

Digital DrumOwner'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 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.

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.

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Main Features

Bring Natural and Realistic Voices to Your Performance

This digital drum has equipped with all new voices to provide a super natural and realistic sense for your ears. No matter playing stroke roll or striking pads with velocity dynamics, it lets you enjoy the delicate nuances and natural voices, replicating the unique characteristics of an acoustic drum kit.

Fashionable Appearance

With a compact and elegant design, this digital drum is the perfect partner for drum learning, and nicely fits your home decor.

Amazing DBT Function

The DBT (double bass trigger) function makes it easy to achieve the double bass technique. You may adjust the trigger interval to fit your performance.

Smart Coach Mode

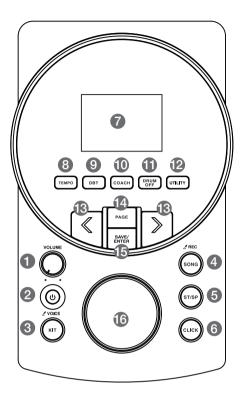
Try the three coach modes with dozens of common beat practices, and track your progress with the smart score function.

USB MIDI Output

The USB MIDI output provides easy connection with a computer and smart device such as iPad (camera kit is required).

Panel Description

Front Panel



1. [VOLUME] Knob

Adjust the headphones volume level.

Note:

Rotate the [VOLUME] knob counter-clockwise to the minimum position before power on.

2. [POWER] Button

Press this button to turn the module on/off.

3. [KIT/VOICE] Button

Press this button to enter kit mode. Long-press it to enter voice mode.

4. [SONG/REC] Button

Press this button to enter song mode. Long-press it to enter record mode.

5. [START/STOP] Button

Start/stop playing songs.

6. [CLICK] Button

Start/stop the click function; enter the click setting mode.

7. LCD Display

Display the names and settings information.

8. [TEMPO] Button

Adjust the tempo value.

9. [DBT] (DOUBLE BASS TRIGGER) Button Turn DBT function on/ off.

10. [COACH] Button

Enter coach mode.

11. [DRUM OFF] Button

Mute/unmute the drum part in a song.

12. [UTILITY] Button

Enter the utility setting mode.

13. [<]/[>]Button

Gradually set parameter values.

14. [PAGE] Button

Switch between the settings of a function.

15. [SAVE/ENTER] Button

Save the drum kit / pad settings.

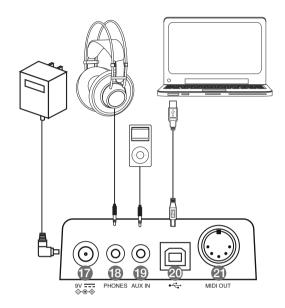
16. DATA DIAL

Set parameter values.

Side Panel (Connection)

Note:

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



17. POWER jack

For connecting the specified power adapter.

18. PHONES jack (1/8")

For connecting a pair of headphones.

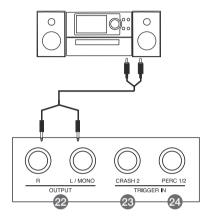
19. AUX IN jack (1/8")

For connecting external audio player, such as an MP3. You can enjoy playing the drum along with your favorite songs.

20. USB MIDI Terminal

For connecting to a computer.

Note: Only for transmitting MIDI data.



21. MIDI OUT Terminal

For transmitting MIDI data to external MIDI device.

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

For connecting an audio system or amplifier. For stereo output use both the L/MONO and R jacks. For monaural output use the L/MONO jack.

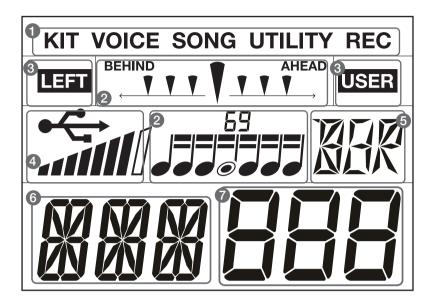
23. CRASH 2 jack (1/4")

For connecting additional Crash 2.

24. PERC 1/2 jack (1/4")

For connecting the mini pads.

LCD Display



1. Mode

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

2. Coach Mode

Display current beat accuracy and rhythm type.

3. The Secondary Mode

Display the secondary mode of some primary modes.

4. External Device and Striking Strength

Display the connected external device and current striking strength.

5. Pad Name

Display the current selected pad name.

6. Parameter Name

Display current parameter name such as volume, curve.

7. Parameter Value

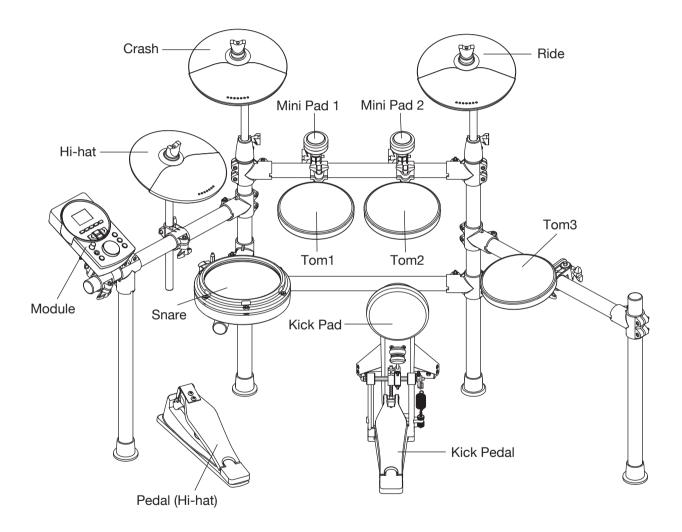
Display current parameter value or the number of Song/Kit/Voice.

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 Pad, Kick Pedal, Snare (2-zone), Tom 1~3, Crash (with choke), Ride (with choke), Hi-hat, Pedal (Hi-hat), Mini Pad 1~2.



Notes:

- 1. Use the provided cables to connect the pads to the Trigger Input jack on the rear panel of the module. Make sure each pad is connected to its corresponding trigger input jack.
- 2. Refer to the Setup Guide for details on assembling the drum stand, attaching the drum pads and module.

