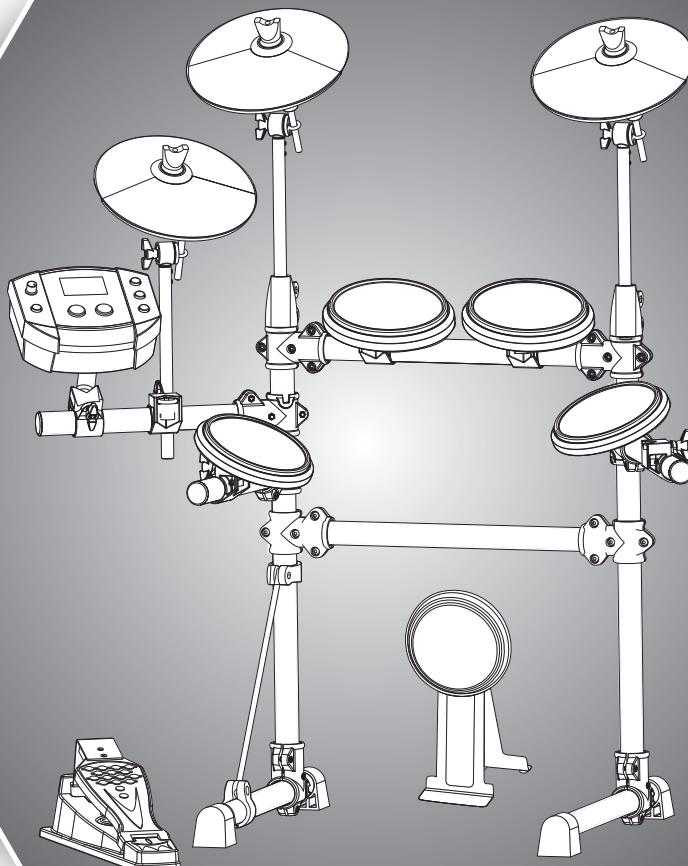


SIMMONS®

The First Name in Electronic Drums.

SD5X



Electronic Drum Kit

USER MANUAL

www.simmonsdrums.net

Two (2) Year Limited Warranty

Subject to the limitations set forth below, Simmons® hereby represents and warrants that the components of this product shall be free from defects in workmanship and materials, including implied warranties of merchantability or fitness for a particular purpose, subject to normal use and service, for two (2) years to the original owner from the date of purchase.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any program or data stored in equipment that is used with Simmons® products. This guarantee gives you specific legal rights. You may have other legal rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Simmons
P.O. Box 5111
Thousand Oaks, CA 91359-5111

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Made in China

FCC Statements

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

2. Note: 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 different circuit.
- Consult an experienced radio/TV technician for help.

Congratulations!

... on your purchase of Simmons' SD5X Electronic Drum Kit. To get the most enjoyment from this kit, we recommend that you skim through this manual at least once, then refer back to it to learn more about specific functions.

Taking Care of Your Digital Drum Kit

Location

- To avoid deformation, discoloration, or more serious damage, do not expose the unit to direct sunlight, high temperature sources, or excessive humidity.

Power Supply

- Turn the power switch OFF when the SD5X is not in use.
- The AC adapter should be unplugged from the AC outlet if the SD5X is not to be used for an extended period of time.
- Avoid plugging the AC adapter into an AC outlet that is also powering high-consumption appliances such as electric heaters or televisions. Also avoid using multi plug adapters since these can reduce sound quality, cause operation errors and result in possible damage.
- To avoid damage, turn OFF the SD5X's power switch and all related devices prior to connecting or disconnecting cables.

Handling and Transport

- Never apply excessive force to controls, connectors, and other parts.
- Unplug cables by gripping the plug firmly. Do not pull on the cable.
- Disconnect all cables before moving the module.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the module can result in scratches and more serious damage.

Cleaning

- Clean the module with a dry, soft cloth.
- A slightly damp cloth may be used to remove stubborn grime and dirt.
- Never use cleaners such as alcohol or thinner.
- To avoid discoloration, do not place vinyl objects on top of module.

Electrical Interference

- The module contains digital circuitry and may cause interference if placed too close to radio or television receivers. If this occurs, move the SD5X further away from the affected equipment.

Service and Modification

- There are no user serviceable parts in the drum module.
- Do not attempt to open the drum module or make any change in the circuits or parts of the unit. This would void the warranty.

