

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 qualifie dservice personnel.

Disconnect all cables before moving the instrument.

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Main Features



PURE DRUM Technology

No matter playing the pads with softly stroke or forcefully passion grooves, with this new technology, all performances can show up extremely wide range of velocity dynamics. Perfectly express the various changes of acoustic drums, all of these let you enjoy the real delicate nuances, capture the unique characteristics of acoustic drum kit from the PURE DRUM!

PURE DRUM—Bring the Natural and Realistic Voices to Your Performance!

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

Simulating the Real Drum Pads and Cymbals

Our engineers are always keeping keen on simulating the real drum kit, this time we have redefined our previous pad designing, specialized surface material, even with superb trigger sensitivity, hand-feeling and mute function. Simulate various play effects: head/ bow shot, rim shot, ride, damper and so on. This creates a new era of digital drum.

Enjoy Playing with the USB Songs

Support directly playing songs (WAV and MP3 format) from the USB flash, even you can freely playing with the USB song, just enjoy your music.

Or play with the background music via the AUX IN terminal and instantly record/ save your perfect performance to the USB disk.

Download Your Favorite Voices to Drum Module

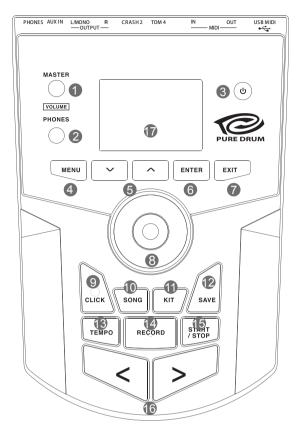
Via the USB function, you can download your favorite wave samples (no matter download from the internet or soft sound source) to digital module and use them as the internal voices. This makes your drum voices limitless any more, try and experience this exciting function.

Steady Elegant Appearance

Equipped with full lattice LCD display and data dial, sufficiently shows the professional and user experience features.

Panel & Display Description

Front Panel



1. [MASTER VOLUME] Knob

Adjust the output volume level.

2. [PHONES] Knob

Adjust the phones volume level.

3. [POWER] button

Press this button to power on/ off the module.

4. [MENU] Button

Enter menu mode.

5. [CURSOR +]/ [CURSOR -] Button

Select a specified item by moving the cursor position up/down.

6. [ENTER] Button

Enter the selected menu.

7. [EXIT] Button

Exit current menu and back to previous menu.

8. DATA DIAL

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

9. [CLICK] Button

Start/Stop the metronome, enter the metronome parameter setting.

10. [SONG] Button

Enter Song mode.

11. [KIT] Button

Enter the Drum Kit mode.

12. [SAVE]Button

Save the drum kit/ pad settings.

13. [TEMPO] Button

Adjust the tempo value.

14. [RECORD] Button

Enter the quick record mode.

15. [START/STOP] Button

Start/ Stop playing back songs.

16. [<]/ [>] Button

Gradually increasing or decreasing the parameter value, also can be used to select kit, pad, and song parameters.

17. LCD Display

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

Rear Panel 22 23 24 18 19 6 VOLUME ENTER EXIT 6 6 27 # 9 O START / STOP 6 6

18. USB Terminal

Use this when you want to connect a PC/laptop or USB host device.

Note: Only transmit MIDI data.

19. MIDI Terminal (IN, OUT)

Use this to connect extra MIDI sequencer, transmit MIDI data.

MIDI IN Connector: receive MIDI data; you can receive MIDI data from an extra MIDI device or a PC/laptop.

MIDI OUT Connector: send MIDI data; you can send MIDI data to an extra MIDI device or a PC/laptop.

20. TOM 4 jack (1/4")

This allows you to connect additional Tom 4.

21. CRASH 2 jack (1/4")

This allows you to connect additional Crash 2.

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

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

23. AUX IN jack (1/8")

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

24. PHONES jack (1/8")

Connect stereo headphones here. Detecting all output sounds.

25. USB Flash Drive port

Insert your USB flash drive here, and play back audio files from it. Or save setting data on it.

26. DC IN jack

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

27. TRIGGER INPUT CONNECTOR terminal

Connect the included dedicated cable to this connector, and use it to connect the pads and pedals.

LCD Display



1. Menu Item

Display the current menu, such as "KIT", "VOICE", "SONG", "TRIGGER", "UTILITY" and so on.

2. Trigger Pad Name

Display current selected Trigger pad name, such as "KICK", "SNARE", "SN-R", "TOM1", "T1-R" and so on.

3. Prompt Move Cursor Up/ Down

Prompt to view more parameters by pressing cursor up/down button.

Prompt Enter

Prompt that you can enter current menu item for more settings.

4. External Device

Indicate external device when it is correctly connected.

5. Strength of the pad strike

Display the strength of the pad you strike.

6. The Main Parameter Information

Display current main parameter information, as the picture shows.

7. Detailed Parameter Value

Corresponding to main parameter, list detailed parameters.

Caution!

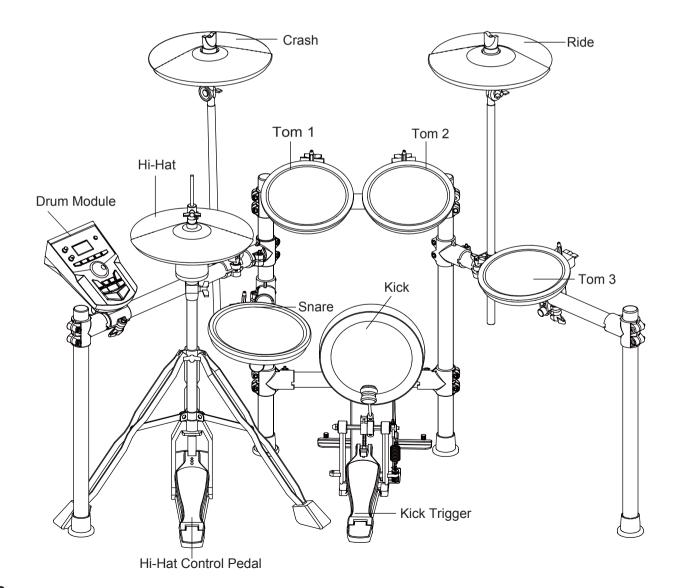
To prevent electric shock and damage to the device, make sure the power is switched OFF on the drum and all related device before making any connection.

Connect the Pads and the Pedals

Standard configuration: KICK, SNARE (Dual-zone trigger), TOM 1~3(Dual-zone trigger), CRASH1 (Dual-zone trigger with choke), RIDE (Triple-zone trigger with choke), HI-HAT (Dual-zone trigger), HI-HAT CONTROL PEDAL.

Note:

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



Getting Ready to Play

Setting up the Power Supply

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

Note:

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

Turning the Power On/Off

Turning the power on

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

- 1. Turn both the [VOLUME] knobs always to minimize the volume.
- 2. Press the [POWER] button.
- **3.** Turn the amplifier or audio system on, or listen to the headphones.
- **4.** Striking the pads and adjust the volume by slowly turning the [PHONES VOLUME] and [MAIN VOLUME] knob towards the right direction. Keep turning until you get an appropriate value.

Turning the power off

- 1. Minimize the volume of the module and audio device.
- 2. Turn the connected external audio device off.
- **3.** Keep pressing the [POWER] button until the power is turned off.

Hint.

You can restore the factory set by following steps:

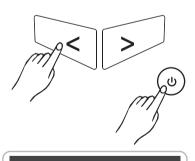
- a) Press the [<] and [>] buttons simultaneously.
- b) Press [POWER] button.
- c) Until the LCD displays "FactoryResetting...". Complete reset operation, the module will return to the KIT MENU.

About the Auto Power Off Function

For purpose of energy conservation and environmental protection, this function automatically turns the power off if there isn't any operation (eg, playing, striking, button pressing and so on) for about 30 minutes. You can enable or disable this function as you like. Refer to *Utility Settings*.





