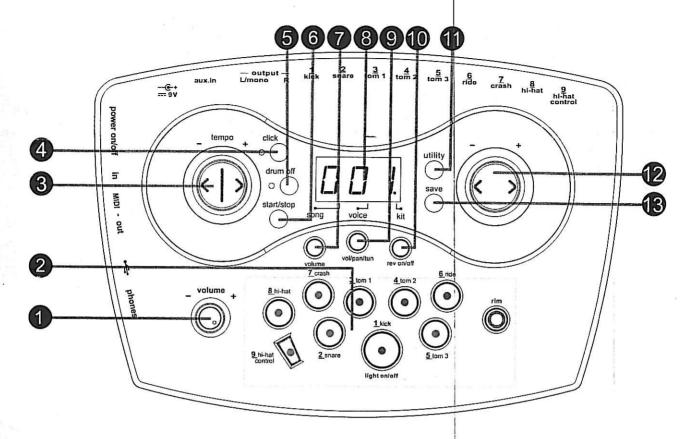
DIGITAL DRUM

Instruction Manual



Panel Controls

Front Panel



1 Master volume knob

Control the volume of phone and line output. Turn it clockwise to increase the volume and anticlockwise to decrease it.

- Pad select buttons and indicators Select current pad. When you press them, the corresponding indicator lights up.
- (3) [tempo / +] button Change current tempo.
- (4) [click] button

 Turn on or off the metronome.
- **(5)** [drum off] button and indicator
 This button is used to turn on or turn off the drum voice of song.
- 6 [start/stop] button Start or stop song playing.

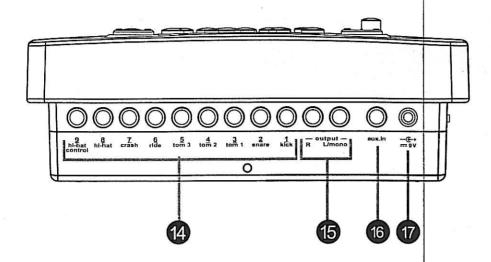
[song / volume] button

Display the song humber, accompaniment volume, drum volume, local/ external.

- 3-digit LED display
 Display the parameters of current menu mode.
- [voice / volume] button
 Display the voice number, volume, pan and pitch value.
- [kit] button
 Display the drum kit number or reverb setting.
- [utility] button
 This button is used to enter or switch utility menu pages.
- [+] and [-] buttons

 These buttons are used to change the setting
 number of kit, voice, song and adjust the corresponding
 setting volume.
- [save] button
 Save current kit setting to a user kit.

Rear Panel



Pad input jacks

Connect with pads, cymbals, hi-hat control, kick trigger.

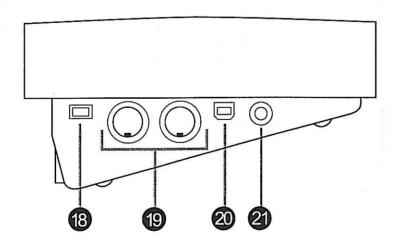
- Line output jacks (R, L/mono)
 made up of right channel output and left
 channel output which is also used as mono
 line output.
- (6) Aux.in jack

Connect with external sound source.

Power supply jack (DC in 9V)

Connect an AC adaptor to this jack.

Side Panel



- Power switch
 Turn the power on/off.
- MIDI IN and OUT connector Connect with external sound module.
- USB Port
 Connect to computer.
- Phones jack

 Connect a pair of stereo headphones to this jack.

 (Connect the headphones will not mute the output jacks.)

Setup

Caution!

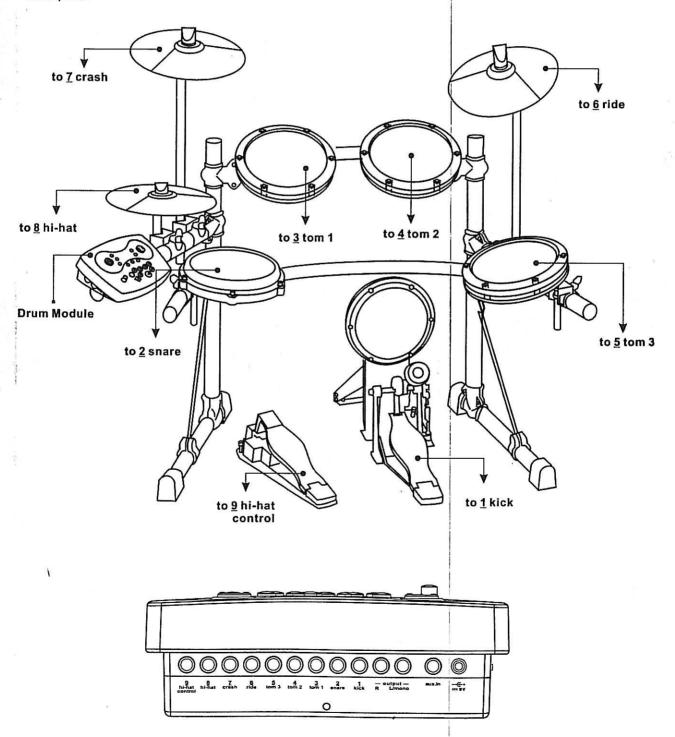
To prevent electric shock and damage to the device, make sure the power is switched OFF on the drum and all related device before making any connection.