SD5X DIGITAL DRUM KIT USER MANUAL

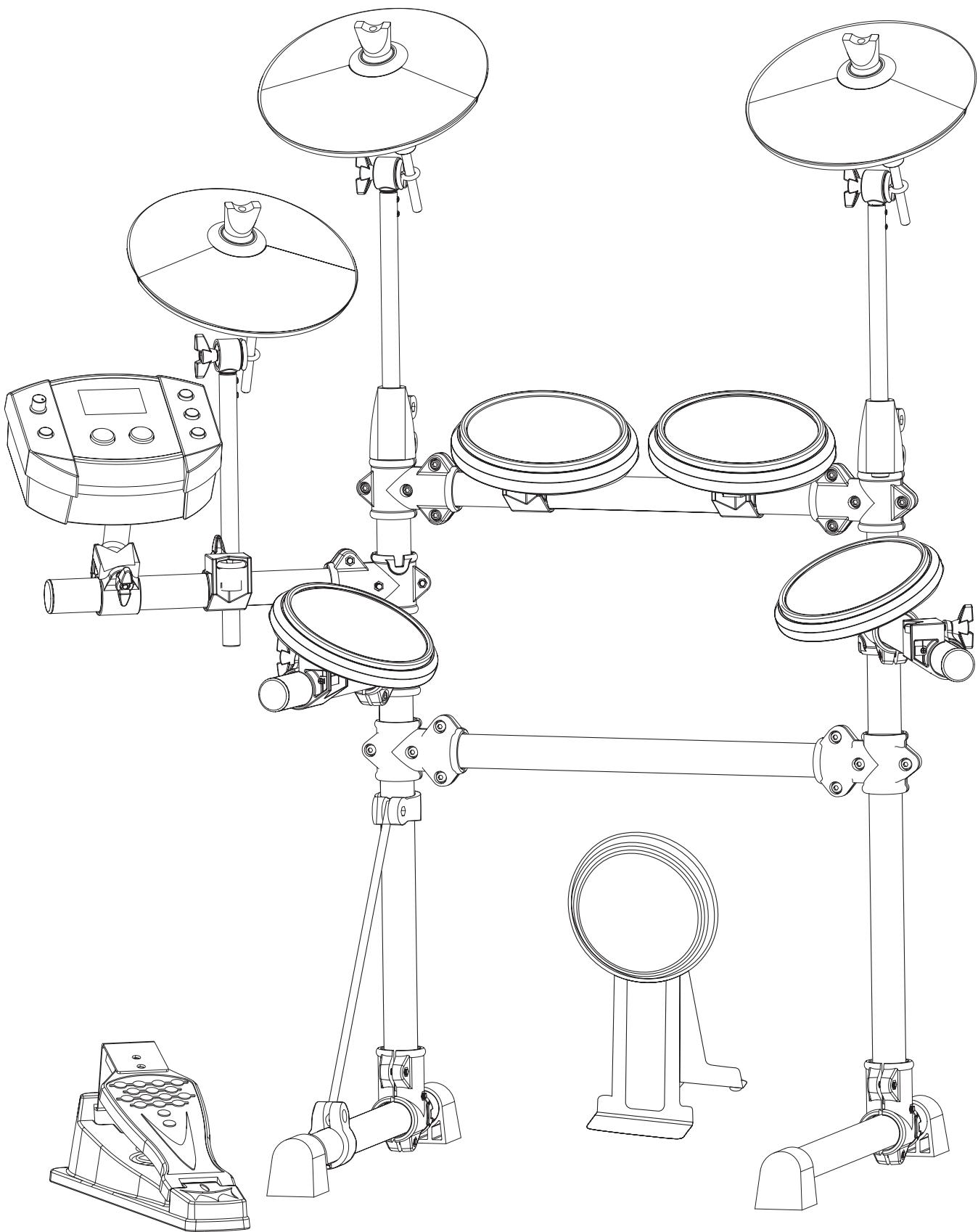


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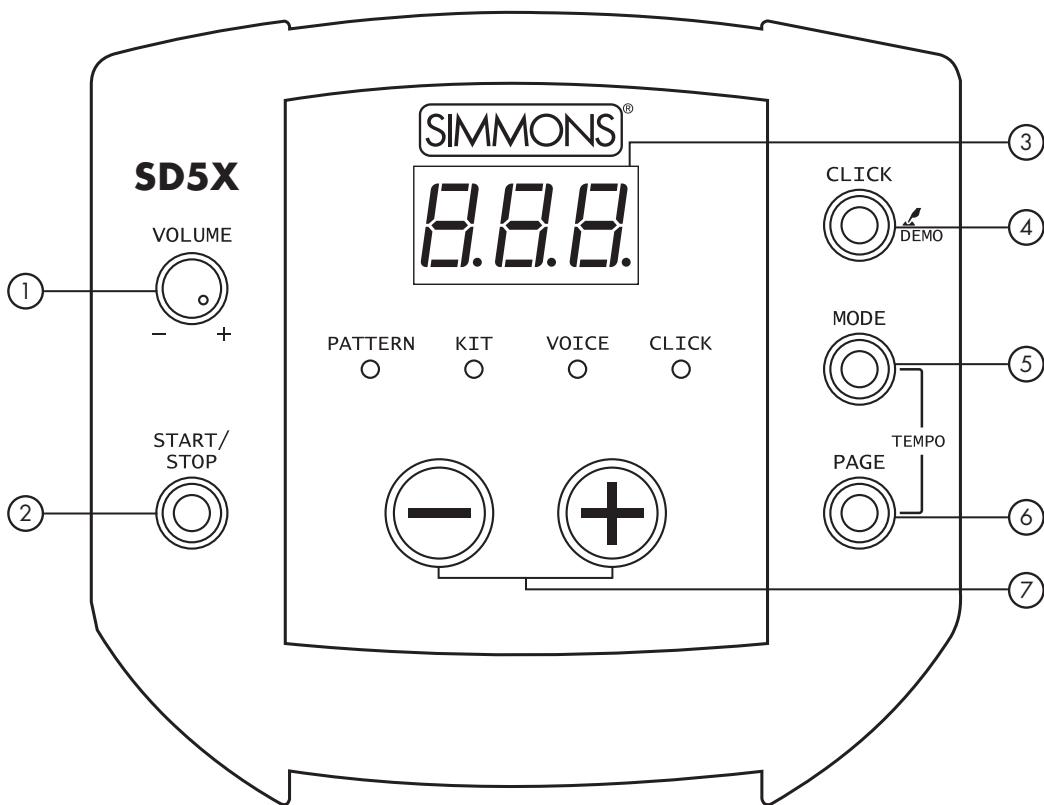
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PANEL CONTROLS

User Interface



① Master Volume Control

Control the volume of phone and line outputs. Turn knob clockwise to increase the volume and counter-clockwise to decrease the volume.

② [START/STOP] Button

Start or stop Pattern playing.

③ LED Display

3-digit LED and LED indicators.

④ [CLICK] BUTTON

Press [CLICK] button to start/stop the click.

Hold the [CLICK] button 2 seconds to enter the demo mode and play the demo.

⑤ [MODE] Button

Press [MODE] button to select the mode from PATTERN, KIT, VOICE, CLICK.

⑥ [PAGE] Button

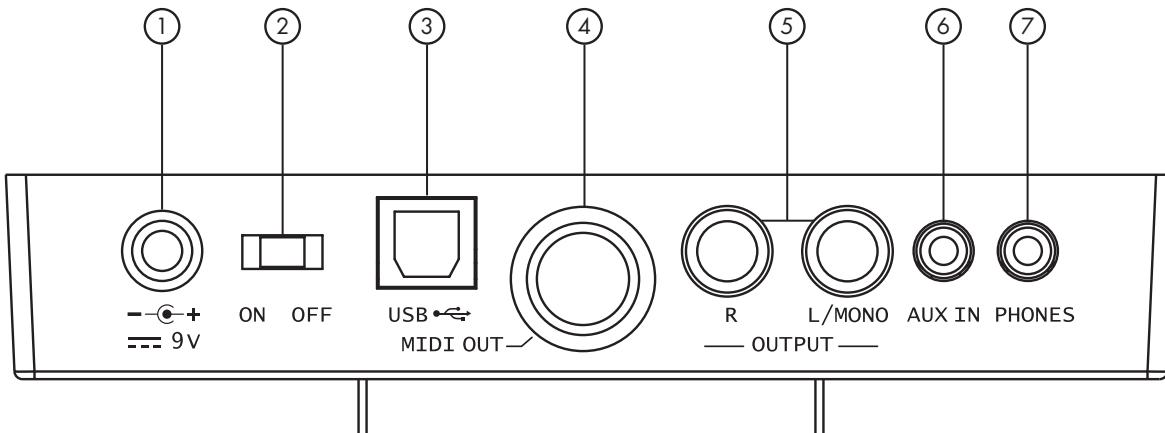
Press [PAGE] button to browse the menu pages of current selected mode.

Press both [MODE] and [PAGE] buttons, the 3-digit LED will display the tempo page, it will display for 3 seconds, then press [+]/[-] to adjust the value.

⑦ [+]/[-] Button

Press [+]/[-] button to adjust the parameters.

Rear Panel



① Power Supply Jack

Connect the 9V AC adaptor to this jack.

② Power Switch

Turn the power on/off.

③ USB Port

Connect to computer (MIDI via USB.)

④ MIDI Out Jack

Connect with external sound module.

⑤ Line Output Jacks (R, L/MONO)

Right channel output and left channel output. Left channel used as mono line output.

⑥ AUX In

Connect with external sound source.

⑦ Phones Jack

Connect a pair of stereo headphones to this jack (connection of the headphones will not mute the output jack.)

CONNECTIONS



CAUTION!

