Cool! Suitcase EP	-	Wurli Amped	B2	Multi Finger
	8	RnB Pop2 D,B	-	Footsteps	Phone Call	-	B2	Multi Finger
	1	WestcoastRap1	On	Power Grand	Rebirth '70	Wurli Tremolo	B2	Multi Finger
	2	RnB Ballad2 D,B	On	Spiccato	Spiccato	Chord Seq 1	B2	Multi Finger
	3	RnB Pop2 D,B	On	Mega Clean Guitar	-	Ober Brass	B2	Full Keyboard
6	4	HardRock D,B	On	Mega Overdrive Gt	-	-	B2	Multi Finger
•	5	Dancefloor	On	Snap Seq	Snap Seq	-	B2	Multi Finger
	6	JazzGroove	On	Amb Piano	Mystery Sine	Chorus EP	B2	Multi Finger
	7	TablaBeats D,B	On	Clack Bell	Tron Flute	-	B2	Multi Finger
	8	ChartPop D	-	Indian Kit	Bonang	-	B2	Multi Finger
	1	EastcoastRap D,B	On	Inda Night	Haunted	Slow LFO Pad	B2	Multi Finger
	2	FunkyJazz	On	Jazz Guitar	-	-	B2	Multi Finger
	3	OrientalPop	On	Oud 1	Mizmar	-	B2	Multi Finger
7	4	PowerRock D,B	On	Power Grand	-	-	B2	Full Keyboard
,	5	Underground D,B	On	Over The Top	Overdriven Guitar	Trance Bass	B2	Multi Finger
	6	AcidJazz D,B	On	Inda Night	-	Early 70's	B2	Multi Finger
	7	Reggae	On	Cool! Rotor Organ	-	Wurli Amped	B2	Multi Finger
	8	EastcoastRap	-	Analog T8 Kit	Bassoon	Folk Guitar	B2	Multi Finger
	1	RnB Chart2	On	Soft RnB	Mini Soft	Aggressive	B2	Multi Finger
	2	RnB Chart1	On	Prog Lead	-	-	B2	Multi Finger
	3	AfricanDance D,B	On	Kawala	-	Compact	B2	Multi Finger
8	4	ChartRock	On	Sforzando Brass	Sforzando Brass	Classic Piano	B2	Multi Finger
0	5	FunkyHouse D	On	Vintage'74	-	Fat Sine Resonance	B2	Multi Finger
	6	Ambient D	On	Car Engine Ignition	Long Spit	Live! Orchestra	B2	Multi Finger
				1 10 11	Thei Delle		DO	Multi Einenen
	7	TurkishDance D,B Underground D	On	Jing Hu Meow Pad	Thai Bells	-	B2 B2	Multi Finger Multi Finger

Bank	Perfor- mance	Genre	Bank	Perfor- mance	Genre
	1	НірНор		5	Dance
2–8	2	R&B/Jazz	2–8	6	Ambient
2-0	3	Рор	2-0	7	World
	4	Rock		8	SE



R

Pattern No.	Pattern Name
	НірНор
1	SouthernRap1
2	SouthernRap2
3	EastcoastRap
4	WestcoastRap1
5	WestcoastRap2
6	AmbientRap
7	HipHopPop
	R&B
8	RnB Chart1
9	RnB Chart2
10	RnB Ballad1
11	RnB Ballad2
12 13	RnB Soul RnB Pop1
13	RnB Pop2
	Pop and Rock
15	ChartPop
16	RockPop
17	FunkPopRock
18	ChartRock
19	PowerRock
20	PianoBallad
21	BluesRock
22	RootRock
23	HardRock
24	RockShuffle
D	ance/Ambient
25	ElektroPop1
26	ElektroPop2
27	Techno
28	Underground
29	Minimal
30	Dancefloor
31	ElektroDisco
32 33	FunkyHouse ClubDance
33	Garage
35	RetroDisco
36	Ambient
37	Chillout
38	Experimental
39	Analog
	Jazz
40	FunkyJazz
41	AcidJazz
42	JazzyRnB
43	JazzGroove
44	JazzRemixed
45	LatinJazz
	World
46	TurkishPop
47	TurkishDance
48	OrientalPop AfricanDanco
49	AfricanDance
50 51	LatinPop ClubSamba
51	Dancehall 1
52	Dancehall 2
53	Reggae
55	TablaBeats
56	Garba

Pattern No.	Pattern Name
	HipHop D,B
57	SouthernRap1D,B
58	SouthernRap2D,B
59	EastcoastRap D,B
60	WestcoastRap1D,B
61	WestcoastRap2D,B
62	AmbientRapD,B
63	HipHopPopD,B
00	R&B D,B
64	RnB Chart1D,B
65	RnB Chart2 D,B
66	RnB Ballad1 D,B
67	RnB Ballad2 D,B
68	RnB Soul D,B
69	RnB Pop1 D,B
70	RnB Pop2 D,B
-	p and Rock D,B
71	ChartPop D,B
72	RockPop D,B
72	FunkPopRock D,B
73	ChartRock D,B
74	PowerRock D,B
75	PianoBallad D,B
76	
77	BluesRock D,B RootRock D,B
79	HardRock D,B
80	RockShuffle D,B
	ce/Ambient D,B
81	ElektroPop1 D,B
82	ElektroPop2 D,B
83	Techno D,B
84	Underground D,B
85	Minimal D,B
86	Dancefloor D,B
87	ElektroDisco D,B
88	FunkyHouse D,B
89	ClubDance D,B
90	Garage D,B
91	RetroDisco D,B
92	Ambient D,B
93	Chillout D,B
94	Experimental D,B
95	Analog D,B
	Jazz D,B
96	FunkyJazz D,B
97	AcidJazz D,B
98	JazzyRnB D,B
99	JazzGroove D,B
100	JazzRemixed D,B
101	LatinJazz D,B
	World D,B
102	TurkishPop D,B
103	TurkishDance D,B
104	OrientalPop D,B
105	AfricanDance D,B
106	LatinPop D,B
107	ClubSamba D,B
108	Dancehall 1 D,B
109	Dancehall 2 D,B
110	Reggae D,B
111	TablaBeats D,B
112	Garba D,B

	-
Pattern No.	Pattern Name
110	HipHop D
113 114	SouthernRap1D SouthernRap2 D
115	EastcoastRap D
116	WestcoastRap1D
117	WestcoastRap2D
118	AmbientRap D
119	HipHopPop D
	R&B D
120	RnB Chart1D
121	RnB Chart2 D
122	RnB Ballad1 D
123	RnB Ballad2 D
124	RnB Soul D
125	RnB Pop1 D
126	RnB Pop2 D
	op and Rock D
127	ChartPop D
128	RockPop D
129 130	FunkPopRock D ChartRock D
130	PowerRock D
131	PianoBallad D
132	BluesRock D
134	RootRock D
135	HardRock D
136	RockShuffle D
	nce/Ambient D
137	ElektroPop1 D
138	ElektroPop2 D
139	Techno D
140	Underground D
141	Minimal D
142	Dancefloor D
143	ElektroDisco D
144	FunkyHouse D
145	ClubDance D
146	Garage D
147	RetroDisco D
148	Ambient D
149	Chillout D
150 151	Experimental D Analog D
101	Jazz D
152	FunkyJazz D
153	AcidJazz D
154	JazzyRnB D
155	JazzGroove D
156	JazzRemixed D
157	LatinJazz D
	World D
158	TurkishPop D
159	TurkishDance D
160	OrientalPop D
161	AfricanDance D
162	LatinPop D
163	ClubSamba D
164	Dancehall 1 D
165	Dancehall 2 D
166	Reggae D
167	TablaBeats D
168	Garba D



