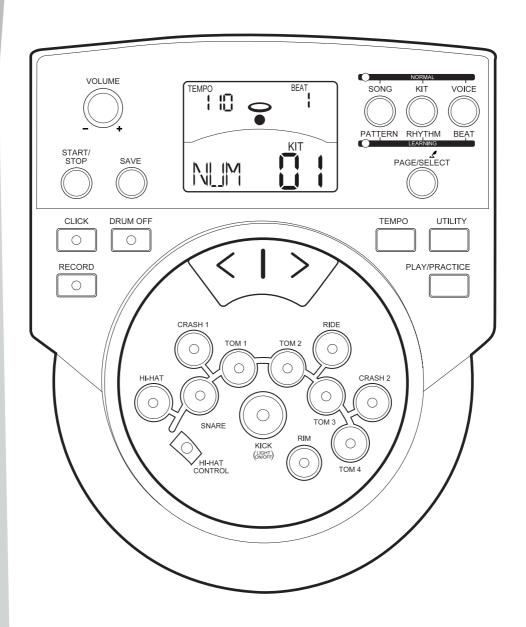
# **Digital Drum**

## Owner's Manual





#### 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 guarantee 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 measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- 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.

#### **CAUTION**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **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.

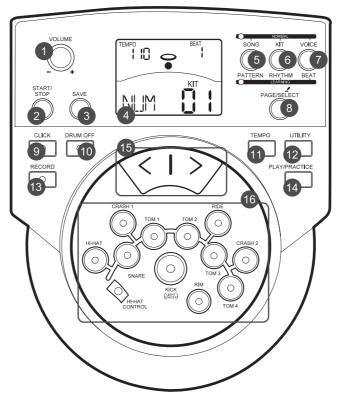
Do not let paper, metallic, or other objects into the instrument. If this happens, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

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## **Panel Description**

#### Front Panel



1 VOLUME Knob

Adjust the volume of phone and line output.

2 START/STOP Button

Start or stop playing.

3 SAVE Button

This button is used to save the current kit settings in a user kit and save the trigger settings under the Utility menu pages.

4 LCD Display

Please refer to the LCD Display section.

**5** SONG/PATTERN Button

Enter the Song menu in NORMAL mode or enter the Pattern Practice menu in LEARNING mode.

6 KIT/RHYTHM Button

Enter the Kit menu in NORMAL mode or enter the Rhythm Practice menu in LEARNING mode.

**7** VOICE/BEAT Button

Enter the Voice menu in NORMAL mode or enter the Beat Practice menu in LEARNING mode.

**8** PAGE/SELECT Button

Scroll through the menu pages. Press and hold it for 1 second to switch modes between NORMAL and LEARNING.

**9 CLICK Button** 

Turn the metronome on or off and enter the Click menu in NORMAL mode.

10 DRUM OFF Button

Mute the drum part of the pattern.

11 TEMPO Button

Adjust the current tempo.

12 UTILITY Button

Enter the Utility menu in NORMAL mode.

13 RECORD Button

Enter the Record menu in NORMAL mode.

14 PLAY/PRACTICE Button

Play back your recording in NORMAL mode. Start practicing following sample practice patterns in LEARNING mode.

Press and hold it for 1 second to play back your practice in LEARNING mode.

(Button and > Button

Press the [>] button increases and press [<] button decreases the current parameter.

16 Pad Select Buttons

These buttons play the pad voices of the current kit. In Voice menu and Utility menu, they select the pad to be edited.

## Rear Panel & Side Panel

17 AUX IN Jack(1/8")

This stereo input jack is for an external sound source, such as an MP3 or CD player.

18 LINE OUTPUT Jacks(1/4")

Stereo output connection to an audio system or drum amplifier.

19 CRASH 2 Jack(1/4")

Input connection for Crash 2.

20 TOM 4 Jack(1/4")

Input connection for Tom 4.

21 MIDI Connectors (IN, OUT)

These ports allow communication with other products equipped with a MIDI interface.

22 USB Connector

This port is used to connect to a computer (MIDI In/Out via USB).

23 PAD Connectors

Input connections for Kick, Snare, Tom, Cymbal pads and Hi-Hat control pedal.

**24** PHONES Jack(1/8")

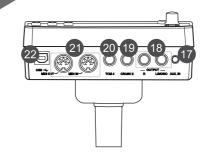
This stereo jack is used to connect headphones to the unit.

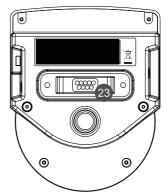
25 POWER Switch

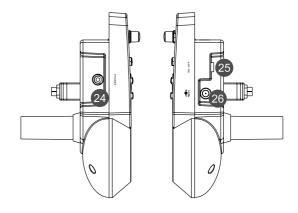
This switch turns the power on and off.

26 DC IN Jack

Connect the included DC 9V power adaptor.

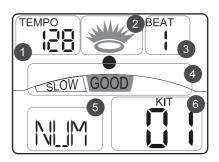






## Display

- 1 Tempo/Measure
- 2 Hitting Indicator
- 3 Beat Count
- 4 Indicators for Learning
- 5 Indicators for Menus (Such as UTILITY, REC, etc.)
- 6 Current Mode and Parameter Display



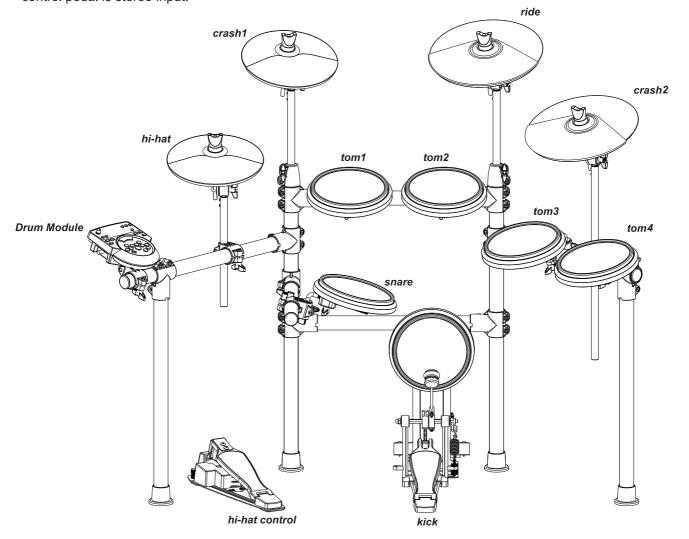
### Caution!

To prevent electric shock and damage to the device, make sure the power is switched OFF on the drum and all related device before making any connection.

### **Connecting Pads and Pedals**

Standard: KICK, SNARE, TOM1-4, CRASH1-2, RIDE, HIHAT, HIHAT CONTROL PEDAL

Using the provided cables, connect with kick, snare, tom1~tom4,ride,crash1~crash2,hi-hat, hi-hat control triggers. Snare, tom are stereo input, support double triggering (increase edge triggering); crash1, crash2 are stereo input, which support choke; ride, kick, hi-hat are mono input, which can't response edge triggering. Hi-hat control pedal is stereo input.



#### Note:

For details on assembling the drum stand, attaching the digital drum and connecting pads, refer to the Installation manual.

## Connecting an Audio Equipment

When using an amplifier, connect the Output L/MONO and R jacks on the rear panel to the input of the amplifier.

#### Note:

For mono playback, use the L/MONO jack.

For stereo playback, connect both L/MONO and R jacks.

The line output volume is controlled by the VOLUME knob.

## Connecting a set of Headphones

An optional set of stereo headphones can be connected to the PHONES jack located on the side of the drum module.

The headphones output volume is controlled VOLUME knob, too.

### Connecting an MP3/CD Player

Connect the audio output of an MP3/CD player or other audio source to the stereo AUX IN jack on the rear panel.

The input signal is mixed with the drum signal, allowing you to play along.

### **Connecting a Computer**

#### ■ Via the USB Connector

This receives and transmits MIDI messages.

#### ■ Via the MIDI Connectors

#### **MIDI IN Connector**

This receives MIDI messages transmitted from an external MIDI device or a computer.

#### **MIDI OUT Connector**

Pad performance data is transmitted from this connector to connected computer or MIDI device.

## Connecting a Midi Keyboard

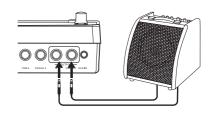
If you're using an external MIDI keyboard or pads to control the digital drum, make connections as shown. Here, it is used as a sound module.

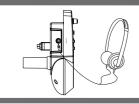
## **Power Supply/ERP Function Instruction**

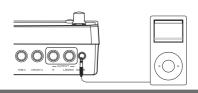
- 1.Make sure the power is switched OFF. Connect the power adaptor to the DC IN jack on the side panel. After confirming that all connections have been completed, rotate the volume knob to the left (minimum volume level) before switching the power on. Set the power switch to the "ON" position. The KIT indicator on LCD will light up and the display will show kit number 001.
- 2. In order to save energy, we have designed the "Automatic Power Off" function to the digital drum. With this function, the drum will be powered off automatically when being idle for more than 30(default) minutes. If you don't need this function or want to adjust the power off time, you should turn on the drum module, then press [UTILITY] button to enter the utility menu. In this menu, you can select the POWER page and adjust the power off time between 30 and 60 minutes or turn off "Automatic Power Off".

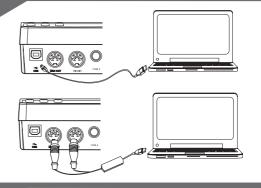
#### Note:

Make sure the power is switched OFF when connecting the drum module with external devices.

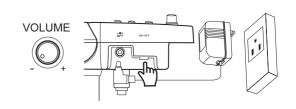










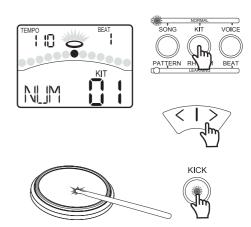


## **Performing**

### **Selecting a Drum Kit**

After powering up, the digital drum will be in KIT menu (KIT indicator ON ). The display should look like this:

- **1.** Use the [<] and [>] buttons to select the active kit. There are 40 kits in the digital drum:
  - 24 preset kits (Kits 01-24)
  - 16 user kits (Kits 25-40), the parameter display area will display as "U25~U40", with an additional letter "U".
- **2.** Pressing the Pad Select buttons allows you to preview the current kit (fixed velocity).
- 3. Hit the pads to play the current kit.