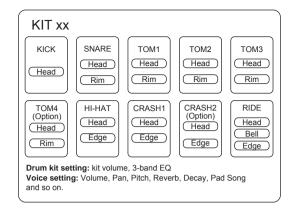




Drum Kits and Voices

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

The structure of a drum kit showed on the right:



Selecting a Drum Kit

1. Press the [KIT] button, enter drum kit menu.

The screen shows on the right:

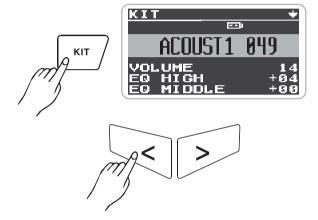
 Press the [<]/ [>] button or data dial, select your desired drum kit. (Refer to *Drum Kit List*)

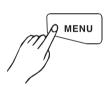
Selecting a Voice

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

- 1. In the KIT menu, press the [MENU] button. Select the "VOICE" item and then press the [ENTER] button to enter the voice menu. The screen display is shown on the right:
- 2. Strike the pad you want.

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









Playing Techniques

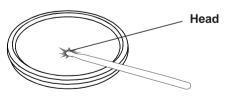
This section introduces various performance functions to make your performance professional. Similar to an acoustic drum kit, the digital drum responds differently to various playing techniques and dynamics. All the pads are velocity sensitive. And some voices change timbre depending on the striking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

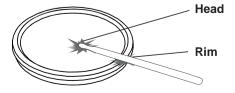
Pad

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

Head Shot

Strike only the head of the pad.





Rim Shot

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

Cymbal

Cymbal Bow Shot

Strike the middle area of the cymbal. As shown in the figure.

Cymbal Edge Shot

Strike the edge area of the cymbal. As shown in the figure.

Cymbal Bell Shot

Strike the bell area of the cymbal. As shown in the figure.

Choke Play

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

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

Hi-Hat

Hi-Hat Pedal Change

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

Open Hi-Hat

Strike the Hi-Hat pad without pressing the pedal.

Closed Hi-Hat

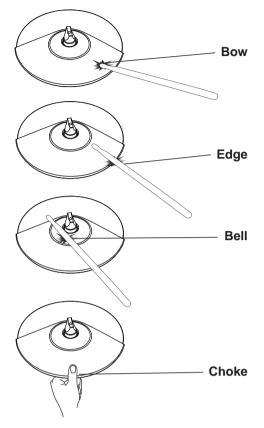
Strike the Hi-Hat pad with the pedal pressed completely down.

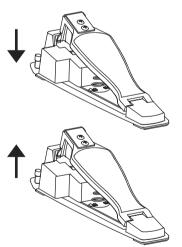
Hi-Hat Pedal

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

Splash

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





Select a Preset Drum Kit and Create a User Drum Kit

About the Preset and User Drum Kit

From no.1 to 50 are preset drum kits, and the drum kits from no.51 to 70 are user drum kits. You can edit the parameters of drum kit (from no.1-70), and save them into user drum kits (from no.51-70).

Note:

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

Edit the Drum Kit Parameters

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

1. Press the [KIT] button, the LCD displays the first page of kit menu.

Press the [KIT] button again will quickly enter the user drum kit menu: KIT51.

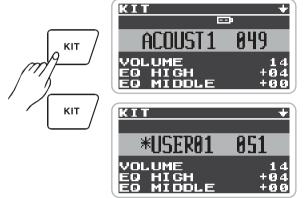
Note:

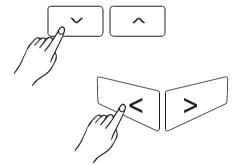
The character "*", in front of the kit name, indicates that the data of user kit still keep the default value even after the reset operation. (Please refer to the *Kit List*)

2. Press the $\lceil \land \rceil / \lceil \lor \rceil$ button to select the item that you want to edit.

Parameter	Value	Description
KIT NAME	Preset: 1~50	Drum kit selection.
	User: 51~70	
VOLUME	0~16	Adjust the volume of drum kit; the volume
		of each pad will be changed.
EQ HIGH	-12(dB)~12(dB)	Adjust the gain (amplitude change) in the
		EQ high frequency band.
EQ MID	-12(dB)~12(dB)	Adjust the gain (amplitude change) in the
		EQ middle frequency band.
EQ LOW	-12(dB)~12(dB)	Adjust the gain (amplitude change) in the
		EQ low frequency band.

3. Use the [<]/ [>] button or data dial to adjust parameter value.

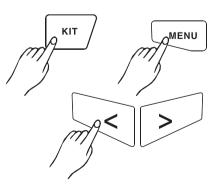




Edit the Voice Parameters

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

- Press the [KIT] button, and then press the [MENU] button later.
 Use the [∧]/ [∨] button to select the "VOICE" item, press the [ENTER] button to enter VOICE menu.
- 2. Press the [\lambda] button and use data dial or [<]/[>] button to select the pad that you want to edit. Or you can directly strike the specified pad.
- **3.** Press the $\lceil \land \rceil / \lceil \lor \rceil$ button to select the item that you want to edit.

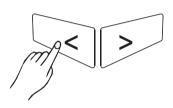


Parameter	Value	Description
TRIGGER	KICK, SNARE, SN-R,	Select the trigger input.
	TOM1, T1-R	
VOICE NAME	1~628, U01~U99	Select a voice. The U01~U99
		represent user voice which
		download form USB flash drive.
VOLUME	0~16	Adjust the volume of voice.
PAN	-8~ +8	Adjust the pan of voice.
PITCH	-8~ +8	Adjust the pitch of voice.
REVERB	0~16	Adjust the reverb of voice.
DECAY	-5~0	Adjust the decay of voice.
PAD SONG	Off, 1-120	Switch the pad song on/off and
		choose the song number.

About the User Voice

You can download the wave samples which you like from USB flash drive into the module. We call them as "User Voice". The "User Voice" were used as same as the Preset Voices in module.

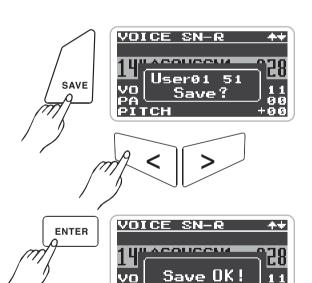
1. Use the [<] / [>] button or data dial to adjust parameter value.



Save User Drum Kit

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

- **1.** While in the drum kit and voice edit menu, pressing the [SAVE] button to enter user drum kit saving page.
- 2. Use the [<]/ [>] button or data dial to select a user drum kit. Press the [ENTER] button to confirm save operation.
- **3.** Temporally display "Save OK!" about 2~3 seconds, and then back to KIT.



Note:

The character "*"in front of the kit name will disappear after saving.



Playing Along With a Song

There are up to 120 songs with variety of styles, including 70 Patterns, 10 Hits, 40 Taps, and 5 User 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 selection menu.

Parameter	Value	Description
NUMBER	1~125	The number of songs:
	U01~U99	1~60: Preset Patterns.
		61~70: Preset Percussion loop.
		71~80: Preset Hit
		81~120: Preset Tap
		121~125: User Song.
		U01~U99: WAV/MP3/MIDI files from SONG
		folder on the USB.
ACCOM VOL	0~16	Accompaniment volume.
DRUM VOL	0~16	Drum volume.

- **2.** Press the $[\land]/[\lor]$ button to select the item that you want to edit. Use the [<]/[>] button to adjust parameter value.
- 3. Press the [START/STOP] button to play/stop songs.
- **4.** In SONG menu, press the [SONG] again, switch between preset and USB flash drive songs.

 The menu of USB flash drive song:

Press the [START/STOP] button to play back WAV, MP3 or MIDI files. The buttons [\land]/ [\lor] and [<]/ [>] are used to move the cursor position.

Temporally display "Processing...", and then begin playing the selected song, the first line displays time or beat.

- **5.** In the SONG menu, press the [MENU] button to enter SONG MENU. Press the $[\land]/[\lor]$ button to select the item that you want to edit.
- **6.** Press the [\lambda]/[\lambda] button to select the "USB FOLDER" item, and then press [ENTER] button to display the folders of USB flash drive, open folders and display the song files (It will auto back to this folder even being switched to other menu.).

The module will load the songs from the default folder "SONG" in USB flash drive. Please accord to the operations above to enter related folder,if the mp3 songs located at other folder. Up to 99 MP3/ WAV/ MIDI songs can be displayed in a folder. If you have more than 99 MP3/ WAV/ MIDI songs on USB flash drive, please arrange them in different folders.











Format requires:

- 1. MIDI SONG: SMF 0, track number should be less than 16, PPQN ≤480, MIDI file size ≤128k byte.
- 2. WAV: Bit rates : ≤ 1536kbps, Sampling rates: ≤ 48kHz
- 3. MP3: Bit rates: ≤320kbps, Sampling rates: ≤48kHz.
- 4. Besides above formats, there will pop up an error message.

