

OSP DIGITAL DRUM

Instruction Manual



Congratulations

Thank you for purchasing the OSP DD502 Digital Drum Set. This set has been developed to act and play like an acoustic drum set, but with greater ease. Before you use the set, we recommend you to read through this manual.

Taking Care of Your Digital Drum Set

Location

- Do not expose the unit to the following conditions to avoid deformation, discoloration, or more serious damage.
- Direct sunlight.
- High temperature (near a heat source, or in a car during the day time).
- Excessive humidity.

Power Supply

- Make sure to sure use the suitable AC adaptor, and also make sure the AC outlet voltage at your country matches the input voltage specified on the AC adaptor's label.
- Turn the power switch OFF when the instrument is not in use.
- An AC adaptor should be unplugged from the AC outlet if the instrument is not be used for an extended period of time.
- Unplug the AC adaptor during electric storms.
- Avoid plugging the AC adaptor into the same AC outlet as appliance with high power consumption, such as electric heaters or ovens. Also avoid using multi-plug adaptors since these can result in reducing the sound quality, operation errors, and possibly damage.

Turn Power OFF When Making Connections

- To avoid damage to the instrument and other devices to which it is connected, turn the power switches of all related device OFF prior to connecting or disconnecting cables.

Handling and Transport

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

Cleaning

- Clean the unit 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.
- Avoid placing vinyl object on top of the unit (vinyl can stick to and discolor the surface).

Electrical Interference

- This instrument contains digital circuitry and may cause interference if placed too close to radio or television receivers. If this occurs, move the instrument further away

from the affected equipment.

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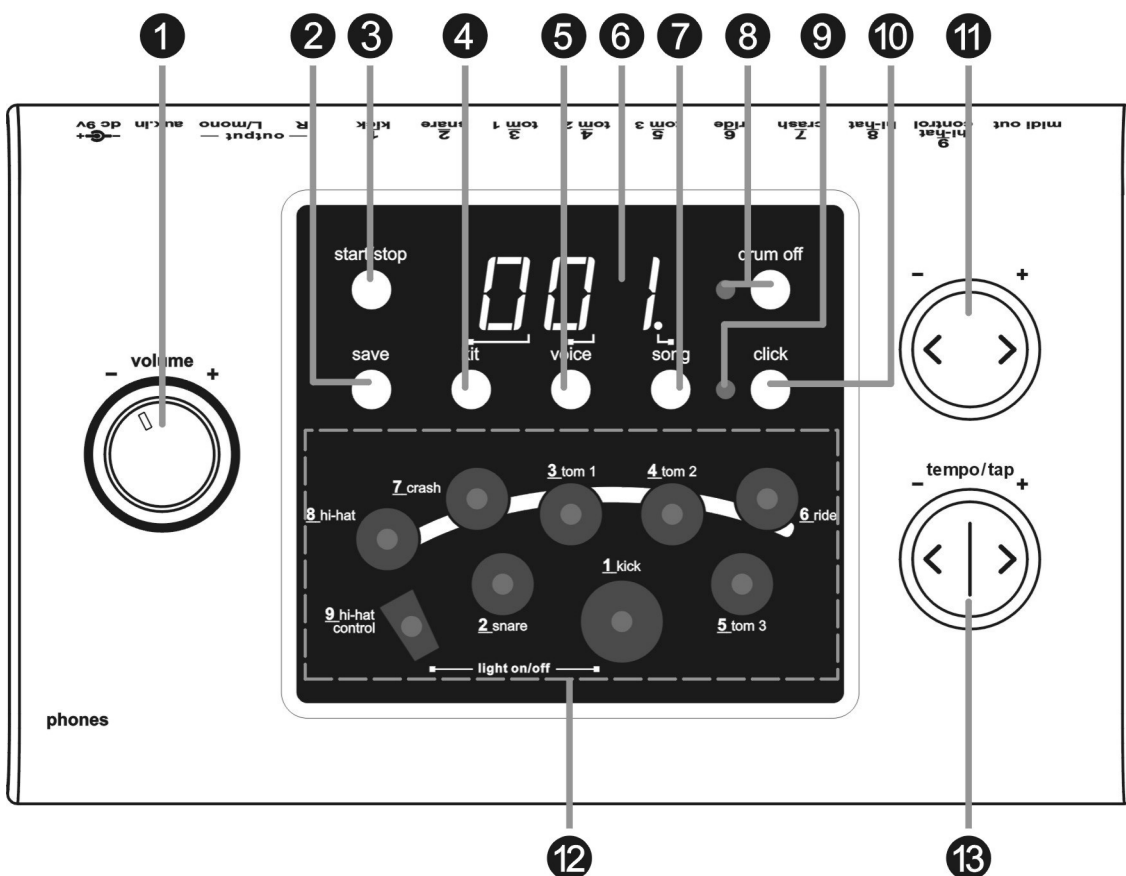
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Panel Controls