### **Playing the Pads**

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.

#### **Drum Pad Head or Rim shot**

The digital drum pad detects head and rim shots (rim shots trigger the rim voice).

#### Cymbal Bow shot and Choke

The digital drum cymbals detect bow shot.

Only the Crash cymbals have cymbal choke. Choking the Crash's edge with the hand immediately after hitting the crash mutes the crash sound.

#### Hi-Hat

The Hi-Hat sound varies depending on the position of the Hi-Hat pedal:

**Open Hi-Hat:** Strike the Hi-Hat pad without pressing the

pedal.

Half-Open Hi-Hat: Strike the Hi-Hat pad with the pedal

pressed halfway down.

Closed Hi-Hat: Strike the Hi-Hat pad with the pedal

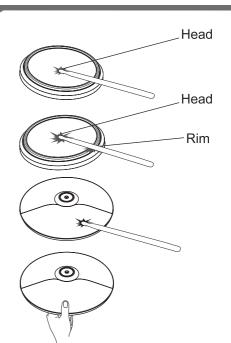
pressed completely down.

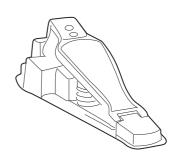
Pedal Close: Press the pedal completely down without

striking the pad.

**Splash:** Press the pedal completely down and

release it immediately.





### Adjusting the Sensitivity of a Pad

You may wish to adjust the sensitivity of the pads according to your playing style and desired dynamic range.

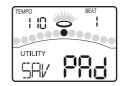
- **1.** Press the [UTILITY] button The UTILITY indicator appears.
- Strike a pad or press a pad select button to select the one whose sensitivity is to be adjusted. The PAD indicator shows the current selected pad.
- **3.** Press the [<] or [>] button to adjust the sensitivity.
- **4.** Press the [SAVE] button to save the current setting.

For details on pad adjustments, refer to Advanced Use.











## Using the Metronome/Click Feature

You can switch the click sound on and off by pressing [CLICK] button. When the click plays at the current Time Signature and Tempo (displayed in the top left corner of the LCD), the beat indicators will swing accordingly. You can set the time signature and interval, adjust the click volume and select the click sound in the CLICK menu.

- Press the [CLICK] button.Start the metronome with click sound.
- 2. Press the [PAGE] button to select the click menu pages and press the [<] or [>] button to adjust the parameters.
- **3.** Press the [CLICK] button again. Stop the metronome and exit the click menu.







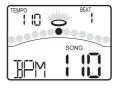




## Adjusting the Tempo

You can adjust the tempo of the Metronome, the current song, and the current learning pattern. The current tempo always displays in the top left corner of the LCD.

- 1. Press the [TEMPO] button.
- **2.** Press the [<] or [>] button. Adjust the current tempo.
- **3.** Press both [<] and [>] buttons at the same time, reset the current tempo to its default value.









#### Note:

If there's no operation, it will return to the previous menu page automatically after 3 seconds.

## **Editing and Saving a Drum Kit**

In KIT menu, you can modify the parameters as you like and save to the selected user kit.

## Adjusting the Volume of a Drum Kit

- Press the [KIT] or [PAGE] button. Select the Kit Volume page.
- **2.** Press the [<] or [>] button. Adjust the kit volume.







## Switching Reverb On/Off and Setting EQ

- 1. Press the [KIT] or [PAGE] button.
  Select the Global Reverb page and EQ pages.
- 2. Press the [<] or [>] button.

  Switch Reverb ON or OFF.

  Set the gain of three-band EQ (high, middle, low)







## **Selecting the Drum Instrument of the Pad**

- Press the [VOICE] button. Select the Pad Voice page.
- Press the [<] or [>] button.
   Select the drum instrument of the selected pad.
   Please refer to *Drum Instrument List*.





## Adjusting the Volume, Pan and Pitch of the Pad

- 1. Press the [VOICE] or [PAGE] button.
  Select the Pad Volume, Pad Pan, and Pad Pitch pages.
- **2.** Press the [<] or [>] button.

  Adjust the corresponding parameter.





## Setting the Pads to Play Songs

- Press the [VOICE] or [PAGE] button.
   Select the Pad Song and Song Number pages.
- Press the [<] or [>] button.
   Switch the Pad Song function ON or OFF. Select the Song that begins playing when the following pad is struck.

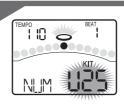




## Saving the Edited Kit

- Press the [SAVE] button.
   The number of user kit will be flashed.
- 2. Press the [<] or [>] button.

  Select a user kit to save your settings. (No. 25-40)
- **3.** Press the [SAVE] button again. Save the setting to the selected user kit.





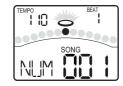
#### HINT

If the edited kit isn't saved before selecting another kit, powering down the digital drum, the changes will be lost.

## **Playing Along with Songs**

### **Selecting and Playing Back a Song**

- **1.** Press the [SONG] button. Switch to the SONG menu.
- Press the [<] or [>] button.
   Select the active song. The digital drum has many kinds of songs. Please refer to Song list.
- 3. Press the [START/STOP] button. Start or stop playing back this selected song. When playing back this song, the PAD indicator will display which pads are being played by drum track.









### Adjusting the Volume of the Accompaniment and Drum

In SONG menu, you can adjust the volume of drum or accompaniment track.

- Press the [SONG] or [PAGE] button.
   Select the ACC Volume or Drum Volume page.
- Press the [<] or [>] button.Adjust the corresponding volume.







## Muting the Drums in Songs

If you want to mute the drum track of the song, please press the [DRUM OFF] button. The [DRUM OFF] LED will turn on.



## Using the Pads to Play Songs

This function is available only with electric drum. When you struck the pads that have been set Pad Song function, they will start the performance of the songs. If you don't know how to set this function, please return to previous page and review the part "Setting the Pads to Play Songs".

#### For Example:

**Kick:** You can play the bass-line (Tap group, refer to **Song List**) note by note with you kick drum.

**Crash:** The chords (Hit group, refer to **Song List**) progress when you strike the pad.

#### HINT

The sounds in the Tap song are played back one by one when you pressing the [START/STOP] button or hitting the "pad song" pad.

## **Recording Your Performance**

In RECORD menu, you can record pad performances and the song as accompaniment.

## **Recording Your Performance Quickly**

1. Press the [RECORD] button.

The [RECORD] LED will flash. The Metronome will be turned on automatically.

The display will show:

**2.** Press the [START/STOP] button or strike the pad. Recording will start.

The [RECORD] LED will turn on.

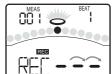
**3.** Press the [START/STOP] button again, or press the [RECORD] button.

Stop recording, the [RECORD] LED will turn off.

Your performance has been recorded.





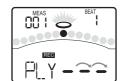




## Playing Back Your Recorded Performance

- Press the [PLAY] button.
   Play back your recording.
   The display will show:
- **2.** Press the [PLAY] button again. Stop playing back your performance.

If you are not satisfied with your recording, please press the [RECORD] button to restart the recording progress.





## Making the Settings for Recording

You can make the settings for recording on Record Standby.

- Press the [PAGE] button.Select the Record Setting pages.
- Press the [<] or [>] button.
   Adjust the parameters about recording.
   For details on record setting, refer to Advanced Use.





## **Practicing with Patterns**

There are three types of patterns in LEARNING mode.

Beat: Snare Practice Rhythm: Drums Practice

Pattern: Drums Practice with accompaniment

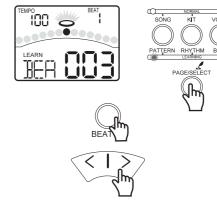
### Selecting a Pattern and Practicing with it

When you are in NORMAL mode, please press and hold the [PAGE/SELECT] button for 1 second. The LED of LEARNING mode will turn on. The display will show:

- Press the [BEAT] button.Select the Beat Choosing page.
- 2. Press the [<] or [>] button.

  Select the beat which you want to practice.
- Press the [PRACTICE] button.
   Start or stop playing the pattern with your practice. The PAD indicators will display which pads are being played by drum track.

If you want to select the Rhythm or Pattern, please follow the steps described above. Drum Lessons Score can be downloaded from internet(consult your dealer). We recommend you to follow it.



PLAY/PRACTICE

## **Scoring Your Practice**

If you want to check your progress, please press the [START/STOP] button. The display will show:

A measure count-in will be inserted before playing back the pattern so that you can practice in good time. Your practice will be recorded automatically. When finished playing back the pattern, the digital drum will score your practice automatically. The display will show the score.

If you are unsatisfied with your score, please press the [START/STOP] button and restart examination.







## Playing Back Your Recorded Practice

 Press and hold the [PLAY/PRACTICE] button for 2 seconds.

The display will show:

You will listen to your recorded practice.

**2.** Press the [PLAY/PRACTICE] button again. Stop playing back the recorded practice.





## Creating Your Own Drum Kit

### **About the Drum Kits**

In KIT menu, you can select drum kits to play from the pads, and you can edit voices and their associated parameters, such as Pitch, Reverb Level, Volume, Pan, MIDI Note, etc.

- There are 40 kits in the digital drum:
- 24 preset kits (Kits 01-24)16 user kits (Kits U25-U40)

In addition, there are 11 General MIDI preset kits for MIDI/USB applications, and for MIDI file playback. Please refer to *GM Drum Kit List*. Each drum kit contains settings for up to 16 voices, assigned to the 10 pad inputs and 1 pedal controller:

Pad Settings			
Kick	Head1		
Snare	Head2	Rim2	
Tom1	Head3	Rim3	
Tom2	Head4	Rim4	
Tom3	Head5	Rim5	
Tom4	Head6	Rim6	
Crash1	Head7		
Crash2	Head8		
Ride	Head9		
Hihat	Head10		
Pedal			

### Selecting a Drum Kit

If the digital drum is not yet in KIT menu, press the [KIT] button to enter it. The KIT indicator will light up, and the LCD will display the current kit number.

Press the [<] or [>] buttons to select a kit. When holding down [>], values increase rapidly. When holding down [<], values decrease rapidly.







## **Overall Drum Kit Setting**

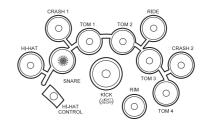
In KIT menu, you can set the overall kit parameters.