### • Reverb Types

No.	Туре	Description	MSB	LSB
1	HALL1		1	0
2	HALL2		1	16
3	HALL3		1	17
4	HALL4	Reverb simulating the acoustics of a hall.	1	18
5	HALL5		1	1
6	HALL M		1	6
7	HALL L		1	7
8	ROOM1		2	16
9	ROOM2		2	17
10	ROOM3		2	18
11	ROOM4		2	19
12	ROOM5	Powerb simulating the executive of a room	2	0
13	ROOM6	Reverb simulating the acoustics of a room	2	1
14	ROOM7		2	2
15	ROOM S		2	5
16	ROOM M		2	6
17	ROOM L		2	7
18	STAGE1		3	16
19	STAGE2	- Reverb suitable for a solo instrument.	3	17
20	STAGE3		3	0
21	STAGE4		3	1
22	PLATE1		4	16
23	PLATE2	Deverb simulating a plate reverb unit	4	17
24	PLATE3	Reverb simulating a plate reverb unit.	4	0
25	GM PLATE		4	7
26	NO EFFECT	No effect.	0	0

### • Chorus Types

No.	Туре	Description	MSB	LSB
1	CHORUS1	· · · · · ·	66	17
2	CHORUS2		66	8
3	CHORUS3		66	16
4	CHORUS4		66	1
5	CHORUS5		65	2
6	CHORUS6		65	0
7	CHORUS7	Conventional chorus program with rich, warm chorusing.	65	1
8	CHORUS8		65	8
9	GM CHORUS1		65	3
10	GM CHORUS2		65	4
11	GM CHORUS3		65	5
12	GM CHORUS4		65	6
13	FB CHORUS		65	7
14	CELESTE1	A 2 share I EO adds medulation and enabiousness to the second	66	0
15	CELESTE2	A 3-phase LFO adds modulation and spaciousness to the sound.	66	2
16	FLANGER1		67	8
17	FLANGER2		67	16
18	FLANGER3		67	17
19	FLANGER4	Creates a sound reminiscent of a jet airplane.	67	1
20	FLANGER5		67	0
21	GM FLANGER		67	7
22	SYMPHONIC1	Adde more stores to the modulation of Calasta	68	16
23	SYMPHONIC2	Adds more stages to the modulation of Celeste.	68	0
24	PHASER1		72	0
25	PHASER2		72	8
26	EP PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	17
27	EP PHASER2		72	18
28	EP PHASER3		72	16
29	ENS DETUNE	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0
30	ROTARY SP5	Simulates a rotary speaker.	66	18
31	NO EFFECT	No effect.	0	0

### • DSP Types

	Types			
No.	Туре	Description	MSB	LSB
1	HALL1		1	0
2	HALL2		1	16
3	HALL3		1	17
4	HALL4	Reverb simulating the acoustics of a hall.	1	18
5	HALL5		1	1
6	HALL M		1	6
7	HALL L		1	7
8	ROOM1		2	16
9	ROOM2		2	17
10	ROOM3		2	18
11	ROOM4		2	19
12	ROOM5		2	0
		Reverb simulating the acoustics of a room.		-
13	ROOM6		2	1
14	ROOM7		2	2
15	ROOM S		2	5
16	ROOM M		2	6
17	ROOM L		2	7
				-
18	STAGE1		3	16
19	STAGE2	Deverb avitable for a cale instrument	3	17
20	STAGE3	Reverb suitable for a solo instrument.	3	0
21	STAGE4		3	1
	PLATE1			
22			4	16
23	PLATE2	Reverb simulating a plate reverb unit.	4	17
24	PLATE3		4	0
25	GM PLATE		4	7
26	CHORUS1		66	17
27	CHORUS2		66	8
28	CHORUS3		66	16
29	CHORUS4		66	1
30	CHORUS5		65	2
31	CHORUS6		65	0
32	CHORUS7	Conventional chorus program with rich, warm chorusing.	65	1
33	CHORUS8		65	8
34	GM CHORUS1		65	3
35	GM CHORUS2		65	4
36	GM CHORUS3		65	5
37	GM CHORUS4		65	6
38	FB CHORUS		65	7
39	CELESTE1		66	0
40	CELESTE2	A 3-phase LFO adds modulation and spaciousness to the sound.	66	2
41	SYMPHONIC1	Adds more stages to the modulation of Celeste.	68	16
42	SYMPHONIC2		68	0
43	ENS DETUNE	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0
44	KARAOKE1		20	0
				-
45	KARAOKE2	Echo for karaoke.	20	1
46	KARAOKE3		20	2
47	ER1		9	0
48	ER2	— This effect isolates only the early reflection components of the reverb.	9	1
49	GATE REVERB	Simulation of gated reverb.	10	0
				-
50	REVERS GATE	Simulation of gated reverb played back in reverse.	11	0
51	EQ DISCO	Equalizer effect that boosts both high and low frequencies, as is typical in most disco	76	16
51		music.	01	10
		Equalizer effect that cuts both high and low frequencies, to simulate the sound heard		
52	EQ TEL	through a telephone receiver.	76	17
50				
53	2BAND EQ	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.	77	0
54	3BAND EQ	A mono EQ with adjustable LOW, MID, and HIGH equalizing.	76	0
55	3BAND EQ2	A mono La with aujustable LOW, WID, and HIGH equalizing.	76	19
56	HM ENHANCE1		81	16
57	HM ENHANCE2	— Adds new harmonics to the input signal to make the sound stand out.	81	0
58	ST 3BAND EQ	An EQ which allows equalization of low, mid and high bands.	76	18
59	ST 3BAND EQ2	= a milon allono oqualization or low, mila and mgn bando.	76	20
60	FLANGER1		67	8
61	FLANGER2	—	67	16
62	FLANGER3	Creates a sound reminiscent of a jet airplane.	67	17
63	FLANGER4		67	1
64	FLANGER5		67	0
65	GM FLANGER	—	67	7
		Dunamically controlled flancer		
66	DYN FLANGER	Dynamically controlled flanger.	110	0
	DELAY LCR1	Produces three delayed sounds: L, R and C (center).	5	16
67		T TOULCES (THEE DELAYED SOUTHUS, L, T ATHU & (CETTER).	E	0
	DELAY LCR2		0	
68	DELAY LCR2	Produces two delayed sounds: L and R Two feedback delayes are provided	5	-
68 69	DELAY LCR2 DELAY LR	Produces two delayed sounds: L and R. Two feedback delays are provided.	6	0
68 69 70	DELAY LCR2 DELAY LR ECHO	Two delayed sounds (L and R), and independent feedback delays for L and R.	6 7	0
68 69	DELAY LCR2 DELAY LR		6	0