Metronome

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

Starting/ Stopping the Metronome

1. Press the [CLICK] button.

The metronome starts playing, and the button light will blink at the current tempo. (Current time signature will be displayed on top of LCD.)

Press the [∧]/[∨] button to select the item that you want to edit.
 Use the [<]/[>] button or data dial to adjust parameter value.

Parameter	Value	Description
TIME	0-9/2, 0-9/4,	Adjust the time signature.
SIGNATURE	0-9/8, 0-9/16	
VOLUME	0~16	Adjust the volume of metronome.
INTERVAL	1/2,3/8,1/4,1/8,	Adjust the rhythm interval.
	1/12,1/16	
CLICK NAME	METRO,	Select metronome voice which you
	CLAVES,	want. There are totally 6 metronome
	STICKS,	voice types.
	COWBELL,	
	CLICK, VOICE	
OUTPUT	PHONES	Select the destination of metronome
	ALL (PHONES+	output.
	OUTPUT)	

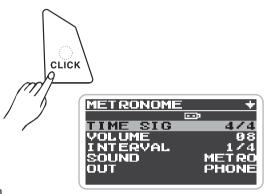
3. Press the [CLICK] button again to stop the metronome, the light will be off, and the display will return to the screen before entering CLICK MENU.

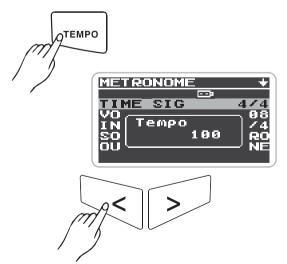
Adjusting the Tempo Value

- 1. Press the [TEMPO] button.
- 2. Use the [<]/ [>] button or data dial to adjust parameter value.

Note:

Temporally display tempo value about 3 seconds, automatically back to the original mode.





Record

In this chapter, we will introduce how to use this digital drum to record your own performance.

There are two methods to record: record as MP3 format or MIDI format.

- a) When using an USB flash drive, auto record your own performance as MP3 files, up to 99 user songs can be recorded to an USB flash drive.
- b) Without an USB flash drive, auto record your own performance as MIDI files, up to 5 user songs can be recorded in this drum module flash drive.

About how to prepare and start recording, please refer to the details bellow:

Prepare Recording

Before recording a song, you can preset these parameters as you like: Tempo, Kit, Time Signature, Interval and Song if background music needed.

After [RECORD] button pressed, please choose one position from USER SONG 121~125 to save the recorded song.

If the USB flash drive has been plugged, the recorded song will be mp3 format and will be automatically saved to the USB flash drive.

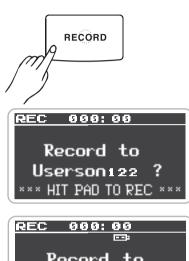
Start / Stop recording

- You can start recording in real time while in the prepare recording menu, there are two ways to start recording: Press the [START/STOP] button. Strike one pad.
- 2. If you want to exit recording in the prepare recording menu, just one way as below. Press the [RECORD] button again.

Note:

- In Song menu, press the [RECORD] button, recording performance with accompaniment playing.
- In Kit menu, press the [RECORD] button, only recording your drum part performance.
- **3.** While recording, the [RECORD] button keeps lighting all the time and "RECORDING--" displays on the LCD.
- 4. Press the [START/STOP] button again to stop recording, and the [RECORD] button light will be off.

The recordings will be saved and the LCD displays "Saving...". When saved successfully, the system will return to record folder.













The Drum Pad Triggers Settings

About the Drum Pad Trigger Settings

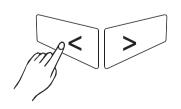
As a professional drummer, you may be very pleased to set your drum triggers carefully corresponding to your playing habits and feelings, making your performance more interesting and professional. In the meantime, your digital drum will be more operable.

- 1. In the KIT menu, select the "TRIGGER" item.
- Press the [∧]/[∨] button to select the trigger parameters that you want to edit.

The drum pad trigger settings are shown below:

If you adjust the sensitivity parameter to a high value, even a soft strike can produce loud sound if you adjust the sensitivity parameter to a low value, even heavy strikes only produce low sound. Adjust the sensitivity parameter to a low value, even heavy strikes only produce low sound. Adjust that he adjust the disturbance between head and rim shot. The threshold of the pads means a specified signal level, and only the trigger signal above it can be sounded. This setting can prevent some unwanted sounding , such as crosstalk from other pads and so on. For example, B will sound but A and C will not sound. If it is set to a high value, no sound may be heared when strike lightly. You can adjust threshold like this: 1. Firstly set it to a low value; 2. Raise the value a little, then strike the pad to check and adjust; 3. Repeat step2 until the most suitable setting for performance has been achieved. XTALK 1~16 Crosstalk' means when one pad is hitted, another pad would also be triggered, which should be avoided. "XTALK" setting is set for that. Usually this may happen when two pads sit on the same stand. Sometimes crosstalk may be effectively prevented by increasing the distance between two pads. For example: If you hit the snare pad and the tom 1 also sounds. Striking the snare pad, and listen whether there is any sound from Tom 1. If yes, raise Tom1's "XTALK" value, and repeat this adjusting again until no crosstalk. Note: Be careful and don't set "XTALK" to high. Because in this situation, when two pads are hitted at the same time, the one which is striked gently may be judged as a "crosstalk" and not sound. So it is best to set "XTALK" to the minimum value required to prevent crosstalk. CURVE 1~6 You can control the relation between striking force and response volume by this setting. Adjust the "ctriggering", which means that when you strike a pad once, maybe you can hear two hits coming from one strike. This may happen when pad vibrating. Adjust the "Retrigger Cancel" value and strike the	Parameter	Value	Description
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MIDI NOTE 0~127 MIDI output key mapping			
SPLASH SENS 1~5 Splash sensitivity. The higher value makes the splash easier	MIDI NOTE	0~127	
C. E. C. 1. C. 1. C. 1 C. 1. C	SPLASH SENS	1~5	Splash sensitivity. The higher value makes the splash easier.

- 3. Striking the specified pad, select the pad that you want to edit.
- **4.** Use the [<] / [>] button or data dial to adjust the parameter value. When the LCD displays "--", it means these parameter values are fixed and unchangeable.



The Drum Pad Triggers Settings

Note:

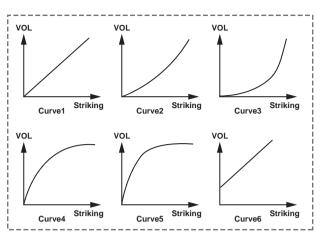
The Curve descriptions are shown below:

Curve 1: The most natural setting. There is a linear change between playing dynamics and volume response.

Curve 2, 3: Compared to Curve 1, heavily strikings make greater change.

Curve 4, 5: Compared to Curve 1, gentle strikings make greater change

Curve 6: Even a soft strike can make strong volume, and the range of dynamic response is small. Especially when a drum trigger is used as an external pad, reliable triggering can be made.

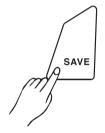


Save the Drum Pad Trigger Settings

Press [SAVE] button in TRIG menu to save your settings before turn off the power. Otherwise the settings you've edited will be lost.

Note:

Parameter settings above are efficient to all drum kits.

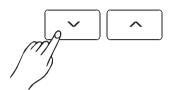


Utility Settings

1. In the KIT menu, select the "UTILITY" item.

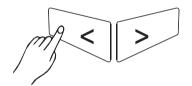


2. Press the [\land]/ [\lor] button to select the utility parameters that you want to edit.



Parameter	Value	Description	
GM MODE	ON/OFF	ON: The channel 10 will respond GM drum kit.	
		OFF: The channel 10 will respond local drum kit.	
LOCAL CTRL	ON/OFF	Describe the connection state about pad signal and internal sequencer with internal sound generator.	
		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.	
		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.	
L-R EXCHANG	ON/OFF	Exchange the left and right pad position.	
		R: Normal settings.	
		L: You can exchange the left and right pad position to satisfy the left-hand player.	
AUTO POWER	30, 60 ,OFF	Factory settings, approximately 30 minutes.	
		30: Automatically turns the power off if no operation for approximately 30 minutes.	
		60: Automatically turns the power off if no operation for approximately 60 minutes.	
		OFF: The power will not power off automatically.	