- **1.** Press the [PAGE] or [KIT] button, select Kit volume page. The parameter adjusts the overall kit volume(0-32).
- Press the [PAGE] or [KIT] button, select Reverb Switch page. The parameter toggles the global reverb Switch ON/OFF.
- Press the [PAGE] or [KIT] button, select EQ gain page. These parameters adjust the three bands of Master EQ(-12dB-12dB).

Overall Kit Settings		
Kit	Volume	
Global	Reverb on/off	
	EQ High gain	
	EQ Middle gain	
	EQ Low gain	

## Selecting the Pad to Edit

The current pad to be edited can be selected either by pressing its Pad Select button, or by striking the pad itself. The PAD indicator will light up to show which pad is currently selected. If the rim of a pad is selected, both the PAD indicator and the RIM indicator will turn on.



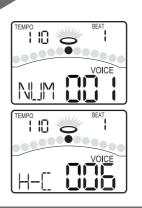
### **About the Drum Instruments**

The digital drum features 385 different drum instruments which are categorized into 9 separate groups, such as Acoustic Kick, Electric Kick, Acoustic Snare, Electric Snare, Percussion. You can individually adjust the volume, pan, pitch, reverb settings for instruments set to the pad.

### **Selecting Instruments**

If the digital drum is not yet in VOICE menu, press the [VOICE] button to enter it. The VOICE indicator will light up, and the LCD will display the current voice number.

- **1.** Press the [<] or [>] buttons to change a pad's Individual voice (001-385).
- **2.** If the selected pad is Hi-Hat, an additional option is available: Hi-Hat Combination (001-007).







## **Drum Instrument Settings**

- **1.** Press the [PAGE] or [VOICE] button, select Pad Volume page. The parameter adjusts the volume of the pad.
- **2.** Press the [PAGE] or [VOICE] button, select Pad Pan page. The parameter adjusts the pan of the pad.
- **3.** Press the [PAGE] or [VOICE] button, select Pad Pitch page. The parameter adjusts the pitch of the pad.
- **4.** Press the [PAGE] or [VOICE] button, select Pad Reverb page. The parameter adjusts the reverb level of the pad.

Drum Instrument Settings		
Voice Setting	Volume(0-32)	
	Pan(-8-8)	
	Pitch(-8-8)	
	Reverb(0-16)	
Settings for Other Functions		
MIDI	MIDI Note(0-127)	
Others	Pad Song Switch(ON/OFF)	
Officis	Song Number(1-80)	

## Settings for Other Functions

- Press the [PAGE] or [VOICE] button, select Pad MIDI Note page. The parameter sets MIDI Note Number for each pad.
- 6. Press the [PAGE] or [VOICE] button, select Pad Song pages. The parameters sets pad song function ON and choose the song numbers.

Press the [<] or [>] buttons to adjust the parameters.

#### HINT

While editing Voice Number, Pitch, Pan, Volume, and Reverb, you can also preview the result of the current settings by pressing the Pad Select button to play the edited voice.

## Saving to a User Drum Kit

After change any kit parameter, please press the [SAVE] button to save the current settings to the user kit (No. 25-40). The number of user kit will be flashed. Press the [SAVE] button to save to user kit and return to Kit Select page.





## **Making the Settings for Pads**

## **About Settings of Pads**

If the digital drum is not yet in UTILITY menu, press the [UTILITY] button to enter it.

The UTILITY indicator will light up. You can use the [<] or [>] buttons to adjust parameters (as shown to the right) for each pad as well as the rim sensitivity of the pad and the splash sensitivity of the Hi-Hat control pedal.

The current pad to be edited can be selected either by pressing its Pad Select button, or by striking the pad itself. The PAD indicator will light up to show which pad is currently selected. If the rim of a pad is selected, both the PAD indicator and the RIM indicator will turn on.

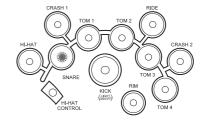
**Sensitivity:** Adjust the sensitivity of the pad to regulate the pad response. Higher settings result in higher sensitivity, so that the pad will produce a loud volume even when struck softly. You can also adjust the sensitivity of the splash in SPLASH SENSITIVITY.

**Threshold:** This setting allows a trigger signal to be received only when the pad is struck harder than a specified force. This can be used to prevent a pad from sounding in response to extraneous vibrations from another pad.

Crosstalk: When two pads are mounted on the same stand, the vibration produced by hitting one pad may trigger the sound from another pad unintentionally (This is called crosstalk). You can avoid this problem by adjusting Crosstalk Cancel on the pad that is sounding inadvertently. If the value is set too high, then when two pads are played simultaneously, the one that is struck less forcefully will not sound. So be careful and set this parameter to the minimum value required to prevent such crosstalk. With a setting of 0, crosstalk prevention does not function.

**Curve:** This setting allows you to control the relation between the velocity (striking force) and changes in volume (the dynamic curve). Adjust this curve until the response feels as natural as possible.

Pad Settings		
	Sensitivity(1-16)	
	Threshold(0-16)	
	Crosstalk(1-16)	
Pad	Curve(1-6)	
	Rim Sensitivity(1-16)	
Special	Splash Sensitivity(1-9)	

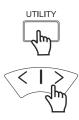


## Adjusting the Pad Sensitivity

Press the [PAGE] or [UTILITY] button, select Pad Sensitivity page. The display will show:

Changes how a pad responds to your playing. At higher sensitivities, the pad will generate a louder signal, even when you play softly. At lower sensitivities, the pad will generate a quieter signal, even if you play strongly. Adjust according to your playing style and desired dynamic range.



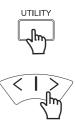


## Setting the Pad Threshold

Press the [PAGE] or [UTILITY] button, select Pad Threshold page. The display will show:

Changes how forcefully you must strike the pad to generate a trigger signal. Setting a high threshold requires hitting the pad very hard to get a sound. This can help cut out transient responses, such as vibrations from the kit or accidental pad taps that you don't intend to generate sounds. Setting a low threshold means even light touches will produce sound. Adjust according to environment and playing style.



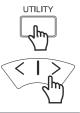


## Eliminating Crosstalk between Pads

Press the [PAGE] or [UTILITY] button, select Pad Crosstalk page. The display will show:

When two pads are mounted close to each other, hitting one pad may trigger the sound from another pad unintentionally. This effect can be eliminated by setting this parameter to a higher value on the pad is triggered unintentionally.





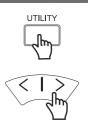
#### HINT

If the value is set too high, then when two pads are played simultaneously, the one that is struck less forcefully will not sound. So be careful and set this parameter to the minimum value required to prevent such crosstalk.

## Selecting the Pad Curve

Press the [PAGE] or [UTILITY] button, select Pad Curve page. The display will show:



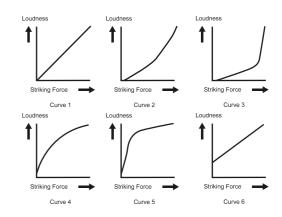


## **Making the Settings for Pads**

Curve refers to how the trigger signal's dynamic response relates to your pad hit.

**Curve1**: The standard setting, this produces the most natural correspondence between playing dynamics and volume change.

- **Curve2, 3**: Compared to Curve1, strong dynamics produce a greater change.
- **Curve4, 5**: Compared to Curve1, a soft playing produces a greater change.
- Curve6: Very little dynamic response, making it easy to maintain strong volume levels. If using drum triggers, these settings help maintain stable levels.



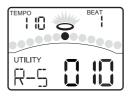
## **Setting Rim Sensitivity on Pads**

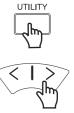
You can only set rim sensitivity on Snare, Tom1, Tom2, Tom3, Tom4. If you select the other pads, this page will not appear. Press the [PAGE] or [UTILITY] button, select Pad Rim Sensitivity page. The display will show:

Same as the basic sensitivity feature, except that it relates specifically to playing the rim.

#### Note:

This parameter can be adjusted only on SNARE, TOM1, TOM2, TOM3, TOM4. If you select the other pads on this page, a horizontal line "---" appears, and you can't make the setting.





## Adjusting the Hi-Hat Pedal Splash Sensitivity

Press the [PAGE] or [UTILITY] button, select Pedal Splash Sensitivity page. The display will show:

This Setting control the sensitivity of the foot splash.





## Saving Settings of Pads

After adjusting the trigger settings (sensitivity, Threshold, crosstalk, curve, rim sensitivity, splash sensitivity), you can save them into memory. In UTILITY menu, press the [SAVE] button to store all pad settings.

#### Note:

- **1.** If you turn off the power without saving, you will lose the trigger setting changes you have just made.
- 2. These parameters affect all kits.





## **Setting the Metronome**

### **About Click**

The digital drum is equipped with a built-in metronome, which can be used by itself as a rhythm guide for practice, or in conjunction with the song playback or record functions. If the digital drum is not yet in CLICK menu, press the [CLICIK] button to enter it. In CLICK menu, you can use the [<] or [>] button to adjust the parameters(as shown to the right).

Click Settin	Click Settings		
Time signature	0-9/2, 0-9/4, 0-9/8, 0-9/16		
Interval	1-2, 3-8, 1-4, 1-8, 1-12, 1-16		
Volume	0-32		
Voice	1-5		

## **Switching the Click On/Off**

- Press the [CLICK] button to start the metronome. The CLICK LED will blink accordingly. The metronome will play at the current Time signature and tempo (displayed in the left right corner of the LCD)
- **2.** Press the [CLICK] button again to stop the metronome. The CLICK indicator will turn off.





## Adjusting the Click Tempo

Press the [TEMPO] button, and use the [<] and [>] buttons to adjust the current click tempo.

The current tempo always displays in the top left corner of the LCD.





## Setting the Time Signature

Press the [PAGE] button, select Click Time signature page. The display will show:

When the parameter is set to "0", such as 0-2,0-4,0-8,0-16, no accent is added to the first beat.





## Setting the Interval

Press the [PAGE] button, select Click Interval page. The display will show:

This parameter sets how the sound plays.





## Adjusting the Click Volume

Press the [PAGE] button, select Click Volume page. The display will show:

This parameter adjust the volume of the click sound.





## Selecting the Click Sound

Press the [PAGE] button, select Click Voice page. The display will show:

This parameter choose the sound for the click.





## **Playing Back Songs**

### About Songs

There are 80 preset songs in the digital drum:

- 50 Looped Patterns
- 10 Looped Percussion Patterns
- 5 Hit Songs
- 15 Tap Songs

Please refer to **Song List**. In SONG menu, you can select the song number and adjust the volume of the song's accompaniment and drum part.

