

# **Digital Drum**Owner's Manual















# **INFORMATION FOR YOUR SAFETY!**

#### THE FCC REGULATION WARNING (for USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

■ Reorient or relocate the receiving antenna.

measures:

- Increase the separation between the equipment and
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

#### **CAUTION**

The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

#### **PRECAUTIONS**

#### PLEASE READ CAREFULLY BEFORE PROCEEDING

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

#### **Power Supply**

Please connect the designated AC adaptor to an AC outlet of the correct voltage.

Do not connect it to an AC outlet of voltage other than that for which your instrument is intended.

Unplug the AC power adaptor when not using the instrument, or during electrical storms.

#### **Connections**

Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

#### Location

Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

Direct sunlight

Extreme temperature or humidity Excessive dusty or dirty location Strong vibrations or shocks Close to magnetic fields

#### Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

#### Cleaning

Clean only with a soft, dry cloth.

Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

#### Handling

Do not apply excessive force to the switches or controls.

Do not let paper, metallic, or other objects into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.















# Contents

Main Features4
Panel & Display Description
Front Panel5
Side Panel (Connecting)6
LCD Display7
Setup
Connecting Pads and Pedals8
Getting Ready to Play
Setting Up the Power Supply9
Turning the Power On/Off9
Quick Play
Drum Kits and Voices10
Playing Techniques11
Select a Preset Drum Kit and Create a User Drum
Kit
About the Preset and User Drum Kit12
Edit the Drum Kit Parameters12
Edit the Voice Parameters12
Save User Drum Kit13
Playing Along with a Song
Playing Along with a Song14
Muting the Drums in Songs14

Record	
Preparing Record	15
Start / Stop Recording	15
Coach	
About Coach Mode	16
Coach Mode Control	16
Qut Cnt (Quiet Count)	
Change Up	
Beat Check	18
DBT (Double Bass Trigger)	
Turn the DBT Function On	19
Tempo	19
Utility Mode (Utility)	
The Drum Pad Trigger Settings	
The Drum Module Settings	21
Troubleshooting	22
Prompt Messages	22
Specifications	23
Appendix	
Drum Kit List	23
Drum Voice List	24
Song List	27
GM Drum Kit List	28
GM Melody Voice List	30
MIDI Implementation Chart	31











# **Main Features**

# **Bring the Professional Experience to Your Performance Natural and Realistic Voices**

This digital drum has equipped with all new voices, which vastly improved sound quality and will reach a super natural and realistic sense for your ears. No matter playing the stroke roll or striking pads with velocity dynamic, all of these let you enjoy delicate nuances and natural voice, capture the unique characteristics of acoustic drum kit.

#### **Fashionable Appearance**

Compact, elegant appearance, only occupy a little place when fold it up. Except for a perfect learning assistant, it also can be exquisite furniture decorated in your house.

#### **Amazing DBT Function**

Easy to achieve double bass pedal techniques here. The frequency is adjustable.

#### **Scientific COACH Practicing**

Provide three coach modes with dozens of common beat practice. Automatically score function intuitively reflects practice condition.

#### **USB MIDI Output**

This digital drum equipped with an USB MIDI output, it is available to connect with smart devices, such as an iPad, through a Camera kit.









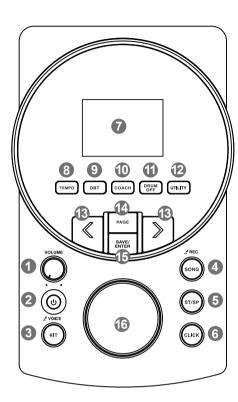






# **Panel Description**

#### **Front Panel**



#### 1. [VOLUME] Knob

Adjust the phone volume level.

#### Note:

Rotate the [VOLUME] knob anticlockwise to the minimum position before power on.

#### 2. [POWER] Button

Press this button to power on/ off the module.

#### 3. [KIT/VOICE] Button

Shortly press: enter drum kit mode. Press and hold: enter voice mode.

#### 4. [SONG/REC] Button

Shortly press: enter the song mode.

Press and hold: enter the quick record mode.

#### 5. [START/STOP] Button

Start / Stop playing songs.

#### 6. [CLICK] Button

Start/Stop the metronome; enter the metronome parameter setting mode.

#### 7. LCD Display

Shows the name and parameter settings of Kit, Voice, Song and so on.

#### 8. [TEMPO] Button

Adjust the tempo value.

#### 9. [DBT] (DOUBLE BASS TRIGGER) Button

Turn DBT function on/ off.

\*Turn DBT function on. It can generate two or three continuous kick sounds when you step on the bass drum only once. Easy to achieve double bass pedal techniques.

#### 10. [COACH] Button

Enter learning mode.

#### 11. [DRUM OFF] Button

Mute the drum part of the pattern.

#### 12. [UTILITY] Button

Enter the utility mode.

#### 13. [<]/[>]Button

Gradually increasing or decreasing the value of settings.

#### 14. [PAGE] Button

Switch between the settings of different functions.

#### 15. [SAVE/ENTER] Button

Save the drum kit / pad settings.

#### 16. DATA DIAL

Use this to select drum kits or to quick edit values (increase/decrease values).















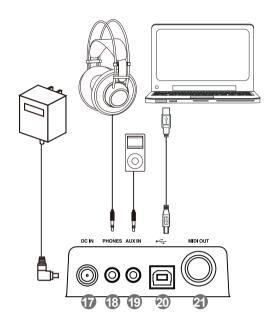


### **Panel Description**

### **Side Panel (Connecting)**

#### Note:

To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.



#### 17. DC IN jack

Connect the AC adaptor here. Plug the AC adaptor cable into the DC IN jack.

#### 18. PHONES jack (1/8")

Connect stereo headphones here.

#### 19. AUX IN jack (1/8")

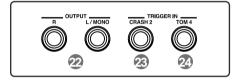
For connecting an extra audio player, for example, MP3 and so on via a stereo plug. You can enjoy playing the drum along with your favorite songs.

#### 20. USB MIDI Terminal

Connect the PC/USB host with audio devices.

#### Note:

Only transmit MIDI data.



#### 21. MIDI OUT Terminal

Use this to connect extra MIDI sequencer. you can send MIDI data to an extra MIDI device or a PC/laptop.

#### 22. OUTPUT jack (L/MONO, R) (2 x1/4")

Connect to your audio system or amplifier. For stereo output use both the L/MONO and R jacks. For monaural output use the L/MONO jack

#### 23. CRASH 2 jack (1/4")

This allows you to connect additional Crash 2.

#### 24. TOM 4 jack (1/4")

This allows you to connect additional Tom 4.







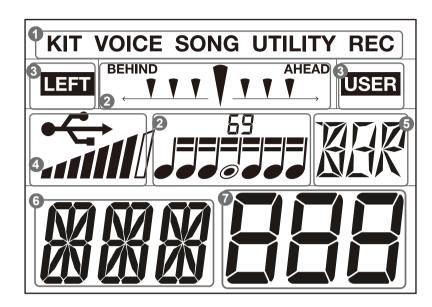






### **Panel Description**

### **LCD Display**



#### 1. Mode

Display the current mode, such as KIT, VOICE, SONG, and UTILITY and so on.

#### 2. Coach Mode

Display current beat accuracy and rhythm type.

#### 3. The Second Level Mode

When the mode is turned on, the LCD displays current mode.

#### 4. External Device and Strike Strength

Display the connected external device and current striking strength.

#### 5. Pad Name

Display the current selected pad name.

#### 6. Parameter Type

Display current parameter type, for instance, Volume, Curve and so on.

#### 7. Parameter Value

Display the value which corresponding to the parameter or the number of Song/Kit/Voice.











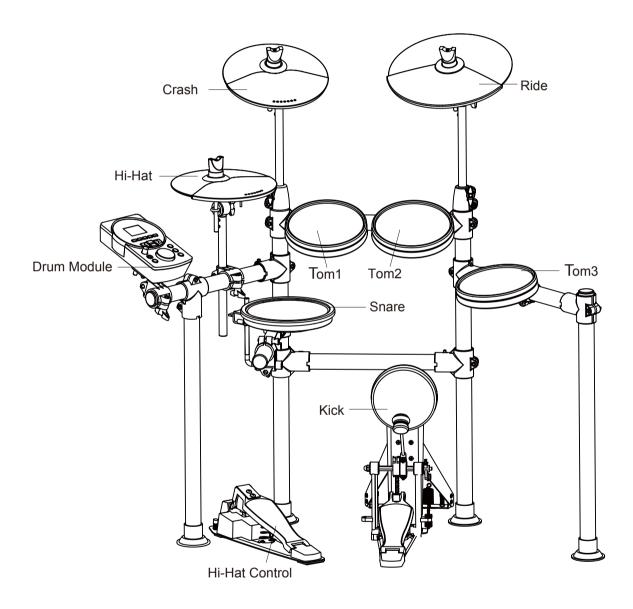


# Setup

### Caution!

To prevent electric shock and damage to drum module or other devices, always turn off the power of all devices before making any connections.

Connecting Pads and Pedals Standard configuration: KICK, SNARE (Double trigger), TOM 1~3, CRASH 1 (Choke), RIDE (Choke), HI-HAT, HI-HAT CONTROL PEDAL.