3. Use the [<] / [>] button or data dial to adjust the parameter value.



Using USB Flash Drive (USB Memory)

The USB flash drive function contains:

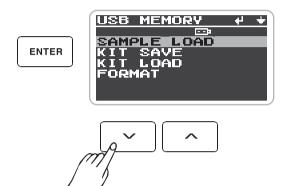
- Sample/ Kit load or save. Transmit data between USB flash drive and drum module.
- 2. Format, Format the USB flash drive.

Note:

This digital drum supports 4G~64G USB flash drive which in FAT format. Brand Kinston and SanDisk are suggested.

- In the KIT menu, select the "USB MEMORY" item.
 Press the [ENTER] button, enter to the USB flash drive menu.
- **2.** Press the [\land]/ [\lor] button to select the USB flash drive function that you want.

Parameter	Description	Remarks
SAMPLE	Download wave samples to	See the note below.
LOAD	drum module from the	
	external USB flash drive.	
KIT SAVE	Save a user kit data of drum	The saved file name is
	module to the external USB	MyKitxxx.kit.
	flash drive.	
KIT LOAD	Save back a user kit data of	Transmit the MyKitxxx.kit
	USB flash drive to the drum	file from the USB flash
	module.	drive to the drum module.
FORMAT	Format the USB flash drive.	Strongly recommend
		formatting the USB flash
		drive once before using it.



Sample Load

Wave sample on the USB flash drive can be downloaded/saved to the drum module in this function. These voices are called user voices.

- **1.** There is no limitation of sample capacity except exceeding internal memory. Sample's size can reach to 15M Byte.
- **2.** Requirement of Sample wav's format: mono 16 bit, 48k / 44.1k / 32k / 22.05k / 11.025k rate.
- Samples in internal memory can only be deleted as a whole. One sample deleting is not permitted except that there is only one sample.
- Both loaded samples and preset voices can be used in the same way.

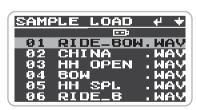
Enter the "SAMPLE LOAD" interface. The LCD will list all wave files (.wav) which under the sample catalogue. It can display 99 files at most.

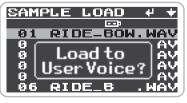
Select a sample from the USB flash drive:

Press the [ENTER] button to enter load interface:

Press the [ENTER] button again:









Note:

Loading speed is about XX minutes/MB. More time will be taken when loading larger samples. Please be patient when loading samples. If loading failed, message "Unsupported file" will be displayed on the LCD when the format is not supported.

Kit Save

User kits of the drum module can be saved to a USB flash drive in this function.

Enter the KIT SAVE interface; the LCD displays kit number and name.

Note:

If currently selected kit name is blank, it indicates this kit doesn't exist and can be used to save a user kit.

Up to 99 kits can be saved in one folder on the USB flash drive.

Press the [ENTER] button to confirm your selection.

User kit is named "MYKITXXX" in default, and it is unchangeable.

Kit Load

User kits can be loaded from a USB flash drive to drum module in this

Enter the load interface, and the LCD will list kit files (.kit) which under the kit catalogue.

Press the [ENTER] button to confirm your selection.

Select a user kit position to load, and press the [ENTER] button to confirm your selection.

The pop-up box will disappear after a successfully loading, and you can continue downloading other kits.

Format

A USB flash drive can be formatted in this function. All data in this USB flash drive will be erased, so please backup important data before formatting.

Press [EXIT] button to exit the format menu. Or press [ENTER] button to the next step.

Press [ENTER] button again to confirm your selection.



















ENTER





Factory Set

In this factory set menu, you can initialize all Kit, Song, and Voice settings individually.

- 1. In the KIT menu, select the "FACTORY SET" item.
- **2.** Press the $[\land]/[\lor]$ and [ENTER] button to select the factory setting that you want to edit.

Parameter	Description
KIT	Only initialize user kit settings.
SONG	Only initialize user songs.
VOICE	Only initialize user voices.
PAD SETTING	Only initialize pad settings.
ALL	Initialize all (above four) user settings.

Press [EXIT] to exit the factory set menu. Or press [Enter] to the next step.

After temporal displaying of "Reset OK", it will return to factory set menu.











ENTER

About MIDI

MIDI(Musical Instrument Digital Interface) is a standard which describes the rules and transmission among all kinds of MIDI devices, including computers. Connecting a digital drum to a computer with a MIDI cable, various instrument can be selected and played, and they also can be played in ensemble.

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).

Making the MIDI Settings

In the KIT menu, select the "UTILITY" item (Please refer to *Utility Settings* chapter). Press the $[\land]/[\lor]$ button to select the "LOCAL CTROL" or "GM MODE" item.

Use the [+] / [-] button or data dial to set the local control/ GM mode to ON or OFF.

MIDI Settings	
LOCAL CTRL	ON/OFF
GM MODE	ON/OFF

Local Control

Local OFF: The connection from pads and internal sequencer to internal sound generator is cut off. When pads are hitted, no sound will be generated by internal sound generator.

Local ON: The connection from pads and internal sequencer to internal sound generator is on. When pads are hitted, sound will be generated by internal sound generator.

GM Mode

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

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/ Step on the pedal of your digital drum.
- 4. Stop recording. Locate your sequencer to the start of your recording.
- 5. Playback the recorded song.

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

Each drum kit has its own settings of MIDI note which can be transmitted/received by each pad, and is very useful for advanced purpose. Normally, we don't recommend changing them, but it still can be changed by following steps:

- Press the [KIT] button and then [MENU] button, and use [\(\)] / [\(\)] to enter the TRIG menu.
- **2.** Press the $[\land]/[\lor]$ button, select MIDI Note parameter.
- 3. Use the [<] / [>] button or data dial; change the MIDI Note Number for each pad. Press the [∧] button and use the [<]/[>] button or data dial to select the pad that you want to edit.Or you can directly strike the specified pad.
- 4. Press the [SAVE] button to save the trigger settings.

Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note
Kick	36	Tom2 Rim	47	Ride Edge	59	Hi-Hat Open	46
Snare	38	Tom3	43	Ride Bell	53	Hi-hat Edge Open	26
Snare R	40	Tom3 Rim	58	Crash1	49	Hi-Hat Close	42
Tom1	48	Tom4	41	Crash1 Edge	55	Hi-hat Edge Close	22
Tom1 Rim	50	Tom4 Rim	39	Crash2	57	Hi-Hat pedal	44
Tom2	45	Ride Bow	51	Crash2 Edge	52	Splash	21

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 kit which you select on panel.

Note:

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

Troubleshooting

Problem	Possible Cause and Solution
No sound	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	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	To be sure that the metronome is turned on.
	2. To be sure not set the volume of the click to 0.
The Pad volume doesn't match the Song	Adjust the song playback volume to match the pad volume.
playback volume.	
Cannot connect to the computer	Make sure that the USB has been correctly connected.
	2. Do the connection again (Keep the computer on, and then
	turn the module on, connect the USB cable).

Prompt Messages

Message	Meaning
MEMORY FULL!	The memory of user voice is full when loading samples.
NO SONG FOLDER!	There is no song folder on USB flash drive.
NO SONG!	No song in related song folder on USB flash drive.
NO SAMPLE!	There is not any sound sample in the VOICE folder on USB flash drive.
UNSUPPORTED FILE!	Unsupported file on USB flash drive.
NO USB MEMORY!	USB flash drive is not recognized.
NO KIT!	No kit data in KIT folder on USB flash drive.
RECORD FULL!	Internal memory is full when recording into internal user song.
USB DRIVE ERROR!	The USB flash drive can't be recognized or the object was plugged on USB
PRESS EXIT TO CONTINUE!	MEMORY port caused short-circuit.

Specifications

Maximum Polyphony

64

Drum kits

Kit: 70 (50 Presets + 20 Users) **GM Drum Kit:** 9 GM Drum Kits

Instruments

Preset voice: 628 (Drum Voice, Percussion Voice, Effect Voice)

14 Hi-hat Combination

User voice: up to 99 samples with 16M Byte in total.

Sequencer

Preset Pattern: 120 User Song: 5

Audio files with mp3 and wav format: 99 maximum under one folder in USB flash drive.

Tick: 192 ticks per beat **Record:** Real-time Record

Data Capacity: About 6800 notes for each user song.