73	Туре	Description	MSB	LSB
	ST DIST	Stereo distortion.	73	8
74	COMP+DIST1	Since a Compressor is included in the first stage, steady distortion can be produced	73	16
75	COMP+DIST2	regardless of changes in input level.	73	1
76	OVERDRIVE	Adds mild distortion to the sound.	74	0
77	OVERDRIVE2		74	9
78	ST OD	Stereo Overdrive.	74	8
79	DIST HARD		75	16
80	DIST HARD2	Hard-edge distortion.	75	22
81	DIST HARD3		75	25
82	DIST SOFT		75	17
83	DIST SOFT2	Soft, warm distortion.	75	23
84	DIST SOFT2	Solt, warn distortion.	75	23
		lland a day shares distantion		
85	ST DIST HARD	Hard-edge stereo distortion.	75	18
86	ST DIST SOFT	Soft, warm soft distortion.	75	19
87	V_DIST HARD	<ul> <li>Distortion which simulates vintage tube and fuzz sounds.</li> </ul>	98	0
88	V_DIST SOFT		98	2
89	AMP SIM1	A simulation of a guitar amp.	75	0
90	AMP SIM2	A simulation of a guital amp.	75	1
91	ST AMP1		75	20
92	ST AMP2		75	21
93	ST AMP3	Stereo amp simulator.	75	8
94	ST AMP4		75	24
95	ST AMP5		75	27
96	DST+DELAY1		95	16
97	DST+DELAT	Distortion and Delay are connected in series.	95	0
				-
98	OD+DELAY1	Overdrive and Delay are connected in series.	95	17
99	OD+DELAY2		95	1
100	CMP+DST+DLY1	Compressor, Distortion and Delay are connected in series.	96	16
101	CMP+DST+DLY2	comproced, Distantian and Delay are controlled in control.	96	0
102	CMP+OD+DLY1	Compressor, Overdrive and Delay are connected in series.	96	17
103	CMP+OD+DLY2	Compressor, Overdrive and Delay are connected in series.	96	1
104	V DST H+DLY		98	1
105	V DST S+DLY	<ul> <li>V Distortion and Delay are connected in series.</li> </ul>	98	3
106	V_HVY+DLY_A	V Distortion produces the heavy distortion of a large guitar amp, in series with a long delay effect.	98	16
107	V_HVY+DLY_A-	V Distortion produces the heavy distortion of a large guitar amp, in series with a long delay effect. This effect is somewhat softer than the preceding effect.	98	17
108	V_HVY+DLY_A+	V Distortion produces the heavy distortion of a large guitar amp, in series with a long delay	98	18
109	V HVY+DLY B	effect. This effect is somewhat stronger than the V-HVY+DLY_A effect. V Distortion produces the heavy distortion of a mid-size guitar amp, in series with a short	98	19
110	V_HVY+DLY_B-	delay effect.           V Distortion produces the heavy distortion of a mid-size guitar amp, in series with a short	98	20
110		delay effect. This effect is somewhat softer than the preceding effect.	50	20
111	V_HVY+DLY_B+	V Distortion produces the heavy distortion of a mid-size guitar amp, in series with a short delay effect. This effect is somewhat stronger than the V_HVY+DLY_B effect.	98	21
112	MBAND COMP	Multi-band compressor that allows you to adjust the compression effect for individual fre- quency bands.	105	0
113	COMPRESSOR	Holds down the output level when a specified input level is exceeded. A sense of attack can also be added to the sound.	83	0
114	NOISE GATE	Gates the input when the input signal falls below a specified level.	84	0
115	VCE CANCEL	Attenuates the vocal part of a CD or other source.	85	0
116	AMBIENCE	Blurs the stereo positioning of the sound to add spatial width.	88	0
117	TALKING MOD	Adds a vowel sound to the input signal.	93	0
118	LO-FI	Degrades the audio quality of the input signal.	93	0
119	DYN FILTER	Dynamically controlled filter.	109	0
120	ISOLATOR	Controls the level of a specified frequency band of the input signal.	115	0
121	PHASER1		72	0
122	PHASER2		72	8
123	EP PHASER1	Cyclically modulates the phase to add modulation to the cound	72	17
124	EP PHASER2	Cyclically modulates the phase to add modulation to the sound.	72	18
125	EP PHASER3		72	16
126	DYN PHASER		111	0
120			80	16
120 127 128	PITCH CHG1 PITCH CHG2	Changes the pitch of the input signal.	80	0

No.	Туре	Description	MSB	LSB
130	ROTARY SP1		69	16
131	ROTARY SP2		71	17
132	ROTARY SP3		71	18
133	ROTARY SP4		70	17
134	ROTARY SP5		66	18
135	ROTARY SP6		69	0
136	ROTARY SP7		71	22
137	ROTARY SP8		69	17
138	ROTARY SP9	Simulates a rotary speaker.	69	18
139	ROTARY SP10		71	23
140	ROTARY SP11		71	24
141	ROTARY SP12		70	20
142	ROTARY SP13		66	19
143	ROTARY SP14		69	19
144	ROTARY SP15		69	20
145	ROTARY SP16		71	25
146	2WAY ROT SP		86	0
147	DST+ROT SP	Distortion and rotary speaker connected in series.	69	1
148	DST+2ROT SP	Distortion and 2-way rotary speaker connected in series.	86	1
149	OD+ROT SP	Overdrive and rotary speaker connected in series.	69	2
150	OD+2ROT SP	Overdrive and 2-way rotary speaker connected in series.	86	2
151	AMP+ROT SP	Amp simulator and rotary speaker connected in series.	69	3
152	AMP+2ROT SP		86	3
153	AMP+2ROT SP2	Amp simulator and 2-way rotary speaker connected in series.	86	16
154	AMP+2ROT SP3		86	17
155	DUAL ROT SP1	Rotary speaker simulation with speed switching.	99	0
156	DUAL ROT SP2	Tiotaly speaker simulation with speed switching.	99	1
157	AUTO PAN1		71	16
158	AUTO PAN2		71	0
159	EP AUTOPAN	Several panning effects that automatically shift the sound position (left, right, front, back).	71	21
160	EP AUTOPAN2		71	26
161	AUTO PAN3		71	1
162	TREMOLO1		70	16
163	TREMOLO2		71	19
164	TREMOLO3	Rich Tremolo effect with both volume and pitch modulation.	70	0
165	EP TREMOLO	Then hendlo effect with both volume and pitch modulation.	70	18
166	GT TREMOLO1		71	20
167	GT TREMOLO2		70	19
168	VIBE VIBRATE	Vibraphone effect.	119	0
169	AUTO WAH1	Cyclically modulates the center frequency of a wah filter.	78	16
170	AUTO WAH2		78	0
171	AT WAH+DST1	The output of an Auto Wah can be distorted by Distortion.	78	17
172	AT WAH+DST2		78	1
173	AT WAH+OD1	The output of an Auto Wah can be distorted by Overdrive.	78	18
174	AT WAH+OD2		78	2
175	TOUCH WAH1		82	0
176	TOUCH WAH2	Changes the center frequency of a wah filter according to the input level.	82	8
177	TOUCH WAH3		82	20
178	TC WAH+DST1	The output of an Tough Wah can be distorted by Distortion	82	16
179	TC WAH+DST2	The output of an Touch Wah can be distorted by Distortion.	82	1
180	TC WAH+OD1	The output of an Touch Wah can be distorted by Overdrive.	82	17
181	TC WAH+OD2	The output of all fouch wall call be distorted by Overdrive.	82	2
182	CLAVI TC WAH	Clavinet Touch Wah.	82	18
183	CLAVI TC WAH2		82	21
184	EP TC WAH	ED Touch Wah	82	19
185	EP TC WAH2	EP Touch Wah	82	22
186	WH+DST+DLY1	Wah, Distortion and Delay are connected in series.	97	16
187	WH+DST+DLY2	wan, Distortion and Delay are connected in series.	97	0
	WH+OD+DLY1	Wah, Overdrive and Delay are connected in series.	97	17
188				
188 189	WH+OD+DLY2	Wall, Overdrive and Delay are connected in series.	97	1