- 1. Using the cables provided, connect each Trigger input jack on the rear panel of the module, and make sure each pad is connected to its corresponding trigger input jack.
- 2. For details on assembling the drum stand, attaching the digital drum and connecting pads, refer to the Installation Manual description.





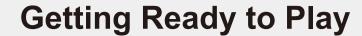












### Setting up the Power Supply

- 1. Connect the DC plug of the AC power adaptor to the DC IN jack on the side panel.
- 2. Connect the other end of the power cord to the AC outlet.

- 1. Only use the voltage specified as correct for the drum module.
- 2. Even when the module is turned off, electricity is still flowing to the module at the minimum level. When you are not using the drum module for a long time, make sure to unplug the AC power adaptor from the wall AC outlet.

#### Turning the Power On/Off Turning the power on

- 1. Please make sure that the volume has been adjusted minimize.
- 2. Press the [POWER] button.
- 3. Listen through the headphone.
- 4. Striking the pads and adjust the volume by slowly turning the [VOLUME] knob toward the right direction. Keep turning until you get an appropriate value.

1. Make sure that you have made all necessary connections right (trigger, audio and so on), turn down all volume controls of the module and other audio equipments.

#### Turning the power off

- 1. Minimize the volume of the module and connected audio devices.
- 2. Turn the connected external audio device off.
- 3. Press the [POWER] button again.

#### Note:

The drum module automatically saves all current settings before it turns off, you can also restore the factory setting by the following steps: a) Press the [<]/ [>] buttons simultaneously.

- b) Press the [POWER] button.
- c) When the LCD displays "FAC SET", it indicates the factory setting is finished.

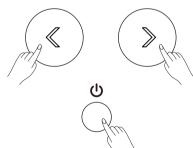
#### About the Auto Power Off Function

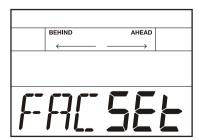
To prevent unnecessary power consumption, this function automatically turns the power off if no buttons or keys are operated for approximately 30 minutes. If desired, you can disable or enable this function. Refer to Utility Settings.





















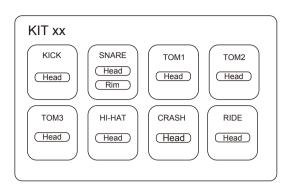


# **Quick Play**

#### **Drum Kits and Voices**

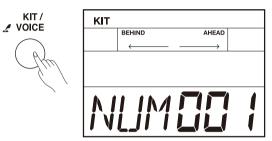
An acoustic drum has only a fixed kit, but the digital has a lot. It is a particular characteristic of digital drum.

The structure of a drum kit is shown on the right:



#### **Drum Kits and Voices**

**1.** Shortly press the [KIT/ VOICE] button, enter the drum kit menu. The screen is shown on the right:



2. Press the [<]/[>] button or turn the [DIAL] to select your desired drum kit. (Refer to *Drum Kit List*)





#### Selecting a voice

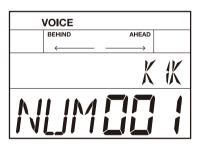
While striking the pads, you can enjoy the ensemble sound effect. If you are not satisfied with the voice of any pads, change the voice as you want.

 Press the [KIT/ VOICE] button for 2 seconds to enter the voice menu.

The screen displayed is shown on the right:

- 2. Strike the pad you want.
  The screen will display the name of current pad.
- **3.** While striking the pad, press the [<]/[>] button or turn the[DIAL] until you get an appropriate voice for your pads. (Refer to *Voice List*)











10













### **Quick Play**

#### **Playing Techniques**

This section introduces various performance functions to make your performance professional. Similar to an acoustic drum kit, the digital drum responds differently to various playing techniques and dynamics. All the pads are velocity sensitive. And some voices change timbre depending on the striking force.

#### Pad

Only the snare drum can detect both head shot and rim shot.

#### **Head Shot**

Strike only the head of the pad.

#### **Rim Shot**

Strike the head and the rim of the pad simultaneously. Or you can only strike the rim of the pad.

#### Cymbal

#### **Cymbal Bow shot**

Playing the middle area of the cymbal.

#### **Choke Play**

Both Ride and Crash cymbals have cymbal choke. But hi-hat don't have the cymbal choke.

Choking the crash/ride edge with the hand immediately after hitting the crash/ride mutes the crash/ride sound.

#### Hi-Hat

#### **Hi-Hat Pedal Change**

With different positions the pedal pressed down, the voice of pad varied while you are striking the Hi-Hat pad. And this is similar to an acoustic drum.

#### **Open Hi-Hat**

Strike the Hi-Hat pad without pressing the pedal.

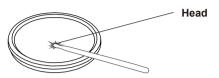
#### **Closed Hi-Hat**

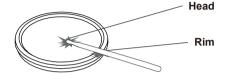
Strike the Hi-Hat pad with the pedal pressed completely down.

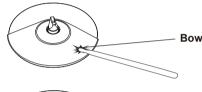
#### **Hi-Hat Pedal**

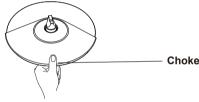
Press down the hi-hat controller's pedal to create a foot-close sound without having to strike the hi-hat pad.

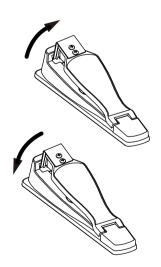
Playing the hi-hat with the pedal fully pressed and then instantly opening it.































# Select a Preset Drum Kit and Create a User Drum Kit

#### About the Preset and User Drum Kit

From No.1 to 30 are preset drum kits, and the drum kits from No.31 to 40 are user drum kits. You can edit the parameters of drum kit (from No.1-30), and save them into user drum kits (from No.31-40).

#### Note:

Please save your own parameter or voice after edited, otherwise, all data will lost.

#### **Edit the Drum Kit Parameters**

Change the drum kit volume, the overall effect of drum kit will be affected. It means if you increase the volume of drum kit, all volume of the pads will be increased.

- 1. Press the [KIT] button, the LCD will display the kit menu.
- 2. Repeatedly press the [PAGE] button to select the item that you want to edit.

Parameter	Value	LCD Display	Description
KIT NAME	Preset: 1~30	NUM XXX	Drum kit selection.
	User: 31-40		
VOLUME	0~127	VOL XXX	Adjust the volume of drum kit;
			the volume of each pad will be
			changed.

3. Press the [<]/ [>] button or turn the [DIAL] to adjust parameter value.

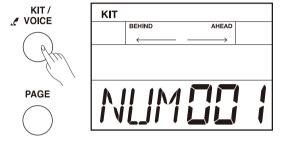
#### **Edit the Voice Parameters**

Edit parameters of one pad will not affect others. For example, if you increased the volume of snare, the other pads wouldn't change.

- 1. Press the [KIT/VOICE] button for 2 seconds and the LCD will display the voice menu.
- 2. Strike the pad that you want to edit.
- 3. Repeatedly press the [PAGE] button to select an item you want.

Parameter	Value	LCD Display	Description	Triggers:
<b>VOICE NAME</b>	1~408	NUM XXX	Select a voice.	KIK (KICK)
				Sn (Snare)
				SnR (Snare Rim)
				T1 (Tom1)
				T2 (Tom2)
VOLUME	0 407	VOL 2007	A.P. (th	T3 (Tom3)
VOLUME	0~127	VOL XXX	Adjust the volume	T4(Tom4)
			of voice.	HH (Hi-hat)
				C1 (Crash1)
				C2(Crash2)
				Rd (Ride)
				Pd (Hi-hat Pedal)
				PS (Hi-hat Splash)

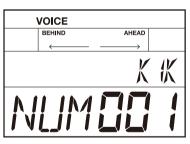
4. Press the [<]/[>] button or turn the [DIAL] to adjust parameter value.

























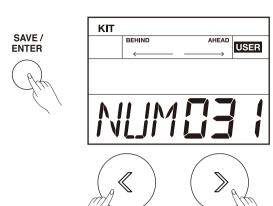


### Select a Preset Drum Kit and Create a User Drum Kit

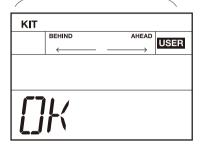
#### Save User Drum Kit

1. While in the drum kit and voice edit menu, press the [SAVE/ ENTER] button to save all changes.

- 2. Use the [<]/[>] button or turn the [DIAL] to select a user drum kit (From NO.31 to 40). The number of kit starts flashing at the same time.
- 3. Press the [SAVE/ ENTER] button again; the LCD will display "OK", which indicates all data has been saved successfully.



















# Playing Along with a Song

In order to have a better performance experience, a variety of styles can be selected. Each one offers you to practice. (Refer to the **Song List**) You can play the drums while listening to one of these songs. A song contains Drum part and Accompaniment part. Drum part means the rhythm you played on the pads; the Accompaniment part means percussion and melody. The volume of each part can be adjusted.

#### Playing Along with a Song

- 1. Press the [SONG] button to enter the selection menu.
- Repeatedly press the [PAGE] button to select the parameter that you want to edit.

Parameter	Value	LCD Display	Description
SONG SELECT	1~85	NUM XXX	Select a song.
ACC VOLUME	0~8	ACC XXX	Adjust the background volume.
DRUM VOLUME	0~8	DRM XXX	Adjust the drum volume.