Front Panel



1. Volume knob

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

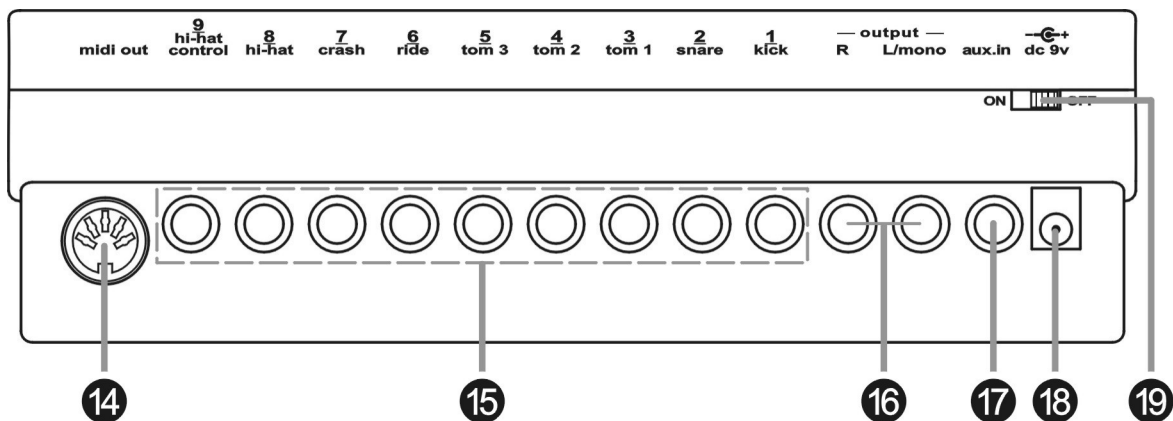
8. [drum off] button and indicator

This button is used to turn on or turn off the percussion of song.

9. Beat indicator

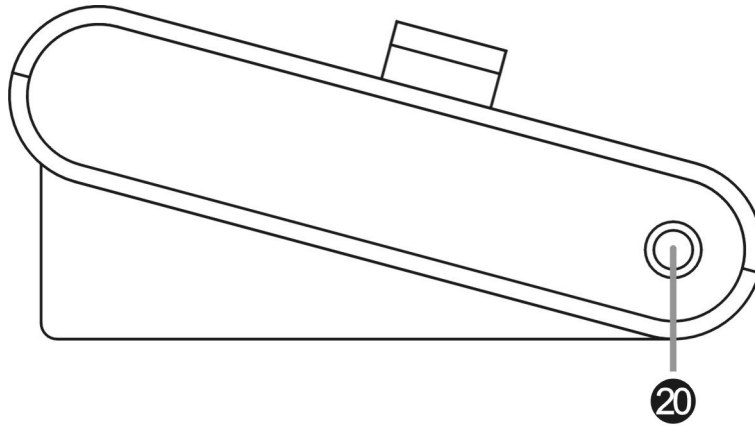
2. **[save] button**
Save current kit setting to a user kit.
3. **[start/stop] button**
Start or stop song playing.
4. **[kit] button**
Display the drum kit number.
5. **[voice / volume] button**
Display the voice number or volume value.
6. **3-digit LED display**
Display the parameters of current menu mode.
7. **[song / volume] button**
Display the song number or accompaniment volume value.
10. **[click] button**
Turn on or off the metronome.
11. **[+] and [-] buttons**
These buttons are used to change the setting number of kit, voice, song and adjust the Pad volume.
12. **Pad select buttons and indicators**
Select current pad and adjust the pad volume. When you press them, the corresponding indicator lights up.
13. **[tempo - / +] and [tap] buttons**
Change current tempo.