### Selecting a Song

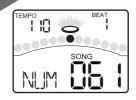
If the digital drum is not yet in SONG menu, press the [SONG] button to enter it. The SONG indicator will light up, and the LCD will Display the current song number.

Press the [<] or [>] button to select a song. When holding down [>], the song number increase rapidly. When holding down [<], it decrease rapidly.

# Song Settings No. Number(1-80) Accomp(0-32) Mix Drum(0-32)

#### HINT

The sounds in the tap song are played back one by one in sequence each time [START] is pressed or hitting the pad which is functioned as "pad song".





#### HINT

If the song number is switched while playing, the new song won't start until the end of the current bar.

### Playing Back a Song

Press the [START/STOP] button to start song playback. The LCD will display the current playing beat. Press the [START/STOP] button again, stop the song during playback. During song playback in SONG menu, the PAD indicators will show which pads of the drum track is triggering.

This function can be disabled or enabled by pressing the [KICK] button while in SONG menu.









## Adjusting the Accompaniment Volume

Press the [PAGE] or [SONG] button, select Song Accompaniment volume page. The display will show:

Use the [<] or [>] to adjust it. It will be restore to default value on the next power on.





## Adjusting the Drum Volume

Press the [PAGE] or [SONG] button, select Song Drum volume page. The display will show:

Use the [<] or [>] to adjust it. It will be restore to default value on the next power on.





## Muting the Drums in Songs

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



### **About Recording**

In NORMAL mode, the digital drum allows you to quickly record your performance as you play the pads. There are two ways to start recording a new song:

- Press the [START/STOP] button
- Hit any pad

On Recording Standby, you can use the [<] or [>] button to adjust the parameters(as shown to the right).

Record Settings			
Song Number	/1-60		
Kit	1-40		
Tempo	30-280		
Signature	1-9/2, 1-9/4, 1-9/8, 1-9/16		
Interval	1-2, 3-8, 1-4, 1-8, 1-12, 1-16		
Drum Off	/ON/OFF		
Pre Count	ON/OFF		

## **Recording Pad Performances**

- Press the [RECORD] button, enter recording standby. The [RECORD] LED will flash.
- 2. Press the [START/STOP] button or strike the pad. Recording will start. The RECORD LED will turn on. After Count-in, the display will show: Now you will record your performance.
- Press the [START/STOP] button again, or press the [RECORD] button. Stop recording, the [RECORD] LED will turn off.





## Recording Performances Accompanied with a Song

If you want to record your performance accompanied with a song, first set the parameters (Song Number and Drum off) before start to record. The display will be as shown to the right:

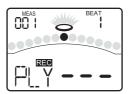
For details on setting, refer to Recording Standby. Recording operations are as mentioned above.





## **Playing Back Your Recorded Performance**

- Press the [PLAY] button. Play back your recording. The display will show:
- **2.** Press the [PLAY] button again. Stop playing back your performance.





## Recording Standby

Use the [PAGE] button to scroll through the various record parameters and the [<] or [>] button to adjust the value.

Page1:Setting the song accompanied or not

Page2: Selecting the drum kit that you want to record.

Page3: Setting the recording tempo

Page4: Setting the time signature

Page5:Setting the interval

Page6: Setting the drums in songs muted or not

Page7: Setting a measure count-in inserted or not before recording.





## **Practicing in Learning Mode**

## **About Learning Mode**

The LEARNING mode is a unique set of exercises specifically designed to help build speed, accuracy and stamina, as well as develop better drum skills.

There are 42 practices in the digital drum:

- 20 Beats (Only Snare)
- 12 Rhythms (Only Drum, from Level1-Level6)
- 10 Patterns (from Level1-Level5)

You can select appropriate patterns to practice depending on your present skills.

There are 3 states in Learning mode: Follow me: Practice with the selected pattern

Score: Record and score your practice

Playback: Play back your recorded practice

If the digital drum is not yet in LEARNING mode, press and hold the [PAGE/SELECT] button for 1 second. The LED of LEARNING mode will turn on. The display will show:

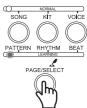
In this Learning Mode, after you press the [PRACTICE] or [START/STOP] to start practicng, your hitting accuracy will always be indicated in the middle of the display according to the current pattern.

DRAGGING:

PERFECT:

**RUSHING:** 











## Practicing with Beats

If the digital drum is not yet in BEAT menu, press the [BEAT] button to enter it. You can adjust the parameters (as shown to the right).

- 1. Press the [<] or [>] button to select the beat.
- **2.** Press the [PRACTICE] button to listen to the beat and follow it. Press it again to stop the beat.
- **3.** Press the [BEAT] or [PAGE] button to select the Beat Drum volume page. Press the [<] or [>] button to adjust the drum volume of the beat.









## Practicing with Rhythms

If the digital drum is not yet in RHYTHM menu, press the [RHYTHM] button to enter it. You can adjust the parameters (as shown to the right).

- 1. Press the [<] or [>] button to select the rhythm.
- **2.** Press the [PRACTICE] button to listen to the rhythm and follow it. Press it again to stop the rhythm.
- **3.** Press the [RHYTHM] or [PAGE] button to select the Rhythm Level page. Press the [<] or [>] button to select the level of the rhythm.
- **4.** Press the [RHYTHM] or [PAGE] button to select the Rhythm Drum Volume page. Press the [<] or [>] button to adjust the drum volume of the rhythm.

Rhythm	
Number	1-12
Level	1-6
Drum Volume	0-32









### Practicing with Patterns

If the digital drum is not yet in Pattern menu, press the [PATTERN] button to enter it. You can adjust the parameters (as shown to the right).

- 1. Press the [<] or [>] button to select the pattern.
- **2.** Press the [PRACTICE] button to listen to the pattern and follow it. Press it again to stop the pattern.
- Press the [PATTERN] or [PAGE] button to select the Pattern Level page. Press the [<] or [>] button to select the level of the pattern.
- 4. Press the [PATTERN] or [PAGE] button to select the Pattern Accompany Volume page. Press the [<] or [>] button to adjust the accompaniment volume of the pattern.
- **5.** Press the [PATTERN] or [PAGE] button to select the Pattern Drum Volume page. Press the [<] or [>] button to adjust the drum volume of the pattern.

Pattern	
Number	1-10
Level	1-5
Accompany Volume	0-32
Drum Volume	0-32











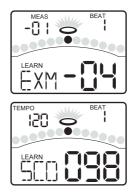


## **Recording and Scoring Your Practice**

1. Press the [START/STOP] button, you can enter the score state. A measure count-in will be inserted before playing back the pattern so that you can practice in good time. When playing back the pattern, your performance will be recorded automatically. When finished playback, the digital drum will score your practice automatically.

The display will show the score for 3 seconds.

**2.** Press the [START/STOP] button again to stop playing back the pattern and recording your practice during the playback



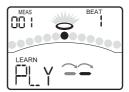


## Playing Back Your Recorded Practice

 Press and hold the [PLAY/PRACTICE] button for 2 seconds, you can enter the playback state. The display will show:

You will listen to your recorded practice.

**2.** Press the [PLAY/PRACTICE] button again. Stop playing back the recorded practice.





## Making the Settings for MIDI

### **About MIDI**

MIDI (Musical Instrument Digital Interface) is a standard that allows performance data and other information to be exchanged among electronic musical instruments and computers. With a MIDI cable connecting MIDI connectors equipped device, you can play multiple instruments with a single keyboard, have multiple instruments perform in ensemble, program the settings to change kits automatically to match the performance as the song progress, and more.

#### **MIDI** Connection

MIDI IN: This terminal receives MIDI data from an external MIDI device.

MIDI OUT: This terminal transmits data from the digital drum to other MIDI devices.

#### **USB** Connection

The USB connector allows you to connect the digital drum directly to your computer. It can be connected without installing a driver in Windows XP/Vista/Win7 or MAC OSX environments. The digital drum will be recognized as a "USB Audio device" to receive and transmit MIDI messages through a single USB cable. The USB port is used only for MIDI messages (MIDI via USB)

#### Note:

When the USB port is connected to a computer, all MIDI messages will be received and transmitted via USB.

## Making the MIDI Settings

If the digital drum is not yet in UTILITY menu, press The [UTILITY] button to enter it. Press the [PAGE] or [UTILITY] button, select Local mode pages. The display will show:

Press the [<] or [>] button, set local mode to ON or OFF.

#### **Local Mode**

Local OFF: The pads and internal sequencer are disconnected from the digital drum's internal sound generator. Striking the pads does not cause sound to be produced by the internal sound generator.

Local ON: The pads and internal sequencer are connected to the digital drum's internal sound generator. Sounds are produced by the internal sound generator when the pads are struck.

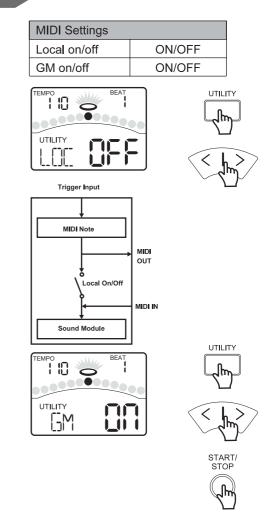
#### **GM Mode**

Press the [PAGE] or [UTILITY] button, select GM mode pages. The display will show:

Press the [<] or [>] button, set GM mode to ON or OFF. Refer to Using the Digital Drum as a Sound Module.

#### Sync Mode

Press the [START/STOP] button to start or stop songs playback, the digital drum will transmit the MIDI system real-time Message: FA or FC.



### **Connecting with an External Sound Device**

The digital drum transmission channel for the drum kit is fixed to Channel 10. It will output MIDI data generated by the triggers when hitting the pads or stepping on the Hi-Hat control pedal (Note ON/OFF, and Foot messages). Song playback data and metronome notes are not transmitted.

#### **Recording Your Performance to an External Sequencer**

- 1. Connect the MIDI OUT of the digital drum to the MIDI IN of your sequencer, and the MIDI OUT of your sequencer to the MIDI IN of the digital drum. If you are using a software sequencer on a computer, you can simply connect the USB port of the digital drum to a USB port of your computer using a single USB A-B cable.
- 2. Setup the active track of your sequencer on Channel 10. Activate RECORD on your sequencer.
- 3. Play the pads of your digital drum.
- 4. Stop recording. Locate your sequencer to the start of your recording.
- 5. Playback the recorded sequencer.