# Arpeggio Type List

No.	Arpeggio Type	Length	Тетро	Time Sig.	<b>Voice Туре</b>
		1	Seq		
1	UpOct1	1	120	4 / 4	Synth Lead
2	UpOct2	1	120	4/4	Synth Lead
3	UpOct4	1	120	4/4	Synth Lead
4	DownOct1	1	120	4/4	Synth Lead
5	DownOct2	1	120	4/4	Synth Lead
6 7	DownOct4 U/DAOct1	1	120 120	4/4	Synth Lead Synth Lead
8	U/DAOct1	1	120	4/4	Synth Lead
9	U/DAOct2	1	120	4/4	Synth Lead
10	U/DBOct1	1	120	4/4	Synth Lead
11	U/DBOct2	1	120	4/4	Synth Lead
12	U/DBOct4	1	120	4/4	Synth Lead
13	RndmOct1	1	120	4/4	Synth Lead
14	RndmOct2	1	120	4/4	Synth Lead
15	RndmOct4	1	120	4/4	Synth Lead
16	Basic	1	130	4 / 4	Synth Lead
17	Melody1	1	70	4 / 4	Synth Lead
18	Melody2	1	70	4 / 4	Synth Lead
19	FifthSQ1	1	130	4 / 4	Synth Lead
20	FifthSQ2	1	130	4 / 4	Synth Lead
21	Electr1	1	130	4/4	Synth Lead
22	Electr2	1	130	4 / 4	Synth Lead
23	Electr3	1	130	4/4	Synth Lead
24	Electr4	1	130	4/4	Synth Lead
25	SynTrnce	1	130	4/4	Synth Lead
26	Simple	1	130	4/4	Synth Lead
27	OctSeq	1	130	4/4	Synth Lead
28	SynPhrs	2	145	4/4	Synth Lead
29 30	Random Compu Bs	1	90 130	4/4	Synth Lead Synth Lead
30	SynArp1	1	130	4/4	Synth Lead
32	SynArp2	1	130	4/4	Synth Lead
33	SynArp3	1	130	4/4	Synth Lead
34	SynArp4	1	138	4/4	Synth Lead
35	Techno	2	120	4/4	Synth Lead
36	SyncEcho	2	130	4/4	Synth Lead
37	PulsLine	2	120	4/4	Synth Lead
38	Doves	1	150	4/4	Synth Lead
39	Chodal	2	150	4 / 4	Synth Lead
40	Waggle	1	140	4 / 4	Synth Lead
41	SuperArp	2	120	4 / 4	Synth Lead
42	AcidLine	1	120	4 / 4	Synth Lead
43	TekEcho	2	120	4 / 4	Synth Lead
44	VelGroov	1	134	4/4	Synth Lead
45	MuteLine	1	134	4/4	Synth Lead
46	PolyArp	1	120	4/4	Synth Lead
47	Trance1	1	140	4/4	Synth Lead
48	Trance2	1	140	4/4	Synth Lead
49	Dream	1	136 Chord Sea	4/4	Synth Lead
50	SynChord	1	hord Seq 130	4/4	Synth Lead
50	Syncopa	2	120	4/4	Synth Lead
52	Hybrid1	1	130	4/4	Synth Lead
53	Hybrid2	1	106	4/4	Synth Lead
54	TrnceChd	2	145	4/4	Synth Lead
55	TrnceRtm	4	140	4/4	Synth Lead
56	BscChd1	2	130	4/4	Synth Lead
57	BscChd2	1	130	4/4	Synth Lead
			Ap/Kb		-
58	Pf70sRk1	2	130	4/4	A.Piano/E.Piano
59	Pf70sRk2	4	130	4 / 4	A.Piano/E.Piano
60	Pf Arp1	2	100	4 / 4	A.Piano/E.Piano
61	Pf Arp2	2	70	4 / 4	A.Piano/E.Piano
62	Pf Arp3	2	130	4 / 4	A.Piano/E.Piano
63	Pf Arp4	1	116	4 / 4	A.Piano/E.Piano

Ne	Arpeggio	Longth	Tommo	Time	
No.	Туре	Length	Tempo	Sig.	Voice Type
64	Pf Arp5	1	82	4/4	A.Piano/E.Piano
65	Pf Arp6 Pf Arp7	2	130 130	4/4	A.Piano/E.Piano A.Piano/E.Piano
66 67	Pf Arp7	2	74	4/4	A.Piano/E.Piano
68	Pf Club	1	96	4/4	A.Piano/E.Piano
69	PfHouse	2	130	4/4	A.Piano/E.Piano
70	PfLatin1	2	138	4/4	A.Piano/E.Piano
71	PfLatin2	2	120	4/4	A.Piano/E.Piano
72	PfSalsa	1	123	4 / 4	A.Piano/E.Piano
73	PfMontno	2	100	4 / 4	A.Piano/E.Piano
74	EpSwing	1	101	4/4	A.Piano/E.Piano
75	Ep Slow	1	74	4/4	A.Piano/E.Piano
76 77	EpAnlgPp EpChdUp	2	93 108	4/4	A.Piano/E.Piano A.Piano/E.Piano
78	Clavi1	1	120	4/4	Clavi
79	Clavi2	1	110	4/4	Clavi
80	Clavi3	1	124	4/4	Clavi
81	EpReggae	2	92	4/4	Clavi
82	EpHipHop	2	105	4/4	Harpsichord
83	EpNewGos	1	90	4/4	E.Piano
84	Ep6/8R&B	2	61	4 / 4	E.Piano
85	EpClubHs	2	128	4 / 4	E.Piano
			Organ		
86	OrgHouse	1	130	4/4	Organ
87	OrgLatin	1	110	4/4	Organ
88	OrgRegge		92 Guitar	4 / 4	Organ
89	GtStrum1	2	120	4 / 4	Steel Guitar
90	GtStrum2	2	120	4/4	Steel Guitar
91	GtStrum3	2	120	4/4	Steel Guitar
92	GtChord1	1	120	4/4	Clean Guitar
93	GtChord2	1	100	4 / 4	Clean Guitar
94	GtClean1	2	120	4/4	Clean Guitar
95	GtClean2	2	120	4 / 4	Clean Guitar
96	GtFunky1	1	120	4/4	Clean Guitar
97	GtFunky2	2	105	4/4	Clean Guitar
98 99	Gt Pop Gt Slow	1	90 74	4/4	Classical Guitar Steel Guitar
100	GtFingr1	2	120	4/4	Steel Guitar
101	GtFingr2	2	120	4/4	Steel Guitar
102	GtFingr3	2	120	4/4	Steel Guitar
103	GtFingr4	3	120	4/4	Steel Guitar
104	GtXovr1	2	100	4/4	Overdrive Gt/
104	алонт	2	100		Distortion Gt
105	GtXovr2	2	100	4 / 4	Overdrive Gt/ Distortion Gt
100	0.11		100		Overdrive Gt/
106	GtXovr3	2	100	4 / 4	Distortion Gt
107	GtHipHop	2	94	4 / 4	Muted Guitar
108	Gt Latin	2	120	4 / 4	Classical Guitar
109	GtSamba	1	120	4/4	Clean Guitar
110	GtSpnish	2	120	4/4	Classical Guitar
111	GtTurksh	2	105	4/4	Kanoun
112 113	MgStrum MgUnplg1	4	120 120	4/4	Mega Steel Guitar Mega Steel Guitar
113	MgUnplg2	4 2	120	4/4	Mega Steel Guitar
115	MgUnplg3	2	120	4/4	Mega Steel Guitar
116	MgUnplg4	2	120	4/4	Mega Steel Guitar
117	MgUnplg5	1	120	4/4	Mega Steel Guitar
118	MgFlkRck	2	120	4/4	Mega Steel Guitar
119	MgSftRck	2	120	4/4	Mega Steel Guitar
120	MgChlOut	2	79	4 / 4	Mega Steel Guitar
121	MgRtrPop	2	126	4 / 4	Mega Steel Guitar
122	MgSpnish	2	120	4 / 4	Mega Steel Guitar
123	MgClGt1	4	107	4 / 4	Mega Clean Guitar
124	MgClGt2	4	107	4/4	Mega Clean Guitar
125	MgClGt3	4	107	4/4	Mega Clean Guitar