Rear Panel



14. **MIDI out jack**
Connect with external sound module.
15. **Trigger input jacks**
Connect with pads, cymbals, hi-hat control, kick trigger.
16. **Output jacks (R, L/mono)**
Connect with the amplifier or audio system. For monaural output use the L/mono jack.
17. **Aux.in jack**
Connect with external sound source.
18. **Power supply jack (DC in 9V)**
Connect an AC adaptor to this jack.
19. **Power switch**
Turn the power on/off.

Side Panel



20. Phones jack

Connect with to 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.

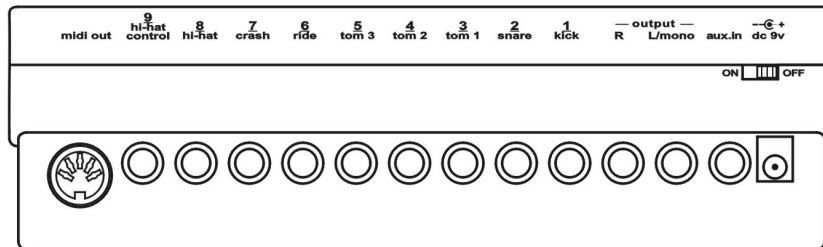
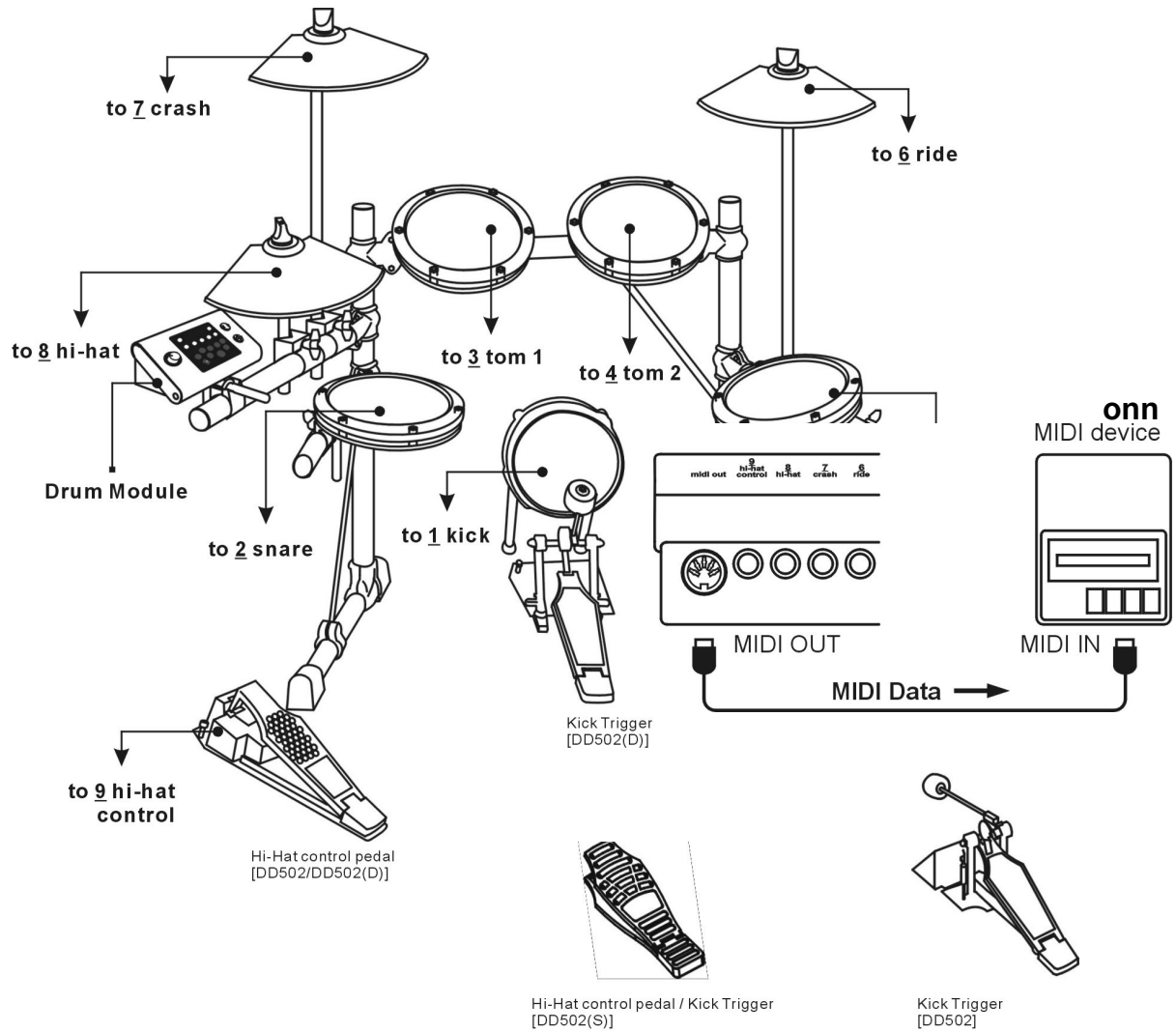
Connect the Pads and the Pedals