Tempo

30~280

Display

64 x 128 dots full lattice LCD display with backlit

Connectors

TRIGGER INPUT CONNECOR(DB25 type), TOM4, CRASH2, PHONES(1/4"), AUX IN(1/4"), USB-MIDI, USB HOST, MIDI IN, MIDI OUT, R,L/MONO

Control Buttons

Power on/off, Master Volume, Phones volume, Click, Kit, Save, Record, Song, Start/Stop, Tempo, <, >, Menu, Enter, Exit, \land , \lor .

Power Supply

DC 9V, 500mA

Module Dimensions

230 (L) x 160 (W) x 69 (H) mm

Module Weight

0.5 kg

^{*} All specifications and appearances are subject to change without notice.

Drum Kit List

No.	PRESET KIT
1	Acoustic 1
2	Funk
3	Standard 1
4	JazzBrush
5	Dance
6	Rock
7	Jazz
8	808
9	909
10	FunkBand
11	FX Mix
12	Power
13	Latin
14	Room
15	Marimba
16	Percussion1
17	Metal
18	90'sPower
19	Vibraphone
20	Indian

No.	PRESET KIT
21	African
22	Electronic
23	Reggae
24	Fusion
25	Drum & Bass
26	Pop
27	Brush
28	World
29	Orchestra
30	Ska
31	Songo
32	Lo-Fi
33	1970's
34	НірНор
35	Big Band
36	Old School
37	R&B
38	Magic
39	Live
40	House

No.	PRESET KIT
41	Jazz Latin
42	Standard 2
43	Percussion 2
44	Techno
45	Vintage
46	Junkyard
47	Acoustic 2
48	Noise
49	Studio 1
50	Studio 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	24" Jazz Kick
7	22" Rock Kick
8	Room Kick
9	Fusion Kick
10	1970's Kick
11	Vintage Kick
12	HipHop Kick
13	Reggae Kick
14	Big Band Kick
15	Old School Kick
16	Lo-Fi Kick
17	Junkyard Kick
18	Noise Kick
19	Drum & Bass Kick
20	808 Kick
21	909 Kick
	Electronic Kick
22	
23	Power Kick
24	Dance Kick
25	FX Mix Kick
26	Techno Kick
27	Magic Kick
Snare	A All A secretic One as
28	14" Acoustic Snare
29	14" Acoustic Snare Rim
30	14" Standard Snare
31	14" Standard Snare Rim
32	14" Funk Snare 1
33	14" Funk Snare Rim 1
34	14" Funk Snare 2
35	14" Funk Snare Rim 2
36	Brush Snare 1
37	Brush Snare Rim 1
38	Brush Snare 2
39	Brush Snare Rim 2
40	14" Jazz Snare
41	14" Jazz Snare Rim
42	14" Rock Snare
43	14" Rock Snare Rim
44	13" Damped Snare 1
45	13" Damped Snare 2
46	13" Damped Snare 3
47	Orchestra Snare
48	Orchestra Snare Rim
49	Room Snare
50	Room Snare Rim
51	Fusion Snare
52	Fusion Snare Rim
53	Big Band Snare
54	Big Band Snare Rim
U-T	

55	Vintage Snare
56	Vintage Snare Rim
57	Live Snare
58	Live Snare Rim
59	Reggae Snare
60	Reggae Snare Rim
61	R&B Snare
62	R&B Snare Rim
63	808 Snare
64	808 Snare Rim
65	909 Snare
66	909 Snare Rim
67	Electronic Snare
68	
	Power Snare
69	Dance Snare
70	Dance Snare Rim
71	Old School Snare
72	Old School Snare Rim
73	House Snare
74	House Snare Rim
75	Lo-Fi Snare
76	Lo-Fi Snare Rim
77	Junkyard Snare
78	Junkyard Snare Rim
79	Noise Snare
80	Noise Snare Rim
81	Drum & Bass Snare
82	Drum & Bass Snare Rim
83	Techno Snare
84	Techno Snare Rim
85	Magic Snare
86	Magic Snare Rim
87	Acoustic Snare Stick
88	Standard Snare Stick 1
89	Brush Snare Stick
90	Standard Snare Stick 2
91	Rock Snare Stick 1
92	Rock Snare Stick 2
93	Live Snare Stick
94	Room Snare Stick
95	Fusion Snare Stick
96	808 Snare Stick
97	909 Snare Stick
98	Electronic Snare Stick
99	Old School Snare Stick
100	House Snare Stick
101	Lo-Fi Snare Stick
102	Junkyard Snare Stick
103	Noise Snare Stick
104	Techno Snare Stick
105	Brush Swirl
Tom	,
106	Acoustic Tom 1
107	Acoustic Tom 1 Rim
100	
108 109	Acoustic Tom 2 Acoustic Tom 2 Rim

110	Acoustic Tom 3
111	Acoustic Tom 3 Rim
112	Acoustic Tom 4
113	Acoustic Tom 4 Rim
114	Acoustic Tom 5
115	Acoustic Tom 5 Rim
116	Acoustic Tom 6
117	Acoustic Tom 6 Rim
118	Standard Tom 1
119	Standard Tom 1 Rim
120	Standard Tom 2
121	Standard Tom 2 Rim
122	Standard Tom 3
123	Standard Tom 3 Rim
124	Standard Tom 4
125	Standard Tom 4 Rim
126	Standard Tom 5
127	Standard Tom 5 Rim
128	Standard Tom 6
129	Standard Tom 6 Rim
130	Brush Tom 1
131	Brush Tom 1 Rim
132	Brush Tom 2
133	Brush Tom 2 Rim
134	Brush Tom 3
135	Brush Tom 3 Rim
136	Brush Tom 4
137	Brush Tom 4 Rim
138	Brush Tom 5
139	Brush Tom 5 Rim
140	Brush Tom 6
141	Brush Tom 6 Rim
142	Funk Tom 1
143	Funk Tom 1 Rim
144	Funk Tom 2
145	Funk Tom 2 Rim
146	Funk Tom 3
147	Funk Tom 3 Rim
148	Funk Tom 4
149	Funk Tom 4 R
150	Funk Tom 5
151	Funk Tom 5 Rim
152	Funk Tom 6
153	Funk Tom 6 Rim
154	Jazz Tom 1
155	Jazz Tom 1 Rim
156	Jazz Tom 2
157	Jazz Tom 2 Rim
158	Jazz Tom 3
159	Jazz Tom 3 Rim
160	Jazz Tom 4
161	Jazz Tom 4 Rim
162	Jazz Tom 5
163	Jazz Tom 5 Rim
164	Jazz Tom 6
165	Jazz Tom 6 Rim

	I
166	Rock Tom 1
167	Rock Tom 1 Rim
168	Rock Tom 2
169	Rock Tom 2 Rim
170	Rock Tom 3
171	Rock Tom 3 Rim
172	Rock Tom 4
173	Rock Tom 4 Rim
174	Rock Tom 5
175	Rock Tom 5 Rim
176	Rock Tom 6
177	Rock Tom 6 Rim
178	Fusion Tom 1
179	Fusion Tom 2
180	Fusion Tom 3
181	Fusion Tom 4
182	1970's Tom 1
183	1970's Tom 2
184	1970's Tom 3
185	1970's Tom 4
186	Vintage Tom 1
187	Vintage Tom 2
188	Vintage Tom 3
189	Vintage Tom 4
190	Vintage Tom 5
191	Vintage Tom 6
192	808 Tom 1
193	808 Tom 2
194	808 Tom 3
195	808 Tom 4
196	808 Tom 5
197	808 Tom 6
198	808 Tom Fx 1
199	808 Tom Fx 2
200	909 Tom 1
201	909 Tom 2
202	909 Tom 3
203	909 Tom 4
204	909 Tom 5
205	909 Tom 6
206	909 Tom 7
207	909 Tom 8
208	Electronic Tom 1
209	Electronic Tom 2
210	Electronic Tom 3
211	Electronic Tom 4
212	Electronic Tom 5
213	Electronic Tom 6
214	Electronic Tom 7
215	Electronic Tom 8
216	Power Tom 1
217	Power Tom 2
218	Power Tom 3
219	Power Tom 4
220	Power Tom 5
221	Power Tom 6
222	90's Power Tom 1