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

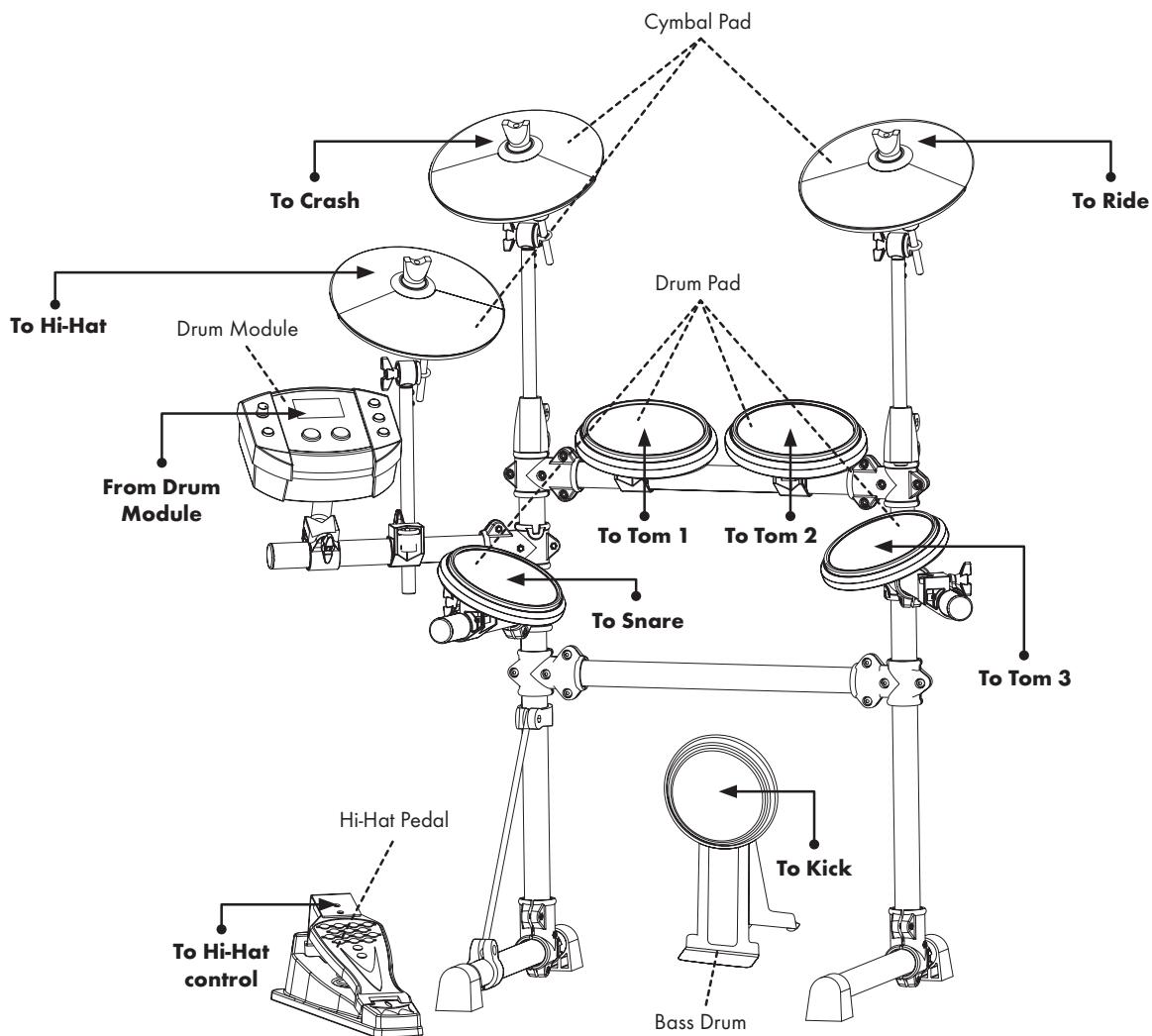


Pads and Pedal

Using the provided cables, connect the 1/4" jacks to the corresponding drum pads, cymbal pads and kick pad. The pin connection will attach to the serial port of the sound module. (See illustration.)

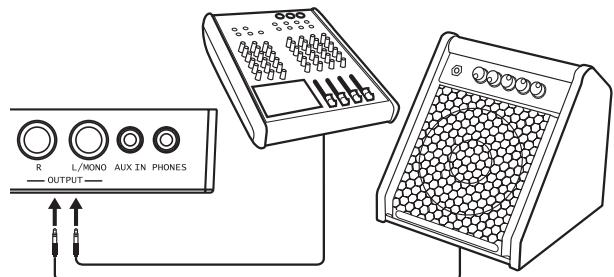
Note: The voice of the hi-hat pad is controlled by the hi-hat pedal. Similar to a real drum kit, the hi-hat pad functions as an 'open hi-hat' when the pedal is released. When the pedal is pressed down, it functions as a 'closed hi-hat'.

Note: The striking area of cymbal pad (ride, crash or hi-hat) is near the edge of the pad. One of the cymbal pads has a choke function (indicated by raised pattern at cymbal edge.) Grab this area to stop cymbal from sounding.



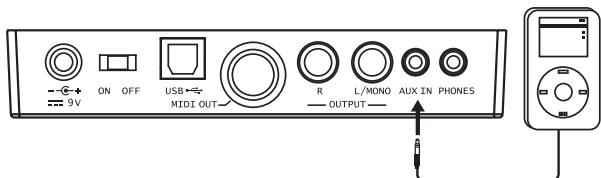
Mixer or Amplification

- When you want to listen to the voices send the drum to a mixer or amplifier. Connect using 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.)
- The volume is adjusted with the VOLUME knob.



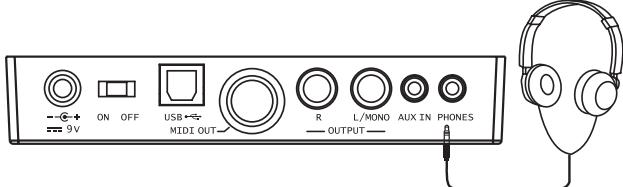
MP3 (Aux in Jack)

- Use audio output of MP3 player, or other audio source, to connect with the AUX IN jack on the rear panel. Play along with a pre-recorded track.
- The volume of the external signal is adjusted with the VOLUME knob.



Headphones

An optional set of stereo headphones can be connected with the PHONES jack located on the rear panel of the drum module. Adjust the volume to a comfortable level.

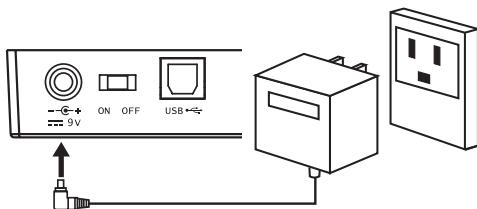


Power Supply

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, lower the volume to the minimum level before switching the power ON.

Make sure the power is switched OFF when connecting the 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 MIDI command 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 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

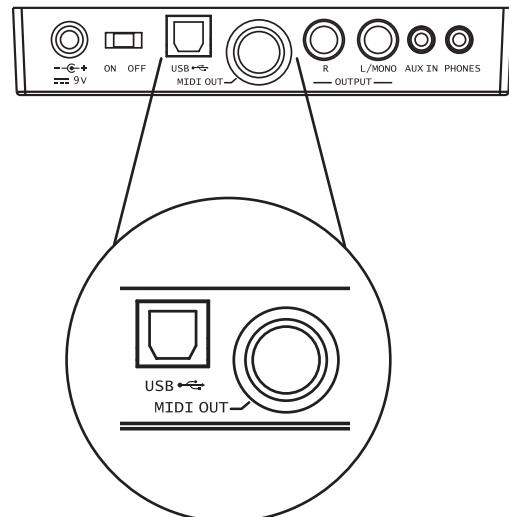
MIDI OUT: This terminal transmits data from this instrument to other MIDI devices.