No.	Arpeggio Type	Length	Tempo	Time Sig.	Voice Type
126	MgClGt4	4	107	4 / 4	Mega Clean Guitar
127	MgFunk1	2	120	4/4	Mega Clean Guitar
128	MgFunk2	1	120	4/4	Mega Clean Guitar
129	MgClsHip	2	90	4/4	Mega Clean Guitar
130	MgAnlgPp	2	93	4/4	Mega Clean Guitar
131	MgOdGt1	4	120	4/4	Mega Overdrive Gt
132	MgOdGt1 MgOdGt2	4	120	4/4	
	<u> </u>				Mega Overdrive Gt
133	MgOdGt3	4	120	4/4	Mega Overdrive Gt
134	MgOdGt4	4	120	4/4	Mega Overdrive Gt
135	MgOd70Rk	2	130	4/4	Mega Overdrive Gt
136	GtOvrTp1	2	120	4/4	Over TheTop
137	GtOvrTp2	4	120 Bass	4 / 4	Over TheTop
138	BsFingr1	1	115	4/4	Finger Bass
139	BsFingr2	3	115	4/4	Finger Bass
140	BsKIFunk	1	96	4/4	Finger Bass
141	Bs Slap	3	120	4/4	Slap Bass
142	BsCmbJz	4	204	4/4	Acoustic Bass
143	BsGroove	2	120	4/4	Synth Bass
144	BsHipHp1	1	105	4/4	Synth Bass
145	BsHipHp2	2	94	4/4	Synth Bass
146	BsHipHp3	1	94	4/4	Synth Bass
147	BsSmooth	1	115	4 / 4	Synth Bass
148	BsNewGos	2	90	4 / 4	Synth Bass
149	Bs Acid	1	120	4/4	Synth Bass
150	BsTechno	1	138	4/4	Synth Bass
151	Bs Dream	1	136	4/4	Synth Bass
152	BsClubHs	1	128	4/4	Synth Bass
153	Bs Disco	2	110	4/4	Synth Bass
154	Bs Latin	4	138	4/4	Synth Bass
155	BsMontno	4	100	4/4	Finger Bass
156	BsReggae	1	92	4/4	Finger Bass
157	BsFunk1	2	120	4/4	Finger Bass
158	BsFunk2	4	120	4/4	Finger Bass
150	DSI UTIKZ	4	Strings	4/4	Tillger Dass
159	StrBasic	1	101	4/4	Strings
160	Str R&B	1	90	4/4	÷
	StrTrksh				Strings
161		2	86	4/4	Strings
162	Pizzcato		120 rass/Reed	4/4	Strings
163	BrsFunk1	4	132	4/4	Brass
164	BrsFunk2	1	132	4/4	Brass
		2			
165	BrsSamba		120	4/4	Brass
166	Flutter	1	120	4/4	Reed
167	ReedSoul	4	120	4/4	Reed
168	ReedHpHp	2	105	4/4	Reed
100	Curposed	1	ynth Leac		Curation Lagrand
169	SynDsco1	1	110	4/4	Synth Lead
170	SynDsco2	2	110 CrPerc	4 / 4	Synth Lead
171	Bro Arp	2	110	4/4	CrPerc
	Prc Arp PrcTrill	2	120	4/4	CrPerc
172					
173	PrcDisco	2	110 Drum	4 / 4	CrPerc
174	Dr Funk	4	<b>Drum</b> 107	1/4	Standard Kit
174		4		4/4	Standard Kit
175	DrGospel	2	126	3/4	Standard Kit
176	DrCmbJz	4	204	4/4	Standard Kit
177	DrUnplug	1	120	4/4	Standard Kit
178	DrFngrPk	4	120	4 / 4	Standard Kit
179	DrGtrPop	1	90	4/4	Standard Kit
180	DrXovrRk	2	100	4 / 4	Standard Kit
181	DrHipHop	2	94	4 / 4	Break Kit
	DrLoBeat	2	140	4/4	Break Kit
182	DILOBeal	-			
182 183	DrAnlgPp	2	93	4/4	Analog T8 Kit
			93 140	4 / 4 4 / 4	Analog T8 Kit DanceKit1

No.	Arpeggio Type	Length	Tempo	Time Sig.	Voice Type
186	DrHouse1	2	123	4/4	Analog T9 Kit
187	DrHouse2	2	130	4/4	Analog T9 Kit
188	DrClubHs	1	128	4/4	Analog T9 Kit
189	DrGroove	2	96	4/4	Hip Hop Kit
190	Dr Perc1	2	135	4/4	Standard Kit
191	Dr Perc2	1	100	4/4	Standard Kit
192	Dr Club	1	128	4/4	Standard Kit
193	DrSamba	4	120	4/4	Standard Kit
194	DrSalsa	2	123	4/4	Standard Kit
195	DrAfricn	2	122	4/4	Standard Kit
196	DrTambrn	2	123	4/4	Dance Kit1
197	Dr R&B	2	110	4/4	Standard Kit
198	DrFunky	4	130	4/4	Standard Kit
199	DrClsHip	2	118	4/4	Standard Kit
200	Dr Latin	2	104	4/4	Standard Kit
201	DrArabic	2	100	4/4	Standard Kit
202	DrOryant	2	130	4/4	Arab. Kit
203	Dr Azeri	1	160	6/8	Arab. Kit
204	Dr 9/8	2	120	9/8	Arab. Kit
205	DrSaeidy	2	110	4/4	Arab. Kit
206	DrMksoum	1	130	4/4	Arab. Kit
207	DrKarach	2	120	4/4	Arab. Kit
208	DrIndia1	4	128	4/4	Indian Kit
209	DrIndia2	4	123	4/4	Indian Kit
210	Dr China	1	106	4/4	Chinese kit
211	DrMrngue	2	130	4/4	Afro Cuban Kit
212	DrMambo	1	104	4/4	Afro Cuban Kit
213	Dr70Dsco	2	120	4/4	Pop Latin Kit



No.	Туре	Description
1	Flat	Flat frequency response.
2	Attack	This setting emphasis attack for a crisp sound.
3	Hard	The bass is boosted for extra punch.
4	Retro	The reproduction range is reduced to produce an AM radio type sound.
5	High Pass	The low and mid frequencies are reduced so that the highs are prominent.