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 unctions 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 a MIDI device



MIDI device

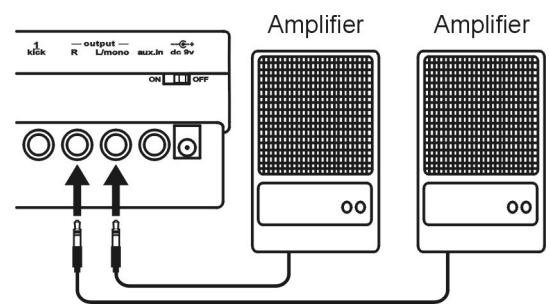
This is for you want to use an external sound module or MIDI sequencer.

Transmit MIDI Data

1. Use a MIDI cable to connect the MIDI OUT jack on the drum module with the MIDI IN jack on the external MIDI device.
2. This drum will output all the MIDI codes generated by pads hitting or pedal stepping via the MIDI output connector. But clicking and the MIDI codes in songs are excluded.

Connect a audio equipment

1. When you want to listen to the voices with an amplifier,

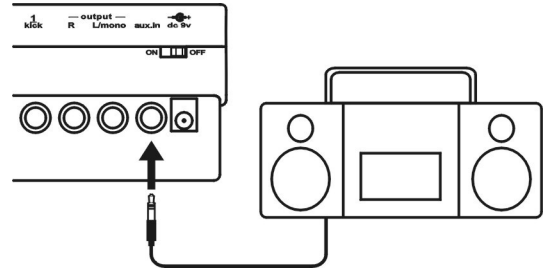


connect amplifiers with the Output L/MONO and R jacks on the rear panel. (For monaural playback, use the L/MONO jack; for stereo playback, connect both L/MONO and R jacks.)