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\Vista\Windows 7 & 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.



MENU TREE

PATTERN → Number

Accompaniment Volume

Drum Volume

KIT → Number

Volume

Reverb

VOICE → Number

Volume

MIDI Note

CLICK → Time Signature

Interval

Click Instrument

Volume

OPERATION

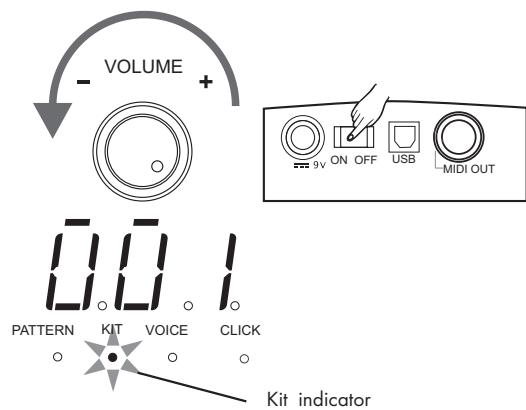
Press **[MODE]** button to change between modes.

Press **[PAGE]** button to select the page of current mode. Press **[+]/[-]** button to adjust the parameters.

Turning the Power On

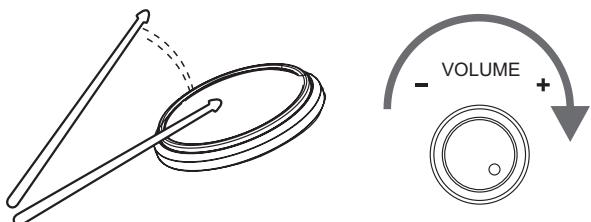
After confirming all connections have been completed, lower the volume (minimum volume level) before switching the power on.

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



Setting the Main Volume

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



PATTERN

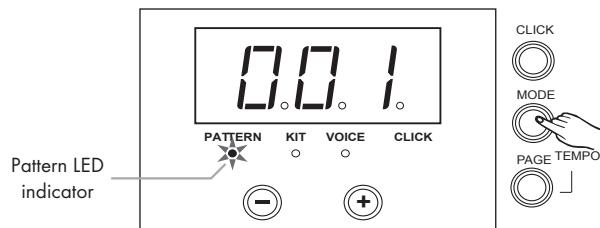
In pattern mode, there are 3 pages:

1. Pattern number (1-40, default 1).
2. Pattern accompaniment volume (0-32).
3. Pattern drum volume (0-32).

Selecting a Pattern

In pattern mode, pattern number (001-040, default 001):

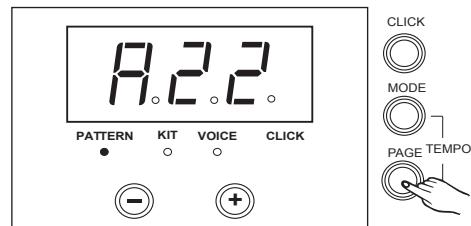
1. Press the **[MODE]** button to select the pattern mode, the pattern LED indicator will light, the 3-digit-LED will display the pattern number (001).
2. Press **[+]/[-]** button to adjust the value. Range: (001-040).



Adjusting the Accompaniment Volume

In pattern mode, pattern accompaniment volume (0-032):

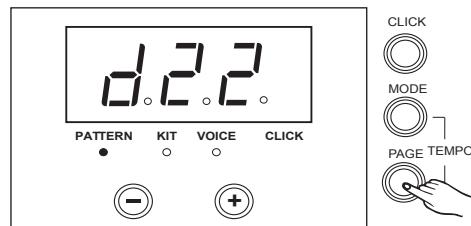
1. Press **[MODE]** button to select the pattern mode, the pattern LED indicator will light.
2. Press **[PAGE]** button to select the accompaniment volume page, the 3-digit-LED will display the accompaniment volume (A22).
3. Press **[+]/[-]** button to adjust the value. Range: (0-32).



Adjusting the Drum Volume

In pattern mode, pattern drum volume (0-032)

1. Press **[MODE]** button to select the pattern mode, the pattern LED indicator will light.
2. Press **[PAGE]** button to select the drum volume page, the 3-digit-LED will display the drum volume (d22).
3. Press **[+]/[-]** button to adjust the value. Range: (0-32)



DRUM KIT

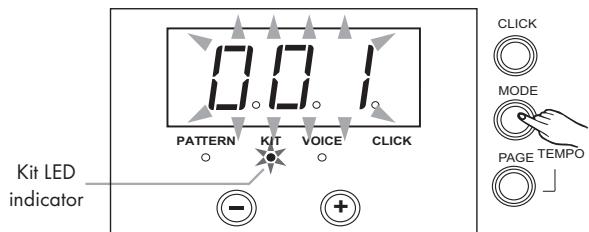
In kit mode, there are 3 pages:

1. Kit number (001-014, default 1).
2. Kit volume (0-32).
3. Kit reverb: (on/off, default on).

Selecting a Kit

In kit mode, kit number (001-014, default 1).

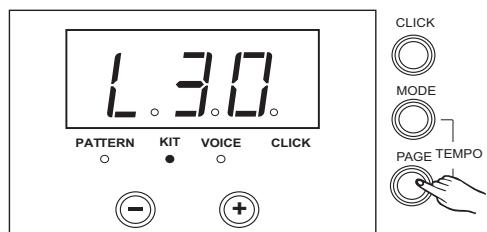
1. Press **[MODE]** button to select the kit mode, the kit LED indicator will light, the 3-digit-LED will display the kit number (001).
2. Press **[+]/[-]** to adjust the value. Range: (001-014).



Adjusting the Kit Volume

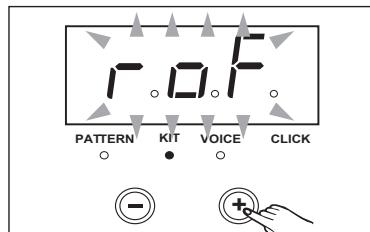
In kit mode, kit volume (0-32).

1. Press the **[MODE]** button to select the kit mode, the kit LED indicator will light.
2. Press the **[PAGE]** button to select the kit volume page, the 3-digit-LED will display the kit volume (L30).
3. Press **[+]/[-]** to adjust the value. This value will automatically be saved upon exit. Range: (0-32).



Toggling Reverb On/Off

1. Press **[MODE]** button to select the kit mode, the kit LED indicator will light.
2. Press the **[PAGE]** button to select the kit reverb page, reverb effect can be toggled on or off by pressing button **[+]/[-]**.