Getting Ready to Play

Setting Up Power Supply

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

Notes:

- 1. Use only the specified AC adaptor.
- 2. Even when the module is turned off, electricity is still flowing to the module at minimum level. Please unplug the module when it is not in use for a long time.

Turning the Power On/Off

Turning On the Power

- 1. Make sure the master volume level is set to minimum.
- 2. Press the [POWER] button to turn on the module.
- 3. Listen to the headphones, and adjust the [VOLUME] knob while striking the pads until you get an appropriate volume level.

Note:

Before turning on the power, make sure you have completed all necessary connections (trigger, audio etc.) and turn down the volume of all the connected equipments.

Turning Off the Power

- Set the volume level of the module and the connected audio device to minimum.
- 2. Turn off the connected audio device.
- 3. Press the [POWER] button to turn off the module.

Factory Reset

The module will automatically save current settings before it turns off. If you want to restore factory settings, please use the following procedure:

- 1. Press and hold the [<] and [>] buttons simultaneously, then press the [POWER] button to turn on the module.
- The LCD will temporarily display "FAC SEt" to indicate factory reset is finished.

Adjusting the Head Tension

Please adjust the head tension before you start to perform. By adjusting the head tension, you may make the pad respond to your strikes, just like playing an acoustic drum.

- Follow the order indicated in the image. Turn each tension bolt around the head little by little.
- 2. Adjust the tightness of each bolt to make the pad tension even.

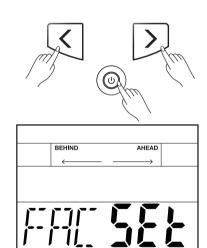
Notes:

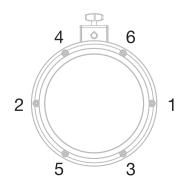
- **1.** Always adjust each tension bolt little by little. Turning the bolts too much in one step may result in uneven pad tension.
- The head tension may change after using for some time. Adjust the head tension whenever it is necessary.

Auto Power Off

In order to save energy, the module will automatically turn off after 30 minutes if it is not in use. You may enable or disable this function in Utility Settings.





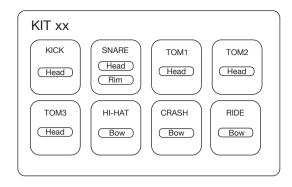


Quick Play

Drum Kits and Voices

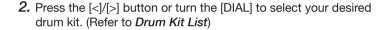
An acoustic drum has only one fixed kit and it's unchangeable. A digital drum is preset with various voices of different styles. You may combine different voices and make as many drum kits as you like.

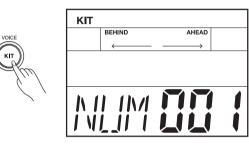
The structure of a drum kit is shown on the right:



Selecting a Drum Kit

1. Press the [KIT] button to enter the kit menu.







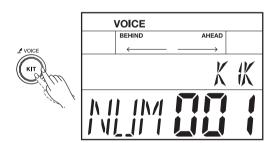


Selecting a Voice

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.
- 2. Strike the pad that you want to edit.

 The screen will display the name of current pad.
- **3.** While striking the pad, press the [<]/[>] button or turn the [DIAL] to select a desired voice for the pad. (Refer to *Drum Voice List*)



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. $\mbox{\sc Head}$ Shot

Strike only the head of the pad.

Rim Shot

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

Cymbal

Cymbal Bow shot

Strike the middle area of the cymbal.

Choke Play

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

Press the pedal down to different positions, the sound of striking the Hi-Hat cymbal will vary. And this is similar to an acoustic drum.

Open Hi-Hat

Strike the Hi-Hat pad without pressing the pedal.

Closed Hi-Hat

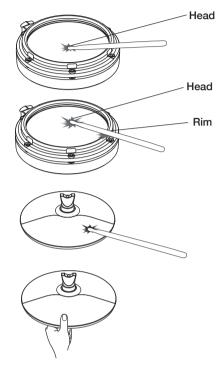
Strike the Hi-Hat pad with the pedal pressed completely down.

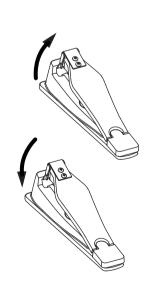
Hi-Hat Pedal

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

Splash

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





Drum Kit

Preset Drum Kit and User Drum Kit

The module features a variety of preset drum kits and several user drum kits. You can select your favorite drum kits and edit the parameters to fit your playing, then save the settings in user drum kits. (Refer to Drum Kit List).

Note:

Save your settings to a user drum kit after editing, otherwise, all edited data will be lost.

Editing Kit Parameters

Changing the kit parameter will affect all pads, which means when you increase the volume of a drum kit, the volume of all pads will be increased.

- 1. Press the [KIT] button, the LCD will display the kit menu.
- 2. Repeatedly press the [PAGE] button to select a parameter to edit.

Parameter	Value	LCD Display	Description
Kit No.	Preset: 1~25	NUM XXX	Select a drum kit.
	User: 26~30		
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.

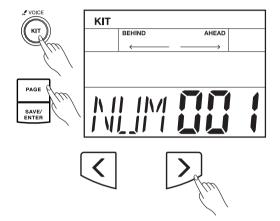
Editing Voice Parameters

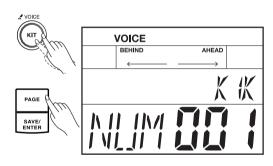
Edit parameters of one pad will not affect others. For example, if you increased the volume of snare, the other pads wouldn't change.

- 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 a parameter to edit.

Parameter	Value	LCD Display	Description	Triggers:
Voice No.	1~308	NUM XXX	Select a voice.	KIK (Kick)
				Sn (Snare)
				SnR (Snare Rim)
				T1 (Tom1)
				T2 (Tom2)
				T3 (Tom3)
Volume	0~127	VOL XXX	Adjust the volume	P1(Perc1 Mini Pad1)
			of voice.	P2(Perc2 Mini Pad2)
				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.





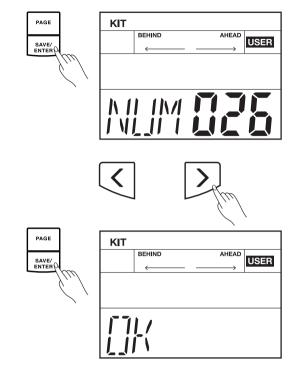




Saving User Drum Kit

1. While in the drum kit or 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. The user kit number will flash.
- **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

The module provides a variety of songs. (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 song menu.
- 2. Repeatedly press the [PAGE] button to select a parameter to edit.