Connect the pads and the pedal

Using the provided cables, 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.

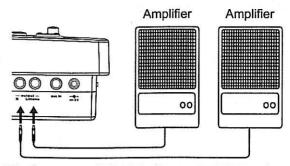
Note:

- 1. The voice of hi-hat pad hitting is controlled by hi-hat pedal. Similar to a real drum kit, the hi-hat pad functions as an 'open hi-hat' when the pedal is stepped. When the pedal is released, it functions as a 'closed hi-hat'.
- 2. The valid striking area of a cymbal pad (ride, crash or hi-hat) is near the edge of the pad, which is different from other pads.



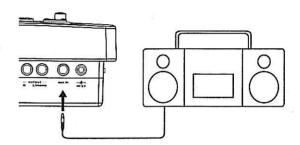
Connect an audio equipment

- When you want to listen to the voices with an amplifier, connect amplifiers with the Output L/MONO and R jacks on the rear panel. (For monaural playback, use the L/MONO jack; for stereo playback, connect both L/MONO and R jacks.)
- 2. The volume is adjusted with the VOLUME knob.



Connect a CD player, etc.(Aux. In jack)

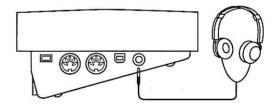
- The audio output of a CD player, or other audio source, to connect with the AUX IN jack on the rear panel can be mixed with the sound of the drum. This function is convenient that let you play along with a favourite song.
- The volume of the external signal is adjusted with the VOLUME knob.



Connect headphones

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

* Adjust the volume to a comfortable level.

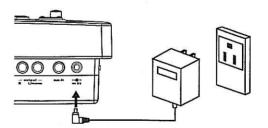


Connect the power supply jack

Make sure the power is switched OFF and connect the power adaptor with the DC IN jack on the rear panel.

Note:

- To protect the speakers, amplifier and the drum module from damage, rotate the volume knob to the minimum volume level before switching the power ON.
- 2. Make sure the power is switched OFF when connecting drum module with external devices.



MIDI and USB

MIDI stands for Musical Instrument Digital Interface, this is a world-wide standard communication interface that enables electronic musical instruments and computers (of all brands) to communicate with each other so that instructions and other data can pass between them. This exchange of information makes it possible to create a system of MIDI instruments and devices that offer far greater versatility and control than is available with isolated instruments. Whether you interface with computers, sequencers, expanders or other controllers, your musical horizons will be greatly enhanced.

MIDI connection

MIDI IN: This terminal receives MIDI data from an external

MIDI device.

MIDI OUT: This terminal transmits data from this instrument

to other MIDI devices.

USB connection

the USB connector allows you to connect the module directly to your computer. It can be connected without driver installation under the Windows XP & MAC OSX environment. The module will be recognized as 'USB Audio device' to receive and transmit MIDI messages through a single USB cable, USB is used only for MIDI messages(MIDI via USB).

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

LOCAL mode

From a MIDI point of view, the module is composed of two 'devices':

* A controller transmitting data: the pads and Hi-Hat control pedal (via an internal trigger to MIDI converter)

* A sound generator receiving MIDI data (the sound module).

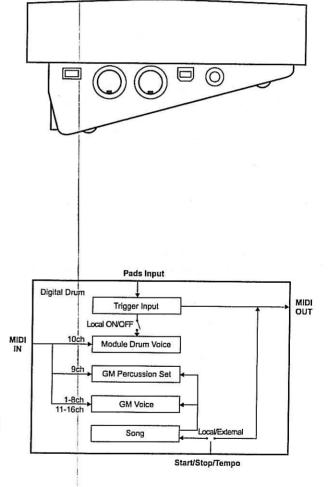
In normal operation (Local ON, default mode), those two devices are connected together internally, allowing the pads to play the voices from the sound module without any external connection. When setting Local mode to Local OFF mode in the Utility menu, this internal link is disconnected. The sound module receives MIDI messages via MIDI input only, not from the pads anymore. However, the pad trigger data is still sent to the MIDI output, therefore looping externally the MIDI out of the module back to its MIDI In will enable the pads to play the voices from the sound module. Local OFF mode is intended to be used when both the MIDI input and output (or the USB port) of the module are connected to a MIDI sequencer with soft thru function (which loops the MIDI data received from the MIDI output back to the MIDI input). This prevents doubling or flanging effect when playing the pads (caused by the sound generator receiving the same MIDI data both directly from the pads and back through the sequencer).

MIDI channels

MIDI channel 10: Primary percussion channel

MIDI channel 9: Secondary percussion channel

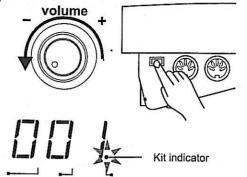
MIDI channel 1~8, 11~16: Melody voice channels



Operation

Switch the power ON

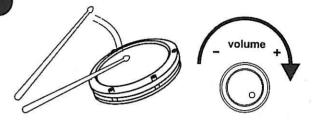
After confirming all connection have been completed, rotate the volume knob to the left (minimum volume level) before switching the power on.



Set the power switch to "on" position to switch on the power. Display shows the kit's number and its indicator lights up.