VOICE

In voice mode, there are 3 pages:

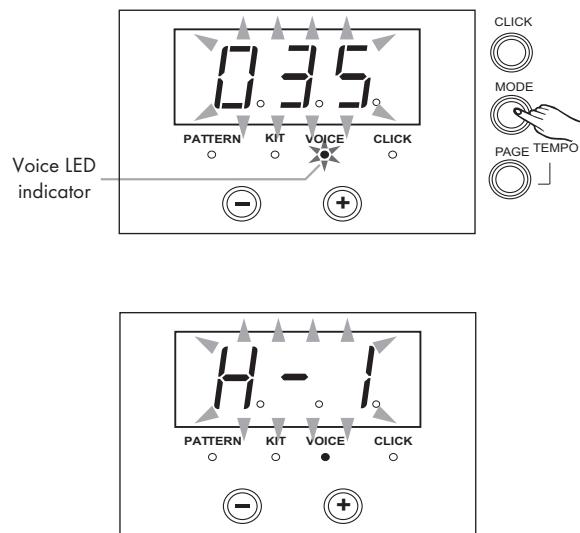
1. Voice number: (1-130).
2. Voice volume: (0-32).
3. MIDI note: (0-99).

Selecting the Voice

In voice mode, voice number: (1-130).

1. Press **[MODE]** button to select the voice mode, the voice LED indicator will light, strike a drum pad, the 3-digit-LED will display the voice number.
2. Press **[+]/[-]** to adjust the value. This value will automatically be saved upon exit. Range: (001-130).

Note: When you select a voice for the hi-hit, you can only select the hi-hat group voices, from groups 1-4. The display will show H-1, H-2, H-3, H-4. This value will automatically be saved upon exit.



Adjusting the Voice Volume

In voice mode, voice volume: (0-32).

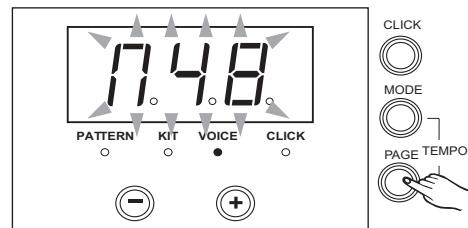
1. Press **[MODE]** button to select the voice mode, the voice LED indicator will light.
2. Press **[PAGE]** button to select the voice volume page, strike a drum pad, the 3-digit-LED will display the voice volume (L30).
3. Press **[+]/[-]** to adjust the value. This value will automatically be saved upon exit. Range: (0-32).



Adjusting the MIDI Note

In voice mode, MIDI note: (0-99).

1. Press **[MODE]** button to select the voice mode, the voice LED indicator will light.
2. Press **[PAGE]** button to select the MIDI note page, strike a drum pad, the 3-digit-LED will display the MIDI note (n48).
3. Press **[+]/[-]** to adjust the value. This value will automatically be saved upon exit. Range: (0-99).



The Default MIDI Note Numbers:

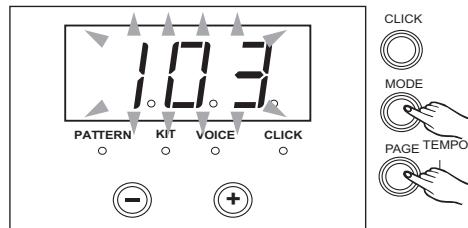
NO.	NAME	NOTE
1	Crash1	49
2	Tom1	48
3	Tom2	45
4	Tom3	43
5	Ride	51
6	Kick	36
7	Snare	38
8	Hi-Hat Close	42
9	Hi-Hat Open	46
10	Hi-Hat Pedal	44

TEMPO

The tempo range is 30-280 BPM.

Adjusting the Tempo

1. Press both **[MODE]** and **[PAGE]** buttons, the 3-digit-LED will display the tempo page for 3 seconds.
2. Press **[+]/[-]** to adjust the value.



CLICK

In click mode, there are 4 pages:

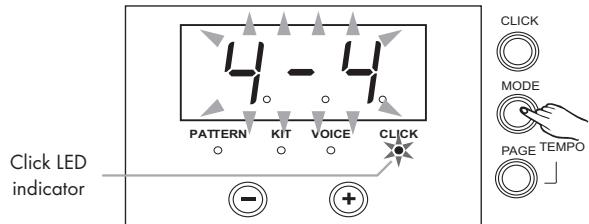
1. Time signature: (1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8).
2. Interval: (1/4, 1/8, 1/12, 1/16, 1/24, default 1/4).
3. Instrument: (1-5, default 1).
4. Click volume: (0-32).

Adjusting the Time Click Signature

In click mode, Time signature: (1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8).

1. Press **[MODE]** button select the click mode, the click LED indicator will light.
2. Press **[PAGE]** button select the click time signature page, the 3-digit-LED will display the click time signature (4-4).
3. Press **[+]/[-]** to adjust the value.
Range: (1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8).

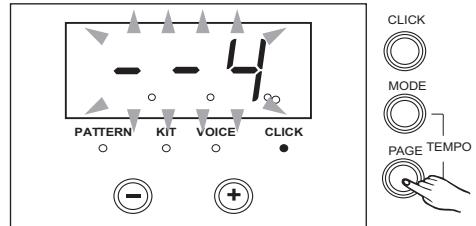
Note: The click time signature will follow the pattern playing. It can not be edited.



Adjusting the Click Interval

In click mode, interval: (1/4, 1/8, 1/12, 1/16, 1/24, default 1/4).

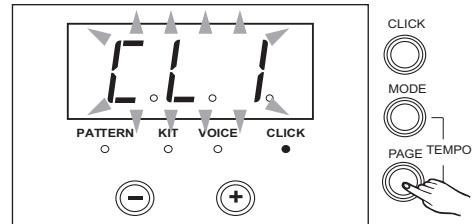
1. Press **[MODE]** button to select the click mode, the click LED indicator will light.
2. Press **[PAGE]** button to select the click interval page, the 3-digit-LED will display the click interval (---4).
3. Press the **[+]/[-]** button to adjust the value. Range: (---4 to -24).



Adjusting the Click Instrument

In click mode, instrument: (1-5, default 1).

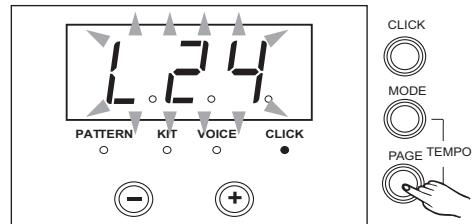
1. Press **[MODE]** button to select the click mode, the click LED indicator will light.
2. Press **[PAGE]** button to select the click instrument page, the 3-digit-LED will display the click instrument (CL1).
3. Press **[+]/[-]** to adjust the value. Range: (CL1-CL5).



Adjusting the Click Volume

In click mode, click volume: (0-32).

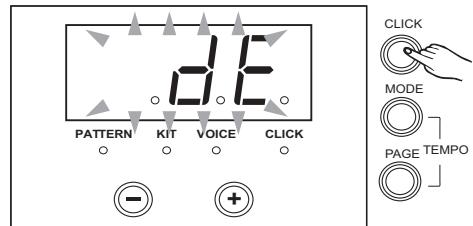
1. Press **[MODE]** button to select the click mode, the click LED indicator will light.
2. Press **[PAGE]** button to select the click volume page, the 3-digit-LED will display the click volume (L24).
3. Press **[+]/[-]** to adjust the value. Range: (0-32).



PLAYING

Playing the Demo

1. Hold the **[CLICK]** button for 2 seconds to enter demo mode and play the demo. The 3-digit-LED will display "dE". The click indicator will light to follow the tempo of the demo.
2. Press **[START/STOP]** button to play and stop the demo.