Parameter	Value	LCD Display	Description
Song No.	1~85	NUM XXX	Select a song.
Accompaniment	0~8	ACC XXX	Adjust the background volume
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 [<] and [>] buttons at the same time to mute/ unmute the current part.
- 4. Press the [START/STOP] button to play/stop the song.

Muting the Drums in a Song

You can mute the drum part of a song and play along with the accompaniment part.

Press the [DRUM OFF] button to mute the drum part, the button LED will be lit. Press this button again to unmute the drum part.

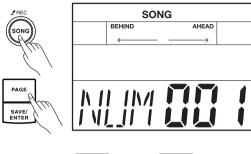
Click

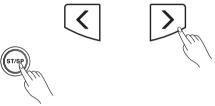
The click helps you practice at a steady tempo. You may set the click parameters to fit your practice.

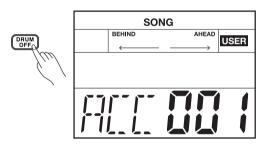
- Press the [CLICK] button to start the click. The button indicator will blink along.
- 2. Repeatedly press the [PAGE] button to select a parameter to edit.

Parameter	Value	LCD Display	Description
Time Signature	0-9/2, 0-9/4,	SIG XXX	Adjust the time signature.
	0-9/8, 0-9/16		
Interval	1/2,3/8,1/4,		Adjust the rhythm interval.
	1/8,1/12,1/16		
Volume	0~5	VOL XXX	Adjust the click volume.
Voice	1~6	NUM XXX	Select the click voice.

- 3. Use the [<]/[>] button or turn the [DIAL] to change the parameter value.
- Press the [CLICK] button again to stop the click. The button indicator will be off.











You may record your performance and save it as a user song. You can record up to 2500 notes in each user song.

Prepare recording

- Press the [SONG/REC] button for 2 seconds to enter the Recordprepare mode, the light of the [SONG/REC] button start flashing.
 Use the [<]/[>] button or turn the [DIAL] to select a user song to save the recording.
- 2. Press the [START/STOP] button, the LCD displays "RDY---". It means recording is on standby. If you want to exit the record mode, press the [SONG]/ [KIT] button.

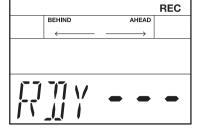
Start / Stop Recording

- When recording is on standby, you can start recording in one of these two ways:
 - Press the [START/STOP] button.
 - Strike one pad.
- 2. Recoding begins after 4 beats count-in.
- During recording, the light of the [SONG/REC] button stays lit all the time, and the LCD will display "ING xxx"; the "xxx" means measure number.
- **4.** Press the [START/STOP] button again to stop recording, and the light of the [SONG/REC] button will be off.
- **5.** After recording, the recorded song will be automatically selected. Press the [START/STOP] button to start the playback.

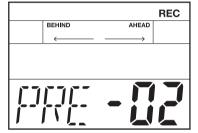
Notes:

- 1. When the storage is used up, the LCD will temporarily display "REC FUL". Recording will stop and be saved automatically.
- 2. When you use a user kit for recording, if you change the user kit setting, this recording may not play back correctly.



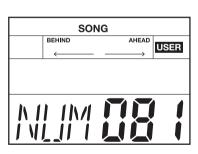














Coach Mode

Coach is a practice mode which is specially designed for beginners to help improve their playing accuracy, speed and stamina, as well as other skills on the whole. It consists of three modes: Quite Count, Beat Check and Change up. Each of them provides unique practices. Score function is available in Beat Check and Change Up. Try getting a perfect score of 100!

Coach Mode Control

1. Press the [COACH] button to enter coach mode. Then repeatedly press the [PAGE] button to select a coach type.

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	It provides 3 types of rhythm pattern to train
		your beat accuracy. The rhythm type will
		change every two measures.
Beat Check	BEA CHE	It is click accuracy practice. There are 13
		selectable rhythm types.
Measure	MEA	Turn on/off the accent sound.
Accent		

- 2. Press the [SAVE/ ENTER] button to enter the selected coach type.
- 3. Use the [PAGE] button to select relevant parameters.
- 4. Press the [TEMPO] button to adjust practice speed at any time.
- Pay attention to the LCD indicators to check the hitting accuracy when you are practicing.

Notes:

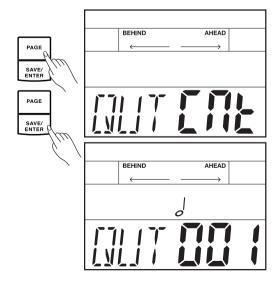
- 1. If you turn on score function, during the practice, it will play the click without sound.
- 2. If you turn off score function, during the practice, it will play the click normally.
- 6. Press the [COACH] button to exit the Coach Mode.

Try to play fast BEHIND Good hit BEHIND Try to play slowly BEHIND AHEAD AHEAD AHEAD AHEAD AHEAD AHEAD AHEAD AHEAD

Quiet Count

In quiet count, the click will turn on/off every several measures to help you practice at steady timing and tempo.

- 1. Repeatedly press the [PAGE] button to select guiet 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 adjust the parameter.



Parameters		- 1 3	Description
QUT			
CNT	1-1/2-2/1-3	CNT XXX	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. The click will turn automatically on/ off, you have to catch up with every beat you ought to play, come on!
- **5.** If you want to change the QUT/CNT parameter or to stop practice, press the [START/ STOP] button again.

Change Up

In change up, the rhythm type will change every two measures. The practice process starts from half note, then the note value will gradually get shorter, and then gradually get longer until it returns to half note, then this process repeats. The beat indicator will flash several times on LCD just before the rhythm type changes.

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

Chang Up	Range	Display	Description
CHG	1~3	CHG XXX	J=J=∏=∭⇒∭
			ן= ן =∫أ]=∏
SCO	ON/ OFF	SCO XXX	ON: The score setting is on. OFF: The score setting is off.