Set the main volume

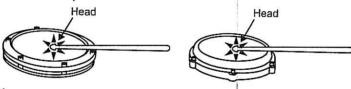
While hitting a pad, gradually rotate the volume knob until a comfortable volume level is reached.



Playing the pads

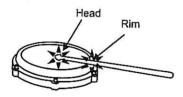
Head shot

Hit only the head of pad.



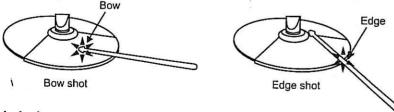
Rim shot

When playing the snare, you must strike both the head and rim of the pad.



Cymbal Bow or Edge shots

Strike the bow of the pad to produce bow sounds; And the edge sounds will be heard if you strike the edge of the pad.



Cymbal choke

Choking the cymbal's edge with the hand immediately after hitting the cymbal makes sound stop.



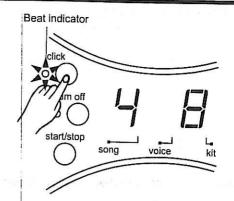
Play with a metronome

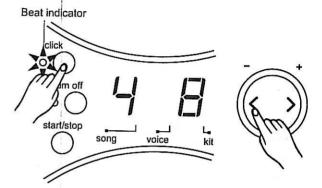
There are two types of sounds: Click (Bell and click sounds) and Vocal Counting (one, two, three, four...)

- Press the [click] button to start the metronome. The beat indicator is flashing and click sound begins to play.
- 2. Press the [click] button a second time, clicking voice will be switched to vocal counting.
- 3. Press the [click] button again to stop the metronome.

While the metronome is playing, the display shows the current time signature. There are five time signature types available (2/4, 3/4, 4/4, 5/4, 6/8), which can be selected by button [+] or [-].

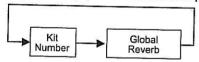
Adjust the volume of the click sound Hold down the [click] button and press the [+] or [-] button, the display shows: "CXX" (XX= metronome volume, 00 to 16), press the press the [+] or [-] button again to adjust the volume.



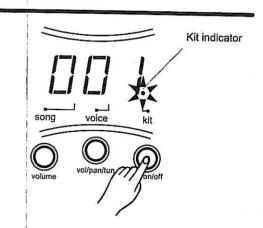


Select a drum kit

The unit comes with 20 (001-020) preset drum kits and 10 user kits (021-030). (Reference kit list: page 21)

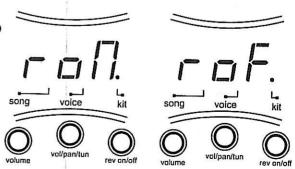


- Press [kit] button.
 The current kit number appears and the kit indicator lights.
- 2. Press [+] or [-] buttons to select drum kit number (001-050, looped) you want to use.



Global reverb

- In the kit number page, press the [kit] button to enter the global reverb mode, the LED shows the current reverb status("roN" for reverb on of "roF" for reverb off).
- 2. Press the [+] or [-] buttons to turn or of off the global reverb effect.
- 3. Press the [kit] button again to return to the kit number page.



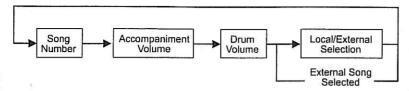
Reverb On

Reverb Off

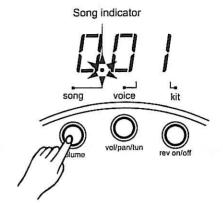
Play a Song

Select a song

This drum module has a total of 50 preset songs. Note: The preset song setting is 001 after you slide on power.



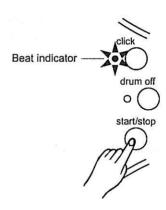
- Press [song / volume] button.
 The song indicator lights and the current song's number appears.
- Press [+] or [-] buttons to select one of the song and listen to it.
 Song numbers 001 050 are preset songs.
 (Reference song list: page 21)



Listen to the song

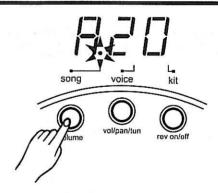
- Press [start/stop] button and the pad's indicator will flash according to the song play., the song will start playback from the beginning.
- 2. The song will stop when it reaches the end.
 You can stop the song during playback by pressing the
 [start/stop] button.

Note: The pad's indicator can be lighted off by pressing [kick] button.



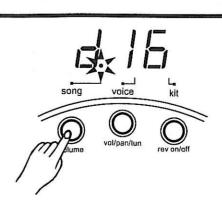
Adjust the accompaniment volume

- Press the [song/volume] button until "AXX" is displayed. (XX = accompaniment volume, 00 to 32)
- 2. Press [+] or [-] buttons to adjust the volume of song accompaniment.
- * It will be restored to default value on the next power on.



Adjust the drum volume

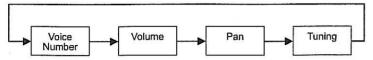
- 1. Pres's the [song/volume] button until "dXX" is displayed. (XX = drums part volume, 00 to 32)
- 2. Press [+] or [-] buttons to adjust the song, s drum volume.
- * It will be restored to default value on the next power on.



Create a User Drum Kit

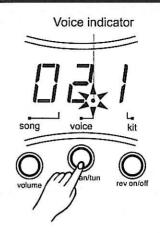
Set a drum voice

The unit comes with 307 high quality percussion sounds that you can assign to any of the drum pad, 3 cymbals, hi-hat control and bass drum. This way you can create your own drum kit that consists of the voice you want. (Reference voice list: page 20) The kit number 021-050 is use for saving your own drum kit.