#### Setting MIDI Note Number to be Transmitted/Received by Each Pad

Each drum kit can have it's own set of MIDI note to be transmitted/received by each pad, useful for advanced purpose. Normally, you'll never need to change them, but if you want to change, please follow these step:

- 1. Press the [VOICE] button in NORMAL mode, enter the VOICE menu.
- 2. Press the [PAGE] or [VOICE] button, select Pad MIDI Note page.
- 3. Press the [<] or [>] button, change the MIDI Note Number for each pad. Hit the pad you wish to set or press the related Pad Select button.
- 4. Press the [SAVE] button twice to save to user kit.

Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note
Kick	36	Tom1 R	50	Tom3 R	58	Crash 1	49	Hi-Hat C	42
Snare	38	Tom2	45	Tom4	41	Crash 2	57	Hi-Hat P	44
Snare R	40	Tom2 R	47	Tom4 R	39	Hi-Hat O	46	Splash	21
Tom1	48	Tom3	43	Ride	51	Hi-Hat HO	23		

## Using the Digital Drum as a Sound Module

Connecting an external keyboard or sequencer to the MIDI Input allows you to use the digital drum as a multi-part, polyphonic sound module to play various instrument parts in addition to your drums (for instance, Piano on Channel 1, Bass on Channel 2, Strings on Channel 3, etc). The voices on each MIDI channel are selected using MIDI Program Change messages (refer to *GM Backing Instrument List*).

The MIDI system in the digital drum has 16 reception channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message. Channel 10 is reserved for Drums. The digital drum has two options for Channel 10: GM ON or OFF, as selected in MIDI UTILITY menu.

- When GM Mode is ON, Channel 10 will play the GM percussion kits.
- When GM Mode is OFF, Channel 10 will play the digital drum internal kits.

#### Note:

For more information on received MIDI messages, refer to MIDI implementation chart.

## **Prompt Messages**

Display	Meaning	Action		
RST <b>Err</b>	Resetting the digital drum is failed.	Please call the distributor, maybe it need repair.		
TEMPO BEAT	There isn't data in the digital drum's memory.	Please record your performance, and then play it.		
TEMPO BEAT	There is full of data in the digital drum's memory. You can not record any data.	If you want to record another song, please restart recording and replace it.		
TEMPO BEAT LEARN LEARN LEARN	You didn't record your practice in the Learning mode.	Please press the [START/STOP] button to score your practice, and then play back your practice.		

## **Troubleshooting**

Problem	Possible Cause and Solution			
No Sound	1) Rotate the [VOLUME] knob to be sure that the volume isn't down.  2) To be sure that Local Mode should be set to "ON".			
No Sound from Pads	1) To be sure that the pad is connected correctly.  2) To be sure not set the volume of the pad to 0.			
No Click Sound	1) To be sure not set the volume of the click to 0.			
Sound is Distorted	1) Turn down the volume.			

## **Specifications**

#### **Maximum Polyphony**

64

#### **Drum kits**

Drum Kits: 40 (24 Preset Kits + 16 User Kits)

General MIDI Kits: 11 GM Kits

#### Instruments

Drum Instruments: 385 (Drums, Percussion, SFX)

7 Hi-Hat Combos

#### **Effect**

Reverb,3 Band Equalizer

#### Sequencer

Normal: Song 80

Learning: Beat 20, Rhythm 12, Pattern 10 Resolution:120 ticks per quarter note

Recording Method: Real-time

Maximum Note Storage:approx.1600 Notes

### Tempo

30~280

#### **Display**

**Backlit Segment LCD** 

#### **Connectors**

9 Trigger Input Jack, Phone Jack(1/8", stereo), Aux In Jack(1/8", stereo),

2 External Trigger Input Jack(1/4", Tom4, Crash2), Output(1/4", L/Mono, R), USB, MIDI IN, MIDI OUT

#### **Control Buttons**

Power on/off switch, Volume, Start/Stop, Save, Song, Kit, Voice, Page/Select, INC/DEC, Click, Drum off, Record, Tempo, Utility, Play/Practice

#### **Pad Select Buttons**

12 Pad Select Buttons

#### **Power Supply**

DC 9V

#### **Dimensions**

 $147.1(W) \times 183.3(H) \times 111.7(D)$ mm

#### Weight

0.5 kg

## **Drum Kit List**

NO.	PRESET KIT	NO.	DEFAULT USER KIT
1	Acoustic	25	Acoustic
2	Standard 1	26	Standard 1
3	Standard 2	27	Standard 2
4	Funk 1	28	Funk 1
5	Funk 2	29	Funk 2
6	Fusion	30	Fusion
7	Camco	31	Camco
8	Brush	32	Brush
9	Room	33	Room
10	Rock	34	Rock
11	Pop Rock	35	Pop Rock
12	Jazz	36	Jazz
13	Jazz Brush	37	Jazz Brush
14	Timpani	38	Timpani
15	Songo	39	Songo
16	1971's	40	1971's
17	Latin		
18	Disco		
19	TR606		
20	909		
21	НірНор		
22	Electronic 1		
23	Electronic 2		
24	Teckno 1		

## **Drum Instrument List**

NO	. NAME	١		lere	CTRONIC SNARE	l	
		48	Electronic Kick 4			145	Funk Tom 1
	OUSTIC KICK	49	Electronic Kick 5	97	House Snare 1	146	Funk Tom 2
1	Standard Kick 1	50	Electronic Kick 6	98	House Snare 2	147	Funk Tom 3
2	Standard Kick 2	51	Electronic Kick 7	99	House Snare 3	148	Funk Tom 4
3	Classic Kick 1	١.,	0110710 011407	100	Teckno Snare 1	149	Funk Tom 5
4	Classic Kick 2		OUSTIC SNARE	101	Teckno Snare 2	150	Funk Tom 6
5	Rock Kick 1	52	Standard Snare	102	808 Snare	151	Fusion Tom 1
6	Rock Kick 2	53	Standard Snare Rim	103	909 Snare	152	Fusion Tom 2
7	Rock Kick 3	54	Classic Snare 1	104	Drum & Bass Snare 1	153	Fusion Tom 3
8	Room Kick 1	55	Classic Snare Rim 1	105	Drum & Bass Snare 2	154	Fusion Tom 4
9	Room Kick 2	56	Classic Snare 2	106	TR606 Snare	155	Fusion Tom 5
10	Jazz Kick 1	57	Classic Snare Rim 2	107	Electronic Snare 1	156	Fusion Tom 6
11	Jazz Kick 2	58	Acoustic Snare	108	Electronic Snare 2	157	1969 Tom 1
12	Big Band Kick 1	59	Acoustic Snare Rim	109	Electronic Snare 3	158	1969 Tom 2
13	Big Band Kick 2	60	Rock Snare 1	110	Electronic Snare 4	159	1969 Tom 3
14	Camco Kick 1	61	Rock Snare Rim 1	111	Electronic Snare 5	160	1969 Tom 4
15	Camco Kick 2	62	Rock Snare 2	112	Electronic Snare 6	161	1971 Tom 1
16	Funk Kick 1	63	Rock Snare 3	113	Electronic Snare 7	162	1971 Tom 2
17	Funk Kick 2	64	Room Snare 1	114	Electronic Snare 8	163	1971 Tom 3
18	Funk Kick 3	65	Room Snare 2			164	1971 Tom 4
19	HipHop Kick 1	66	Room Snare 3		DUSTIC TOM	165	1976 Tom 1
20	HipHop Kick 2	67	Steel Snare	115	Classic Tom 1	166	1976 Tom 2
21	HipHop Kick 3	68	Steel Snare Rim	116	Classic Tom 2	167	1976 Tom 3
22	HipHop Kick 4	69	Jazz Snare 1	117	Classic Tom 3	168	1976 Tom 4
23	1969 Kick	70	Jazz Snare Rim 1	118	Classic Tom 4	169	HipHop Tom 1
24	1971 Kick	71	Jazz Snare 2	119	Classic Tom 5	170	HipHop Tom 2
25	1976 Kick	72	Jazz Snare Rim 2	120	Classic Tom 6	171	HipHop Tom 3
26	Power Kick	73	Jazz Latin Snare	121	Standard Tom 1	172	HipHop Tom 4
27	R&B Kick	74	Big Band Snare	122	Standard Tom 2	173	HipHop Tom 5
28	Voice Kick	75	Camco Snare	123	Standard Tom 3	174	HipHop Tom 6
29	Acoustic Kick	76	Camco Snare Rim	124	Standard Tom 4	175	Jazz Tom 1
		77	Brush Snare 1	125	Standard Tom 5	176	Jazz Tom 2
	ECTRONIC KICK	78	Brush Snare 2	126	Standard Tom 6	177	Jazz Tom 3
30	Orchestra Kick	79	Brush Snare Rim	127	Camco Tom 1	178	Jazz Tom 4
31	House Kick 1	80	Funk Snare	128	Camco Tom 2	179	Jazz Tom 5
32	House Kick 2	81	Funk Stick	129	Camco Tom 3	180	Jazz Tom 6
33	House Kick 3	82	Funk Band Snare	130	Camco Tom 4	181	Brush Tom 1
34	House Kick 4	83	Funk Band Snare Rim	131	Camco Tom 5	182	Brush Tom 2
35	Step Kick	84	Funk Band Snare Stick	132	Camco Tom 6	183	Brush Tom 3
36	Teckno Kick	85	Fusion Snare	133	Rock Tom 1	184	Brush Tom 4
37	Drum & Bass Kick	86	Fusion Snare Stick	134	Rock Tom 2	185	Brush Tom 5
38	Junkyard Kick	87	Snare Stick	135	Rock Tom 3	186	Brush Tom 6
39	Noise Kick	88	Power Snare	136	Rock Tom 4	187	Tom Rim 1
40	Industry Kick	89	HipHop Snare 1	137	Rock Tom 5	188	Tom Rim 2
41	Lowfi Kick	90	HipHop Snare 2	138	Rock Tom 6	189	Tom Rim 3
42	Disco Kick	91	1969 Snare	139	Room Tom 1	190	Tom Rim 4
43	808 Kick	92	1969 Snare Rim	140	Room Tom 2	191	Timpani 1
44	909 Kick	93	1971 Snare	141	Room Tom 3	192	Timpani 2
45	Electronic Kick 1	94	1971 Snare Rim	142	Room Tom 4	193	Timpani 3
46	Electronic Kick 2	95	1976 Snare	143	Room Tom 5	194	Timpani 4
47	Electronic Kick 3	96	1976 Snare Rim	144	Room Tom 6	1	