223	90's Power Tom 2
224	90's Power Tom 3
225	90's Power Tom 4
226	90's Power Tom 5
227	90's Power Tom 6
228	Lo-Fi Tom 1
229	Lo-Fi Tom 1 Rim
230	Lo-Fi Tom 2
231	Lo-Fi Tom 2 Rim
232	Lo-Fi Tom 3
233	Lo-Fi Tom 3 Rim
234	Lo-Fi Tom 4
235	Lo-Fi Tom 4 Rim
236	Lo-Fi Tom 5
237	Lo-Fi Tom 5 Rim
238	Lo-Fi Tom 6
239	Lo-Fi Tom 6 Rim
240	Junkyard Tom 1
241	Junkyard Tom 1 Rim
242	Junkyard Tom 2
243	Junkyard Tom 2 Rim
243	Junkyard Tom 3
245	Junkyard Tom 3 Rim
246	Junkyard Tom 4
247	Junkyard Tom 4 Rim
247	Junkyard Tom 5
249	Junkyard Tom 5 Rim
250	Junkyard Tom 6
251	
	Junkyard Tom 6 Rim
252	Noise Tom 1
253	Noise Tom 1 Rim
254 255	Noise Tom 2 Pim
255	Noise Tom 2 Rim
	Noise Tom 3
257	Noise Tom 3 Rim
258	Noise Tom 4
259	Noise Tom 4 Rim
260	Noise Tom 5
261	Noise Tom 5 Rim
262	Noise Tom 6
263	Noise Tom 6 Rim
264	Techno Tom 1
265	Techno Tom 1 Rim
266	Techkno Tom 2
267	Techno Tom 2 Rim
268	Techno Tom 3
269	Techno Tom 3 Rim
270	Techno Tom 4
271	Techno Tom 4 Rim
272	Techno Tom 5
273	Techno Tom 5 Rim
274	Techno Tom 6
275	Techno Tom 6 Rim
276	Magic Tom 1
277	Magic Tom 1 Rim
278	Magic Tom 2

279	Magic Tom 2 Rim
280	Magic Tom 3
281	Magic Tom 3 Rim
282	Magic Tom 4
283 Ride	Magic Tom 4 Rim
284	21" Acquetic Pide
285	21" Acoustic Ride
286	21" Acoustic Ride Edge 21" Acoustic Ride Bell
287	22" Standard Ride
288	22" Standard Ride Edge
289 290	22" Standard Ride Bell
290	Brush Ride 1
291	Brush Ride 2
	20" Funk Ride
293	20" Funk Ride Edge
294	20" Funk Ride Bell
295	22" Jazz Ride
296	22" Jazz Ride Edge
297	22" Jazz Ride Bell
298	20" Rock Ride
299	20" Rock Ride Edge
300	20" Rock Ride Bell
301	808 Ride
302	Electronic Ride
303	Electronic Ride Edge
304	Electronic Ride Bell
305 306	20" Room Ride 20" Room Ride Edge
307	20" Room Ride Edge
308	HipHop Ride
309	20" Metal Ride
310	20" Metal Ride Edge
311	20" Metal Ride Bell
312	Old School Ride
313	Old School Ride Edge
314	Old School Ride Bell
315	House Ride
316	House Ride Edge
317	House Ride Bell
318	Vintage Ride
319	Vintage Ride Edge
320	Vintage Ride Bell
321	Lo-Fi Ride
322	Lo-Fi Ride Edge
323	Lo-Fi Ride Bell
324	Junkyard Ride
325	Junkyard Ride Edge
326	Junkyard Ride Bell
327	Noise Ride
328	Noise Ride Edge
329	Noise Ride Bell
330	22" Big Band Ride
331	22" Big Band Ride Edge
332	22" Big Band Ride Bell
333	Techno Ride
	I

334	Techno Ride Edge
335	Techno Ride Bell
Crash	recinio rade dell
336	16" Acoustic Crash 1
337	16" Acoustic Crash 1 Edge
338	16" Acoustic Crash 1 Edge
339	16" Acoustic Crash 2 Edge
340	16" Standard Crash 1
341	16" Standard Crash 1 Edge
342	16" Standard Crash 2
343	16" Standard Crash 2 Edge
344	Brush Crash 1
345	Brush Crash 2
346	Brush Crash 3
347	Brush Crash 4
348	Funk Crash 1
349	Funk Crash 1 Edge
350	Funk Crash 2
351	Funk Crash 2 Edge
352	19" Jazz Crash 1
353	19" Jazz Crash 1 Edge
354	19" Jazz Crash 2
355	19" Jazz Crash 2 Edge
356	Rock Crash 1
357	Rock Crash 1 Edge
358	Rock Crash 2
359	Rock Crash 2 Edge
360	808Crash
361	909Crash 1
362	909Crash 2
363	Electronic Crash 1
364	Electronic Crash 2
365	Orchestra Crash 1
366	Orchestra Crash 2
367	Orchestra Crash 3
368	Room Crash
369	Room Crash Edge
370	1970's Crash 1
371	1970's Crash 2
372	Old School Crash 1
373	Old School Crash 1 Edge
374	Old School Crash 2
375	Old School Crash 2 Edge
376	Vintage Crash 1
377	Vintage Crash 1 Edge
378	Vintage Crash 2 Edge
379	Vintage Crash 2 Edge
380	Lo-Fi Crash 1 Edge
381	Lo-Fi Crash 1 Edge
382	Lo-Fi Crash 2
383	Lo-Fi Crash 2 Edge
384	Junkyard Crash 1
385	Junkyard Crash 1 Edge
386	Junkyard Crash 2
387	Junkyard Crash 2 Edge
388	Noise Crash 1
389	Noise Crash 1 Edge

1	T
391	Noise Crash 1 Edge
392	Big Band Crash 1
393	Big Band Crash 1 Edge
394	Big Band Crash 2
395	Big Band Crash 2 Edge
396	Techno Crash 1
397	Techno Crash 1 Edge
398	Techno Crash 2
399	Techno Crash 2 Edge
400	Latin Crash 1
401	Latin Crash 1 Edge
402	Latin Crash 2
403	Latin Crash 2 Edge
404	China 1
405	China 1 Edge
406	Splash
-	·
407	Splash Edge
408	14" Acoustic Hi-hat
409	14" Acoustic Hi-hat Edge
410	14" Acoustic Hi-hat Pedal
411	14" Acoustic Hi-hat Splash
412	14" Standard Hi-hat
413	14" Standard Hi-hat Edge
414	14" Standard Hi-hat Pedal
415	14" Standard Hi-hat Splash
416	Brush Hi-hat
417	Brush Hi-hat Pedal
418	Brush Hi-hat Splash
419	14" Rock Hi-hat 1
420	14" Rock Hi-hat Edge 1
421	14" Rock Hi-hat Pedal 1
422	14" Rock Hi-hat Splash 1
423	14" Jazz Hi-hat
424	14" Jazz Hi-hat Edge
425	14" Jazz Hi-hat Pedal
426	14" Jazz Hi-hat Splash
427	14" Rock Hi-hat 2
428	14" Rock Hi-hat Edge 2
429	14" Rock Hi-hat Pedal 2
430	14" Rock Hi-hat Splash 2
431	808 Hi-hat
432	808 Hi-hat Pedal
433	808 Hi-hat Splash
434	909 Hi-hat
435	909 Hi-hat Pedal
436	909 Hi-hat Splash
437	Dance Hi-hat
438	Dance Hi-hat Pedal
439	Dance Hi-hat Splash
440	Lo-Fi Hi-hat
441	Lo-Fi Hi-hat Edge
442	Lo-Fi Hi-hat Pedal
443	Lo-Fi Hi-hat Splash
	ussion
444	Maracas
-7-7-7	เพลเลบสร

445	Metronome Bell			
446	Vibra-slap 1			
447	Vibra-slap 2			
448	Vibra-slap 3			
449	Synthesis Percussion 1			
450	Synthesis Percussion 2			
451	High Q 1			
452	High Q 2			
453	Low Q 1			
454	Low Q 2			
455	Mute Hi Conga 1			
456	Mute Hi Conga 2			
457	Open Hi Conga 1			
458	Open Hi Conga 2			
459	Low Conga			
460	High Bongo			
461	Low Bongo			
462	High Timbale 1			
463	High Timbale 2			
464	High Timbale 2 Rim			
465	High Timbale 3			
466	High Timbale 3 Rim			
467	Low Timbale 1			
468	Low Timbale 2			
469	Low Timbale 2 Rim			
470	Low Timbale 3 Low Timbale 4			
471 472				
472	High Agogo			
474	Low Agogo			
474	Claves Jingle Bell			
476	Cowbell			
477	Bell Tree 1			
478	Bell Tree 2			
479	Bell Tree 2 Tambourine			
480	Cabasa			
481	Long Guiro			
482	Short Guiro			
483	Indian 1			
484	Indian 2			
485	Indian 3			
486	Indian 4			
487	Indian 5			
488	Indian 6			
489	Indian 7			
490	Indian 8			
491	Indian 9			
492	Indian 10			
493	Indian 11			
494	Indian 12			
495	Indian 13			
496	Indian 14			
497	Indian 15			
498	Indian 16			
499	Indian 17			
500	African 1			