2. The volume is adjusted with the VOLUME knob.

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

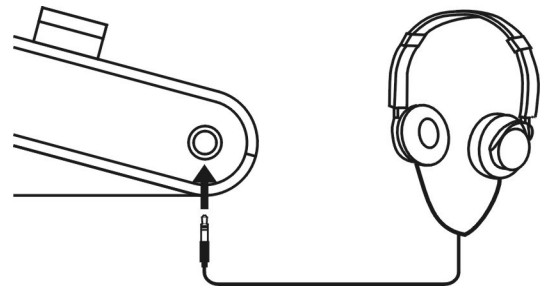
1. The audio output of a CD player, or other audio source, to connect with the AUX IN jack on the rear panel can be mixed with the sound of the drum. This function is convenient that lets you play along with a favourite song.
2. The volume of the external signal is adjusted with the VOLUME knob.



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

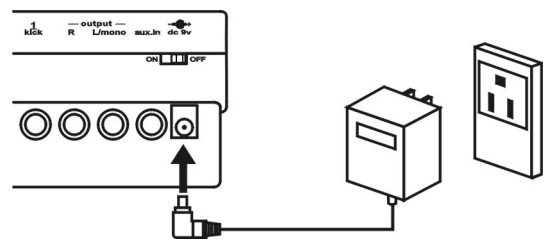


Connect the Power supply jack

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

Note:

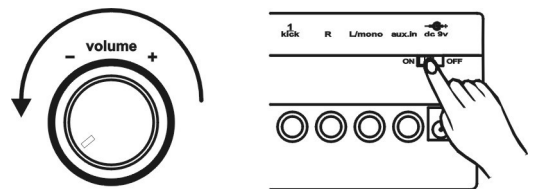
1. To protect the speakers, amplifier and the drum module from damage, rotate the volume knob to the minimum volume level before switching the power ON.
2. Make sure the power is switched OFF when connecting drum module with external devices.



Functions

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.

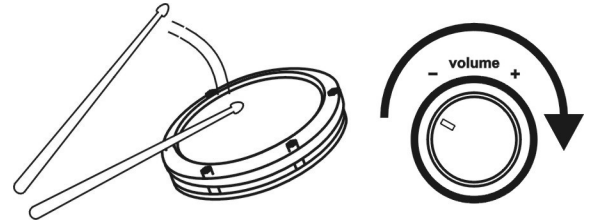


Set the power switch to "on" position to switch on the power. Display shows the song's number and its indicator lights up.



Set the main volume

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



Select a drum kit

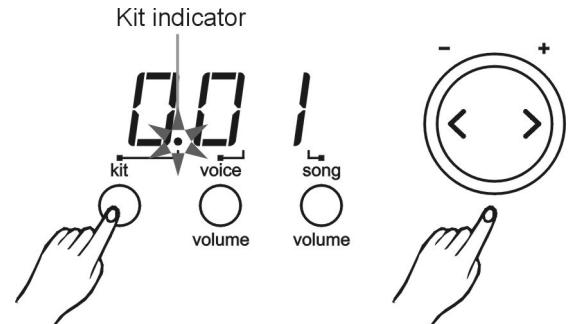
The unit comes with 20 (001-020) preset drum kits and 10 user

kits (021-030). (Reference song list : page 14.)

1. Press [kit] button

The current kit number appears and the Kit indicator lights.