#### **ELECTRONIC TOM** 242 292 Timbale Low 344 Pai Gu 3 Pop Hi-hat Open 345 Mang Luo 1 243 293 195 TR606 Tom 1 Rock Hi-hat Open Timpani High 346 Mang Luo 2 196 TR606 Tom 2 244 Jazz Hi-hat Open 294 Timpani Low 347 Mang Luo 3 197 TR606 Tom 3 245 Electronic Hi-hat Open 295 Open Tabla High 348 Da Luo 1 198 TR606 Tom 4 246 808 Hi-hat Open 296 Open Tabla Low 349 Da Luo 2 199 TR606 Tom 5 247 House Hi-hat Open 297 Slap Tabla 350 Da Po 1 200 TR606 Tom 6 248 Standard Half Open 298 Mute Slap Tabla 351 Da Po 2 Cabasa 299 201 808 Tom 1 249 Pop Half Open Xiao Po 352 202 808 Tom 2 250 Rock Half Open 300 Maracas 353 Xiao Luo 203 808 Tom 3 251 Jazz Half Open 301 Short Whistle 354 Ten Luo 204 252 808 Tom 4 Standard Hi-hat Close 302 Short Guiro 355 Peng Lin 205 808 Tom 5 253 303 Pop Hi-hat Close Long Guiro 356 Gou Luo 206 808 Tom 6 254 Rock Hi-hat Close 304 Claves DJ 1 357 255 305 207 Electronic Tom 1 Jazz Hi-hat Close Wood Block 358 DJ 2 208 Electronic Tom 2 256 Electronic Hi-hat Close 306 **Muted Cuica** 359 DJ3 209 Electronic Tom 3 257 808 Hi-hat Close 307 Open Cuica 360 DJ 4 308 210 Electronic Tom 4 258 House Hi-hat Close Muted Triangle DJ 5 259 361 211 Electronic Tom 5 Standard Hi-hat Pedal 309 Open Triangle 362 DJ<sub>6</sub> 212 Electronic Tom 6 260 Pop Hi-hat Pedal 310 Sleigh Bells 213 909 Tom 1 261 Rock Hi-hat Pedal 311 Wind Chimes 363 DJ 7 DJ8 364 214 909 Tom 2 262 Jazz Hi-hat Pedal 312 Castanets 365 DJ 9 215 909 Tom 3 263 Electronic Hi-hat Pedal 313 Muted Surdo 366 DJ 10 909 Tom 4 216 264 808 Hi-hat Pedal 314 Open Surdo One 367 265 House Hi-hat Pedal 315 Lotus Drum 368 Two 266 Standard Hi-hat Splash 316 Cowbell 1 **CYMBAL** 369 Three 217 Classic Ride 267 Rock Hi-hat Splash 317 Cowbell 2 370 Four 218 Acoustic Ride 318 Cowbell 3 371 Five PERCUSSION 319 219 Standard 22" Ride Cowbell 4 220 372 Six Brush Ride 320 Cowbell 5 268 Metronome Bell Seven 373 221 Rock Ride 269 Metronome Click 321 Cowbell 6 374 Eight 222 Clean Pop Ride 270 Scratch 322 Cowbell 7 Nine 375 223 Flat Ride 271 Scratch Push 323 Cowbell 8 376 Metronome Bell 224 60's Ride 272 DJ FX 324 Cowbell 9 377 Metronome Click 225 808 Ride 273 High Q Zap 325 Cowbell 10 378 Clave Click 1 226 Classic Crash 1 274 Ding Bell 326 Cowbell 11 Clave Click 2 379 227 275 327 Classic Crash 2 Tabla 1 Finger Snaps 380 Stick Click 1 228 276 328 Tabla 2 Standard Crash 1 Standard Clap 381 Stick Click 2 229 Standard Crash 2 277 Tambourine 329 Tabla 3 382 Cow Click 1 230 Standard Crash 3 278 Vibraslap 330 Tabla 4 383 Cow Click 2 231 Rock Crash 1 279 Agogo Low 331 Tabla 5 384 Fm Click 1 232 Rock Crash 2 280 Agogo High 332 Tabla 6 385 Fm Click 2 233 Splash 281 Bell Tree 333 Da Gu 1 234 **Brush Crash** 282 Bongo High 334 Da Gu 2 235 China 283 Bongo Low 335 Zhu Ban HI-HAT COMBINATIONS 284 236 Orchestra Crash Shaker 336 Nan Bang Standard 285 337 1 237 HipHop Crash Conga Slap High Da Mu Yu 238 808 Crash 286 338 Mu Yu 1 2 Pop Conga Slap Mid 239 606 Crash 287 339 Mu Yu 2 3 Rock Conga Low 4 Jazz 240 Electronic Crash 288 Open Conga 340 Mu Yu 3 289 5 Electronic Conga Slap 341 Mu Yu 4 6 808 HI-HAT 290 Cowbell 342 Pai Gu 1 241 Standard Hi-hat Open 291 Timbale High 343 Pai Gu 2 7 House

## **GM Drum Kit List**

Note No.	Standard 1 (bank 0 )	Standard 2 (bank 4 )	Room (bank 09 )	Rock (bank 16 )
27 – D#1	High Q	<-	<-	<-
28 E1	Slap	<-	<-	<-
29-F1	Scratch Push	<-	<-	<-
30-F#1	Scratch Pull	<-	<-	<-
31-G1	Sticks	<-	<-	<-
32-G#1	Square Click	<-	<-	<-
33-A1	Metronome Click	<-	<-	<-
34 – A#1	Metronome Bell	<-	<-	<-
35-B1	Acoustic Bass Drum	<-	Room Bass Drum 1	Rock Bass Drum 1
36-C2	Standard 1 Bass Drum	Standard 2 Bass Drum	Room Bass Drum 2	Rock Bass Drum 2
37-C#2	Side Stick	<-	<-	<-
38-D2	Standard 1 Snare	Standard 2 Snare	Room Snare	Rock Snare
39-D#2	Hand Clap	<-	<-	<-
40-E2	Standard 1 Snare Rim	Standard 2 Snare Rim	Room Snare Rim	Rock Snare Rim
41-F2	Standard 1 Tom 6	Standard 2 Tom 6	Room Tom 6	Rock Tom 6
42-F#2	Standard 1 Hi-hat Close	Standard 2 Hi-hat Close	Room Hi-hat Close	Rock Hi-hat Close
43-G2	Standard 1 Tom 5	Standard 2 Tom 5	Room Tom 5	Rock Tom 5
44 – G#2	Standard 1 Hi-hat Pedal	Standard 2 Hi-hat Pedal	Room Hi-hat Pedal	Rock Hi-hat Pedal
45-A2	Standard 1 Tom 4	Standard 2 Tom 4	Room Tom 4	Rock Tom 4
46 – A#2	Standard 1 Hi-hat Open	Standard 2 Hi-hat Open	Room Hi-hat Open	Rock Hi-hat Open
47—B2	Standard 1 Tom 3	Standard 2 Tom 3	Room Tom 3	Rock Tom 3
48-C3	Standard 1 Tom 2	Standard 2 Tom 2	Room Tom 2	Rock Tom 2
49 – C#3	Standard 1 Crash 1	Standard 2 Crash 1	Room Crash 1	Rock Crash 1
50-D3	Standard 1 Tom 1	Standard 2 Tom 1	Room Tom 1	Rock Tom 1
51 – D#3	Standard 1 Ride	Standard 2 Ride	Room Ride	Rock Ride
52-E3	Chinese Cymbal 1	<-	<- D D'   D	<-
53-F3	Ride Bell	<- <-	Room Ride Bell	Rock Ride Bell
54 – F#3	Tambourine	<- <-		C- Pook Sploop Cymbol
55 – G3 56 – G#3	Splash Cymbal Standard 1 Cowbell	Standard 2 Cowbell	Room Splash Cymbal Room Cowbell	Rock Splash Cymbal Rock Cowbell
57—A3	Standard 1 Crash 2	Standard 2 Crash 2	Room Crash 2	Rock Crash 2
58—A#3	Vibra-slap		\\-	<-
59-B3	Ride Cymbal	< <u>-</u>	<-	<-
60-C4	Hi Bongo	\ \ -	-   <-	< <u>-</u>
61 – C#4	Low Bongo	<-	<-	<-
62-D4	Mute Hi Conga	<-	<-	<-
63 – D#4	Open Hi Conga	<-	<-	<-
64-E4	Low Conga	<-	<-	<-
65-F4	High Timbale	<-	<-	<-
66 – F#4	Low Timbale	<-	<-	<-
67-G4	High Agogo	<-	<-	<-
68 – G#4	Low Agogo	<-	<-	<-
69-A4	Cabasa	<-	<-	<-
70 – A#4	Maracas	<-	<-	<-
71-B4	Short Whistle	<-	<-	<-
72-C5	Long Whistle	<-	<-	<-
73-C#5	Short Guiro	<-	<-	<-
74 – D5	Long Guiro	<-	<-	<-
75 – D#5	Claves	<-	<-	<-
76-E5	Hi Wood Block	<-	<-	<-
77—F5	Low Wood Block	<-	<-	<-
78—F#5	Mute Cuica	< <u>-</u>	<-	<-
79—G5	Open Cuica	<-	<-	<-
80 — G#5	Mute Triangle	<-	<- -	<-
81—A5	Open Triangle	<-	<- <-	<-
82-A#5 83-B5	Shaker lingle Bell	<- <-	<-   <-	<- <-
83-B5 84-C6	Jingle Bell Bell Tree	<-   <-	<del>&lt;-</del>   <del>&lt;-</del>	<-  <-
85-C#6	Castanets	<-  <-	<-  <-	<-  <-
86-D6	Mute Surdo	< <u>-</u>	<del>-</del>   <del>-</del>	<-
87 – D#6	Open Surdo	<-	<-	<-
•	, <del></del>			