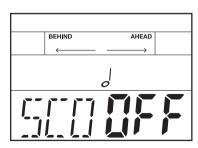
- **5.** Press the [START/ STOP] button to start practicing. It will play one measure of count-in before starting.
- **6.** When score function is turned on, the practice will automatically stop after repeating several times, and display your score. Or you can press the [START/STOP] button to stop practice without the score. When score function is turned off, you can press the [START/STOP] button to stop practice.











Beat Check

Beat Check provides basic beat type practices to improve your playing accuracy of each beat.

- 1. Repeatedly press the [PAGE] button to select beat check mode.
- 2. Press the [SAVE/ ENTER] button to enter beat check mode.
- Use the [<]/[>] button or turn the [DIAL] to select a beat type to practice.
- 4. Use the [PAGE] button to switch to score editing, then 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		אַרָּת לְּלֵּי לְלֵּי לְלֵּי הְּנֵע עְּרָע הְּתְּרָ וּנְוּנְ אַרְּתָּי לְּלִי לְלֵּיִ לְלֵּי הְּנִי עַ עְּ וְנִוּנְ
SCO	ON, OFF		ON: The score setting is on. OFF: The score setting is off.

- **5.** Press the [START/ STOP] button to start practicing. It will play one measure of count-in before starting.
- 6. When score function is turned on, the practice will automatically stop after repeating several times, and display your score. Or you can press the [START/STOP] button stop practice without the score. When score function is turned off, you can press the [START/STOP] button stop practice.











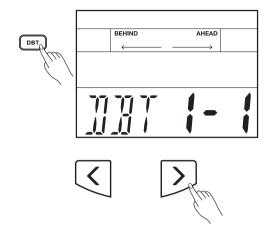
DBT (Double Bass Trigger)

Normally, it is very difficult, almost impossible, for beginners to play double bass. With DBT function, double bass pedal techniques become easy to achieve. It will generate two or three continuous kick sounds when you step on the bass drum only once.

- 1. Press the [DBT] button to turn DBT function on. The [DBT] button lights up.
 - The screen will display "DBT 1-x".
- 2. Use [<]/ [>] or the [DIAL] to adjust the second trigger time. This setting will be remembered even after power off.

		Description
BEA	1-1/1-2/	1=original beat, trigger once.
	1-3/1-4	2=original beat/ 2, trigger once.
		3=original beat/ 3, trigger twice.
		4=original beat/ 4, trigger three times.

- 3. As you play the bass drum, it will produce double bass sound.
- 4. Press the [DBT] button again to turn DBT function off.

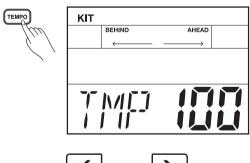


Tempo

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

- 1. Press the [TEMPO] button.
- 2. Use the [<]/[>] button or the [DIAL] to adjust tempo value.
- **3.** If there is no operation within 3 seconds, it will go back to previous menu automatically.

		LCD Display	Description
Tempo	30-280	TMP xxx	The click and song playback will
			use this tempo value.





Utility Settings

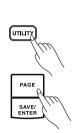
This mode contains two parts: the drum pad trigger settings and drum module settings.

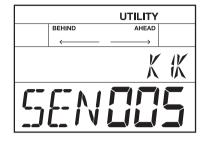
The Drum Pad Trigger Settings

As a professional drummer, you may want to set your drum triggers carefully to fit your playing habits and feelings, making your performance more interesting and professional.

- 1. Press the [UTILITY] button, the LCD will display the UTILITY menu.
- 2. Repeatedly press the [PAGE] button to select a trigger parameter.

Trigger parameters and their value ranges:





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. Strike the pad to select it for editing.
- 4. Use the [<]/[>] button or the [DIAL] to adjust the parameter value.





Note:

The Curve descriptions are shown below:

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

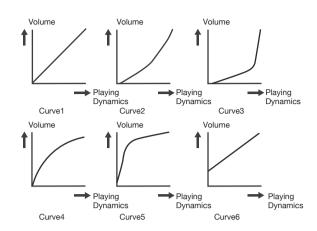
Curve 2, 3: Compared to Curve 1, strong dynamics produce a greater change.

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	Crash1 Bow	49
Snare Head	38	Crash2 Bow	57
Snare Rim	40	Perc 1	56
Tom1 Head	48	Perc 2	70
Tom2 Head	45	Open Hihat	46
Tom3 Head	43	Close Hihat	42
Ride Bow	51	Pedal	44
		Hihat Splash	21



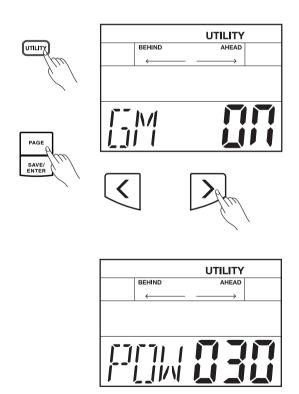
The Drum Module Settings

You can set the drum module function.

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

Module settings and their value ranges:

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 set an appropriate volume level.
No sound from Pads	 Make sure the pads are connected correctly. Make sure the pad volume is not set to "0".
No click sound	Make sure the click is turned on. Make sure the click volume is not set to "0".
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 completed.
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.

Specifications

Maximum Polyphony

64

Drum kits

Kit: 30 (25 Presets + 5 Users) GM Drum Kit: 9 GM Drum Kits

Instruments

Instrument: 308 + 8 Hi-hat Combination

Sequencer Preset Pattern: 80

User Song: 5 Tick: 192 ticks per beat

Record: Real-time Record
Data Capacity: About 2500 notes

Tempo 30~280

Display Backlit LCD Connectors

TRIGGER INPUT Connector(DB25), PHONES, OUTPUT (R, L/MONO), PERC 1/2 , 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,

Power Supply

DC 9V, 500mA

Dimensions

125(W) X 220 (L) X 55 (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
2	Funk
3	Standard
4	Jazz Brush
5	Dance
6	Rock
7	Jazz
8	808
9	909
10	Funk Band
11	FX Mix
12	Power

No.	PRESET KIT
13	Latin
14	Room
15	Percussion
16	90's Power
17	Electronic
18	Reggae
19	Fusion
20	Orchestra
21	НірНор
22	Live
23	House
24	Chinese 1
25	Chinese 2