- Press [voice] button.
 The voice indicator lights and the display shows the voice number of this pad.
- Press [pad] button or hit the pad you want to set. The pad indicator light and display shows the current voice number of lighting pad.
- 3. Press [+] or [-] buttons to select the voice number you want to assign.
- 4. Repeat step 2 and 3 for to set the voice for another pad or bass drum.

Note: When the snare pad is selected, press the [rim] button to select the snare rim (or strike the rim of the snare pad.) When the cymbal pad (crash or ride) is selected, press the [rim] button to select the edge shot.



Adjust the volume of the pad

This unit allows you to adjust the volume of every voices in the kit that let you control the individual level (volume) of the pads or bass drum.

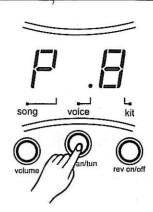
- Press the [voice / volume] button to select the volume level setting display shows: "LXX".
 (XX = level value, 00 to 32)
 The pad button indicator lights and display shows the current volume level of lighting pad.
- 2. Press the [PAD] button or kit the percussion pad you want to adjust.
- Press the [+] or [-] buttons to increase or decrease the volume. While you are adjusting, hit the corresponding pad and listen carefully the sound level until reaching the level you want.
- Repeat step 2 and 3 to adjust the volume of other pad voices.



Adjust the pan of the pad

- 1. Press the [voice] button until the LED display shows:
 "PXX". (XX = Pan value, -8 to 8). The pad button indicator lights and display shows the current value of lighting pad.
- 2. Press the [PAD] button or hit the percussion pad you want to adjust.
- 3. Press the [+] or [-] buttons to adjust the level of the current pad.
- 4. Repeat step 2 and 3 to adjust the level of other pad.

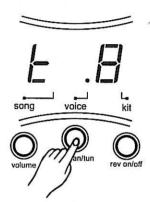
Note: P-8 (left) -- 0 (center) -- P8 (right)



Adjust the tuning of the pad

- Press the [voice] button until the LED display shows: "tXX". (XX = Tuning value, -8 to 8). The pad button indicator lights and display shows the current value of lighting pad.
- 2. Press the [PAD] button or hit the percussion pad you want to adjust.
- 3. Press the [+] or [-] buttons to adjust the tuning of the current pad.
- 4. Repeat step 2 and 3 to adjust the level of other pad.

Note: P-8 (left) -- 0 (center) -- P8 (right)



Set a user drum kit

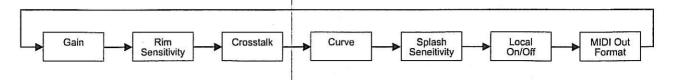
Once completing to your own drum kit, you have to save them in the unit; otherwise your drum kit will be erased when you turn off the unit.

- Press [voice] button.
 The kit number 021 appears and is flashing.
- 2. Press [+] or [-] buttons to set the kit number (021-050) for saving your drum kit.
- 3. Press [save] button again. The flashing kit number stops.
- 4. Repeat step 2 and 3 for to set the other user kits.



Utility

Press [utility] button will enter utility menu and switch all utility menu pages in turn.

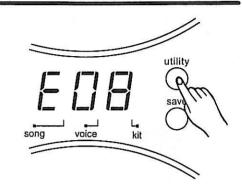


Pad sensitivity

You can adjust the sensitivity(gain) of the inputs from pads.

- 1. Press the [utility] button until the display shows: "EXX", the pad sensitivity value is indicated. (XX=gain level value, 01 to 16)
- 2. Press [pad] button or hit the pad you want to set. The pad indicator light.
- 3. Press [+] or [-] buttons to adjust the sensitivity of pads. Range: 01-16 Large values will produce a high sensitivity even if the pad is hit softly. Lower values will producing a low sensitivity even if the pad is hit forcefully.
- 4. Repeat step 2 and 3 for to set the voice for another pad or bass drum.

Note: If turn off the power without save, you will lose the changes you have just made.

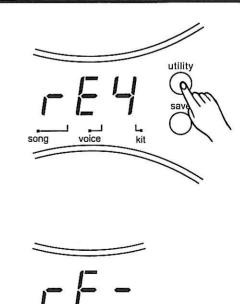


Rim sensitivity

Rim sensitivity(gain) of dual triggers (snare, crash and ride) can be adjusted to balance the head-rim velocities. Display shows: "rEX", (X=rim sensitivity level, 1 to 8).

- 1. Press the [utility] button until display shows: "rEX", the rim sensitivity level is indicated. (X=rim sensitivity level value, 1 to 8)
- 2. Press [snare], [crash] or [ride] button, then press [rim] button to adjust the rim sensitivity.
- Press [+] or [-] buttons to adjust the rim sensitivity.
- 4. Repeat step 2 and 3 for to set the voice for another pad or bass drum.

Note: A bar will be shown instead of the sensitivity level if rim triggering is not supported by current selected pad.