Note No.	Funk (bank 17 )	Electronic (bank 24 )	808 (bank 25 )	House (bank 28 )
27—D#1	<-	<-	<-	<-
28 E1	<-	<-	<-	<-
29—F1	<-	<-	<-	<-
30—F#1	<-	<-	<-	<-
31-G1	<-	<-	\-   <-	\-   <-
32-G#1	<-	<-	<-	\-   <-
32 O#1	<-	<-	<-	\-   <-
34—A#1	<-	<-	<-	< <u>-</u>
35-B1	Funk Bass Drum 1	Electronic Bass Drum 1	808 Bass Drum 1	House Bass Drum 1
36-C2	Funk Bass Drum 2	Electronic Bass Drum 2	808 Bass Drum 2	House Bass Drum 2
37—C#2	<-	<-	<-	<- Dass Brain 2
38-D2	Funk Snare	Electronic Snare	808 Snare	House Snare
39-D#2	<-	< <u>-</u>	<-	House Hand Clap
40-E2	Funk Snare Rim	Electronic Snare Rim	808 Snare Rim	House Snare Rim
41—F2	Funk Tom 6	Electronic Tom 6	808 Tom 6	House Tom 6
42-F#2	Funk Hi-hat Close	Electronic Hi-hat Close	808 Hi-hat Close	House Hi-hat Close
43-G2	Funk Tom 5	Electronic Tom 5	808 Tom 5	House Tom 5
44 – G#2	Funk Hi-hat Pedal	Electronic Hi-hat Pedal	808 Hi-hat Pedal	House Hi-hat Pedal
45—A2	Funk Tom 4	Electronic Tom 4	808 Tom 4	House Tom 4
46—A#2	Funk Hi-hat Open	Electronic Hi-hat Open	808 Hi-hat Open	House Hi-hat Open
47—B2	Funk Tom 3	Electronic Tom 3	808 Tom 3	House Tom 3
48-C3	Funk Tom 2	Electronic Tom 2	808 Tom 2	House Tom 2
49-C#3	Funk Crash 1	<-	808 Crash 1	<-
50-D3	Funk Tom 1	Electronic Tom 1	808 Tom 1	House Tom 1
51 – D#3	Funk Ride	<-	<-	<-
52-E3	<-	<-	<-	<-
53-F3	<-	<-	<-	<-
54 – F#3	<-	<-	<-	<-
55-G3	<-	<-	<-	<-
56-G#3	<-	<-	<-	<-
57-A3	Funk Crash 2	<-	808 Crash 2	<-
58-A#3	<-	<-	<-	<-
59-B3	<-	<-	<-	<-
60-C4	<-	<-	<-	<-
61-C#4	<-	<-	<-	<-
62-D4	<-	<-	808 Mute Hi Conga	<-
63-D#4	<-	<-	808 Open Hi Conga	<-
64-E4	<-	<-	808 Low Conga	<-
65-F4	<-	<-	<-	<-
66-F#4	<-	<-	<-	<-
67-G4	<-	<-	<-	<-
68 – G#4	<-	<-	<-	<-
69-A4	<-	<-	<-	<-
70 – A#4	<-	<-	808 Maracas	<-
71-B4	<-	<-	<-	<-
72-C5	<-	<-	<-	<-
73-C#5	<-	<-	<-	<-
74 – D5	<-	<-	<-	<-
75—D#5	<-	<-	808 Claves	<-
76-E5	<-	<-	<-	<-
77—F5	<-	<-	<-	<-
78—F#5	<-	<-	<-	<-
79—G5	<-	<-	<-	<-
80 – G#5	<-	<-	<-	<-
81—A5	<-	<-	<-	<-
82-A#5	<-	<-	<-	<-
83-B5	<-	<-	<-	<-
84-C6	<-	<-	<-	<-
85—C#6	<-	<-	<-	<-
86-D6	<-	<-	<-	<-
87 – D#6	<-	<b> </b> <-	<-	<-

Note No.	Jazz (bank 32 )	Brush (bank 40 )	Orchestra (bank 48 )
27 – D#1	<-	<-	Concert Hi-hat Close
28 E1	<-	<-	Concert Hi-hat Pedal
29-F1	<-	<-	Concert Hi-hat Open
30 – F#1	<-	<-	Concert Ride
31-G1	<-	<-	<-
32-G#1	<-	<-	<-
33-A1	<-	<-	<-
34 – A#1	<-	<-	<-
35-B1	Jazz Bass Drum 1	Brush Bass Drum 1	Concert Bass Drum 1
36-C2	Jazz Bass Drum 2	Brush Bass Drum 2	Concert Bass Drum 2
37 – C#2	<-	<-	<-
38-D2	Jazz Snare	Brush Snare	Concert Snare 1
39-D#2	<-	<-	Castanets
40-E2	Jazz Snare Rim	Brush Snare Rim	Concert Snare 2
41-F2	Jazz Tom 6	Brush Tom 6	Timpani F
42-F#2	Jazz Hi-hat Close	<-	Timpani F#
43-G2	Jazz Tom 5	Brush Tom 5	Timpani G
44 – G#2	Jazz Hi-hat Pedal	<-	Timpani G#
45-A2	Jazz Tom 4	Brush Tom 4	Timpani A
46-A#2	Jazz Hi-hat Open	<-	Timpani A#
47-B2	Jazz Tom 3	Brush Tom 3	Timpani B
48-C3	Jazz Tom 2	Brush Tom 2	Timpani C
49-C#3	<-	Brush Crash 1	Timpani C#
50-D3	Jazz Tom 1	Brush Tom 1	Timpani D
51 – D#3	Jazz Ride	Brush Ride	Timpani D#
52-E3	<-	<-	Timpani E
53-F3	<-	<-	Timpani F
54 – F#3	<-	<-	<-
55-G3	<-	<-	<-
56 – G#3	<-	<-	<-
57-A3	Chinese Cymbal 2	Brush Crash 2	Concert Crash 1
58-A#3	<-	<-	<-
59-B3	<-	<-	Concert Crash 2
60-C4	<-	<-	<-
61 – C#4	<-	<-	<-
62-D4	<-	<-	<-
63 – D#4	<-	<-	<-
64-E4	<-	<-	<-
65-F4	<-	<-	<-
66 – F#4	<-	<-	<-
67 – G4	<-	<-	<-
68 – G#4	<-	<-	<-
69-A4	<-	<-	<-
70 – A#4	<-	<-	<-
71—B4	<-	<-	<-
72-C5	<-	<-	<-
73-C#5	<-	<-	<-
74 – D5	<-	<-	<-
75-D#5	<-	<-	<-
76-E5	<-	<-	<-
77—F5	<-	<-	<-
78 – F#5	<-	<-	<-
79-G5	<-	<-	<-
80 – G#5	<-	<-	<-
81-A5	<-	<-	<-
82-A#5	<-	<-	<-
83-B5	<-	<-	<-
84-C6	<-	<-	<-
85-C#6	<-	<-	<-
86-D6	<-	<-	<-
87 – D#6	<-	<-	<-

## **GM** Backing Instrument List

PIAI	<u> </u>	43	Celloi	86	Lead6 (voice)
1	Acoustic Grand Piano	44	Contrabass	87	Lead7 (fifths)
2	Bright Acoustic Piano	45	Tremolo Strings	88	Lead8 (bass & Lead)
3	Electric Grand Piano	46	Pizzicato Strings		
4	Honky-Tonk Piano	47	Orchestral Harp	<u>PAD</u>	
5	E.Piano 1	48	Timpan	89	Pad1 (newage)
6	E.Piano 2			90	Pad2 (warm)
7	Harpsichord		INGS ENSEMBLE	91	Pad3 (Polysynth)
8	Clavi	49	Strings Ensemble 1	92	Pad4 (choir)
		50	Strings Ensemble 2	93	Pad5 (bowed)
MAL	<u>LET                                    </u>	51	Synth Strings 1	94	Pad6 (metallic)
9	Celesta	52	Synth Strings 2	95	Pad7 (ha <b>l</b> o)
10	Glockenspiel	53	Choir Aahs	96	Pad8 (sweep)
11	Music Box	54	Voice Oohs		
12	Vibraphone	55	Synth Voice	<u>EFFI</u>	ECTS
13	Marimba	56	Orchestra Hit	97	FX1 (rain)
14	Xylophone			98	FX2 (soundtrack)
15	Tubular Bells	BRA		99	FX3 (crystal)
16	Dulcimer	57	Trumpet	100	FX4 (atmosphere)
		58	Trombone	101	FX5 (brightness)
ORG	GAN	59	Tuba	102	FX6 (goblins)
17	Drawbar Organ	60	Muted Trumpet	103	FX7 (echoes)
18	Percussive Organ	61	French Horn	104	FX8 (sci-fi)
19	Rock Organ	62	Brass Section		
20	Church Organ	63	Synth Brass 1	<u>ETH</u>	NIC
21	Reed Organ	64	Synth Brass 2	105	Sitar
22	Accordion			106	Banjo
23	Harmonica	REE	<u>:D</u>	107	Shamisen
24	Tango Accordion	65	Soprano Sax	108	Koto
		66	Alto Sax	109	Kalimba
GUI	TAR	67	Tenor Sax	110	Bagpipe
25	Nylon Guitar	68	Baritone Sax	111	Fiddle
26	Steel Guitar	69	Oboe	112	Shanai
27	Jazz Guitar	70	English Horn		
28	Clean Guitar	71	Bassoon	<u>PER</u>	CUSSIVE
29	Muted Guitar	72	Clarinet	113	Tinkle Bell
30	Overdriven Guitar			114	Agogo
31	Distortion Guitar	PIPE	<u> </u>	115	Steel Drums
32	Guitar Harmonics	73	Piccolo	116	Wood Block
		74	Flute	117	Taiko Drum
BAS	SS	75	Recorder	118	Melodic Tom
33	Acoustic Bass	76	Pan Flute	119	Synth Drum
34	Finger Bass	77	Blown Bottle	120	Reverse Cymbal
35	Pick Bass	78	Shakuhachi		
36	Fretless Bass	79	Whistle	<u>SOU</u>	ND EFFECTS
37	Slap Bass 1	80	Ocarina	121	Guitar Fret Noise
38	Slap Bass 2			122	Breath Noise
39	Synth Bass 1	<u>LEA</u>	<u>D</u>	123	Seashore
40	Synth Bass 2	81	Lead1 (square)	124	Bird Tweet
	•	82	Lead2 (sawtooth)	125	Telephone Ring
STR	RINGS	83	Lead3 (calliope)	126	Helicopter
41	Violin	84	Lead4 (chiff)	127	Applause
42	Viola	85	Lead5 (charang)	128	Gunshot