Drum Voice List

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	Vintage Kick
11	HipHop Kick
12	Reggae Kick
13	808 Kick
14	909 Kick
15	Electronic Kick
16	Power Kick
17	Dance Kick
	FX Mix Kick
18 19	Techno Kick
SNAR 20	
	14" Acoustic Snare 14" Acoustic Snare Rim
21	
22	14" Standard Snare
23	14" Standard Snare Rim
24	14" Funk Snare 1
25	14" Funk Snare Rim 1
26	14" Funk Snare 2
27	14" Funk Snare Rim 2
28	Brush Snare
29	Brush Snare Rim
30	14" Jazz Snare
31	14" Jazz Snare Rim
32	14" Rock Snare
33	14" Rock Snare Rim
34	13" Damped Snare 1
35	13" Damped Snare 2
36	13" Damped Snare 3
37	Orchestra Snare
38	Orchestra Snare Rim
39	Room Snare
40	Room Snare Rim
41	Fusion Snare
42	Fusion Snare Rim
43	Big Band Snare
44	Big Band Snare Rim
45	Live Snare
46	Live Snare Rim
47	Reggae Snare
48	Reggae Snare Rim
49	R&B Snare
50	R&B Snare Rim
51	808 Snare

	T
52	808 Snare Rim
53	909 Snare
54	909 Snare Rim
55	Electronic Snare
56	Power Snare
57	Dance Snare
58	Dance Snare Rim
59	House Snare
60	House Snare Rim
61	Techno Snare
62	Techno Snare Rim
63	Acoustic Snare Stick
64	Standard Snare Stick 1
65	Brush Snare Stick
66	Standard Snare Stick 2
67	Rock Snare Stick 1
68	Rock Snare Stick 2
69	Live Snare Stick
70	Room Snare Stick
71	Fusion Snare Stick
72	808 Snare Stick
73	909 Snare Stick
74	Electronic Snare Stick
75	House Snare Stick
76	Techno Snare Stick
77	Brush Swirl
IOM	
TOM 78	Acoustic Tom 1
	Acoustic Tom 1 Acoustic Tom 1 Rim
78	Acoustic Tom 1 Rim
78 79	Acoustic Tom 1 Rim Acoustic Tom 2
78 79 80 81	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim
78 79 80 81 82	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3
78 79 80 81 82 83	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Acoustic Tom 3 Rim
78 79 80 81 82 83 84	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Acoustic Tom 3 Rim Acoustic Tom 4
78 79 80 81 82 83 84 85	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
78 79 80 81 82 83 84 85	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
78 79 80 81 82 83 84 85 86 87	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
78 79 80 81 82 83 84 85 86 87	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 Brush Tom 1
78 79 80 81 82 83 84 85 86 87 88	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 Brush Tom 1 Brush Tom 1 Rim
78 79 80 81 82 83 84 85 86 87 88	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 Brush Tom 1 Brush Tom 1 Rim Brush Tom 2
78 79 80 81 82 83 84 85 86 87 88 89 90 91	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 Brush Tom 1 Brush Tom 1 Brush Tom 2 Brush Tom 2 Rim
78 79 80 81 82 83 84 85 86 87 88 89 90 91	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 Brush Tom 1 Brush Tom 1 Brush Tom 2 Brush Tom 2 Rim Brush Tom 3
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92	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 Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Brush Tom 3 Brush Tom 3 Brush Tom 3 Rim
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Acoustic Tom 4 Rim Acoustic Tom 5 Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Brush Tom 3 Brush Tom 3 Rim Brush Tom 4
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Acoustic Tom 4 Rim Acoustic Tom 5 Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Brush Tom 3 Brush Tom 3 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 4
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Acoustic Tom 4 Rim Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Brush Tom 3 Brush Tom 3 Brush Tom 4 Rim Funk Tom 1
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Rim Acoustic Tom 4 Rim Acoustic Tom 5 Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 2 Rim Brush Tom 3 Brush Tom 3 Rim Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 1 Frunk Tom 1 Funk Tom 1
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	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 Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Brush Tom 3 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 1 Brush Tom 1 Brush Tom 3 Brush Tom 1 Brush Tom 3 Brush Tom 1
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	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 Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Rim Brush Tom 3 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 2
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	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 Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Rim Brush Tom 3 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 2 Funk Tom 2 Funk Tom 2 Funk Tom 2 Funk Tom 3
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Acoustic Tom 4 Rim Acoustic Tom 5 Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Rim Brush Tom 3 Rim Brush Tom 4 Brush Tom 4 Rim Frunk Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 1 Funk Tom 2 Funk Tom 2 Funk Tom 3
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102	Acoustic Tom 1 Rim Acoustic Tom 2 Acoustic Tom 2 Rim Acoustic Tom 3 Rim Acoustic Tom 3 Rim Acoustic Tom 4 Acoustic Tom 4 Rim Acoustic Tom 5 Rim Brush Tom 1 Brush Tom 1 Rim Brush Tom 2 Brush Tom 3 Rim Brush Tom 3 Rim Brush Tom 4 Brush Tom 4 Brush Tom 4 Brush Tom 1 Funk Tom 2 Funk Tom 2 Funk Tom 3
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105	Funk Tom 5 Rim
106	Jazz Tom 1
107	Jazz Tom 1 Rim
108	Jazz Tom 2
109	Jazz Tom 2 Rim
110	Jazz Tom 3
111	Jazz Tom 3 Rim
112	Jazz Tom 4
113	Jazz Tom 4 Rim
114	Jazz Tom 5
115	Jazz Tom 5 Rim
116	Fusion Tom 1
117	Fusion Tom 2
118	Fusion Tom 3
119	Fusion Tom 4
120	808 Tom 1
121	808 Tom 2
122	808 Tom 3
123	808 Tom 4
124	808 Tom 5
125	808 Tom 6
126	808 Tom Fx 1
127	808 Tom Fx 2
128	909 Tom 1
129	909 Tom 2
130	909 Tom 3
131	909 Tom 4
132	909 Tom 5
133	909 Tom 6
134	Electronic Tom 1
135	Electronic Tom 2
136	Electronic Tom 3
137	Electronic Tom 4
138	Electronic Tom 5
139	Electronic Tom 6
140	Power Tom 1
141	Power Tom 2
142	Power Tom 3
143	Power Tom 4
144	Power Tom 5
145	Power Tom 6
146	90's Power Tom 1
147	90's Power Tom 2
148	90's Power Tom 3
RIDE	9031 OWEL TOTAL
149	21" Acoustic Ride
150	21" Acoustic Ride Edge
151	21" Acoustic Ride Bell
	Brush Ride
152	
153	20" Funk Ride
154	20" Funk Ride Edge
155	20" Funk Ride Bell
156	20" Rock Ride
157	20" Rock Ride Edge