- **3.** Use the [<]/[>] button or turn the [DIAL] to adjust the parameter value. Press the [<]/ [>] buttons simultaneously to mute songs.
- 4. Press the [START/STOP] button to play/stop songs.



Press the [DRUM OFF] button to enable and disenable the drum mute function. When DRUM OFF is enabled, the LED will turn on

#### Metronome

Practicing with the metronome is the best way to follow the beats. Choose a right tempo for your learning/ performance require.

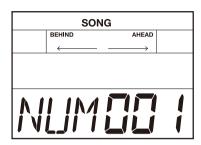
#### Starting/ Stopping the Metronome and Its Feature

- Press the [CLICK] button.
   The metronome will start playing, and the light of the [CLICK] button will blink with the tempo.
- **2.** Repeatedly press the [PAGE] button to select the parameter you want to edit. Adjustable parameters are shown below:

Parameter	Value	LCD Display	Description
TIME	0-9/2, 0-9/4,	SIG XXX	Adjust the time signature.
SIGNATURE	0-9/8, 0-9/16		
INTERVAL	1/2,3/8,1/4,	INT XXX	Adjust the rhythm interval.
	1/8,1/12,1/16		
VOLUME	0~5	VOL XXX	Adjust the volume of
			metronome.
NAME	1~6	NUM XXX	Select the metronome voice.

- Use the [<]/[>] button or turn the [DIAL] to change the parameter value.
- Press the [CLICK] button again to stop the metronome, the light will be off.

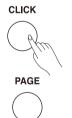


















14













# Record

This digital drum offers you easily record your own performance. Maximize 2500 notes could be recorded in one user song.

Preparing and starting record, refer to the details bellow:

#### **Preparing Record**

- Press the [SONG/REC] button for 2 seconds to enter the Recordprepare mode, the light of the [SONG/REC] button start flashing, please select which user songs(81-85) you want to record.
- 2. Press the [START/STOP] button, the LCD displays "RDY---". It means the record is standby. If you want to exit the record-prepare mode, press the [SONG]/ [KIT] button.

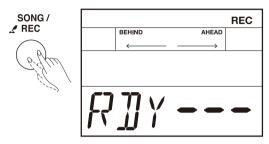
#### Start / Stop recording

- **1.** You can start recording in real time while in the preparing record menu, there are two ways to start record:
  - Press the [START/STOP] button.
  - Strike one pad.
- 2. Recoding begins after 4 beats count-in.
- While recording, the light of the [SONG/REC] button keeps lighting all the time, and the LCD will display "ING xxx", the "xxx" means measure number.
- Press the [START/STOP] button again to stop recording, and the light of the [SONG/REC] button will be off.
- **5.** The system returns to the last option automatically. The LCD will display "NUM 81~85". Press the [START/ STOP] button to play back the recorded song.

#### Note:

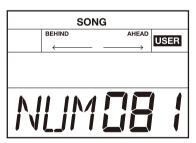
While the record storage capacity is full, the LCD will temporarily display "REC FUL", the recording stops automatically.

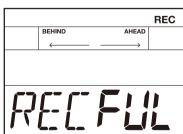
The UserKitxx shouldn't be changed if you use it to record, otherwise the record playback may not be correct.

























## Coach

The Coach mode is a unique set of exercises. Specifically designed for those learners who want to build a better tempo, accuracy and stamina, as well as developing a better drum playing skills.

#### **About Coach Mode**

There are three types of exercises in Coach Mode: Quiet Count, Change Up and Beat Check. Each exercise has its special practicing characteristics. Automatic grading function is available for Change Up and Beat Check types. Try to get a perfect score of 100!

#### **Coach Mode Control**

1. Press the [COACH] button to enter coach mode. Then repeatedly press the [PAGE] button to shift coach type among Quiet Count, Change Up and Beat Check. In the meantime, you can set the accent beat prompt for MEA.

According to your present playing skills, select an appropriate coach type to practice.

Coach Type	Display	Description
Quiet Count	QUT CNt	This helps to develop a good sense of time/
		tempo. There are 3 types of quiet mode and
		5 selectable rhythm types.
Change Up	CHG UP	3 types of rhythm pattern to train your beat
		accuracy. The rhythm type will change every
		two measures.
Beat Check	BEA CHE	Only metronome accuracy practice. There
		are 13 selectable rhythm types.
Measure Hint	MEA	Turn on/off accent hint

- 2. Press the [SAVE/ ENTER] button to enter the selected coach type.
- 3. Use the [PAGE] button to select relevant parameters. Throughout the Coach modes, you will discover that some of them have programmable parameters, allowing you to adapt the functions to your specific needs.
- 4. Press the [TEMPO] button to adjust practice speed at any time.
- **5.** Pay attention to the LCD indicators of hitting accuracy when you are practicing.

#### Note:

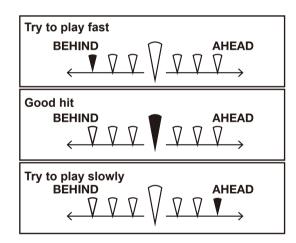
- 1. Set the automatic grading function to "ON", only playing with metronome guidance without bell.
- 2. Set the automatic grading function to "OFF", playing with conventional metronome sound with bell.
- 6. Press the [COACH] button to exit the Coach Mode.

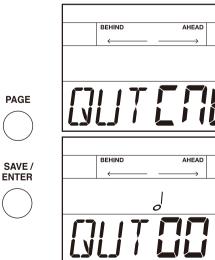
### **QUT CNT (QUIET COUNT)**

Practice with auto metronome on/ off circularly with several measures to help you develop a good sense of time and tempo.

- 1. Repeatedly press the [PAGE] button to select quiet count mode.
- 2. Press the [SAVE/ ENTER] button to enter quiet count mode.
- 3. Use the [PAGE] button switch between QUT and CNT parameters, press the [<]/[>] button or turn the [DIAL] to select a suitable quiet and count type.

COACH PAGE





16

















### Coach

<b>Parameters</b>	Range	Display	Description
QUT	1~5	QUT XXX	Use the [<]/ [>] button or turn the [DIAL] to select a suitable quiet type.
CNT	1-1/2-2/1-3	CNT XXX	Use the [<]/ [>] button or turn the [DIAL] to select a suitable count type. 1-1: 1 measure counts, 1 measure quiets. 2-2: 2 measure counts, 2 measure quiets. 1-3: 1 measure counts, 3 measure quiets.

- 4. Press the [START/ STOP] button to start practicing. There is a count-in about 1 measure length before starting. Metro nome sound automatically on/ off, you have to catch up with every beat you ought to play, come on!
- 5. If you want to change another QUT/CNT parameter or just exit coach mode, Firstly, press the [START/ STOP] button again to stop practicing.

#### Change Up

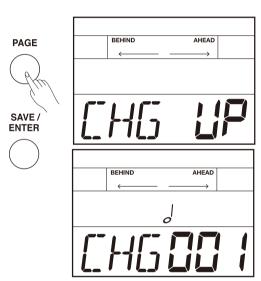
In change up mode, system will automatic change the style every two measures. Starting from half notes, the note values will gradually become shorter, and will then return to half notes; this change in rhythms will be repeated. The icon on the LCD will flash for times when the rhythm type is ready to change.

- 1. Repeatedly press the [PAGE] button to select change up mode.
- 2. Press the [SAVE/ ENTER] button to enter change up mode.
- 3. Use the [<]/[>] button or turn the [DIAL] to select a suitable rhythm pattern.
- 4. Use the [PAGE] button to switch to score editing, press the [<]/[>] button or turn the [DIAL] to turn score function on/ off. The default score setting is "OFF".

Chang Up			Description
CHG	1~3	CHG XXX	Use the [<]/[>] button or turn the
			[DIAL] to select a suitable rhythm
			type.
SCO	ON/ OFF	SCO XXX	ON: The score setting is on.
			OFF: The score setting is off.

- 5. Press the [START/ STOP] button to start practicing. There will play a length of one measure count-in before starting. This system automatic change the style every two measures. In addition to, the next rhythm will flash for times on the LCD when the rhythm type is ready to change.
- 6. If the score setting is "ON": Auto stops practicing and displays your score after circularly playing several times. Or, Press the [START/ STOP] button to stop practicing and back to the main page of change up without display your score. If the score setting is "OFF": Press the [START/ STOP] button to stop the practicing mode.





Rhythm Pattern	Display	Description
P-1	CHG 001	J=J=J=∄⊃∭
P-2	CHG 002	▗▄▗▄⋒ ▗▄⋒⋺⋒
P-3	CHG 003	ת=ו=ות= =:::::::::::::::::::::::::::::::















#### Coach

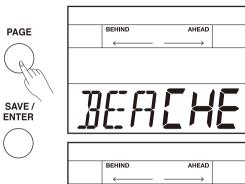
#### **Beat Check**

In order to improve playing accuracy of beat, practice with the metronome basic beat type. If the score function is on, system will display your practicing score after you have finished.