Playing the Pattern

1. Press **[START/STOP]** button to play the selected patterns.
2. Press **[START/STOP]** button again to stop play.



Playing the Click

1. Press the **[CLICK]** button to start the click. The click indicator will light to follow the tempo of the click.
2. Press the **[CLICK]** button again to stop the click.



APPENDICES

Restoring Factory Presets

Restoring the factory preset can be implemented by the following operations:

Turn on the power with both **[+]/[-]** pressed simultaneously.

This function will replace the current settings of the following parameters to their default preset values:

Kit volume, voice number, voice volume and MIDI note.

Specifications

Drum Kit:	4 drum pads 3 cymbal pads 1 hi-hat control pedal 1 kick pad
Preset Drum Kits:	14 preset kits
Drum Instruments:	130
Preset Patterns:	40
Controls:	MIDI Out Power Switch USB Phones Start/Stop Pattern Kit Voice Click Mode Page Demo Tempo Volume +/-
Display:	LED Display
Connections:	Phones Aux In Output (R&L/MONO) MIDI Out USB On/Off
Power Supply:	AC Adaptor (---9V 500mA)

*Specifications may be changed or modified at any time without prior notice

Preset Drum Kit List

#	Name	#	Name
001	Rock it!	008	Power Kick
002	Studio Kit	009	Eight O Eight
003	Power Tom	010	In the House
004	Digital Age	011	Classic 80
005	Percussive Mix Kit	012	Electric Dive
006	Jazz Kit	013	Club Electronica
007	Brush Kit	014	Electric Dance

Preset Pattern List

#	Name	Tempo	Kit	#	Name	Tempo	Kit
001	Fusion Groove	98	1	022	Smooth Latin	126	7
002	Electronica	103	9	023	Big Band Swing	136	6
003	Acid Jazz	130	1	024	3/4 Swing	120	7
004	Hip Hop	110	9	025	Jazz Break	150	7
005	Latin Jazz	130	7	026	6/8 Standard	96	3
006	Funk time	100	1	027	Smooth Ballad	80	3
007	Dixie Band	170	6	028	Bossa Pop	120	2
008	Funk Slap	95	1	029	16 Beat	108	2
009	Funk Time II	105	1	030	Shuffle	86	2
010	Fusion Vibe	112	1	031	Carnival	210	1
011	Funk Slap II	108	1	032	Havana Dance	98	2
012	Fusion Lead	108	1	033	Latin Rock	120	1
013	Fusion Groove II	106	1	034	Latin Interlude	126	2
014	Funky Groove	90	1	035	Rio	84	2
015	Nite Rhythm	86	9	036	Country Blues	120	9
016	Trip Hop	108	9	037	Rock Groove	96	1
017	Electronic Ride	86	1	038	Island Beat	78	1
018	House	120	9	039	Driving Rock	108	2
019	Drum & Bass	130	1	040	Classic Blue	89	2
020	Club Latin	106	1	Demo Funk		89	1
021	Straight Ahead	155	6				

SD5X DIGITAL DRUM KIT USER MANUAL

Preset Drum Instrument List

KICK

- 001 Standard Kick 1
- 002 Standard Kick 2
- 003 Room Kick
- 004 Rock Kick 1
- 005 Rock Kick 2
- 006 Acoustic Kick
- 007 Hiphop Kick
- 008 Funk Kick
- 009 Jazz Kick 1
- 010 Jazz Kick 2
- 011 Electronic Kick
- 012 808 kick
- 013 House Kick1
- 014 House Kick 2
- 015 Simmons Kick 1
- 016 Simmons Kick 2
- 017 Simmons Kick 3
- 018 Simmons Kick 4

TOM

- 043 Classic Tom 1
- 044 Classic Tom 2
- 045 Classic Tom 3
- 046 Classic Tom 4
- 047 Classic Tom 5
- 048 Classic Tom 6
- 049 Maple Tom 1
- 050 Maple Tom 2
- 051 Maple Tom 3
- 052 Maple Tom 4
- 053 Maple Tom 5
- 054 Maple Tom 6
- 055 808 Tom 1
- 056 808 Tom 2
- 057 808 Tom 3
- 058 808 Tom 4
- 059 808 Tom 5
- 060 808 Tom 6
- 061 Electronic Tom 1
- 062 Electronic Tom 2
- 063 Electronic Tom 3
- 064 Electronic Tom 4
- 065 Electronic Tom 5
- 066 Electronic Tom 6
- 067 Simmons V1 Tom 1
- 068 Simmons V1 Tom 2
- 069 Simmons V1 Tom 3
- 070 Simmons V2 Tom 1
- 071 Simmons V2 Tom 2
- 072 Simmons V2 Tom 3
- 073 Simmons V3 Tom 1
- 074 Simmons V3 Tom 2
- 075 Simmons V3 Tom 3
- 076 Simmons V4 Tom 1
- 077 Simmons V4 Tom 2
- 078 Simmons V4 Tom 3
- 079 Simmons Bend Tom

CRASH

- 084 Standard Crash 1
- 085 Standard Crash 2
- 086 Rock Crash
- 087 Splash 1
- 088 Splash 2
- 089 Brush Crash
- 090 808 Crash

HI-HAT

- 091 Standard Hi-hat Open
- 092 Jazz Hi-hat Open
- 093 Electronic Hi-hat Open
- 094 808 Hi-hat Open
- 095 Standard Hi-hat Close
- 096 Jazz Hi-hat Close
- 097 Electronic Hi-hat Close
- 098 808 Hi-hat Close
- 099 Standard Hi-hat Pad
- 100 Jazz Hi-hat Pad
- 101 Electronic Hi-hat Pad
- 102 808 Hi-hat Pad

SNARE

- 019 Classic Snare 1
- 020 Classic Snare Rim 1
- 021 Classic Snare 2
- 022 Classic Snare Rim 2
- 023 Room Snare 1
- 024 Room Snare 2
- 025 Acoustic Snare
- 026 Acoustic Snare Rim
- 027 Funk Band Snare
- 028 Funk Band Snare Rim
- 029 Maple Snare
- 030 Maple Snare Rim
- 031 Brush Snare
- 032 Brush Snare Rim
- 033 Electronic Snare 1
- 034 Electronic Snare 2
- 035 808 Snare
- 036 House Snare 1
- 037 House Snare 2
- 038 Simmons Snare 1
- 039 Simmons Snare 2
- 040 Simmons Snare 3
- 041 Simmons Snare 4
- 042 Simmons Clap

RIDE

- 080 Classic Ride
- 081 Classic Ride Bell
- 082 Rock Ride
- 083 808 Ride

PERCUSSION

- 103 Bongo High
- 104 Bongo Low
- 105 Mute High Conga
- 106 Open High Conga
- 107 Conga Low
- 108 Timbale High
- 109 Timbale Low
- 110 Agogo High
- 111 Agogo Low
- 112 Cabasa
- 113 Maracas
- 114 High Whistle
- 115 Low Whistle
- 116 Short Guiro
- 117 Long Guiro
- 118 Claves
- 119 Wood Block High
- 120 Wood Block Low
- 121 Mute Cuica
- 122 Open Cuica
- 123 Mute Triangle
- 124 Open Triangle
- 125 Shaker
- 126 Jingle Bell
- 127 Bell Tree
- 128 Castanets
- 129 Mute Surdo
- 130 Open Surdo