Crosstalk

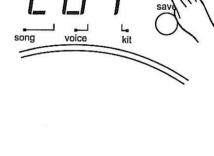
- 1. Press the [utility] button until display shows: "oXX", the crosstalk value is indicated. (XX=crosstalk value, 01 to 16).
- 2. Press [pad] button or hit the pad you want to set. The pad indicator light .
- 3. Press [+] or [-] buttons to adjust the setting.
 This effect can be eliminated by setting this parameter to a higher value on the pad that is sounding inadvertently.
- 4. Repeat step 2 and 3 for to set the voice for another pad or bass drum.



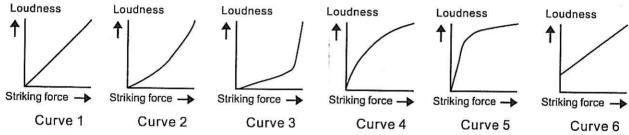
Velocity curve

This setting allows to control the relation between the velocity (Striking force) and the loudness (the dynamic curve).

- 1. Press the [utility] button until display shows: "CUX", the curve number is indicated. (X=curve number, 1 to 6).
- 2. Press [pad] button or hit the pad you want to set. The pad indicator light .
- 3. Press [+] or [-] buttons to adjust the setting.
- 4. Repeat step 2 and 3 for to set the voice for another pad or bass drum.



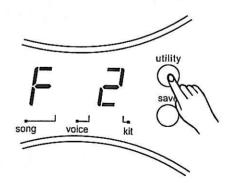
utility



Splash sensitivity

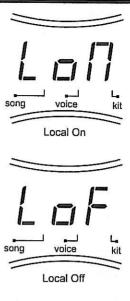
This setting controls the sensitivity of the foot splash.

- 1. Press the [utility] button until display shows: "FXX", the value number is indicated. (XX= value, -4 to 4).
- 2. Press [+] or [-] buttons to adjust the setting.



Local

Local control on is the default function mode, display shows: "LoN". The internal link between pad triggers and sound generator will be broken when local control is turned off, display show: "LoF". In local control off mode, the sound module will receive MIDI messages via MIDI input only. But the functions of panel preview, clicking and song player are still available in this mode.

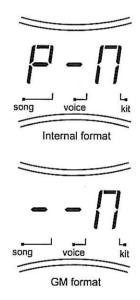


MIDI output

One of the two different MIDI output formats can be select for the Digital Drum: the internal format (default setting) and the GM format. The internal format is used when the Digital Drum works as sound module (Digital Drum to Digital Drum); The GM format is used when some other sound module applied (the Digital Drum to other product), such as computer.

When the internal format is selected, the LED shows: "P-N", which means program change and then note-on/off (program change will always be transmitted for internal voice bank addressing). When the GM format is selected, the LED shows: "--N", which means only the 'note-on/off will be transmitted (GM percussion note arrangement, program change not supported!).

NOTE: This setting will only affect the primary percussion channel (MIDI channel 10).



Saving setting

Setting all the data (gain, rim sensitivity, crosstalk, velocity curve and splash sensitivity), you can save them into built-inmemory, press the [save] button to store all settings.

Note: If turn off the power without saving, you will lose the changes you have just made.

Factory reset

This drum module will reset its to initial settings. Beware all data will be lost.

- 1. Turn the power off.
- Turn on the power while holding the [tempo -] and [tempo +] Buttons

Specifications

Drum Pad:

4 drum pads, 3 cymbal pads, 1 hi-hat control pedal, 1 kick trigger

Voices:

307 voices

Drum kits:

20 preset kits, 30 user kits

Song:

50 preset songs

Controls:

MIDI IN / OUT, POWER SWITCH, USB, PHONES, START/STOP, SAVE, KIT, VOICE/VOLUME, SONG/VOLUME, DRUM OFF, CLICK, HI-HAT, CRASH, RIDE, HI-HAT CONTROL, SNARE, TOM 1, TOM 2, TOM3,

KICK, VOLUME, +/-, TEMPO+/-

Display:

LED display

Connections:

Hi-hat control

Hi-hat Crash Ride Snare Tom 1 Tom 2 Tom 3 Kick

Output (R & L/MONO)

Aux in

Power Supply:

AC adaptor (==9V)