501	African 2					
502	African 3					
503	African 4					
504	African 5					
505	African 6					
506	African 7					
507	African 8					
508	African 9					
509	African 10					
510	African 11					
511	African 12					
512	African 13					
513	African 14					
514	African 15					
515	African 16					
516	Marimba C3					
517	Marimba A3					
518	Marimba C4					
519	Marimba Db4					
520	Marimba D4					
521	Marimba Eb4					
522	Marimba E54					
523	Marimba E4					
524	Marimba Gb4					
	Marimba Gb4					
525						
526	Marimba Ab4					
527	Marimba A4					
528	Marimba Bb4					
529	Marimba B4					
530	Marimba C5					
531	Marimba Db5					
532	Marimba D5					
533	Marimba Eb5					
534	Marimba E5					
535	Marimba F5					
536	Marimba Gb5					
537	Marimba G5					
538	Marimba Ab5					
539	Marimba A5					
540	Marimba Bb5					
541	Marimba B5					
542	Marimba C6					
543	Vibraphone G3					
544	Vibraphone C4					
545	Vibraphone Db4					
546	Vibraphone D4					
547	Vibraphone Eb4					
548	Vibraphone E4					
549	Vibraphone F4					
550	Vibraphone Gb4					
551	Vibraphone G4					
552	Vibraphone Ab4					
553	Vibraphone A4					
554	Vibraphone Bb4					
555	Vibraphone B4					
556	Vibraphone C5					
557	Vibraphone Db5					
551	viorapriorie Duo					

558	Vibraphone D5
559	Vibraphone Eb5
560	Vibraphone E5
561	Vibraphone F5
562	Vibraphone Gb5
563	Vibraphone G5
564	Vibraphone Ab5
565	Vibraphone A5
566	Vibraphone Bb5
567	Vibraphone B5
568	Vibraphone C6
569	Orchestra Timpani C2
570	Orchestra Timpani Db2
571	Orchestra Timpani D2
572	Orchestra Timpani Eb2
573	Orchestra Timpani E2
574	Orchestra Timpani F2
575	Orchestra Timpani Gb2
576	Orchestra Timpani G2
577	Orchestra Timpani Ab2
578	Orchestra Timpani A2
579	Orchestra Timpani Bb2
580	Orchestra Timpani B2
581	Orchestra Timpani C3
582	Orchestra Timpani Db3
583	Orchestra Timpani D3
584	Orchestra Timpani Eb3
585	Orchestra Timpani E3
586	Orchestra Timpani F3
587	Orchestra Timpani Gb3
588	Orchestra Timpani G3
589	Orchestra Timpani Ab3
590	Orchestra Timpani A3
591	Orchestra Timpani Bb3
592	Orchestra Timpani B3
593	Orchestra Timpani C4
FX	
594	FX 1
595	FX 2
596	FX 3
597	FX 4
598	FX 5
599	FX 6
600	FX 7
601	FX 8
602	FX 9
603	FX 10
604	FX 11
605	FX 12
606	FX 13
607	FX 14
608	FX 15
609	FX 16
610	FX 17
611	FX 18
612	FX 19

613	FX 20			
614	One			
615	Two			
616	Three			
617	Four			
618	Five			
619	Six			
620	Seven			
621	Eight			
622	Nine			
623	Ti			
624	Та			
625	Ei			
626	An			
627	Е			
628	Mute			
HI-HAT Combination				
629	Acoustic			
630	Funk Band			
631	Standard			
632	Jazz			
633	Jazz Brush			
633 634	Jazz Brush Rock			
634	Rock			
634 635	Rock 808			
634 635 636	Rock 808 909			
634 635 636 637	Rock 808 909 Dance			
634 635 636 637 638	Rock 808 909 Dance Marimba			
634 635 636 637 638 639	Rock 808 909 Dance Marimba Vibraphone			

Song List

No.	Name	LCD Name
PATT	ERN LOOP	
1	Blues Funk	BluesFk
2	Fusion	Fusion
3	Cool Jazz	CoolJazz
4	Ballad	Ballad
5	Samba1	Samba1
		+
6	Retro Hip-Hop	ReHipHop
7	Nu Jazz Funk	NuJazzFk
8	Soul	Soul
9	R&B	R&B
10	Big Band 1	BigBand1
11	Ska	Ska
12	Classic Rock	ClassRk
13	Hardcore Hip-Hop	HaHipHop
14	Retro Dance Pop	DancePop
15	Nu-Metal	Nu-Metal
16	Salsa	Salsa
17	Eu Hip-Hop	EuHipHop
18	Bossa Nova	Bossa
19	Fusion 2	Fusion2
20	8Beat Pop	8BeatPop
21	Jazzy Funk	JazzyFk
22	Swing Big Band	SwBiBand
23	Raggae 1	Raggae1
24	60's Pop	60'sPop
25	Retro Funk	RetroFk
26	Trance	Trance
27	Heavy Rock	HavyRock
28	Swing	Swing
29	Punk	Punk
30	8Beat 1	8Beat1
31	Disco House	DisHouse
32	3/4 Folk	3/4Folk
33	Samba 2	Samba2
34	Latin Rock	LatinRk
35	Reggae 2	Reggae2
36	Dance	Dance
37	Country Pop	CtryPop
38	Country	Country
39	Rock Ballad	RkBallad
40	DancePop	DancePop
41	Bebop	Bebop
42	Rock N'Roll	R'N'R
43	Band Jazz	BandJazz
44	Blues	Blues
45	3/4 Jazz	3/4Jazz
46	80's Metal	80'sMetl
47	Drum N'Bass	D'N'B
48	6/8 Soul	6/8Soul
49	Latin Swing	LtnSwing
50	Funk	Funk
-		+
51	Break Beat	BrkBeat
52	Latin Jazz	LtnJazz
53	TripHop	TripHop
54	Brit Pop	Britpop
55	Neo-Thrash	Neo-Thra

56	BigBand 2	BigBand2
57	Mambo	Mambo
58	Shuffle	Shuffle
59	Gtr Bossa	GtrBossa
60	Latin Dance	LtnDance
		Luibance
_	RCUSSION LOOP	la de a e e :
61	Indonesia	Indonesi
62	Latin	Latin
63	Bossa	Bossa
64	Samba	Samba
65	3/4 Pop	3/4Pop
66	Pop	Pop
67	Jazz	Jazz
68	Reggae 1	Reggae1
69	Reggae 2	Reggae2
70	Latin Rock	LtnRock
HIT		
71	New Age Tap 1	NewAgeT1
72	New Age Tap 2	NewAgeT2
73	Atmosphere Tap 3	AtmospT3
74	Atmosphere Of Celiet Tap 4	AtmCelT4
75	Polysynth Tap 5	PolysT5
76	Brass Tap 6	BrassT6
77	Pad(warm)Tap 7	WmPadT7
78	Fx Tap 8	FxT8
79	Sweep Tap 9	SweepT9
80	Rock Organ Tap 10	RkOrgT10
TAF		racigino
81	Bass Tap 1	BassT1
82	Synth Bass Tap 2	SynBasT2
83	Bass Tap 3	BassT3
84	Bass Tap 4	BassT4
85	Bass Tap 5	BassT5
86	Swing Bass Tap 6	SwgBasT6
87	Bass Funk Tap 7	BsFunkT7
88	Bass Tap 8	BassT8
89	Bass Tap 9	BassT9
	Bass Tap 10	BassT10
91	Crystal Tap 1	CrystlT1
		BrightT2
92	Brightness Tap 2	-
93	Vibraphone Tap 3	VibraT3
94	Brightness Tap 4	BrightT4
95	Sawtooth Tap 5	SawT5
96	Funk Gtslide Tap 6	FunkGtT6
97	Slap Bass Tap 7	SlapBsT7
98	Chorused Piano Tap 8	ChrPnoT8
99	Fifth Tap 9	FifthT9
100	Melody Tap 10	MeloyT10
101	Brightness Tap 1	BrightT1
102	Rain Tap 2	RainT2
103	Lead Tap 3	LeadT3
104	'	Sci-fiT4
105		SndtrkT5
106	•	FunkGtT6
107	· · · · · · · · · · · · · · · · · · ·	SlapBsT7
108		ChoruT8
109	Chorused Piano Tap 9	ChrPnoT9