General MIDI Voice List

PIANO

- 001 Acoustic Grand Piano
- 002 Bright Acoustic Piano
- 003 Electric Grand Piano
- 004 Honky-Tonk Piano
- 005 Electric Piano 1
- 006 Electric Piano 2
- 007 Harpsichord
- 008 Clavichord

CHROMATIC PERCUSSION

- 009 Celesta
- 010 Glockenspiel
- 011 Music box
- 012 Vibraphone
- 013 Marimba
- 014 Xylophone
- 015 Tubular Bells
- 016 Dulcimer

ORGAN

- 017 Drawbar Organ
- 018 Percussive Organ
- 019 Rock Organ
- 020 Church Organ
- 021 Reed Organ
- 022 Accordion
- 023 Harmonica
- 024 Tango Accordion

GUITAR

- 025 Nylon Guitar
- 026 Steel Guitar
- 027 Jazz Guitar
- 028 Clean Guitar
- 029 Muted Guitar
- 030 Overdriven Guitar
- 031 Distortion Guitar
- 032 Guitar Harmonics

BASS

- 033 Acoustic Bass
- 034 Finger Bass
- 035 Pick Bass
- 036 Fretless Bass
- 037 Slap Bass 1
- 038 Slap Bass 2
- 039 Synth Bass 1
- 040 Synth Bass 2

STRINGS

- 041 Violin
- 042 Viola
- 043 Cello
- 044 Contrabass
- 045 Tremolo Strings
- 046 Pizzicato Strings
- 047 Orchestral Harp
- 048 Timpani

ENSEMBLE

- 049 String Ensemble 1
- 050 String Ensemble 2
- 051 Synth Strings 1
- 052 Synth Strings 2
- 053 Choir "Aahs"
- 054 Voice "Oohs"
- 055 Synth Voice
- 056 Orchestra Hit

BRASS

- 057 Trumpet
- 058 Trombone
- 059 Tuba
- 060 Muted Trumpet
- 061 French Horn
- 062 Brass Section
- 063 Synth Brass 1
- 064 Synth Brass 2

REED

- 065 Soprano Sax
- 066 Alto Sax
- 067 Tenor Sax
- 068 Baritone Sax
- 069 Oboe
- 070 English Horn
- 071 Bassoon
- 072 Clarinet

PIPE

- 073 Piccolo
- 074 Flute
- 075 Recorder
- 076 Pan Flute
- 077 Bottle Blow
- 078 Shakuhachi
- 079 Whistle
- 080 Ocarina

SYNTH LEAD

- 081 Lead 1 (square)
- 082 Lead 2 (sawtooth)
- 083 Lead 3 (caliope lead)
- 084 Lead 4 (chiff lead)
- 085 Lead 5 (charang)
- 086 Lead 6 (voice)
- 087 Lead 7 (fifths)
- 088 Lead 8 (bass + lead)

SYNTH PAD

- 089 Pad 1 (new age)
- 090 Pad 2 (warm)
- 091 Pad 3 (polysynth)
- 092 Pad 4 (choir)
- 093 Pad 5 (bowed)
- 094 Pad 6 (metallic)
- 095 Pad 7 (halo)
- 096 Pad 8 (sweep)

SYNTH EFFECT

- 097 FX 1 (rain)
- 098 FX 2 (soundtrack)
- 099 FX 3 (crystal)
- 100 FX 4 (atmosphere)
- 101 FX 5 (brightness)
- 102 FX 6 (goblins)
- 103 FX 7 (echoes)
- 104 FX 8 (sci-fi)

ETHNIC

- 105 Sitar
- 106 Banjo
- 107 Shamisen
- 108 Koto
- 109 Kalimba
- 110 Bagpipe
- 111 Fiddle
- 112 Shanai

PERCUSSIVE

- 113 Tinkle Bell
- 114 Agogo
- 115 Steel Drums
- 116 Wood Block
- 117 Taiko Drum
- 118 Melodic Tom
- 119 Synth Drum
- 120 Reverse Cymbal

SOUND EFFECT

- 121 Guitar Fret Noise
- 122 Breath Noise
- 123 Seashore
- 124 Bird Tweet
- 125 Telephone Ring
- 126 Helicopter
- 127 Applause
- 128 Gunshot

SD5X DIGITAL DRUM KIT USER MANUAL

Percussion Set List

NET #	Standard 1 (bank 0)	Standard 2 (bank 4)	Room (bank 8)	Rock (bank 16)	Funk (bank 17)
27-D#1	High Q	←	←	←	←
28-E1	Slap	←	←	←	←
29-F1	Scratch Push	←	←	←	←
30-F#1	Scratch Pull	←	←	←	←
31-G1	Sticks	←	←	←	←
32-G#1	Square Click	←	←	←	←
33-A1	Metronome Click	←	←	←	←
34-A#1	Metronome Bell	←	←	←	←
35-B1	Acoustic Bass Drum	←	Room Bass Drum 1	Rock Bass Drum 1	Funk Bass Drum 1
36-C2	Standard 1 Bass Drum	Standard 2 Bass Drum	Room Bass Drum 2	Rock Bass Drum 2	Funk Bass Drum 2
37-C#2	Side Stick	←	←	←	←
38-D2	Standard 1 Snare	Standard 2 Snare	Room Snare	Rock Snare	Funk Snare
39-D#2	Hand Clap	←	←	←	←
40-E2	Standard 1 Snare Rim	Standard 2 Snare Rim	Room Snare Rim	Rock Snare Rim	Funk Snare Rim
41-F2	Standard 1 Tom 6	Standard 2 Tom 6	Room Tom 6	Rock Tom 6	Funk Tom 6
42-F#2	Standard 1 Hi-hat Close	Standard 2 Hi-hat Close	Room Hi-hat Close	Rock Hi-hat Close	Funk Hi-hat Close
43-G2	Standard 1 Tom 5	Standard 2 Tom 5	Room Tom 5	Rock Tom 5	Funk Tom 5
44-G#2	Standard 1 Hi-hat Pedal	Standard 2 Hi-hat Pedal	Room Hi-hat Pedal	Rock Hi-hat Pedal	Funk Hi-hat Pedal
45-A2	Standard 1 Tom 4	Standard 2 Tom 4	Room Tom 4	Rock Tom 4	Funk Tom 4
46-A#2	Standard 1 Hi-hat Open	Standard 2 Hi-hat Open	Room Hi-hat Open	Rock Hi-hat Open	Funk Hi-hat Open
47-B2	Standard 1 Tom 3	Standard 2 Tom 3	Room Tom 3	Rock Tom 3	Funk Tom 3
48-C3	Standard 1 Tom 2	Standard 2 Tom 2	Room Tom 2	Rock Tom 2	Funk Tom 2
49-C#3	Standard 1 Crash 1	Standard 2 Crash 1	Room Crash 1	Rock Crash 1	Funk Crash 1
50-D3	Standard 1 Tom 1	Standard 2 Tom 1	Room Tom 1	Rock Tom 1	Funk Tom 1
51-D#3	Standard 1 Ride	Standard 2 Ride	Room Ride	Rock Ride	Funk Ride
52-E3	Chinese Cymbal 1	←	←	←	←
53-F3	Ride Bell	←	Room Ride Bell	Rock Ride Bell	←
54-F#3	Tambourine	←	←	←	←
55-G3	Splash Cymbal	←	Room Splash Cymbal	Rock Splash Cymbal	←
56-G#3	Standard 1 Cowbell	Standard 2 Cowbell	Room Cowbell	Rock Cowbell	←
57-A3	Standard 1 Crash 2	Standard 2 Crash 2	Room Crash 2	Rock Crash 2	Funk Crash 2
58-A#3	Vibra-slap	←	←	←	←
59-B3	Ride Cymbal	←	←	←	←
60-C4	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-G#4	Low Agogo	←	←	←	←
69-A4	Cabasa	←	←	←	←
70-A#4	Maracas	←	←	←	←
71-B4	Short Whistle	←	←	←	←
72-C5	Long Whistle	←	←	←	←
73-C#5	Short Guiro	←	←	←	←
74-D5	Long Guiro	←	←	←	←
75-D#5	Claves	←	←	←	←
76-E5	Hi Wood Block	←	←	←	←
77-F5	Low Wood Block	←	←	←	←
78-F#5	Mute Cuica	←	←	←	←
79-G5	Open Cuica	←	←	←	←
80-G#5	Mute Triangle	←	←	←	←
81-A5	Open Triangle	←	←	←	←
82-A#5	Shaker	←	←	←	←
83-B5	Jingle Bell	←	←	←	←
84-C6	Bell Tree	←	←	←	←
85-C#6	Castanets	←	←	←	←
86-D6	Mute Surdo	←	←	←	←
87-D#6	Open Surdo	←	←	←	←