159 808 Ride 160 20" Room Ride 161 20" Room Ride Edge 162 20" Room Ride Bell 163 House Ride 164 House Ride Edge 165 House Ride Bell 166 Lo-Fi Ride Edge 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 1 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 1 176 Funk Crash 1 177 Funk Crash 2 179 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 2 183 Rock Crash 2 184 808Crash 1 185 909Crash 2 187 Electronic Crash 1 188		
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161 20" Room Ride Edge 162 20" Room Ride Bell 163 House Ride 164 House Ride Edge 165 House Ride Bell 166 Lo-Fi Ride 167 Lo-Fi Ride Bell 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 1 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 2 176 Funk Crash 1 177 Funk Crash 2 178 Funk Crash 1 181 19" Jazz Crash 1 181 19" Jazz Crash 1 182 Rock Crash 2 184 808Crash 1 185 909Crash 2 184 808Crash 1 185 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 2 190	159	808 Ride
162 20" Room Ride Bell 163 House Ride 164 House Ride Edge 165 House Ride Bell 166 Lo-Fi Ride 167 Lo-Fi Ride Bell 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH To I6" Acoustic Crash 1 170 16" Acoustic Crash 2 172 16" Standard Crash 2 172 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 1 176 Funk Crash 2 177 Funk Crash 1 178 Funk Crash 2 179 Funk Crash 2 Edge 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 1 183 Rock Crash 2 184 808Crash 185 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 1 190 Orchestra Crash 3 192 Room Crash	160	20" Room Ride
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164 House Ride Bell 165 House Ride Bell 166 Lo-Fi Ride 167 Lo-Fi Ride Edge 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 2 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 2 176 Funk Crash 1 177 Funk Crash 2 178 Funk Crash 1 179 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 2 183 Rock Crash 2 184 808Crash 1 185 909Crash 2 184 808Crash 2 185 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 2 190 O	162	20" Room Ride Bell
165 House Ride Bell 166 Lo-Fi Ride 167 Lo-Fi Ride Edge 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 1 173 16" Standard Crash 1 175 Brush Crash 1 176 Funk Crash 1 177 Funk Crash 1 177 Funk Crash 1 178 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 1 183 Rock Crash 1 184 808Crash 185 909Crash 2 186 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 1 189 Orchestra Crash 1 190 Orchestra Crash 2 191 Orchestra Crash 3 192 Room Crash 193 Room Crash 194 Latin Crash 2 196 China 1 197 China 1 Edge 198 Splash 199 Splash Edge 194 Latin Crash 2 196 China 1 197 China 1 Edge 198 Splash 199 Splash Edge 194 HIHAT 200 14" Acoustic Hi-hat Edge 202 14" Acoustic Hi-hat Pedal 203 14" Acoustic Hi-hat Pedal 203 14" Standard Hi-hat Pedal 204 14" Standard Hi-hat Pedal 207 14" Standard Hi-hat Pedal	163	House Ride
166 Lo-Fi Ride 167 Lo-Fi Ride Edge 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 1 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 2 176 Funk Crash 1 177 Funk Crash 2 178 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 2 183 Rock Crash 2 184 808Crash 1 185 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 1 189 Orchestra Crash 1 190 Orchestra Crash 3 192 Room Crash 193 Room Crash Edge 194 Latin Crash 2 195	164	House Ride Edge
167 Lo-Fi Ride Edge 168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Acoustic Crash 2 172 16" Standard Crash 1 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 2 176 Funk Crash 1 177 Funk Crash 2 178 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 2 183 Rock Crash 2 184 808Crash 1 185 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 1 189 Orchestra Crash 1 190 Orchestra Crash 2 191 Orchestra Crash 3 192 Room Crash Edge 194 Latin Crash 2 195 Latin Crash 2 19	165	House Ride Bell
168 Lo-Fi Ride Bell 169 Junkyard Ride CRASH 170 16" Acoustic Crash 1 171 16" Standard Crash 2 172 16" Standard Crash 2 173 16" Standard Crash 2 174 Brush Crash 1 175 Brush Crash 2 176 Funk Crash 1 177 Funk Crash 2 178 Funk Crash 2 179 Funk Crash 2 180 19" Jazz Crash 1 181 19" Jazz Crash 2 182 Rock Crash 2 183 Rock Crash 2 184 808Crash 185 909Crash 1 186 909Crash 2 187 Electronic Crash 1 188 Electronic Crash 2 189 Orchestra Crash 1 190 Orchestra Crash 3 192 Room Crash 193 Room Crash Edge 194 Latin Crash 1 195 Latin Crash 2 196	166	Lo-Fi Ride
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	207	14" Standard Hi-hat Splash
209 Brush Hi-hat Pedal		
	209	Brush Hi-hat Pedal

210	Brush Hi-hat Splash
211	14" Rock Hi-hat
212	14" Rock Hi-hat Edge
213	14" Rock Hi-hat Pedal
214	14" Rock Hi-hat Splash
215	808 Hi-hat
216	808 Hi-hat Pedal
217	808 Hi-hat Splash
218	909 Hi-hat
219	909 Hi-hat Pedal
220	909 Hi-hat Splash
221	Dance Hi-hat
222	Dance Hi-hat Pedal
223	Dance Hi-hat Splash
PERC	CUSSION
224	Maracas
225	Metronome Bell
226	Vibra-slap 1
227	Vibra-slap 2
228	Synthesis Percussion 1
229	Synthesis Percussion 2
230	High Q 1
231	High Q 2
232	Low Q 1
233	Low Q 2
234	Mute Hi Conga 1
235	Mute Hi Conga 2
236	Open Hi Conga 1
237	Open Hi Conga 2
238	Low Conga
239	High Bongo
240	Low Bongo
241	High Timbale 1
242	High Timbale 1 Rim
243	High Timbale 2
244	High Timbale 2 Rim
245	Low Timbale 1
246	Low Timbale 2 Low Timbale 2 Rim
247	Low Timbale 2 RIM
248	Low Timbale 3
249	
250 251	High Agogo Low Agogo
252	Claves
253	Jingle Bell
254	Cowbell
255	Bell Tree
256	Tambourine
257	Cabasa
258	Long Guiro
259	Short Guiro
260	Orchestra Timp E2
261	Orchestra Timp F2
262	Orchestra Timp Gb2
202	Oronestia Timp GDZ