- 1. Repeatedly press the [PAGE] button to select beat check mode.
- 2. Press the [SAVE/ ENTER] button to enter beat check mode.
- **3.** Use the [<]/[>] button or turn the [DIAL] to select a beat type to practice. There are 13 beat types to choose from.
- 4. Use the [PAGE] button to switch to score editing, press the [<]/[>] button or turn the [DIAL] to turn score function on/ off. The default score setting is "OFF".

Beat check		Display	Description
BEA	1-13	BEA XXX	ַוֹן לַלְּלִּ הָּתָ לַלְּלִּ הָּתָ עַ עָּן בּיִּלְ
			על אָלְיּלְ אָלְיּלְ אָלְיִּלְ אָלְיִּלְ אָלְיִּלְ Use the [<]/[>] button or turn the [DIAL] to select a suitable beat type.
sco	ON, OFF	scoxxx	ON: The score setting is on. OFF: The score setting is off.

- **5.** Press the [START/ STOP] button to start practicing. There will play a length of one measure count-in before starting.
- 6. If the score setting is "ON": Auto stops practicing and displays your score after circularly playing several times. Or, Press the [START/ STOP] button to stop practicing and back to the main page of beat check without display your score. If the score setting is "OFF": Press the [START/ STOP] button to stop the practicing mode.























# **DBT (Double Bass Trigger)**

Normally, it is too hard for beginners to play double bass, almost impossible, but we make it possible now. Turn on DBT function on; it can generate two or three continuous kick sounds when you step on the bass drum only once. Easy to achieve double bass pedal techniques.

#### **Turn the DBT Function On**

1. Press the [DBT] button to turn DBT function on. The [DBT] button

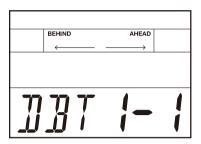
The screen will display "DBT 1-x".

2. Use [<]/ [>] or the [DIAL] to adjust the second trigger time. This setting can be remained even turn the module off.

Parameter			Description
BEA	1-1/1-2/	DBT XXX	1. Press the [<]/[>] button or turn the
	1-3/1-4		[DIAL] to select a rhythm type.
			2. 1=original beat, trigger once.
			2=original beat/ 2, trigger once.
			3=original beat/ 3, trigger twice.
			4=original beat/ 4, trigger three times.
			3. Power off protection. This setting can
			be remained even turn the module off.

- 3. As you play the bass drum, it can produce a double bass technique.
- 4. Press the [DBT] button again, turn DBT function off.

# DBT







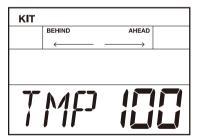
# Tempo

Press the [TEMPO] button to adjust the tempo value of metronome and song playback.

- 1. Press the [TEMPO] button.
- 2. Use the [<]/[>] button or the [DIAL] to adjust tempo value.
- 3. Without any operation within 3 seconds, the system will be back to previous menu automatically.

		<b>LCD Display</b>	Description
Tempo	30-280	TMP xxx	Both metronome and song playback
			are based on this tempo value.



























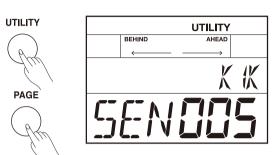
This mode contains two parts: the drum pad trigger settings and drum module settings.

### The Drum Pad Trigger Settings

As a professional drummer, you may be very pleased to set your drum triggers carefully corresponding to your playing habits and feelings, making your performance more interesting and professional. At the meantime, your digital drum will be more operable.

- 1. Press the [UTILITY] button, the LCD will display the UTILITY menu.
- 2. Repeatedly press the [PAGE] button to select the trigger parameters that you want to edit.

The drum pad trigger settings are shown below:



Parameter	Value	LCD Display	Description
SENSITIVITY	1~16	SEN XXX	You can adjust the sensitivity of the pads to accommodate your personal playing habit. Higher sensitivity allows the pad to produce a loud volume even when played softly. Lower sensitivity will keep the pad to producing a low volume even when played forcefully.
XTALK	1~8	XTK XXX	This setting avoids "crosstalk", which means that when you play one pad you can hear a sound coming from another pad. This can happen when two pads are installed on the same stand.  In some cases you can prevent crosstalk by increasing the distance between the two mounted pads.  For example: If you hit the snare pad and the tom 1 also sounds.  While striking the snare pad, gradually increase the "XTALK" value for the tom 1 pad until the tom 1 pad no longer sounds when you hit the snare pad. If you raise the "XTALK" higher, the tom 1 pad will be less prone to receive crosstalk from other pads.  Note: If the value is set too high, and two pads are played simultaneously, the one that is struck less forcefully may not sound. Be careful and set this parameter to the minimum value required to prevent crosstalk.
CURVE	1~6	CUR XXX	This setting allows you to control the relation between playing velocity (striking force) and changes in volume. Adjust this curve until the response feels as natural as possible. Refer to the CURVE description.
RETRIG CANCEL	1~16	RTG XXX	This setting avoids "re-triggering", which means that when you strike a pad once, maybe you can hear two hits coming from one strike. This can happen as the pad oscillate. While repeatedly striking the pad, raise the "Retrig Cancel" value until re-triggering no longer occurs.  Although setting this to a high value prevents re-triggering, it then becomes easy for sounds to be omitted when the drums played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no re-triggering.
MIDI NOTE	0~127	MID XXX	MIDI output key mapping

- 3. Striking the specified pad, select the pad that you want to edit.
- 4. Use the [<]/[>] button or the [DIAL] to adjust the parameter value.

















### **Utility Mode (UTILITY)**

#### Note:

The Curve descriptions are shown below:

Curve 1: The standard setting. This produces the most natural correspondence between playing dynamics and volume change.

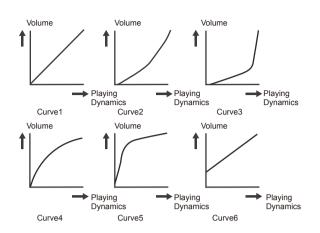
Curve 2, 3: Compared to Curve 1, strong dynamics produce a greater

Curve 4, 5: Compared to Curve 1, a soft playing produces a greater change.

Curve 6: Very little dynamic response, making it easy to maintain strong volume levels. If you are using a drum trigger as an external pad, these settings will produce reliable triggering.

#### Default Midi Note:

Trigger	MIDI	Trigger	MIDI
Kick	36	Ride Bow	51
Snare Head	38	Crash1 Bow	49
Snare Rim	40	Crash2 Bow	57
Tom1 Head	48	Open Hihat	46
Tom2 Head	45	Close Hihat	42
Tom3 Head	43	Pedal	44
Tom4 Head	41	Hihat Splash	21



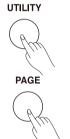
### The Drum Module Settings

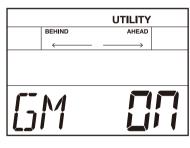
You can go further set the drum module function, do as the procedures shown below:

- 1. Press the [UTILITY] button, the LCD will display the UTILITY menu.
- 2. You can repeatedly press the [PAGE] button to select the function menu and use the [<]/[>] button or the [DIAL] to adjust the parameter value.

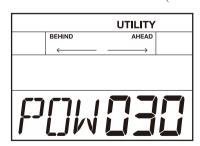
The setting values of drum module are shown below:

Parameter	Range	LCD Display	Description
GM MODE	ON/OFF	GM XXX	ON: The channel 10 will respond
			GM drum kit.
			OFF: The channel 10 will
			respond local drum kit.
AUTO	30, 60 ,OFF	POW XXX	Factory settings, approximately
POWER			30 minutes.
			30: Automatically turns the power
			off if no buttons or functions are
			operated for approximately 30
			minutes.
			60: Automatically turns the power
			off if no buttons or functions are
			operated for approximately 60
			minutes.
			OFF: The power will not power
			off automatically.





















# **Troubleshooting**

Problem	Possible Cause and Solution
No sound	Rotate the [VOLUME] knob to be sure that the volume isn't down.     To be sure that Local Mode should be set to "ON"
No sound from Pads	<ol> <li>To be sure that the pad is connected correctly.</li> <li>To be sure not set the volume of the pad to 0.</li> </ol>
No click sound	<ol> <li>To be sure the metronome is turned on.</li> <li>To be sure not set the volume of the click to 0.</li> </ol>
The Pad volume doesn't match the Song playback volume.	Adjust the song playback volume to match the pad volume.
Cannot connect to the computer	Make sure the USB has correctly connected.     Do the connect operation again (Keep the computer on, and then turn the module on, connect the USB cable).

# **Prompt Messages**

Message	Meaning
REC FUL	The record data memory is full.
FAC SEt	The factory reset of module is complete.
EMP	The user song is empty.
OK	The drum kit and utility settings are saved.
WAT	The data is loading from flash ROM now, please wait.















#### **Maximum Polyphony**

64

#### **Drum kits**

Kit: 40 (30 Presets + 10 Users) GM Drum Kit: 11 GM Drum Kits

#### Instruments

Instrument: 408 + 10 Hi-hat Combination

#### Sequencer

Preset Pattern: 80 User Song: 5

Tick: 192 ticks per beat Record: Real-time Record Data Capacity: About 2500 notes

30~280

#### **Display**

Backlit LCD

#### Connectors

TRIGGER INPUT Connector(DB25), PHONES, LINE OUT (R, L/MONO), TOM4, CRASH2, MIDI OUT, AUX IN, **USB-MIDI** 

#### **Control Buttons**

Power on/off, Master Volume, Click, Kit/ Voice, Save/ Enter, Drum Off, DBT, Coach, Song/ Rec, Start/Stop, Utility, Tempo, +/-, Page, Dial.