#### NOTE:

- 1 By default (factory settings) the instrument ordinarily functions as a 16-channel multi-timbral tone generator, and incoming data does not affect the panel voices or panel settings. However, the MIDI messages listed below do affect the panel voices, auto accompaniment, and songs.
  - MIDI Master Tuning
  - System exclusive messages for changing the Reverb Type and Chorus Type.
- 2 Exclusive
  - <GM System ON> F0H, 7EH, 7FH, 09H, 01H, F7H
  - This message automatically restores all default settings for the instrument, with the exception of MIDI Master Tuning.

<MIDI Master Volume> F0H, 7FH, 7FH, 04H, 01H, II, mm, F7H • This message allows the volume of all channels to be

- changed simultaneously (Universal System Exclusive).
- The values of "mm" is used for MIDI Master Volume. (Values for "II" are ignored.)

<MIDI Master Tuning> F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, II, cc, F7H

- This message simultaneously changes the tuning value of all channels.
- The values of "mm" and "ll" are used for MIDI Master Tuning.
- The default value of "mm" and "ll" are 08H and 00H, respectively. Any values can be used for "n" and "cc".

<Reverb Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 00H, mmH, IIH, F7H

• mm : Reverb Type MSB

• II : Reverb Type LSB

Refer to the Effect Type List (page 98) for details.

<Chorus Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 20H, mmH, IIH, F7H

mm : Chorus Type MSB
 Il : Chorus Type LSB

Refer to the Effect Type List (page 98) for details.

<DSP Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 40H, mmH, IIH, F7H

- mm : DSP Type MSB • II : DSP Type LSB
- Refer to the Effect Type List (page 99) for details.
- 3 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted. When the clock is set to External, both FAH (accompaniment start) and FCH (accompaniment stop) are recognized.
- 4 Local ON/OFF <Local ON> Bn, 7A, 7F <Local OFF> Bn, 7A, 00 Value for "n" is ignored.



Model MM6	OTCOM 1	MIDI Implementation	ion Chart	Version : 1.0
		Transmitted	Recognized	Remarks
Fun	Function			
Basic Channel	Default Changed	1 - 16 x	1 - 16 x	
Mode	Default Messages Altered	3 X *******	т. т.	
Note Number :	True voice	0 - 127 *********	0 - 127 0 - 127	
Velocity	Note ON Note OFF	o 9nH, v=1-127 x 9nH, v=0	o 9nH, v=1-127 x	
After Touch	Key's Ch's	××	××	
Pitch Bend		0	o 0-24 semi	
Control Change	$\begin{array}{c} 1, 7, 10, 32\\ 1, 7, 10, 11\\ 6, 38\\ 64\\ 71\\ 72\\ 72\\ 91, 93, 94\\ 100-101 \end{array}$	, * 0000000×00	0000000000	Bank Select Data Entry Sustain Harmonic Content Release Time Attack Time Brightness Effect Depth RPN LSB, MSB

Prog Change : True #	0 0 - 127 **********	o 0 - 127	
System Exclusive	0	0	
: Song Pos. Common : Song Sel. : Tune	x	× × ×	
System :Clock Real Time:Commands	0 0	0 0	
Aux :All Sound OFF :Reset All Chtrls :Local ON/OFF :All Notes OFF Mes- :Active Sense sages:Reset	x x x x o x	o(120,126,127) o(121) o(122) o(123-125) x	

These Control Changes are not transmitted by the panel operation. However, or the Song. they may be transmitted while performing Pattern .⊢ \*

o : Yes	X : No
ONON ' NO INNO	OMINI OFF, MONO
Mode 2 : 01	Mode 4 : 01
fode 1 : OMNI ON , POLY	Mode 3 : OMNI OFF, POLY



# **Specifications**

Keyboards	MM6	61 keys (Initial touch)
Tone Generator block	Tone Generator	AWM2
	Polyphony	32 notes
	Multi Timbral Capacity	16 parts
	Wave	70MB(when converted to 16-bit linear format)
	Voice	Preset: 418 normal voices + 22 drum kits
		GM: 128 normal voices + 1 drum kit
	Performance	8 banks x 8
	Effect System	Reverb x 25 types, Chorus x 30 types, Variation x 189 types
	Master Equalizer	5 types
Sequencer block	Note Resolution	96 ppq (parts per quarter note)
	Tempo	11–280
	Recording type	Real time replace
	Tracks	8 + 8 (Pattern track)
	Patterns	168 patterns (x 4 sections)
	Songs	Preset: 3 songs
		User: 5 songs
		USB: 400 songs maximum
	Arpeggio	Preset x 213 types
Others	Controllers	Pitch Bend wheel (1), Modulation wheel (1), Knobs (4), Data dial (1)
	Display	320 x 240 dot graphic backlit LCD
	Connectors	OUTPUT L/MONO, R (standard phone jack), PHONES (standard stereo phone jack), FOOT CONTROLLER, SUSTAIN, MIDI IN/OUT, USB (TO HOST, TO DE VICE), DC INLET
	Power Consumption	12W
	Dimensions, Weight	948.5(W) x 374.2(D) x 122.8(H) mm, 5.0kg
	Accessories	AC Power Adaptor, Owner's Manual (this book), Supplied Disk (supplied DAW software)

\* 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.

[◀◀] (Fast Reverse) button 1	12,	27
[▶▶] (Fast Forward) button 1	12,	27
[ ] (Pause) button 1	12,	27
[▶/■] (START/STOP) button		12

## A

Λ
Accessories7
[A]–[D] buttons12
[ARPEGGIO ON/OFF] button 13, 20
Arpeggio Type 21, 65
Arpeggio Type List 102
Arpeggio Velocity 48, 65
ATTACK
[ATTACK] knob12
AUTO FILL IN 51
[AUTO FILL IN] button 12
Auto-accompaniment Range 23

# B

Backup	35
Backup Clear	35
Bank	59

# C

•
Cable clip 10, 13
CATEGORY [DEC], [INC] buttons
CATEGORY SEARCH buttons 13, 15
Chord
Chord Basic 54
Chord Fingering 56, 65
Chorus
Chorus Type 43, 65
Chorus Type List
Computer
Convert (SMF Format)70
CUTOFF
[CUTOFF] knob 12

# D

DC IN jack	13
[DEC/NO] button	12, 37
Delete (USB Storage Device)	72
Demo	14
Demo Cancel	65
Demonstration Song	14
Dial	12, 37
Display	12, 38
Drum Kit	19
Drum Kit List	90
[DRUM/PERC/SE] button	19
DSP	44
DSP On/Off	65
DSP Type	44, 65

DSP Type List	99
Dual	16
[DUAL] button1	3, 16
Dual Voice	16
Dual Voice Chorus Level	63
Dual Voice Dry Level	63
Dual Voice DSP Level	63
Dual Voice Octave	63
Dual Voice Pan	63
Dual Voice Reverb Level	63
Dual Voice Volume	63

## Ε

—	
[EDIT] button1	2, 62
EDIT display	38
Effect Type List	98
Erase (Performance Memory)	61
[EXECUTE] button12, 6	8, 69
[EXIT] button1	2, 38
External Clock7	8, 79
External Clock On/Off	65