Percussion Set List Cont.

NET #	Electronic (bank 24)	808 (bank 25)	House (bank 28)	Jazz (bank 32)	Brush (bank 40)
27-D#1	←	←	←	←	←
28-E1	←	←	←	←	←
29-F1	←	←	←	←	←
30-F#1	←	←	←	←	←
31-G1	←	←	←	←	←
32-G#1	←	←	←	←	←
33-A1	←	←	←	←	←
34-A#1	←	←	←	←	←
35-B1	Electronic Bass Drum 1	808 Bass Drum 1	House Bass Drum 1	Jazz Bass Drum 1	Brush Bass Drum 1
36-C2	Electronic Bass Drum 2	808 Bass Drum 2	House Bass Drum 2	Jazz Bass Drum 2	Brush Bass Drum 2
37-C#2	←	←	←	←	←
38-D2	Electronic Snare	808 Snare	House Snare	Jazz Snare	Brush Snare
39-D#2	←	←	House Hand Clap	←	←
40-E2	Electronic Snare Rim	808 Snare Rim	House Snare Rim	Jazz Snare Rim	Brush Snare Rim
41-F2	Electronic Tom 6	808 Tom 6	House Tom 6	Jazz Tom 6	Brush Tom 6
42-F#2	Electronic Hi-hat Close	808 Hi-hat Close	House Hi-hat Close	Jazz Hi-hat Close	←
43-G2	Electronic Tom 5	808 Tom 5	House Tom 5	Jazz Tom 5	Brush Tom 5
44-G#2	Electronic Hi-hat Pedal	808 Hi-hat Pedal	House Hi-hat Pedal	Jazz Hi-hat Pedal	←
45-A2	Electronic Tom 4	808 Tom 4	House Tom 4	Jazz Tom 4	Brush Tom 4
46-A#2	Electronic Hi-hat Open	808 Hi-hat Open	House Hi-hat Open	Jazz Hi-hat Open	←
47-B2	Electronic Tom 3	808 Tom 3	House Tom 3	Jazz Tom 3	Brush Tom 3
48-C3	Electronic Tom 2	808 Tom 2	House Tom 2	Jazz Tom 2	Brush Tom 2
49-C#3	←	808 Crash 1	←	←	Brush Crash 1
50-D3	Electronic Tom 1	808 Tom 1	House Tom 1	Jazz Tom 1	Brush Tom 1
51-D#3	←	←	←	Jazz Ride	Brush Ride
52-E3	←	←	←	←	←
53-F3	←	←	←	←	←
54-F#3	←	←	←	←	←
55-G3	←	←	←	←	←
56-G#3	←	←	←	←	←
57-A3	←	808 Crash 2	←	Chinese Cymbal 2	Brush Crash 2
58-A#3	←	←	←	←	←
59-B3	←	←	←	←	←
60-C4	←	←	←	←	←
61-C#4	←	←	←	←	←
62-D4	←	808 Mute Hi Conga	←	←	←
63-D#4	←	808 Open Hi Conga	←	←	←
64-E4	←	808 Low Conga	←	←	←
65-F4	←	←	←	←	←
66-F#4	←	←	←	←	←
67-G4	←	←	←	←	←
68-G#4	←	←	←	←	←
69-A4	←	←	←	←	←
70-A#4	←	808 Maracas	←	←	←
71-B4	←	←	←	←	←
72-C5	←	←	←	←	←
73-C#5	←	←	←	←	←
74-D5	←	←	←	←	←
75-D#5	←	808 Claves	←	←	←
76-E5	←	←	←	←	←
77-F5	←	←	←	←	←
78-F#5	←	←	←	←	←
79-G5	←	←	←	←	←
80-G#5	←	←	←	←	←
81-A5	←	←	←	←	←
82-A#5	←	←	←	←	←
83-B5	←	←	←	←	←
84-C6	←	←	←	←	←
85-C#6	←	←	←	←	←
86-D6	←	←	←	←	←
87-D#6	←	←	←	←	←

MIDI Implementation Chart

O: YES X: NO

	Function	Transmitted	Recognized	Remarks
Basic	Default	10Ch	1-16Ch	
Channel	Changed	X	X	
	Default	X	X	
Mode	Messages	X	X	
	Altered	*****	*****	
Note Number	True Voice	0-127 *****	0-127 0-127	
Velocity	Note On	0 (99H, V=1-127)	0-127	
	Note Off	0 (99, V=0)	0-127	
After	Key's	X	X	
Touch	Ch's	X	X	
Pitch Blend		X	O	
Control	0	X	O	Bank Select
Change	1	X	O	Modulation
	5	X	O	Portamento Time
	6	X	O	Data Entry
	7	X	O	Volume
	10	X	O	Pan
	11	X	O	Expression
	64	X	O	Sustain Pedal
	65	X	O	Portamento On/Off
	66	X	O	Sostenuto Pedal
	67	X	O	Soft Pedal
	80	X	O	Reverb Program
	81	X	O	Chorus Program
	91	X	O	Reverb Level
	93	X	O	Chorus Level
	120	X	O	All Sound Off
	121	X	O	Reset All Controllers
	123	X	O	All Notes Off
Program Change		X	O	
System Exclusive		X	O	
System	:Song Position	X	X	
Common	:Song Select	X	X	
	:Tune	X	X	
System	:Clock	O	X	Start/Stop
Real Time	:Commands	O	X	
Aux	:Local On/Off	X	X	
	:All Notes Off	X	X	
Messages	:Active Sense	O	X	
	:Reset	X	X	