#### **Power Supply**

DC 9V, 500mA

#### **Dimensions**

125(W) X 187.5 (L) X 95 (H) mm

#### **Module Weight**

0.5 kg

\* All specifications and appearances are subject to change without notice.

# **Drum Kit List**

No.	PRESET KIT
1	Acoustic 1
2	Funk Band
3	Standard 1
4	Jazz Brush
5	Dacne
6	Rock
7	Jazz
8	808
9	909
10	Funk
11	FX Mix
12	Power
13	Latin
14	Room
15	Marimba

No.	PRESET KIT
16	Percussion 1
17	90's Power
18	Indian
19	African
20	Electronic
21	Reggae
22	Fusion
23	Brush
24	Orchestra
25	НірНор
26	Big Band
27	Live
28	House
29	Techno
30	Vintage













No.	NAME
KICK	
1	22" Acoustic Kick 1
2	22" Acoustic Kick 2
3	24" Standard Kick
4	Brush Kick 1
5	Brush Kick 2
6	Jazz Kick
7	22" Rock Kick
8	Room Kick
9	Fusion Kick
10	1970's Kick
11	Vintage Kick
12	HipHop Kick
13	Reggae Kick
14	808 Kick
15	909 Kick
16	Electronic Kick
17	Power Kick
18	Dance Kick
	FX Mix Kick
-	Techno Kick
SNA	
21	14" Acoustic Snare
22	14" Acoustic Snare Rim
23	14" Standard Snare
24	14" Standard Snare Rim
25	14" Funk Snare 1
26	14" Funk Snare Rim 1
27	14" Funk Snare 2
28	14" Funk Snare Rim 2
29	Brush Snare 1
30	Brush Snare Rim 1
31	Brush Snare 2
32	Brush Snare Rim 2
33	14" Jazz Snare
34	14" Jazz Snare Rim
35	14" Rock Snare
36	14" Rock Snare Rim
37	13" Damped Snare 1
38	13" Damped Snare 2
39	13" Damped Snare 3
40	Orchestra Snare
41	Orchestra Snare Rim
42	Room Snare
43	Room Snare Rim
44	Fusion Snare
45	Fusion Snare Rim
46	Big Band Snare
47	Big Band Snare Rim
48	Vintage Snare
49	Vintage Snare Rim
50	Live Snare
51	Live Snare Rim

52 F	Reggae Snare
53 I	Reggae Snare Rim
54 l	R&B Snare
55 I	R&B Snare Rim
56 8	808 Snare
	808 Snare Rim
	909 Snare
	909 Snare Rim
	Electronic Snare
	Power Snare
	Dance Snare
	Dance Snare Rim
	House Snare
	House Snare Rim
	Lo-Fi Snare
	Lo-Fi Snare Rim
	Techno Snare
	Techno Snare Rim
	Acoustic Snare Stick
	Standard Snare Stick 1
	Brush Snare Stick
	Standard Snare Stick 2
	Rock Snare Stick 1
	Rock Snare Stick 2
	Live Snare Stick
	Room Snare Stick
	Fusion Snare Stick 808 Snare Stick
	909 Snare Stick
-	Electronic Snare Stick
	House Snare Stick
-	Lo-Fi Snare Stick
	Techno Snare Stick
	Brush Swirl
TOM	A C . T 4
	Acoustic Tom 1
	Acoustic Tom 1 Rim
	Acoustic Tom 2
	Acoustic Tom 2 Rim
	Acoustic Tom 3
	Acoustic Tom 3 Rim
	Acoustic Tom 4
	Acoustic Tom 4 Rim
	Acoustic Tom 5
	Acoustic Tom 5 Rim
	Acoustic Tom 6
	Acoustic Tom 6 Rim
	Brush Tom 1
	Brush Tom 1 Rim
	Brush Tom 2
	Brush Tom 2 Rim
	Brush Tom 3
103 E	Brush Tom 3 Rim
	Brush Tom 4

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121 Funk Tom 6 Rim 122 Jazz Tom 1 123 Jazz Tom 1 Rim 124 Jazz Tom 2 125 Jazz Tom 2 Rim 126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 133 Jazz Tom 6 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom 6 144 808 Tom 7 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
122 Jazz Tom 1 123 Jazz Tom 1 Rim 124 Jazz Tom 2 125 Jazz Tom 2 Rim 126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 131 Jazz Tom 6 133 Jazz Tom 6 133 Jazz Tom 6 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
123 Jazz Tom 1 Rim 124 Jazz Tom 2 125 Jazz Tom 2 Rim 126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 131 Jazz Tom 6 133 Jazz Tom 6 133 Jazz Tom 6 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
124 Jazz Tom 2 125 Jazz Tom 2 Rim 126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
125 Jazz Tom 2 Rim 126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
126 Jazz Tom 3 127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
127 Jazz Tom 3 Rim 128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
128 Jazz Tom 4 129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 3 141 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
129 Jazz Tom 4 Rim 130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 2 140 808 Tom 3 141 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
130 Jazz Tom 5 131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
131 Jazz Tom 5 Rim 132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
132 Jazz Tom 6 133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
133 Jazz Tom 6 Rim 134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		Jazz Tom 5 Rim
134 Fusion Tom 1 135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	132	
135 Fusion Tom 2 136 Fusion Tom 3 137 Fusion Tom 4 138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		Jazz Tom 6 Rim
136 Fusion Tom 3  137 Fusion Tom 4  138 808 Tom 1  139 808 Tom 2  140 808 Tom 3  141 808 Tom 4  142 808 Tom 5  143 808 Tom 6  144 808 Tom Fx 1  145 808 Tom Fx 2  146 909 Tom 1  147 909 Tom 2  148 909 Tom 3  149 909 Tom 4	134	
137 Fusion Tom 4  138 808 Tom 1  139 808 Tom 2  140 808 Tom 3  141 808 Tom 4  142 808 Tom 5  143 808 Tom 6  144 808 Tom Fx 1  145 808 Tom Fx 2  146 909 Tom 1  147 909 Tom 2  148 909 Tom 3  149 909 Tom 4	135	Fusion Tom 2
138 808 Tom 1 139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	136	Fusion Tom 3
139 808 Tom 2 140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	137	Fusion Tom 4
140 808 Tom 3 141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	138	808 Tom 1
141 808 Tom 4 142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	139	808 Tom 2
142 808 Tom 5 143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	140	808 Tom 3
143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	141	808 Tom 4
143 808 Tom 6 144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4	142	808 Tom 5
144 808 Tom Fx 1 145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
145 808 Tom Fx 2 146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		808 Tom Fx 1
146 909 Tom 1 147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
147 909 Tom 2 148 909 Tom 3 149 909 Tom 4		
148 909 Tom 3 149 909 Tom 4		
149 909 Tom 4		
100   000 10111 0		
151 909 Tom 6		
152 909 Tom 7		
153 909 Tom 8		
154 Electronic Tom 1		
157 Electronic Tom 4		
158   Electronic Tom 5	158	Electronic form 5