Voice List

	-								
No.	Name	No.	Name	No.	Name	No.	Name	No.	. Name
	KIOK					— may ——		1-	
001	KICK	000	SNARE	1	TOM	9	- 15 may 10 may		
001 002	Standard Kick 1	039		101		173	Company to the contract of the	72	Junkyard Crash 1
	Standard Kick 2	040		102		174		242	
003 004	Rock Kick 1	041 042		103	Standard Tom 3	175		243	
005	Rock Kick 2 Rock Kick 3	042		104		176		244	
005	Room Kick 1	043	Rock Snare 1	105	Standard Tom 5	177		245	
007	Room Kick 2	045	Rock Snare Stick	106	Standard Tom 6	178		246	
007	Jazz Kick 1	045	Rock Snare 2	107	Rock Tom 1	179		247	
009	Jazz Kick 2	047	Rock Snare 3	108	Rock Tom 2	180		248	
010	Jazz Kick 3	048	Room Snare 1	109	Rock Tom 3 Rock Tom 4	181		249	
011	Bigband Kick	049	Room Snare Rim	1111	Rock Tom 5	182 183	1,777,77	250	Standard Crash 5
012	Funk Kick	050	Room Snare 2	112	Rock Tom 6	184			HI-HAT
013	Fusion Kick	051	Jazz Snare 1	113	Room Tom 1	185		251	
014	Hiphop Kick 1	052	Control of the second of the s	114	Room Tom 2	186	Industry Tom 1 Industry Tom 2	252	
015	Hiphop Kick 2	053	Jazz Snare 2	115	Room Tom 3	187		253	
016	Hiphop Kick 3	054	Jazz Snare 2 Rim	116	Room Tom 4	188		254	
017	Hiphop Kick 4	055	Jazzlatin Snare	117	Room Tom 5	100	impan	255	
018	1969s Kick	056	Bush Snare	118	Room Tom 6	i	RIDE	256	1969s Hi-hat
019	1971s Kick	057	Bigband Snare	119	Jazz Tom 1	189		257	Ska Hi-hat
020	1976s Kick	058	Funk Snare 1	120	Jazz Tom 2	190	Standard Ride21"	258	House Hi-hat
021	Pwrbd Kick	059	Funk Snare Stick	121	Jazz Tom 3	191	Standard Ride21" Bell	259	808 Hi-hat
022	R&B Kick	060	Funk Snare 2	122	Jazz Tom 4	192	Rock Ride21"	260	909 Hi-hat
023	House Kick 1	061	Fusion Snare	123	Jazz Tom 5	193	Rock Ride21" Bell	261	Cartoon Hi-hat
024	House Kick 2	062	Fusion Snare Stick	124	Jazz Tom 6	194	Bigband Ride	262	Voices Hi-hat
025	House Kick 3	063	Pwrbd Snare	125	Brush Tom 1	195	Bigband Ride Bell	263	Junkyard Hi-hat
026	Drumbass Kick	064	Hiphop Snare 1	126	Brush Tom 2	196	Jazz Ride Bell	264	Noise Hi-hat
027	808 Kick	065	Hiphop Snare 2	127	Brush Tom 3	197	Step Ride	265	Industry Hi-hat
028	909 Kick	066	Ringo Snare	128	Brush Tom 4	198	Step Ride Bell	8	
029	Electronic Kick	067	Ringo Snare Rim	129	Brush Tom 5	199	1969s Ride	di di	PERCUSSION
030	Step Kick	068	Lowfi Snare	130	Brush Tom 6	200	1969s Ride Bell	266	High Q
031	Teckno Kick	069	Lowfi Snare Stick	131	Funk Tom 1	1 201	Pop Ride	267	Slap
032	Voic Kick	070	506 Snare	132	Funk Tom 2	202	Ska Ride	268	Scratch Push
033	Lowfi Kick	071	506 Snare Rim	133	Funk Tom 3	203	Orchestra Ride	269	DJ SFX
034	Junkyard Kick	072	506 Low Snare	134	Fusion Tom 1	204	Teckno Ride 1	270	Sticks
035	Disco Kick	073	506 Low Snare Rim	135	Fusion Tom 2	205	Teckno Ride 2	271	Square Click
036	Industry Kick	074	1969s Snare	136	Fusion Tom 3	206	Junkyard Ride 1	272	Metro Click
037	Noise Kick	075	1969s Snare Stick	137	1969s Tom 1	207	Junkyard Ride 2	273	Metro Bell
038	Cartoon Kick	076 077	1971s Snare	138	1969s Tom 2	208	Cartoon Ride	274	Standard Clap
		077	1971s Snare Stick	139	1969s Tom 3	209	Voices Ride	275	Tambourine
		078	1976s Snare 1976s Snare Stick	140	1971s Tom 1	210	Standard Ride21" Rim	276	Standard Cow Bell
		080	R&B Snare	141 142	1971s Tom 2 1971s Tom 3	211	Rock Ride21" Rim	277 278	Mute Cow Bell
		081	R&B Snare Stick	100000	1976s Tom 1	212	1969s Ride Rim	279	Rock Cow Bell
			House Snare 1		1976s Tom 2	213	Pop Ride Rim Ska Ride Rim	280	Vibraslap Hi Bongo
			House Snare Rim		1976s Tom 3	217	ORA INICE INIT	281	Low Bongo
			House Snare 2		Old Tom 1		CRASH	282	Mute Hi Conga
		1	Step Snare	10.200	Old Tom 2	215	Standard Crash 1	283	Open Hi Conga
		500,000,000,0	Step Snare Stick	1 100000000	Old Tom 3	216	Standard Crash 2	284	Low Conga
		087	Teckno Snare 1	1	Hiphop Tom 1	217	Standard Crash 3	285	High Timbale
		088	Teckno Snare 2		Hiphop Tom 2	218	Standard Crash 1 Bell	286	Low Timbale
		089	Drumbass Snare		Hiphop Tom 3	219	Standard Crash 2 Bell	287	High Agogo
		090	808 Snare	P1 (P3/45/55/54)	Hiphop Tom 4	220	Standard China	288	Low Agogo
		091	909 Snare	153	Hiphop Tom 5	221	Standard Splash8"	289	Cabasa
		092	Electronic Snare	154	Hiphop Tom 6	222	Standard Splash8" Bell	290	Maracas
	į	093	Junkyard Snare	155	808 Tom 1	223	Rock Crash20"	291	Short Whistle
		094	Junkyard Snare Stick	156	808 Tom 2	224	Rock Splash8"	292	Long Whistle
		095	Noise Snare	157	808 Tom 3	225	Jazz Splash10"	293	Short Guiro
			Industry Snare	158	808 Tom 4	226	Jazz Splash10" Bell	294	Long Guiro
			Industry Snare Stick		808 Tom 5	227	Hiphop Crash	295	Claves
			Voice Snare		808 Tom 6		Hiphop Crash Bell	296	Hi Wood Block
١			Voice Snare Stick		Electronic Tom 1	215	China Crash	297	Low Wood Block
N.		100	Cartoon Snare		Electronic Tom 2	52	China Carsh Bell	298	Mute Cuica
					Electronic Tom 3	-	Orchestar Crash 1	299	Open Cuica
					Electronic Tom 4	49	Orchestar Crash 2	300	Mute Triangle
	i i		To see all the second		Electronic Tom 5	22	Orchestar Crash Bell	301	Open Triangle
					Electronic Tom 6	54	Mute Crash Bell	302	Shaker linele Bell
				100	Step Tom 1	34	Drumbass Crash 1		Jingle Bell
			CHANGE		Step Tom 2		Drumbass Crash 2	304	Belitree
					Step Tom 3 909 Tom 1	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	808 Crash 1 808 Carsh 2		Castanets Mute Surdo
			Canal		909 Tom 2		909 Crash 1		Open Surdo
					909 Tom 3		909 Crash 2	557	-pon cardo
			4	1	,	1 240			
				1					