# F

27
27
51
12
41
41
41
58
55

# H

Headphones10	)
--------------	---

### 

[INC/YES] button	.12, 37
Initial Setup	.65, 79
Initialization	35

### K

Keyboard Out65, 78	, 79
Knob	41

### L

—	
LCD Contrast Control	11
LCD CONTRAST knob	12
Load	71
Local	78, 79
Local On/Off	65

# Μ

MAIN display
Main Section51
Main Voice15
Main Voice Chorus Level
Main Voice Dry Level
Main Voice DSP Level
Main Voice Octave
Main Voice Pan63
Main Voice Reverb Level
Main Voice Volume
Master EQ List 104
Master EQ Type 48, 65
[MASTER VOLUME] control 12, 14
Measure Number
[MENU] button 12, 67, 68
Messages
Metronome
[METRONOME] button 12, 45
Metronome Volume
MIDI74
MIDI Data Format105
MIDI Implementation Chart106
MIDI IN, OUT terminals 13, 73
MIDI Setting78
[MODULATION] wheel12
Modulation wheel
Mute

# 0

Octave	0
OCTAVE [UP], [DOWN] buttons	
	0
OUTPUT R, L/MONO jacks 13, 7	3

## P

Pattern	22, 51
[PATTERN] button 12,	14, 22
Pattern File	. 69, 71
Pattern List	97
Pattern Out	78, 79
Pattern Volume	53, 65
Pause	27
PC Mode	65, 79
PERFORMANCE BANK [DEC],	
[INC] buttons	. 13, 59
Performance List	96
Performance Memory	59
PERFORMANCE MEMORY [1]-	-[8]
buttons	. 13, 59
Personal Computer	77
PHONES jack	13
Pitch Bend Range	65
[PITCH BEND] wheel	12

Pitch Bend wheel	40
[PRESET] button 1	2, 26
Preset Song	28

## R

[REC] button 12, 30	
Recording 29	
RELEASE	
[RELEASE] knob 12	
RESONANCE	
[RESONANCE] knob 12	
Reverb	
Reverb Type 42, 65	
Reverb Type List	

### S

U
Saving Data 69
Section
SMF (Standard MIDI File)70
Song
[SONG] button 12, 14
Song Clear
Song Out
Song Volume 57, 65
Speaker 74
Specifications 108
[SPLIT] button 13, 17
Split Point
Split Voice17
Split Voice Chorus Level
Split Voice Dry Level 63
Split Voice DSP Level 63
Split Voice Octave
Split Voice Pan
Split Voice Reverb Level 63
Split Voice Volume
[STANDBY/ON] switch 10, 11, 13, 14
Start/Stop
[START/STOP] button
Stop Accompaniment 53
[STORE] button 13, 59
Supplied DAW Software
Supplied Disk 80
Sustain
SUSTAIN jack 13, 41
Sync Start 23, 51
[SYNC START] button 12, 23

# T

Тар	47
[TAP TEMPO] button12,	
Tempo	57
TEMPO [+], [-] buttons 12,	57

Time Signature – Denominator46, 65
Time Signature – Numerator65
Touch Sensitivity
Track
TRACK [1]–[8] buttons13
Track Clear
Track Mute
TRACK [PATTERN] button13
[TRACK SELECT/MUTE] button
Transpose
TRANSPOSE [+], [-] buttons13, 49
Troubleshooting
Tuning49, 65

### U

•
[USB] button12, 26
USB Song28
USB Storage Device
USB TO DEVICE terminal13, 73
USB TO HOST terminal13, 73
USB-MIDI Driver77
[USER] button12, 26, 30
User Pattern71
User Song
[UTILITY] button12, 64
UTILITY display

# V

Voice	15
Voice List	84

# Limited Warranty

### **90 DAYS LABOR**

### **1 YEAR PARTS**

Yamaha Corporation of America, hereafter referred to as Yamaha, warrants to the original consumer of a product included in the categories listed below, that the product will be free of defects in materials and/or workmanship for the periods indicated. This warranty is applicable to all models included in the following series of products:

### **MUSIC SYNTHESIZER MM6**

If during the first 90 days that immediately follows the purchase date, your new Yamaha product covered by this warranty is found to have a defect in material and/or workmanship, Yamaha and/or its authorized representative will repair such defect without charge for parts or labor.

If parts should be required after this 90 day period but within the one year period that immediately follows the purchase date, Yamaha will, subject to the terms of this warranty, supply these parts without charge. However, charges for labor, and/or any miscellaneous expenses incurred are the consumers responsibility. Yamaha reserves the right to utilize reconditioned parts in repairing these products and/or to use reconditioned units as warranty replacements.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY WHICH YAMAHA MAKES IN CONNECTION WITH THESE PRODUCTS. ANY IMPLIED WARRANTY APPLICABLE TO THE PRODUCT, INCLUDING THE WARRANTY OF MERCHANT ABILITY IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY. YAMAHA EXCLUDES AND SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations that relate to implied warranties and/or the exclusion of incidental or consequential damages. Therefore, these limitations and exclusions may not apply to you.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

### **CONSUMERS RESPONSIBILITIES**

If warranty service should be required, it is necessary that the consumer assume certain responsibilities:

- 1. Contact the Customer Service Department of the retailer selling the product, or any retail outlet authorized by Yamaha to sell the product for assistance. You may also contact Yamaha directly at the address provided below.
- 2. Deliver the unit to be serviced under warranty to: the retailer selling the product, an authorized service center, or to Yamaha with an explanation of the problem. Please be prepared to provide proof purchase date (sales receipt, credit card copy, etc.) when requesting service and/or parts under warranty.

3. Shipping and/or insurance costs are the consumers responsibility.\* Units shipped for service should be packed securely.

\*Repaired units will be returned PREPAID if warranty service is required within the first 90 days.

IMPORTANT: Do NOT ship anything to ANY location without prior authorization. A Return Authorization (RA) will be issued that has a tracking number assigned that will expedite the servicing of your unit and provide a tracking system if needed.

4. Your owners manual contains important safety and operating instructions. It is your responsibility to be aware of the contents of this manual and to follow all safety precautions.

#### **EXCLUSIONS**

This warranty does not apply to units whose trade name, trademark, and/or ID numbers have been altered, defaced, exchanged removed, or to failures and/or damages that may occur as a result of:

1. Neglect, abuse, abnormal strain, modification or exposure to extremes in temperature or humidity.

- 2. Improper repair or maintenance by any person who is not a service representative of a retail outlet authorized by Yamaha to sell the product, an authorized service center, or an authorized service representative of Yamaha.
- 3. This warranty is applicable only to units sold by retailers authorized by Yamaha to sell these products in the U.S.A., the District of Columbia, and Puerto Rico. This warranty is not applicable in other possessions or territories of the U.S.A. or in any other country.

Please record the model and serial number of the product you have purchased in the spaces provided below.