# **Drum Voice List**

159	Electronic Tom 6
160	Electronic Tom 7
161	Electronic Tom 8
162	Power Tom 1
163	Power Tom 2
164	Power Tom 3
165	Power Tom 4
166	Power Tom 5
167	Power Tom 6
168	90's Power Tom 1
169	90's Power Tom 2
170	90's Power Tom 3
171	90's Power Tom 4
172	90's Power Tom 5
173	90's Power Tom 6
173	
174	Techno Tom 1 Techno Tom 1 Rim
_	Techno Tom 1 RIM
176	
177	Techno Tom 2 Rim
178	Techno Tom 3
179	Techno Tom 3 Rim
180	Techno Tom 4
181	Techno Tom 4 Rim
182	Techno Tom 5
183	Techno Tom 5 Rim
184	Techno Tom 6
185	Techno Tom 6 Rim
SNA	RE
<b>SNA</b> 186	RE 21" Acoustic Ride
<b>SNA</b> 186 187	RE 21" Acoustic Ride 21" Acoustic Ride Edge
186 187 188	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell
<b>SNA</b> 186 187 188 189	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1
\$NA 186 187 188 189 190	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2
186 187 188 189 190 191	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride
\$NA 186 187 188 189 190 191 192	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge
186 187 188 189 190 191	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Edge 20" Funk Ride Bell
\$NA 186 187 188 189 190 191 192	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge
186 187 188 189 190 191 192 193	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Edge 20" Funk Ride Bell
186 187 188 189 190 191 192 193 194	RE  21" Acoustic Ride  21" Acoustic Ride Edge  21" Acoustic Ride Bell  Brush Ride 1  Brush Ride 2  20" Funk Ride  20" Funk Ride Edge  20" Funk Ride Bell  20" Funk Ride Bell  20" Rock Ride
186 187 188 189 190 191 192 193 194 195	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride
186 187 188 189 190 191 192 193 194 195 196	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge
186 187 188 189 190 191 192 193 194 195 196	RE 21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197	RE  21" Acoustic Ride  21" Acoustic Ride Edge  21" Acoustic Ride Bell  Brush Ride 1  Brush Ride 2  20" Funk Ride  20" Funk Ride Edge  20" Funk Ride Bell  20" Funk Ride Bell  20" Rock Ride Bell  20" Rock Ride  20" Rock Ride Bell  808 Ride  20" Room Ride
186 187 188 189 190 191 192 193 194 195 196 197 198	RE  21" Acoustic Ride  21" Acoustic Ride Edge  21" Acoustic Ride Bell  Brush Ride 1  Brush Ride 2  20" Funk Ride  20" Funk Ride Edge  20" Funk Ride Bell  20" Funk Ride Bell  20" Rock Ride  20" Rock Ride  20" Rock Ride Bell  808 Ride  20" Room Ride  20" Room Ride
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Bell 808 Ride 20" Room Ride 20" Room Ride 20" Room Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Bell 808 Ride 20" Room Ride 20" Room Ride 20" Room Ride Edge 20" Room Ride Edge 40" Room Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203	RE  21" Acoustic Ride  21" Acoustic Ride Edge  21" Acoustic Ride Edge  21" Acoustic Ride Bell  Brush Ride 1  Brush Ride 2  20" Funk Ride  20" Funk Ride Edge  20" Funk Ride Edge  20" Rock Ride Bell  20" Rock Ride Bell  20" Rock Ride Bell  808 Ride  20" Room Ride  20" Room Ride  20" Room Ride Edge  House Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Bell 808 Ride 20" Room Ride 20" Room Ride 20" Room Ride Edge 40" Room Ride Edge 40" Room Ride Edge 40" Room Ride Edge 40" Room Ride Bell 40USE RidE Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride Bell 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Bell 808 Ride 20" Room Ride 20" Room Ride 20" Room Ride Edge House Ride Edge 20" Room Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride Bell 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Edge 20" Room Ride Bell 808 Ride 20" Room Ride Edge 20" Room Ride Edge 40" Room Ride Edge 40" Room Ride Edge 40" Room Ride Edge 40" Room Ride Bell 40use Ride 40use Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 200 201 202 203 204 205 206 207	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rocm Ride Bell 808 Ride 20" Room Ride 20" Room Ride Edge 20" Room Ride Edge Eor Room Ride Edge Eor Room Ride Edge Lo-Fi Ride Lo-Fi Ride Edge Lo-Fi Ride Bell Junkyard Ride
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride 20" Funk Ride Edge 20" Funk Ride Bell 20" Rock Ride 20" Rock Ride 20" Rock Ride Edge 20" Rock Ride Edge 20" Rock Ride Bell 808 Ride 20" Room Ride 20" Room Ride 20" Room Ride Edge 10" Room Ride Edge 20" Room Ride Edge 20" Room Ride Edge 20" Room Ride Edge 10-Fi Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 200 201 202 203 204 205 206 207 208	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride Edge 20" Funk Ride Bell 20" Funk Ride Bell 20" Rock Ride Bell 20" Rock Ride Edge 20" Rock Ride Edge 20" Room Ride Edge 20" Room Ride Bell 808 Ride 20" Room Ride Edge 20" Room Ride Edge 10" Room Ride Edge 20" Room Ride Edge 20" Room Ride Edge 10" Room Ride Edge 10" Room Ride Edge 10" Room Ride Edge 10-Fi Ride Edge
186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	RE  21" Acoustic Ride 21" Acoustic Ride Edge 21" Acoustic Ride Edge 21" Acoustic Ride Bell Brush Ride 1 Brush Ride 2 20" Funk Ride Edge 20" Funk Ride Bell 20" Funk Ride Bell 20" Rock Ride Bell 20" Rock Ride Edge 20" Rock Ride Edge 20" Room Ride Edge 20" Room Ride Bell 808 Ride 20" Room Ride Edge 20" Room Ride Edge 10" Room Ride Edge 20" Room Ride Edge 20" Room Ride Edge 10" Room Ride Edge 10" Room Ride Edge 10" Room Ride Edge 10-Fi Ride Edge

	1						
211	16" Acoustic Crash 1 Edge						
212	16" Acoustic Crash 2						
213	16" Acoustic Crash 2 Edge						
214	16" Standard Crash 1						
215	16" Standard Crash 1 Edge						
216	16" Standard Crash 2						
217	16" Standard Crash 2 Edge						
218	Brush Crash 1						
219	Brush Crash 2						
220	Brush Crash 3						
221	Brush Crash 4						
222	Funk Crash 1						
223	Funk Crash 1 Edge						
224	Funk Crash 2						
225	Funk Crash 2 Edge						
226	19" Jazz Crash 1						
227	19" Jazz Crash 1 Edge						
228	19" Jazz Crash 2						
229	19" Jazz Crash 2 Edge						
230	Rock Crash 1						
231	Rock Crash 1 Edge						
232	Rock Crash 2						
233	Rock Crash 2 Edge						
234	808Crash						
235	909Crash 1						
236	909Crash 2						
237	Electronic Crash 1						
238	Electronic Crash 2						
239	Orchestra Crash 1						
240	Orchestra Crash 2						
241	Orchestra Crash 3						
242	Room Crash						
243	Room Crash Edge						
244	1970's Crash 1						
245	1970's Crash 2						
246	Vintage Crash 1						
247	Vintage Crash 1 Edge						
248	Vintage Crash 2						
249	Vintage Crash 2 Edge						
250	Big Band Crash 1						
251	Big Band Crash 1 Edge						
252	Big Band Crash 2						
253	Big Band Crash 2 Edge						
254	Techno Crash 1						
255	Techno Crash 1 Edge						
256	Techno Crash 2						
257	Techno Crash 2 Edge						
258	Latin Crash 1						
259	Latin Crash 1 Edge						
260	Latin Crash 2						
261	Latin Crash 2 Edge						
262	China 1						
263	China 1 Edge						
264	Splash						
	1 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-						

265	Splash Edge						
HIHA	T						
266	14" Acoustic Hi-hat						
267	14" Acoustic Hi-hat Edge						
268	14" Acoustic Hi-hat Edge						
269	14" Acoustic Hi-hat Splash						
270	14" Standard Hi-hat						
271	14" Standard Hi-hat Edge						
272	14" Standard Hi-hat Pedal						
273	14" Standard Hi-hat Splash						
274	Brush Hi-hat						
275	Brush Hi-hat Pedal						
276	Brush Hi-hat Splash						
277	14" Rock Hi-hat						
278	14" Rock Hi-hat Edge						
279	14" Rock Hi-hat Pedal						
280	14" Rock Hi-hat Splash						
281	808 Hi-hat						
282	808 Hi-hat Pedal						
283	808 Hi-hat Splash						
284	909 Hi-hat						
285	909 Hi-hat Pedal						
286	909 Hi-hat Splash						
287	Dance Hi-hat						
288	Dance Hi-hat Pedal						
289	Dance Hi-hat Splash						
	CUSSION						
290	Maracas						
1 -00							
	Metronome Bell						
291	Metronome Bell Vibra-slap 1						
291 292	Vibra-slap 1						
291 292 293	Vibra-slap 1 Vibra-slap 2						
291 292 293 294	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3						
291 292 293 294 295	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1						
291 292 293 294 295 296	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2						
291 292 293 294 295 296 297	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1						
291 292 293 294 295 296 297 298	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2						
291 292 293 294 295 296 297 298 299	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1						
291 292 293 294 295 296 297 298 299 300	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2						
291 292 293 294 295 296 297 298 299 300 301	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1						
291 292 293 294 295 296 297 298 299 300 301 302	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2						
291 292 293 294 295 296 297 298 299 300 301 302 303	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 1 Open Hi Conga 1						
291 292 293 294 295 296 297 298 299 300 301 302 303 304	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 1 Open Hi Conga 2						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 2 Low Conga						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 1 Rim						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 2						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 2 High Timbale 2 Rim						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 2 High Timbale 2 Rim Low Timbale 1						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 2 High Timbale 2 Rim Low Timbale 2						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 1 Rim High Timbale 2 High Timbale 2 Low Timbale 2						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 2 High Timbale 2 Rim Low Timbale 2						
291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313	Vibra-slap 1 Vibra-slap 2 Vibra-slap 3 Synthesis Percussion 1 Synthesis Percussion 2 High Q 1 High Q 2 Low Q 1 Low Q 2 Mute Hi Conga 1 Mute Hi Conga 2 Open Hi Conga 1 Open Hi Conga 2 Low Conga High Bongo Low Bongo High Timbale 1 High Timbale 1 Rim High Timbale 2 High Timbale 2 Low Timbale 2						