263	Orchestra Timp G2
264	Orchestra Timp Ab2
265	Orchestra Timp A2
266	Orchestra Timp B2
267	Orchestra Timp C3
FX	
268	FX 1
269	FX 2
270	FX 3
271	FX 4
272	FX 5
273	FX 6
274	FX 7
275	FX 8
276	FX 9
277	FX 10
278	FX 11
279	FX 12
280	FX 13
281	FX 14
282	FX 15
283	FX 16
CHIN	ESE
284	DaGu 1
285	DaGu 2
285	DaGu 2
285 286	DaGu 2 ZhuBan
285 286 287	DaGu 2 ZhuBan NanBang
285 286 287 288	DaGu 2 ZhuBan NanBang DaMuYu
285 286 287 288 289	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1
285 286 287 288 289 290	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2
285 286 287 288 289 290 291	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3
285 286 287 288 289 290 291	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4
285 286 287 288 289 290 291 292 293	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1
285 286 287 288 289 290 291 292 293 294	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3
285 286 287 288 289 290 291 292 293 294 295	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1
285 286 287 288 289 290 291 292 293 294 295 296	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2
285 286 287 288 289 290 291 292 293 294 295 296 297	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2 MangLuo 3
285 286 287 288 289 290 291 292 293 294 295 296 297 298	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2
285 286 287 288 290 291 292 293 294 295 296 297 298 299 300	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2 MangLuo 3 DaLuo 1 DaLuo 2
285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2 MangLuo 3 DaLuo 1 DaLuo 2 DaPo 1
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285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303	DaGu 2 ZhuBan NanBang DaMuYu SMuYu-1 SMuYu-2 SMuYu-3 SMuYu-4 PaiGu 1 PaiGu 2 PaiGu 3 MangLuo 1 MangLuo 2 MangLuo 3 DaLuo 1 DaLuo 2 DaPo 1 DaPo 2 XiaoPo
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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 <th></th> <th></th>		
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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 <td>16</td> <td></td>	16	
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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	18	Ele Pop2
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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	22	Latin2
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	23	Salsa1
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	24	Smoove
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		Steve Vai Funk
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	26	
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	27	Jazz1
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	28	6/8Soul1
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	29	Fusion2
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	30	Dance funk
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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	32	DJ.House
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	33	
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		
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		
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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		1
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		
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		
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		
42 Fusion3 43 Cool Jazz 44 Ballad 45 Samba2 46 Vintage Hip-Hop 47 Nu Jazz Funk 48 Soul 49 R&B4		
43 Cool Jazz 44 Ballad 45 Samba2 46 Vintage Hip-Hop 47 Nu Jazz Funk 48 Soul 49 R&B4	-	
44 Ballad 45 Samba2 46 Vintage Hip-Hop 47 Nu Jazz Funk 48 Soul 49 R&B4		
45 Samba2 46 Vintage Hip-Hop 47 Nu Jazz Funk 48 Soul 49 R&B4	-	
46 Vintage Hip-Hop 47 Nu Jazz Funk 48 Soul 49 R&B4	-	
47 Nu Jazz Funk 48 Soul 49 R&B4		
48 Soul 49 R&B4		
49 R&B4		
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	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				
E 1[28]	Slap				
F 1[29]	Scratch Push				
F#1[30]	Scratch Pull				
G 1[31]	Sticks				
G#1[32]	Square Click				
A 1[33]	Metronome Click				
Bb1[34]	Metronome Bell				
B 1[35]	Acoustic Bass Drum				
C 2[36]	Bass Drum 1	Funk Kick	Rock Kick Drum	Electric Bass Drum	Analog Bass Drum
C#2[37]	Side Stick	T GIR RICK	HOOK NICK DIGHT	Licotiic Dass Drain	Analog Rim Shot
D 2[38]	Acoustic Snare	Funk Snare 1	Rock Snare Drum1	Electric Snare 1	Analog Snare 1
Eb2[39]	Hand Clap	T UTIK STIATE T	TIOCK Share Druinn	Liectric Strate 1	Analog Clap
E 2[40]	Electric Snare	Funk Snare 2	Rock Snare Drum2	Electric Snare 2	Analog Snare 2
	Low Floor Tom	Funk LowTom2	Rock LowTom2	Electric Low Tom 2	Analog Share 2 Analog Low Tom2
F 2[41]	Closed Hi-hat	FUNK LOW IOINZ	ROCK LOW IOITIZ	Electric Low Torri 2	
F#2[42]		E white Tree4	Deale Lea Trans	Florida I a Tom 4	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	Frank Martin C	Deals MalTeria	Florated - NAC-LT - C	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	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[72]	Short Guiro	<u> </u>			
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	1			
G#5[80]	Mute Triangle	-			
A 5[81]	Open Triangle	-			
Bb5[82]	Shaker	-			
B 5[83]	Jingle Bell				
C 6[84]	Bell Tree	1			
C#6[85]	Castanets				
D 6[86]	Mute Surdo				
Eb6[87]	Open Surdo				