Model

Serial #

Sales Slip #

Date

(Retailer)

Purchased from

YAMAHA CORPORATION OF AMERICA **Electronic Service Division** 6600 Orangethorpe Avenue Buena Park, CA 90620

### **KEEP THIS DOCUMENT FOR YOUR RECORDS. DO NOT MAIL!**

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

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

### NORTH AMERICA

#### CANADA

Yamaha Canada Music Ltd. 135 Milner Avenue, Scarborough, Ontario, M1S 3R1, Canada Tel: 416-298-1311

#### U.S.A.

Yamaha Corporation of America 6600 Orangethorpe Ave., Buena Park, Calif. 90620, USA Tel: 714-522-9011

### **CENTRAL & SOUTH AMERICA MEXICO**

Yamaha de México S.A. de C.V. Calz. Javier Rojo Gómez #1149, Col. Guadalupe del Moral C.P. 09300, México, D.F., México Tel: 55-5804-0600

### BRAZIL

Yamaha Musical do Brasil Ltda. Rua Joaquim Floriano, 913 - 4' andar. Itaim Bibi. CEP 04534-013 Sao Paulo, SP. BRAZIL Tel: 011-3704-1377

#### ARGENTINA

Yamaha Music Latin America, S.A. Sucursal de Argentina Viamonte 1145 Piso2-B 1053, Buenos Aires, Argentina Tel: 1-4371-7021

#### PANAMA AND OTHER LATIN AMERICAN COUNTRIES **CARIBBEAN COUNTRIES**

Yamaha Music Latin America, S.A. Torre Banco General, Piso 7, Urbanización Marbella, Calle 47 y Aquilino de la Guardia, Ciudad de Panamá, Panamá Tel: +507-269-5311

### **EUROPE**

THE UNITED KINGDOM Yamaha-Kemble Music (U.K.) Ltd. Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, England Tel: 01908-366700

#### IRELAND

Danfay Ltd.

61D, Sallynoggin Road, Dun Laoghaire, Co. Dublin Tel: 01-2859177

#### GERMANY

Yamaha Music Central Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany Tel: 04101-3030

#### SWITZERLAND/LIECHTENSTEIN Yamaha Music Central Europe GmbH,

**Branch Switzerland** Seefeldstrasse 94, 8008 Zürich, Switzerland Tel: 01-383 3990

#### AUSTRIA

Yamaha Music Central Europe GmbH, **Branch Austria** Schleiergasse 20, A-1100 Wien, Austria Tel: 01-60203900

#### CZECH REPUBLIC/SLOVAKIA/ HUNGARY/SLOVENIA

Yamaha Music Central Europe GmbH, Branch Austria, CEE Department Schleiergasse 20, A-1100 Wien, Austria Tel: 01-602039025

#### POLAND

Yamaha Music Central Europe GmbH Sp.z. o.o. Oddział w Polsce ul. 17 Stycznia 56, PL-02-146 Warszawa, Poland Tel: 022-868-07-57

#### THE NETHERLANDS/ **BELGIUM/LUXEMBOURG**

Yamaha Music Central Europe GmbH, **Branch Benelux** 

Clarissenhof 5-b, 4133 AB Vianen, The Netherlands Tel: 0347-358 040 FRANCE

### Yamaha Musique France

BP 70-77312 Marne-la-Vallée Cedex 2, France Tel: 01-64-61-4000

### ITALY

Yamaha Musica Italia S.P.A. **Combo Division** Viale Italia 88, 20020 Lainate (Milano), Italy Tel: 02-935-771

### SPAIN/PORTUGAL

Yamaha-Hazen Música, S.A. Ctra. de la Coruna km. 17, 200, 28230 Las Rozas (Madrid), Spain Tel: 91-639-8888

### GREECE

Philippos Nakas S.A. The Music House 147 Skiathou Street, 112-55 Athens, Greece Tel: 01-228 2160

#### **SWEDEN**

Yamaha Scandinavia AB J. A. Wettergrens Gata 1 Box 30053 S-400 43 Göteborg, Sweden Tel: 031 89 34 00

#### DENMARK

**YS** Copenhagen Liaison Office Generatorvej 6A DK-2730 Herlev, Denmark Tel: 44 92 49 00

#### **FINLAND** F-Musiikki Oy

Kluuvikatu 6, P.O. Box 260, SF-00101 Helsinki, Finland Tel: 09 618511

### NORWAY

Norsk filial av Yamaha Scandinavia AB Grini Næringspark 1 N-1345 Østerås, Norway Tel: 67 16 77 70

### **ICELAND**

Skifan HF Skeifan 17 P.O. Box 8120 IS-128 Reykjavik, Iceland Tel: 525 5000

### **OTHER EUROPEAN COUNTRIES**

Yamaha Music Central Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany Tel: +49-4101-3030

### AFRICA

Yamaha Corporation, Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650

### MIDDLE EAST

### TURKEY/CYPRUS

Tel: +81-53-460-2312

Yamaha Music Central Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany Tel: 04101-3030

### **OTHER COUNTRIES**

Yamaha Music Gulf FZE LB21-128 Jebel Ali Freezone P.O.Box 17328, Dubai, U.A.E. Tel: +971-4-881-5868

#### ASIA

#### THE PEOPLE'S REPUBLIC OF CHINA Yamaha Music & Electronics (China) Co.,Ltd.

25/F., United Plaza, 1468 Nanjing Road (West), Jingan, Shanghai, China Tel: 021-6247-2211

### HONG KONG

Tom Lee Music Co., Ltd. 11/F., Silvercord Tower 1, 30 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: 2737-7688

#### INDONESIA

#### PT. Yamaha Music Indonesia (Distributor) PT. Nusantik

Gedung Yamaha Music Center, Jalan Jend. Gatot Subroto Kav. 4, Jakarta 12930, Indonesia Tel: 21-520-2577

#### KOREA

#### Yamaha Music Korea Ltd.

Tong-Yang Securities Bldg. 16F 23-8 Yoido-dong, Youngdungpo-ku, Seoul, Korea Tel: 02-3770-0660

#### MALAYSIA

Yamaha Music Malaysia, Sdn., Bhd. Lot 8, Jalan Perbandaran, 47301 Kelana Jaya, Petaling Jaya, Selangor, Malaysia Tel: 3-78030900

#### PHILIPPINES

Yupangco Music Corporation 339 Gil J. Puyat Avenue, P.O. Box 885 MCPO, Makati, Metro Manila, Philippines Tel: 819-7551

### SINGAPORE

Yamaha Music Asia Pte., Ltd. #03-11 A-Z Building

140 Paya Lebor Road, Singapore 409015 Tel: 747-4374

### TAIWAN

Yamaha KHS Music Co., Ltd. 3F, #6, Sec.2, Nan Jing E. Rd. Taipei. Taiwan 104, R.O.C. Tel: 02-2511-8688

#### THAILAND

Siam Music Yamaha Co., Ltd. 891/1 Siam Motors Building, 15-16 floor Rama 1 road, Wangmai, Pathumwan Bangkok 10330, Thailand Tel: 02-215-2626

### OTHER ASIAN COUNTRIES

Yamaha Corporation, Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2317

### **OCEANIA**

### AUSTRALIA

Yamaha Music Australia Pty. Ltd. Level 1, 99 Queensbridge Street, Southbank, Victoria 3006, Australia Tel: 3-9693-5111

### NEW ZEALAND

Music Houses of N.Z. Ltd. 146/148 Captain Springs Road, Te Papapa, Auckland, New Zealand Tel: 9-634-0099

#### COUNTRIES AND TRUST TERRITORIES IN PACIFIC OCEAN Yamaha Corporation, Asia-Pacific Music Marketing Group

Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2312



Yamaha Web Site (English only) http://www.yamahasynth.com/

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

U.R.G., Pro Audio & Digital Musical Instrument Division, Yamaha Corporation © 2006 Yamaha Corporation

WH59630 XXXPOXXX.X-01A0 Printed in China