# **Drum Voice List**

047	I i i i i i i i i i i i i i i i i i i i						
317	High Agogo						
318	Low Agogo						
319	Claves						
320	Jingle Bell						
321	Cowbell						
322	Bell Tree 1						
323	Bell Tree 2						
324	Tambourine						
325	Cabasa						
326	Long Guiro						
327	Short Guiro						
328	Indian 1						
329	Indian 2						
330	Indian 3						
331	Indian 4						
332	Indian 5						
333	Indian 6						
334	Indian 7						
335	Indian 8						
336	Indian 9						
337	Indian 10						
338	Indian 11						
339	Indian 12						
340	Indian 13						
341	Indian 14						
342	Indian 15						
343	Indian 16						
344	Indian 17						
345	African 1						
346	African 2						
347	African 3						
348							
	African 4						
349	African 5						
350	African 6						
351	African 7						
352	African 8						
353	African 9						
354	African 10						
355	African 11						
356	African 12						
357	African 13						
358	African 14						
359	African 15						
360	African 16						
361	African 17						
362	Marimba C3						
363	Marimba C4						
364	Marimba D4						
365	Marimba E4						
366	Marimba F4						
367	Marimba G4						
368	Marimba A4						
369	Marimba B4						
370	Marimba C5						
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371	Marimba D5					
372	Marimba E5					
373	Marimba F5					
374	Marimba G5					
375	Marimba A5					
376	Marimba B5					
377	Marimba C6					
378	Orchestra Timp E2					
379	Orchestra Timp F2					
380	Orchestra Timp Gb2					
381	Orchestra Timp G2					
382	Orchestra Timp Ab2					
383	Orchestra Timp A2					
384	Orchestra Timp Bb2					
385	Orchestra Timp B2					
386	Orchestra Timp C3					
FX						
387	FX 1					
388	FX 2					
389	FX 3					
390	FX 4					
391	FX 5					
392	FX 6					
393	FX 7					
394	FX 8					
395	FX 9					
396	FX 10					
397	FX 11					
398	FX 12					
399	FX 13					
400	FX 14					
401	FX 15					
402	FX 16					
403	FX 17					
404	FX 18					
405	FX 19					
406	FX 20					
407	FX 21					
407						
	Mute T COMBINATION					
409	Acoustic					
410	Standard					
411						
412	JazBrush Rock					
413	808					
414	909 Danco					
415	Dance					
416	Marimba					
417	Indian					
418	African					









# Song List

No.	Name				
1	Funk1				
2	Rock N'Roll1				
3	Dance1				
4	Pop1				
5	Fusion1				
6	R&B1				
7	BritPop				
8	R&B2				
9	GtrBossa				
10	Rock Ballad				
11	Folk				
12	Funk Shuffle				
13	Ele Pop1				
14	Pop2				
15	Bossa Nova1				
16	Samba1				
17	Fusion2				
18	Ele Pop2				
19	Pop Shuffle				
20	Rock1				
21	Latin1				
22	Latin2				
23	Salsa1				
24	Smoove				
25	Steve Vai Funk				
26	70's Funk				
27	Jazz1				
28	6/8Soul1				
29	Fusion2				
30	Dance funk				
31	Dance2				
32	DJ.House				
33	Ele Pop3				
34	Hip Hop				
35	Pop3				
36	Pop4				
37	R&B3				
38	Reggae1				
39	Rock2				
40	Rock3				
41	Blues Funk				
42	Fusion3				
43	Cool Jazz				
44	Ballad				
45	Samba2				
46	Vintage Hip-Hop				
47	Nu Jazz Funk				
48	Soul				
49	R&B4				
50	Big Band 1				

51	Ska					
52	Classic Rock					
53	Hardcore Hip-Hop					
54	Vintage Dance Pop					
55	Nu-Metal					
56	Salsa2					
57	Eu Hip-Hop					
58	Bossa Nova2					
59	Fusion 4					
60	8Beat Pop					
61	Jazzy Funk					
62	Swing Big Band					
63	Raggae 1					
64	60's Pop					
65	Vintage Funk					
66	Trance					
67	Heavy Rock					
68	Swing					
69	Punk					
70	8Beat					
71	Disco House					
72	3/4 Folk					
73	Samba3					
74	Latin Rock					
75	Reggae 2					
76	Dance3					
77	Country Pop					
78	Country					
79	PopRock					
80	DancePop					
	-					













# **GM Drum Kit List**

Note No.	Standard (bank 00)	Funk (bank 08)	Rock (bank 16)	Electric (bank 24)	Analog (bank 25)
Eb1[27]	High Q	Turn (burn 00)	Trook (ballit 10)		/ Indieg (20.111 20)
E 1[28]	Slap				
F 1[29]	Scratch Push				
F#1[30]	Scratch Pull				
G 1[31]	Sticks				
G#1[32]	Square Click				
	Metronome Click				
A 1[33]					
Bb1[34]	Metronome Bell				
B 1[35]	Acoustic Bass Drum	Frank Kiala	Deale Kiele Decem	Flactic David	Analan Basa Basa
C 2[36]	Bass Drum 1	Funk Kick	Rock Kick Drum	Electric Bass Drum	Analog Bass Drum
C#2[37]	Side Stick	F 1 0 1		FI 1: 0 1	Analog Rim Shot
D 2[38]	Acoustic Snare	Funk Snare 1	Rock Snare Drum1	Electric Snare 1	Analog Snare 1
Eb2[39]	Hand Clap				Analog Clap
E 2[40]	Electric Snare	Funk Snare 2	Rock Snare Drum2	Electric Snare 2	Analog Snare 2
F 2[41]	Low Floor Tom	Funk LowTom2	Rock LowTom2	Electric Low Tom 2	Analog Low Tom2
F#2[42]	Closed Hi-hat				Analog Closed Hi-hat
G 2[43]	High Floor Tom	Funk LowTom1	Rock LowTom1	Electric Low Tom 1	Analog Low Tom1
G#2[44]	Pedal Hi-hat				Analog Pedal Hi-hat
A 2[45]	Low Tom	Funk MidTom2	Rock MidTom2	Electric Mid Tom 2	Analog Mid Tom2
Bb2[46]	Open Hi-hat				Analog Open Hi-hat
B 2[47]	Low-Mid Tom	Funk MidTom1	Rock MidTom1	Electric Mid Tom 1	Analog Mid Tom1
C 3[48]	High Mid Tom	Funk Hi Tom2	Rock HiTom2	Electric Hi Tom 2	Analog Hi Tom2
C#3[49]	Crash Cymbal 1				Analog Cymbal
D 3[50]	High Tom 1	Funk Hi Tom1	Rock HiTom1		Analog Hi Tom1
Eb3[51]	Ride Cymbal 1				
E 3[52]	China Cymbal				
F 3[53]	Ride Bell				
F#3[54]	Tambourine				
G 3[55]	Splash Cymbal				
G#3[56]	Cowbell				
A 3[57]	Crash Cymbal 2				
Bb3[58]	Vibra-slap				
B 3[59]	Ride Cymbal 2				
C 4[60]	High Bongo				
C#4[61]	Low Bongo				
D 4[62]	Mute Hi Conga				
Eb4[63]	Open Hi Conga				
E 4[64]	Low Conga				
F 4[65]	High Timbale				
F#4[66]	Low Timbale				
G 4[67]	High Agogo				
G#4[68]	Low Agogo				
A 4[69]	Cabasa				
Bb4[70]	Maracas				
B 4[71]	Short Whistle				
C 5[72]	Long Whistle				
C#5[73]	Short Guiro				
D 5[74]	Long Guiro				
Eb5[75]	Claves				
E 5[76]	Hi Wood Block				
F 5[77]	LowWood Block				
F#5[78]	Mute Cuica				
G 5[79]	Open Cuica				
G#5[80]	Mute Triangle				
A 5[81]	Open Triangle				
Bb5[82]	Shaker				
B 5[83]	Jingle Bell				
C 6[84]	Bell Tree				
	Castanets				
C#6[85]	Mute Surdo				
D 6[86]					
Eb6[87]	Open Surdo	<u> </u>	1		1















# **GM Drum Kit List**

Note No.	Jazz (bank 32)	Brush (bank 40)	Orchestra (bank 48)	Dance (bank 56)
Eb1[27]	ouzz (burnt oz)	Braeir (barik 10)	Closed Hi-hat 2	Barros (Barris 66)
E 1[28]			Pedal Hi-hat	
F 1[29]			Open Hi-hat 2	
F#1[30]			Ride Cymbal 1	
			Ride Cyffibai 1	
G 1[31]				
G#1[32]				
A 1[33]				
Bb1[34]			One and DD O	
B 1[35]	In IXInto A	Davida Kiala 4	Concert BD 2	David Bara Branch
C 2[36]	Jazz Kick 1	Brush Kick 1	Concert BD 1	Dance Bass Drum
C#2[37]			0 100	D 0 1
D 2[38]	Jazz Snare 1	Brush Tap	Concert SD	Dance Snare 1
Eb2[39]			Castanets	
E 2[40]	Jazz Snare 2	Brush Slap	Concert SD	Dance Snare 2
F 2[41]		Brush Low Tom2	Timpani F	Dance Low Tom2
F#2[42]			Timpani F#	Dance Closed
G 2[43]		Brush Low Tom1	Timpani G	Hi-hat
G#2[44]		B	Timpani G#	Dance Low Tom1
A 2[45]		Brush Mid Tom2	Timpani A	Dance Pedal Hi-hat
Bb2[46]			Timpani A#	Dance Mid Tom2
B 2[47]		Brush Mid Tom1	Timpani B	Dance Open Hi-hat
C 3[48]		Brush Hi Tom2	Timpani c	Dance Mid Tom1
C#3[49]			Timpani c#	Dance Hi Tom2
D 3[50]		Brush Hi Tom1	Timpani d	Dance Cymbal
Eb3[51]			Timpani d#	Dance Hi Tom1
E 3[52]			Timpani e	
F 3[53]			Timpani f	
F#3[54]				
G 3[55]				
G#3[56]				
A 3[57]				
Bb3[58]				
B 3[59]				
C 4[60]				
C#4[61]				
D 4[62]				
Eb4[63]				
E 4[64]				
F 4[65]				
F#4[66]				
G 4[67]				
G#4[68]				
A 4[69]				
Bb4[70]				
B 4[71]				
C 5[72]				
C#5[73]				
D 5[74]				
Eb5[75]				
E 5[76]				
F 5[77]				
F#5[78]				
G 5[79]				
G#5[80]				
A 5[81]				
Bb5[82]				
B 5[83]				
C 6[84]				
C#6[85]				
D 6[86]				
Eb6[87]				
	I .	I	1	I