110	Tenor Sax Tap 10	TeSaxT10
111	Pad Tap 1	PadT1
112	Sci-fi Tap 2	Sci-fiT2
113	Square Tap 3	SqureT3
114	FX8 Tap 4	FX8T4
115	Rain Tap 5	RainT5
116	Funk Gtcut Tap 6	FunkGtT6
117	Bass Fx Tap 7	BassFxT7
118	Chorused Piano Tap 8	ChoruT8
119	Orchestra Hit Tap 9	OrchHtT9
120	Brass Section Tap 10	BrassT10

GM Drum Kit List

No	Standard Sat/DANIKO)	Funk Cot/DANKO)	Pook Sat/PANK16)	Floatria Sat/DANK24)	Analog Cot/PANK25)
No.	Standard Set(BANK0)	Funk Set(BANK8)	Rock Set(BANK16)	Electric Set(BANK24)	Analog Set(BANK25)
Eb1[27]	High Q	←	←	<u>←</u>	←
E 1[28]	Slap Scratch Push				
F 1[29]					
F#1[30]	Scratch Pull Sticks				
G 1[31]					
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				Analog Rim Shot
D 2[38]	Acoustic Snare	Funk Snare 1	Rock Snare Drum1	Electric Snare 1	Analog Snare 1
Eb2[39]	Hand Clap				Analog Clap
E 2[40]	Electric Snare	Funk Snare 2	Rock Snare Drum2	Electric Snare 2	Analog Snare 2
F 2[41]	Low Floor Tom	Funk LowTom2	Rock LowTom2	Electric Low Tom 2	Analog Low Tom2
F#2[42]	Closed Hi-hat				Analog Closed Hi-hat
G 2[43]	High Floor Tom	Funk LowTom1	Rock LowTom1	Electric Low Tom 1	Analog Low Tom1
G#2[44]	Pedal Hi-hat				Analog Pedal Hi-hat
A 2[45]	Low Tom	Funk MidTom2	Rock MidTom2	Electric Mid Tom 2	Analog Mid Tom2
Bb2[46]	Open Hi-hat				Analog Open Hi-hat
B 2[47]	Low-Mid Tom	Funk MidTom1	Rock MidTom1	Electric Mid Tom 1	Analog Mid Tom1
C 3[48]	High Mid Tom	Funk Hi Tom2	Rock HiTom2	Electric Hi Tom 2	Analog Hi Tom2
C#3[49]	Crash Cymbal 1				Analog Cymbal
D 3[50]	High Tom 1	Funk Hi Tom1	Rock HiTom1		Analog Hi Tom1
Eb3[51]	Ride Cymbal 1				
E 3[52]	China Cymbal				
F 3[53]	Ride Bell				
F#3[54]	Tambourine				
G 3[55]	Splash Cymbal				
G#3[56]	Cowbell				
A 3[57]	Crash Cymbal 2				
Bb3[58]	Vibra-slap				
B 3[59]	Ride Cymbal 2				
C 4[60]	High Bongo				
C#4[61]	Low Bongo				
D 4[62]	Mute Hi Conga				
Eb4[63]	Open Hi Conga				
E 4[64]	Low Conga				
F 4[65]	High Timbale				
F#4[66]	Low Timbale				
G 4[67]	High Agogo		+		
G#4[68]	Low Agogo				<u> </u>
A 4[69]	Cabasa				<u> </u>
Bb4[70]	Maracas				
B 4[71]	Short Whistle				
C 5[72]	Long Whistle				
C#5[73]	Short Guiro				
D 5[74]	Long Guiro				
Eb5[75]	Claves				
E 5[76]	Hi Wood Block				
F 5[77]	LowWood Block				
F#5[78]	Mute Cuica				
G 5[79]	Open Cuica				
G#5[80]	Mute Triangle				
A 5[81]	Open Triangle				
Bb5[82]	Shaker				
B 5[83]	Jingle Bell				
C 6[84]	Bell Tree		1		
C#6[85]	Castanets				
D 6[86]	Mute Surdo		+		
Eb6[87]	Open Surdo				
⊏ոი[01]	Oben Sarao	l			1

Na	In Cat/DANI/CON	Devok O-t/DANI(40)	Ouch cotor Oct/Datas/Co	Dance Cat/DANI/CC)
No.	Jazz Set(BANK32)	Brush Set(BANK40)	Orchestra Set(BANK48)	Dance Set(BANK56)
Eb1[27]	1		Closed Hi-hat 2 Pedal Hi-hat	
E 1[28]				+
F 1[29]	1		Open Hi-hat 2	
F#1[30]	1		Ride Cymbal 1	
G 1[31]				
G#1[32]			+	+
A 1[33]			+	+
Bb1[34]			Company DD 2	+
B 1[35]	Jame Kiek 4	Davida Kiak 4	Concert BD 2	Dance Base Drives
C 2[36]	Jazz Kick 1	Brush Kick 1	Concert BD 1	Dance Bass Drum
C#2[37]	Jame Carana 4	Daviele Ten	Company CD	Dance Crare 1
D 2[38]	Jazz Snare 1	Brush Tap	Concert SD	Dance Snare 1
Eb2[39]		David Olav	Castanets	D-11-1-0
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]		D 11 T 1	Timpani F#	Dance Closed Hi-hat
G 2[43]		Brush Low Tom1	Timpani G	Dance Low Tom1
G#2[44]		D 11": = -	Timpani G#	Dance Pedal Hi-hat
A 2[45]	1	Brush Mid Tom2	Timpani A	Dance Mid Tom2
Bb2[46]	+		Timpani A#	Dance Open Hi-hat
B 2[47]		Brush Mid Tom1	Timpani B	Dance Mid Tom1
C 3[48]		Brush Hi Tom2	Timpani C	Dance Hi Tom2
C#3[49]			Timpani C#	Dance Cymbal
D 3[50]		Brush Hi Tom1	Timpani D	Dance Hi Tom1
Eb3[51]			Timpani D#	
E 3[52]			Timpani E	
F 3[53]			Timpani F	
F#3[54]				
G 3[55]				
G#3[56]				
A 3[57]				
Bb3[58]				
B 3[59]				
C 4[60]				
C#4[61]				
D 4[62]				
Eb4[63]				
E 4[64]				
F 4[65]				
F#4[66]				
G 4[67]				
G#4[68]				
A 4[69]				
Bb4[70]				
B 4[71]				
C 5[72]				
C#5[73]				
D 5[74]				
Eb5[75]				
E 5[76]				
F 5[77]				
F#5[78]				
G 5[79]				
G#5[80]				
A 5[81]				
Bb5[82]				
B 5[83]				
C 6[84]	1			
C#6[85]				
D 6[86]	1			
Eb6[87]	†			
	_1	1	I	1

GM Backing Voice List

MIDI Implementation Chart

Function		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)		
After	Key's	×	0	
Touch	Channel's	×	×	
Pitch Bend		×	0	
Control	0	×	0	Bank Select
Change	1	×		Modulation
	5	×		Portamento Time
	6	×		Data Entry
	7	×	0	Volume
	10	×		Pan
	11	×		Expression
	64	×	Ö	Sustain Pedal
	65	×	Ö	Portamento ON/OFF
	66	×		Sostenuto Pedal
	67	×	Ô	Soft Pedal
	80	×	0	Reverb Program
	81	×	Ö	Chorus Program
	91	×		Reverb Level
	93	×		Chorus Level
	120	×		All Sound Off
	121	×		Reset All Controllers
	123	×		All Notes Off
Program		\bigcirc	0	7 11 1 10100 011
_	True #	××××××	0-127	
	Exclusive	×	0	
	Song Position	×	×	
1	Song Select	×	×	
	Tune	×	×	
	Clock	0	×	
Real Time :	Commands	\bigcirc	×	START and STOP only
Aux :	Local ON/OFF	×	×	,
	All Notes OFF	×	×	
	Active Sense	×	×	
	Reset	×	×	
<u> </u>			<u> </u>	

O:YES X:NO