2. Press [+] or [-] buttons to select the drum kit number (001 - 020) you want to use.

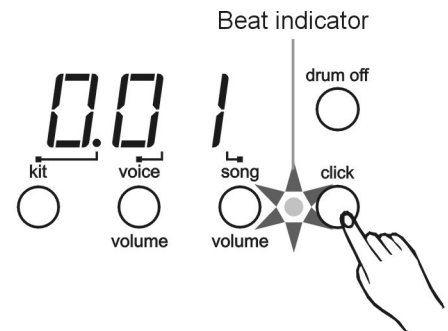


Play with a Metronome

1. Press the [click] button to start the metronome. The beat indicator is flashing and the click sound begins to play.

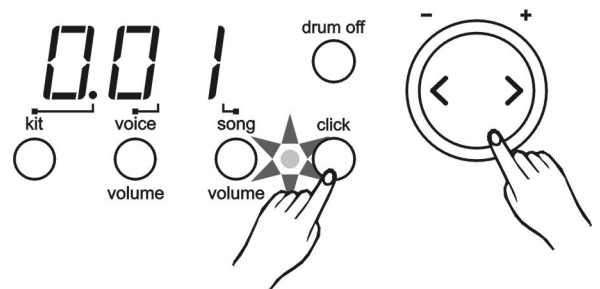
2. Press the [tempo +] or [tempo -] buttons to set the metronome beat.

3. Press the [click] button again to stop the metronome.



Adjust the volume of the click sound

Hold down the [click] button and press the [+] or [-] buttons to adjust the volume of the click sound, the metronome automatically play.



*When playing the metronome:

The metronome stops immediately when holding down [click]

button, and pressing the [+] or [-] buttons on the click sound.

*Volume of the click sound will be reset to default once power is on.

Play a Song

Select a song

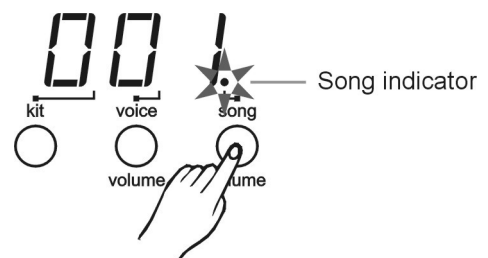
This drum module has a total of 50 preset songs.

Note: The preset song setting is 001 after you slide on power.

1. Press [song / volume] button.

The song indicator lights and the current song's number appears.

2. Press [+] or [-] button to select one of the song and listen to it.



Song numbers 001 - 050 are preset songs.

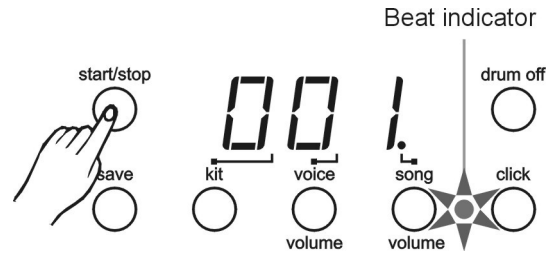
(Reference song list : page 14.)

Listen to the song

1. Press [start/stop] button and the beat indicator is flashing.
After the counting, 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

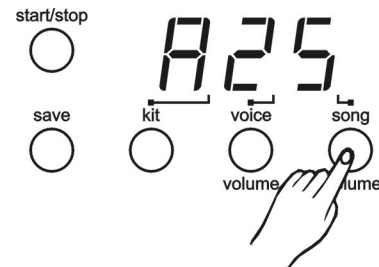
* The ASSIGN pad's indicator flashes at the first beat of each measure

Note: The ASSIGN pad's indicator can be lighted off by pressing both [hi-hat] and [kick] button at the same time.



Adjust the song's volume

1. Press the [song / volume] button to select the volume of song. Display shows : " A XX".
(XX = level value, 00 to 31)
2. Press [+] or [-] button to adjust the volume of song accompaniment.



Adjust the song's tempo

1. Press the [tempo +] or [tempo -] button. Display shows the current tempo value.
2. Press the [tempo +] or [tempo -] button to increase or decrease the tempo. (tempo value in the range or 30 to 280)

*Holding down either a [tempo +] or [tempo -] button to change the setting in a high speed.