Drum Kit List

No. 001 002 003 004 005 006	Name Fusion Standard Room Rock Hiphop Electronic Cartoon	No. 008 009 010 011 012 013 014	Name House Jazz Brush 1969songo 1971s 1976disco 909	No. 015 016 017 018 019 020	Name Drumbass Funk Hiphop-3 Huose-2 Vintage Junkyard
021 022 023 024 025 026 027 028	M-box Step Industry Lowfi Metal Pop-rock Fusion Standard	031 032 033 034 035 036 037 038	Hiphop Electronic Cartoon House Jazz Brush 1969songo	041 042 043 044 045 046 047 048	Drumbass Funk Hiphop-3 Huose-2 Vintage Junkyard M-box Step
029 030	Room Rock	039 040	1976disco 909	049 050	Industry Lowfi

Note: Kit 1~20 are preset kits and kit 21~50 are user kits.

Song List

No.	Name	No.	Name	M-	NI.
		33373.573754		No.	Name
001	Funk 1	018	Pop	035	Funk 2
002	Fusion 1	019	Rock 'n Roll 1	036	Acid Fusion
003	Latin Jazz	020	House	037	Folk Pop
004	Dance	021	Hip Hop	038	Latin
005	Big Band	022	6/8 Ballad	039	Ballad 2
006	Slow Fusion	023	Ballad 1	040	Disco
007	Samba	024	Boogie	041	8 Beat
800	Modern Jazz	025	Punk	042	Funk 3
009	Country	026	Rock 'n Roll 2	043	Slow Rock
010	Reggae	027	Metal	044	R&B 1
011	Salsa	028	16 Beat	045	R&B 2
012	Bluegrass	029	Rhumba	046	6/8 R&B
013	Mambo	030	Shuffle	047	Pop Rock
014	Beguine	031	Swing	048	Hard Rock
015	Drum 'n Bass	032	Blues 1	049	Pop Ballad
016	Jazz	033	Blues 2	050	New Age
017	Bossa	034	Fusion 2		