## Song List

No.	Name	Type	No.	Name	Type
1	Drum Intro	Loop	41	Mambo	Loop
2	Drum Main A	Loop	42	Latin Rock 1	Loop
3	Drum Main B	Loop	43	Latin Pop 2	Loop
4	Electronic&Funk	Loop	44	Guitar Bossa	Loop
5	Modern Pop	Loop	45	Country Blues	Loop
6	Fusion 1	Loop	46	Rock	Loop
7	НірНор	Loop	47	Reggae 1	Loop
8	Latin Jazz 1	Loop	48	60's Rock	Loop
9	Funk 1	Loop	49	Blues	Loop
10	Big Band 1	Loop	50	World 1	Loop
11	Funk 2	Loop	51	World 2	Loop
12	Pop Funk 1	Loop	52	Latin	Loop
13	Fusion 2	Loop	53	Bossa	Loop
14	Funk 3	Loop	54	Samba 2	Loop
15	Fusion 3	Loop	55	3/4 Pop	Loop
16	Funk 4	Loop	56	Pop	Loop
17	Fusion 4	Loop	57	Jazz 2	Loop
18	Pop Funk 2	Loop	58	Reggae 2	Loop
19	R&B	Loop	59	Reggae 3	Loop
20	Drum & Bass 1	Loop	60	Latin Rock 2	Loop
21	Break Beat	Loop	61	Chorused Piano Tap 1	Hit
22	Dance	Loop	62	Fifths Tap	Hit
23	Drum & Bass 2	Loop	63	Brightness Tap 1	Hit
24	Latin Dance 1	Loop	64	Atmosphere	Hit
25	Latin Dance 2	Loop	65	Chorused Piano Tap 2	Hit
26	Swing 1	Loop	66	Bass Tap 1	Тар
27	Latin Jazz 2	Loop	67	Synth string Tap	Тар
28	Big Band 2	Loop	68	Brightness Tap 2	Тар
29	3/4 Jazz	Loop	69	Bass Tap 2	Тар
30	Jazz 1	Loop	70	Pad Tap 1	Тар
31	Latin Jazz 3	Loop	71	Vibraphone	Тар
32	Swing 2	Loop	72	Bass Tap 3	Тар
33	6/8 Ba <b>ll</b> ad	Loop	73	Rain Tap	Тар
34	Pop Ballad	Loop	74	Pizzcato Strings	Тар
35	Pop Bossa	Loop	75	Bass Tap 4	Тар
36	16Beat Pop	Loop	76	Crystal	Тар
37	Pop Shuffle	Loop	77	Xylophone	Тар
38	Ba <b>ll</b> ad	Loop	78	Bass Tap 5	Тар
39	Samba 1	Loop	79	Pad Tap 2	Тар
40	Latin Pop 1	Loop	80	Glockenspiel Tap	Тар

## **BEAT**

Name	Kit Bank	Beat	Tempo	Measure
Beat 1	0	4/4	100	4
Beat 2	0	4/4	100	4
Beat 3	0	4/4	100	4
Beat 4	0	4/4	100	4
Beat 5	0	4/4	100	4
Beat 6	0	4/4	100	4
Beat 7	0	4/4	100	4
Beat 8	0	4/4	100	4
Beat 9	0	4/4	100	4
Beat 10	0	4/4	100	4
Beat 11	0	4/4	100	4
Beat 12	0	4/4	100	4
Beat 13	0	4/4	100	4
Beat 14	0	4/4	100	4
Beat 15	0	4/4	100	4
Beat 16	0	4/4	100	4
Beat 17	0	4/4	100	4
Beat 18	0	4/4	100	4
Beat 19	0	4/4	100	4
Beat 20	0	4/4	100	4
	Beat 1 Beat 2 Beat 3 Beat 4 Beat 5 Beat 6 Beat 7 Beat 8 Beat 9 Beat 10 Beat 11 Beat 12 Beat 13 Beat 14 Beat 15 Beat 16 Beat 17 Beat 18 Beat 19	Beat 1 0 Beat 2 0 Beat 3 0 Beat 4 0 Beat 5 0 Beat 6 0 Beat 7 0 Beat 8 0 Beat 9 0 Beat 10 0 Beat 11 0 Beat 12 0 Beat 13 0 Beat 14 0 Beat 15 0 Beat 16 0 Beat 17 0 Beat 17 0 Beat 18 0 Beat 19 0	Beat 1 0 4/4 Beat 2 0 4/4 Beat 3 0 4/4 Beat 4 0 4/4 Beat 5 0 4/4 Beat 6 0 4/4 Beat 7 0 4/4 Beat 8 0 4/4 Beat 9 0 4/4 Beat 10 0 4/4 Beat 11 0 4/4 Beat 12 0 4/4 Beat 13 0 4/4 Beat 14 0 4/4 Beat 15 0 4/4 Beat 16 0 4/4 Beat 17 0 4/4 Beat 18 0 4/4 Beat 19 0 4/4	Beat 1       0       4/4       100         Beat 2       0       4/4       100         Beat 3       0       4/4       100         Beat 4       0       4/4       100         Beat 5       0       4/4       100         Beat 6       0       4/4       100         Beat 7       0       4/4       100         Beat 8       0       4/4       100         Beat 9       0       4/4       100         Beat 10       0       4/4       100         Beat 11       0       4/4       100         Beat 12       0       4/4       100         Beat 13       0       4/4       100         Beat 14       0       4/4       100         Beat 15       0       4/4       100         Beat 16       0       4/4       100         Beat 17       0       4/4       100         Beat 18       0       4/4       100         Beat 19       0       4/4       100

## **RHYTHM**

No.	Name K	it Bank	Beat	Tempo	Measure
1	Funk 1	0	4/4	110	4
2	Funk 2	0	4/4	90	4
3	HipHop 1	0	4/4	90	4
4	HipHop 2	0	4/4	113	4
5	Jazz 1	0	4/4	157	4
6	Jazz 2	0	4/4	187	4
7	Latin 1	0	4/4	190	4
8	Latin 2	0	4/4	200	4
9	Pop Rock 1	0	4/4	105	4
10	Pop Rock 2	0	4/4	97	4
11	Rock	0	4/4	100	4
12	6/8 Pop Roc	k 0	6/8	125	4

## **PATTERN**

No.	Name	Kit Bank	Beat	Tempo	Measure
1	Funk	17	4/4	120	4
2	HipHop	25	4/4	110	4
3	Latin Jazz	40	4/4	130	8
4	6/8 Ballad	8	6/8	96	4
5	Bossanova	17	4/4	82	8
6	R&B	25	4/4	86	4
7	3/4 Jazz	40	3/4	120	10
8	Reggae	0	4/4	78	4
9	Rock	0	4/4	100	4
10	Fusion	0	4/4	103	4

## **Parameter List**

## NORMAL MODE

KIT		
Parameter	Abbreviation	Value
Kit Number	NUM	1—40
Kit Volume	VOL	0—32
Reverb	REV	ON / OFF
EQ High	EQH	-12 +12
EQ Middle	EQM	-12 +12
EQ Low	EQL	-12 +12
20110		

30110		
Parameter	Abbreviation	Value
Song Number	NUM	1—80
Accomp Volume of Soi	ng ACC	0—32
Drum Volume of Sona	DRM	0—32

UTILITY		
Parameter	Abbreviation	Value
Pad Sensitivity	SEN	1—16
Pad Threshold	THR	0—16
Crosstalk	CRO	1—16
Curve	CUR	1—6
Rim Sensitivity	R-S	1—16
Splash Sensitivity	S-S	1—9
Local on/off	LOC	ON/OFF
GM on/off	GM	ON/OFF
TEMPO		

**Abbreviation** 

BPM

Value

30-280

VOICE		
Parameter	Abbreviation	Value
Voice Number	NUM/H-C	1—385/1—7
Voice Volume	VOL	0—32
Voice Pan	PAN	-8 +8
Voice Pitch	PIT	-8 +8
Voice Reverb	REV	0—16
MIDI Note	MID	0—127
Pad Song Switch	P-S	ON / OFF
Pad Song Numbe	er P-N	1—80

CLICK		
Parameter	Abbreviation	Value
Signature	SIG	0-9/2, 0-9/4, 0-9/8, 0-9/16
Interval	INT <sup>*</sup>	1–2, 3–8, 1–4, 1–8, 1-12, 1-1
Click Volume	VOL	0—32
Click Voice	VOC	1—5

RECORD		
Parameter	Abbreviation	value
Song Number	SNG	<b></b> /1—60
Kit	KIT	1—40
Tempo	BPM	30—280
Signature	SIG	1-9/2, 1-9/4, 1-9/8, 1-9/10
Interval	INT	1–2, 3–8, 1–4, 1–8, 1-12, 1-
Drum Off	DRM	/ON/OFF
Pre Count	PRC	ON/OFF

## LEARNING MODE

**Parameter** 

**TEMPO** 

BEAT			
Parameter	<b>Abbreviation</b>	Value	
Beat Type	BEA	120	
Drum Volume	DRM	032	
RHYTHEM			
Parameter	Abbreviation	Value	
Rhythm Type	RHM	112	
Level	LEV	16	
Drum Volume	VOL	032	

Level LEV 15 Accompany Volume ACC 032		110 15
Accompany Volume ACC 032	LEV	15
		15
Drum Volume DRM 032	ACC	032
Drain volume Draw 0 02	DRM	032
Brain Volume		

## **MIDI** Implementation Chart

Function	1	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	I	×	×	
Control	0	×	0	Bank Select
Change	1	×	0	Modulation
	5	×	0	Portamento Time
	6	×	0	Data Entry
	7	×	0	Volume
	10	×	0	Pan
	11	×	$\circ$	Expression
	64	×	0	Sustain Pedal
	65	×	0	Portamento On/Off
	66	×	0	Sostenuto Pedal
	67	×	0	Soft Pedal
	80	×	0	Reverb Program
	81	×	0	Chorus Program
	91	×	0	Reverb Level
	93	×	0	Chorus Level
	120	×	0	All Sound Off
	121	×	$\circ$	Reset All Controllers
	123	×	0	All Notes Off
Program		×	0	
Change	: True Number	××××××	0-127	
System Ex	clusive	×	0	
System	: Song Position	×	×	
Common	: Song Select	×	×	
	: Tune	×	×	
System	: Clock	0	×	
Real Time	: Commands	0	×	Start And Stop Only
Aux	: Local On/off	×	×	
	: All Notes Off	×	×	
Messages	: Active Sensing	×	0	
-	: Reset	×	×	