GM Drum Kit List

Note No.	Jazz (bank 32)	Brush (bank 40)	Orchestra (bank 48)	Dance (bank 56)
Eb1[27]			Closed Hi-hat 2	
E 1[28]			Pedal Hi-hat	
F 1[29]			Open Hi-hat 2	
F#1[30]			Ride Cymbal 1	
			Tilde Oyilibai i	
G 1[31]				
G#1[32]				
A 1[33]				
Bb1[34]				
B 1[35]			Concert BD 2	
C 2[36]	Jazz Kick 1	Brush Kick 1	Concert BD 1	Dance Bass Drum
C#2[37]				
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
		DIGGIT LOW TOTAL	Timpani G#	Dance Low Tom1
G#2[44]		Brush Mid Tom2		
A 2[45]		בווטאוו ויווט וטוווצ	Timpani A	Dance Pedal Hi-hat
Bb2[46]		Do at MALT 1	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]				<u> </u>
D 5[74]				
Eb5[75]				+
				+
E 5[76]				
F 5[77]				
F#5[78]				
G 5[79]				
G#5[80]				1
A 5[81]				
Bb5[82]				
B 5[83]				
C 6[84]				
C#6[85]				
D 6[86]				
Eb6[87]				
	1	1	Í.	1

GM Backing Instrument List

PIAN	0			
1	Acoustic Grand Piano			
2	Bright Acoustic Piano			
3	Electric Grand Piano			
4	Honky-Tonk Piano			
5	E.Piano 1			
6	E.Piano 2			
7	Harpsichord			
8	Clavi			
MALI	LET			
9	Celesta			
10	Glockenspiel			
11	Music Box			
12	Vibraphone			
13	Marimba			
14	Xylophone			
15	Tubular Bells			
16 OBC	Dulcimer			
ORG				
17	Drawbar Organ			
18	Percussive Organ			
19	Rock Organ			
20	Church Organ			
21	Reed Organ			
22	Accordion			
23	Harmonica			
24	Tango Accordion			
GUIT				
25	Nylon Guitar			
26	Steel Guitar			
27	Jazz Guitar			
28	Clean Guitar			
29	Muted Guitar			
30	Overdriven Guitar			
31	Distortion Guitar			
32	Guitar Harmonics			
BASS	3			
33	Acoustic Bass			
34	Finger Bass			
35	Pick Bass			
36	Fretless Bass			
37	Slap Bass 1			
38	Slap Bass 2			
39	Synth Bass 1			
40	Synth Bass 2			
STRI				
41	Violin			
42	Viola			
43	Cello			
44	Contrabass			
	Tremolo Strings			
45				
46	Pizzicato Strings			
47	Orchestral Harp			
48	Timpani			

	NGS ENSEMBLE
49	Strings Ensemble 1
50	Strings Ensemble 2
51	Synth Strings 1
52	Synth Strings 2
53	Choir Aahs
54	Voice Oohs
55	Synth Voice
56	Orchestra Hit
BRAS	
57	Trumpet
58	Trombone
59	Tuba
60	Muted Trumpet
61	French Horn
62	Brass Section
63	Synth Brass 1
64	Synth Brass 2
REE	
65	Soprano Sax
66	Alto Sax
67	Tenor Sax
68	Baritone Sax
69	Oboe
70	English Horn
71	Bassoon
72	Clarinet
PIPE	
73	Piccolo
74	Flute
75	Recorder
	Pan Flute
76	
76 77	Blown Bottle
77 78	Blown Bottle Shakuhachi
77	
77 78 79 80	Shakuhachi Whistle Ocarina
77 78 79 80 LEAD	Shakuhachi Whistle Ocarina
77 78 79 80 LEAD 81	Shakuhachi Whistle Ocarina Lead1 (Square)
77 78 79 80 LEAD 81 82	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth)
77 78 79 80 LEAD 81 82 83	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope)
77 78 79 80 LEAD 81 82 83 84	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff)
77 78 79 80 LEAD 81 82 83 84 85	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang)
77 78 79 80 LEAD 81 82 83 84 85	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice)
77 78 79 80 LEAD 81 82 83 84 85 86	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths)
77 78 79 80 LEAD 81 82 83 84 85 86 87	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 89	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 90 91	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm) Pad3 (Polysynth)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 90 91	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm) Pad3 (Polysynth) Pad4 (Choir)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 90 91 92 93	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm) Pad3 (Polysynth) Pad4 (Choir) Pad5 (Bowed)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 90 91 92 93	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm) Pad3 (Polysynth) Pad4 (Choir) Pad5 (Bowed) Pad6 (Metallic)
77 78 79 80 LEAD 81 82 83 84 85 86 87 88 PAD 90 91 92 93	Shakuhachi Whistle Ocarina Lead1 (Square) Lead2 (Sawtooth) Lead3 (Calliope) Lead4 (Chiff) Lead5 (Charang) Lead6 (Voice) Lead7 (Fifths) Lead8 (Bass & Lead) Pad1 (Newage) Pad2 (Warm) Pad3 (Polysynth) Pad4 (Choir) Pad5 (Bowed)

EFFE	CTS
97	FX1 (Rain)
98	FX2 (Soundtrack)
99	FX3 (Crystal)
100	FX4 (Atmosphere)
101	FX5 (Brightness)
102	FX6 (Goblins)
103	FX7 (Echoes)
104	FX8 (Sci-fi)
ETH	NIC
105	Sitar
106	Banjo
107	Shamisen
108	Koto
109	Kalimba
110	Bagpipe
111	Fiddle
112	Shanai
PER	CUSSIVE
113	Tinkle Bell
114	Agogo
115	Steel Drums
116	Wood Block
117	Taiko Drum
118	Melodic Tom
119	Synth Drum
120	Reverse Cymbal
SOU	ND EFFECTS
121	Guitar Fret Noise
122	Breath Noise
123	Seashore
124	Bird Tweet
125	Telephone Ring
126	Helicopter
127	Applause

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic Default		10ch	1-16	
Channel	Changed	×	×	
Gridinio	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	×	0	
Control	0	×	0	Bank Select
Change	1	×	0	Modulation
	5	×	0	Portamento Time
	6	×	\circ	Data Entry
	7	×	\circ	Volume
	10	×	\circ	Pan
	11	×	0	Expression
	64	×	0	Sustain Pedal
	65	×	\circ	Portamento On/Off
	66	×	\circ	Sostenuto Pedal
	67	×	\circ	Soft Pedal
	80	×	0	Reverb Program
	81	×	0	Chorus Program
	91	×	\circ	Reverb Level
	93	×	\circ	Chorus Level
	120	×	\circ	All Sound Off
	121	×	\circ	Reset All Controllers
	123	×	\circ	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	×	×	
	: Reset	×	×	