# **GM Backing Instrument List**

PIANO		STR	STRINGS		LEAD	
1	Acoustic Grand Piano	41	Violin	81	Lead1 (square)	
2	Bright Acoustic Piano	42	Viola	82	Lead2 (sawtooth)	
3	Electric Grand Piano	43	Cello	83	Lead3 (calliope)	
4	Honky-Tonk Piano	44	Contrabass	84	Lead4 (cliff)	
5	E.Piano 1	45	Tremolo Strings	85	Lead5 (charang)	
6	E.Piano 2	46	Pizzicato Strings	86	Lead6 (voice)	
7	Harpsichord	47	Orchestral Harp	87	Lead7 (fifths)	
8	Clavi	48	Timpani	88	Lead8 (bass & lead)	
MAL	LET	STR	INGSENSEMBLE	PAD	· · · · · · · · · · · · · · · · · · ·	
9	Celesta	49	Strings Ensemble 1	89	Pad1 (newage)	
10	Glockenspiel	50	Strings Ensemble 2	90	Pad2 (warm)	
11	Music Box	51	Synth Strings 1	91	Pad3 (polysynth)	
12	Vibraphone	52	Synth Strings 2	92	Pad4 (choir)	
13	Marimba	53	Choir Aahs	93	Pad5 (bowed)	
14	Xylophone	54	Voice Oohs	94	Pad6 (metallic)	
15	Tubular Bells	55	Synth Voice	95	Pad7 (halo)	
16	Dulcimer	56	Orchestra Hit	96	Pad8 (sweep)	
ORG	AN	BRA	SS	EFFE	CTS	
17	Drawbar Organ	57	Trumpet	97	FX1 (rain)	
18	Percussive Organ	58	Trombone	98	FX2 (soundtrack)	
19	Rock Organ	59	Tuba	99	FX3 (crystal)	
20	Church Organ	60	Muted Trumpet	100	FX4 (atmosphere)	
21	Reed Organ	61	French Horn	101	FX5 (brightness)	
22	Accordion	62	Brass Section	102	FX6 (goblins)	
23	Harmonica	63	Synth Brass 1	103	FX7 (echoes)	
24	Tango Accordion	64	Synth Brass 2	104	FX8 (sci-fi)	
GUIT	AR	REE	D	ETH	NIC	
25	Nylon Guitar	65	Soprano Sax	105	Sitar	
	041-014		AU 0	400	Dania	
26	Steel Guitar	66	Alto Sax	106	Banjo	
26 27	Jazz Guitar	66 67	Tenor Sax	106	Shamisen	
					•	
27	Jazz Guitar	67	Tenor Sax	107	Shamisen	
27 28	Jazz Guitar Clean Guitar	67 68	Tenor Sax Baritone Sax	107 108	Shamisen Koto	
27 28 29	Jazz Guitar Clean Guitar Muted Guitar	67 68 69	Tenor Sax Baritone Sax Oboe	107 108 109	Shamisen Koto Kalimba	
27 28 29 30	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar	67 68 69 70	Tenor Sax Baritone Sax Oboe English Horn	107 108 109 110	Shamisen Koto Kalimba Bagpipe	
27 28 29 30 31	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics	67 68 69 70 71	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet	107 108 109 110 111 112	Shamisen Koto Kalimba Bagpipe Fiddle	
27 28 29 30 31 32	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics	67 68 69 70 71 72	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet	107 108 109 110 111 112	Shamisen Koto Kalimba Bagpipe Fiddle Shanai	
27 28 29 30 31 32 BAS	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics	67 68 69 70 71 72	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet	107 108 109 110 111 112 PERG	Shamisen Koto Kalimba Bagpipe Fiddle Shanai	
27 28 29 30 31 32 <b>BAS</b> 33	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics S Acoustic Bass	67 68 69 70 71 72 PIPE 73	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :	107 108 109 110 111 112 <b>PER</b> (	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell	
27 28 29 30 31 32 <b>BAS</b> 33 34	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S Acoustic Bass Finger Bass	67 68 69 70 71 72 <b>PIPE</b> 73 74	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet : Piccolo Flute	107 108 109 110 111 112 PERO 113 114	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo	
27 28 29 30 31 32 <b>BAS</b> 33 34 35	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S Acoustic Bass Finger Bass Pick Bass	67 68 69 70 71 72 PIPE 73 74 75	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet : Piccolo Flute Recorder	107 108 109 110 111 112 <b>PER</b> 0 113 114 115	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics S Acoustic Bass Finger Bass Pick Bass Fretless Bass	67 68 69 70 71 72 PIPE 73 74 75 76	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet : Piccolo Flute Recorder Pan Flute	107 108 109 110 111 112 PERO 113 114 115 116	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1	67 68 69 70 71 72 PIPE 73 74 75 76 77	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet : Piccolo Flute Recorder Pan Flute Blown Bottle	107 108 109 110 111 112 PERO 113 114 115 116 117	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2	67 68 69 70 71 72 PIPE 73 74 75 76 77 78	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi	107 108 109 110 111 112 PERO 113 114 115 116 117	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40 <b>SOU</b>	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics S Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2 NDEFFECTS	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40 <b>SOU</b>	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2  NDEFFECTS Guitar Fret Noise	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40 <b>SOU</b> 121 122	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2  NDEFFECTS  Guitar Fret Noise Breath Noise	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40 <b>SOU</b> 121 122 123	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2  NDEFFECTS  Guitar Fret Noise Breath Noise Seashore	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	
27 28 29 30 31 32 <b>BAS</b> 33 34 35 36 37 38 39 40 <b>SOU</b> 121 122 123 124	Jazz Guitar Clean Guitar Muted Guitar Overdriven Guitar Distortion Guitar Guitar Harmonics  S  Acoustic Bass Finger Bass Pick Bass Fretless Bass Slap Bass 1 Slap Bass 2 Synth Bass 1 Synth Bass 2  NDEFFECTS Guitar Fret Noise Breath Noise Seashore Bird Tweet	67 68 69 70 71 72 PIPE 73 74 75 76 77 78 79	Tenor Sax Baritone Sax Oboe English Horn Bassoon Clarinet :  Piccolo Flute Recorder Pan Flute Blown Bottle Shakuhachi Whistle	107 108 109 110 111 112 PERO 113 114 115 116 117 118 119	Shamisen Koto Kalimba Bagpipe Fiddle Shanai CUSSIVE Tinkle Bell Agogo Steel Drums Wood Block Taiko Drum Melodic Tom Synth Drum	













# **MIDI** Implementation Chart

Function	า	Transmitted	Recognized	Remarks
Basic	Default	10ch	1-16	
Channel	Changed	×	×	
	Default	×	×	
Mode	Messages	×	×	
	Altered	*****	******	
Note		0—127	0-127	
Number	: True Voice	******	0-127	
Velocity	Note On	○ 99H,V=1-127	0	
	Note Off	○ (99H,V=0)	0	
after	Key's	×	0	
Touch	Ch's	×	×	
Pitch Bend	t	×	0	
Control	0	×	0	Bank Select
Change	1	×	0	Modulation
	5	×	0	Portamento Time
	6	×	0	Data Entry
	7	×	0	Volume
	10	×	0	Pan
	11	×	0	Expression
	64	×	0	Sustain Pedal
	65	×	0	Portamento On/Off
	66	×	0	Sostenuto Pedal
	67	×	$\circ$	Soft Pedal
	80	×	$\circ$	Reverb Program
	81	×	$\circ$	Chorus Program
	91	×	0	Reverb Level
	93	×	$\circ$	Chorus Level
	120	×	0	All Sound Off
	121	×	0	Reset All Controllers
	123	×	0	All Notes Off
Program		×	0	
Change	: True Number	×	$\circ$	
System Ex	clusive	×	0	
System	: Song Position	×	×	
Common	: Song Select	×	×	
	: Tune	×	×	
System	: Clock	0	×	
-	: Commands	0	×	Start And Stop Only
Aux	: Local On/off	×	×	
	: All Notes Off	×	×	
Messages	: Active Sensing	×	×	
-	: Reset	×	×	

○: YES ×: NO