Percussion Set List

		Standard	Room	Rock	Electronic	808	Jazz	Brush	Orchestra
27	D#1	High Q	<	<	<	<	<	<	Closed Hi-Hat 2
28	E1	Slap	<	<	<	<	<	<	Pedal Hi-Hat
29	F1	Scratch Push	<	<	<	<	<	<	Open Hi-Hat 2
30	F#1	Scratch Pull	<	<	<	<	<	<	Ride Cymbal 1
31	G1	Sticks	<	<	<	<	<	<	<
32	G#1	Square Click	<	<	<	<	<	<	<
33	A1	Metronome Click	<	<,	<	<	<	<	<
34	A#1	Metronome Bell	<	<	<	<	<	<	<
35	B1	Acoustic Bass Drum	<	<	<	<	Jazz Kick 2	Jazz Kick 2	Concert BD 2
36	C2	Bass Drum 1	<	Rock Kick Drum	El Kick Drum	808 Kick Drum	Jazz Kick 1	Jazz Kick 1	Concert BD 1
37	C#2	Side Stick	<	<	<	<	<	<	<
38	D 2	Acoustic Snare	<	Rock Snare Drum	El Snare Drum	808 Snare Drum	808 Snare Drum	Brush Tap	Concert SD
39	D#2	Hand Clap	<	<	<	<	'	Brush Slap	Castanets
40	E2	Electric Snare	<	<	<	<	٧	Brush Swirl	Concert SD
41	F2	Low Floor Tom	Room Low Tom 2	Rock Low Tom 2	El Low Tom 2	808 Low Tom 2	808 Low Tom 2	Brush Low Tom 2	Timpani F
42	F#2	Closed Hi-Hat	<	<	<	<	<	<	Timpani F#
43	G2	High Floor Tom	Room Low Tom 1	Rock Low Tom 1	El Low Tom 1	808 Low Tom 1	808 Low Tom 1	Brush Low Tom 1	Timpani G
44	G#2	Pedal Hi-Hat	<	<	<	<	<	<	Timpani G#
45	A2	Low Tom	Room Mid Tom 2	Rock Mid Tom 2	El Mid Tom 2	808 Mid Tom 2	808 Mid Tom 2	Brush Mid Tom 2	Timpani A
46	A#2	Open Hi-Hat	<	<	<	<	<	<	Timpani A#
47	В2	Low-Mid Tom	Room Mid Tom 1	Rock Mid Tom 1	El Mid Tom 1	808 Mid Tom 1	808 Mid Tom 1	Brush Mid Tom 1	Timpani B
48	C3	Hi-Mid Tom	Room Hi Tom 2	Rock Hi Tom 2	El Hi Tom 2	808 Hi Tom 2	808 Hi Tom 2	Brush Hi Tom 2	Timpani c
49	C#3	Crash Cymbal 1	<	<	<	<	<	<	Timpani c#
50	D3	High Tom	Room Hi Tom 1	Rock Hi Tom 1	El Hi Tom 1	808Hi Tom 1	808Hi Tom 1	Brush Hi Tom 1	Timpani d
51	D#3	Ride Cymbal 1	<	<	<	<	<	<	Timpani d#
52	E3	Chinese Cymbal	<	<	<	<	<	<	Timpani e
53	F3	Ride Bell	<	<	<	<	<	<	Timpani f
54	F#3	Tambourine	<	<	<	<	<	<	<
55	G3	Splash Cymabl	<	<	<		<	<	<
56	G#3	Cowbell	<	<	<	<	<	<	<
57	A3	Crash Cymbal 2	<	< .	<	<	<	<	Concert Cymbal 2
58	A#3	Vibraslap	<	<	<	<	<	<	< '
59	В3	Ride Cymbal 2	<	<	<	<	<	<	Concert Cymbal 1
60	C 4	Hi Bongo	<	<	<	<	<	<	<
61	C#4	Low Bongo	<	<	<	<	<	<	<
62	D4	Mute Hi Conga	<	<	<	<	<	<	<
63	D#4	Open Hi Conga	<	<	<	<	<	<	<
64	E4	Low Conga	<	<	<	<	<	<	<
65	F4	High Timbale	<	<	<	<	<	<	<
66	F#4	Low Timbale	<	<	<	<	<	<	<
67	G4	High Agogo	<	<	<	<	<	<	<
68		Low Agogo	<	<	<	<	<	<	<
69		Cabasa	<	<	<	<	<	<	<
70		The state of the s	<	<	<	<	<	<	<
71	B 4	Short Whistle	<	<	<	<	<	<	<
72		Long Whistle	<	<	<	<	<	<	<
73			<	<	<	<	<	<	<
74		Long Guiro	<	<	<	<	<	<	<
75		Claves	<	<	<	<	<	<	<
76	E5	Hi Wood Block	<	<	V	<	<	<	<
77	F5	Low Wood Block	<	<	<	<	<	<	<
78		A SANTE DE LA PRINCIPA DE LA CONTRACTOR	<	<	<	<	<	<	<
79	G 5	Open Cuica	<	<	<	<	<	<	<
80		Mute Triangle	<	<	<	<	<	<	<
81	A 5	Open Triangle	<	<	<	<	<	<	<
82	A#5	Shaker	<	<	<	<	<	<	<
83		Jingle Bell	<	<	<	<	<	<	<
84		Belitree	<	<	ζ.	<	~ ~	<	<
85			<	<	<	<	<	<	<
_		Mute Surdo	<	<	<	<	<	<	<
86	D 11								

MIDI Implementation Chart

	Function	Transmitted	Recognized	Remarks
Basic	Default	10 ch	1-16	
Channel	Changed	X	X	
190000000	Default	X	X	
	Messages	X	X	
	Altered	********	*******	<i>*</i>
Note		0-127	0-127	
	True voice	*******	0-127	
Velocity	Note on	O 99H, V= 1-127	The state of the s	
	Note off	O (99H. V= 0)	0-127	
After	Key's	X	X	
Touch	Channel's	X	X	
Pitch Bend		X	0	
Control	0	X	0	Bank Select
Change	1	X	Ō	Modulation
	5	X	Ö	Portamento Time
	6	X	ő	AL DISCOMMENDATION OF THE PROPERTY OF THE PROP
	7	X	o l	Data Entry Volume
	10	X	ŏ	Pan
	11	X	ŏ	
	64	X	o	Expression
	65	X	0	Sustain Pedal
	66	X	o	Portamento ON/OF
	67	X	0	Sostenuto Pedal
	80	x	0	Soft Pedal
	81	x	0	Reverb Program
	91	X		Chorus Program
	93	X	0	Reverb Level
	120	X	0	Chorus Level
	121	X	0	All Sound OFF
	123	X	0	Reset All Controller
Program Ch			0	All Notes OFF
		0	0	
System Excl		X	0	
System : S	Song Position	X	X	
Common : S	Song Select	X	X	
	une	X	X	
	Clock	0		START and STOP only
Real Time : C	commands	0	and the second s	on artifalia STOP only
Aux : L	ocal ON/OFF	X	X	
	II Notes OFF	X	X	
Messages : A	ctive Sense	0	X	
	eset	X	X	

O:YES X:NO