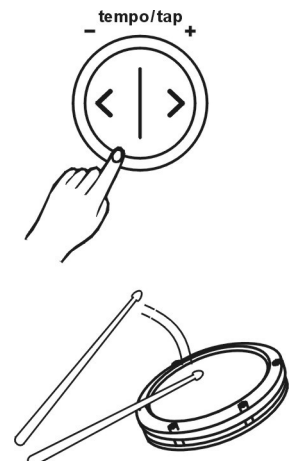
*Press [tempo +] and [tempo -] buttons at the same time to reset the tempo to default value.

Note: About 2 seconds after you stop pressing the [Tempo] button, display changes to show your selected song or kit number instead of tempo value.

Tap tempo function

This function allows you to set the song's tempo by tapping in tempo on a pad.

1. Press the [tap] button. Display shows the current tempo value.
2. Tap on the pad in the tempo that you want to get.
Tap on the pad 4 times. The last two beats are only



detected and are set as your desired speed.

3. The song will be played with your desired tempo you set.

When the song is playing, you are not allowed to change the tempo with this tempo function.

*Any pads can do the tap tempo function.

Mute a Drum part

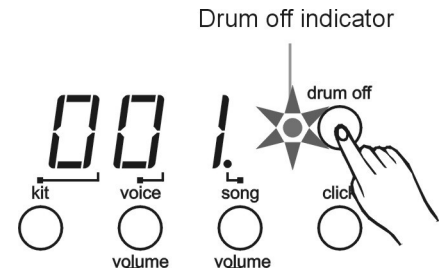
1. Press [drum off] button. The drum off indicator lights.

The drum mute function is active.

2. Press [start/stop] button to playback the song. The drum part in the song will be muted.

3. To cancel the drum mute function, press [drum off] button again. The drum off indicator light goes off.

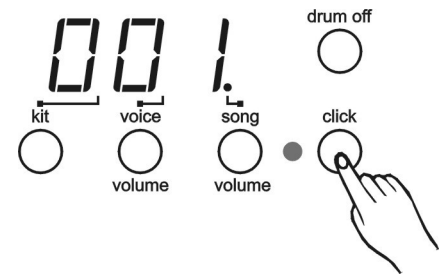
*The drum mute function can be used during song playing.



Play with a the Click voice

1. Press the [click] button to start the metronome. It will be played with tempo.

2. Press the [click] button again to stop the metronome.



Note: The click voice will not stop automatically once the song finished until you press the [click] button.

Use the lighting guide function

The lighting guide function provides you a valuable lesson to practice or learn the drum kit with playing the preset song.

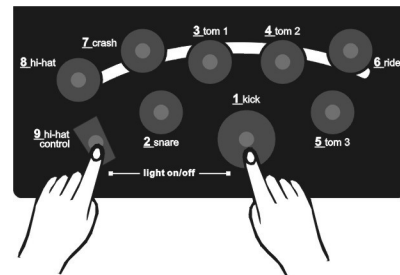
1. Select the song number you want to practice.

2. Press [drum off] button.

3. Press [start/stop] button to start song play.

4. Strike the pad in accordance with the lighting of pad's indicators or press the hi-hat pedal and kick the bass drum pad exactly when their indicators light.

*During song playing, you can change the Tempo(speed), hat control] + [kick] buttons again to or use the tap tempo function to set your desired tempo. on all the pad's indicator.



Press the [hi-hat control] + [kick] buttons to turn off all the pad's indicator. Press the [hi-

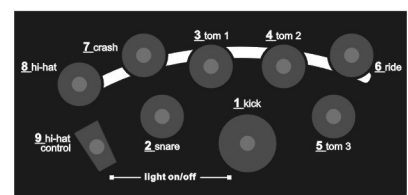
turn



Create a User Drum Kit

Set a drum voice

The unit comes with 215 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



Pad buttons

voice you want. (Reference voice list : page 13.)

The kit number 021-030 is use for saving your own drum kit.

1. Press [voice] button.

The voice indicator lights and the display shows the voice number of this pad.

2. 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

Adjust the volume of Pad

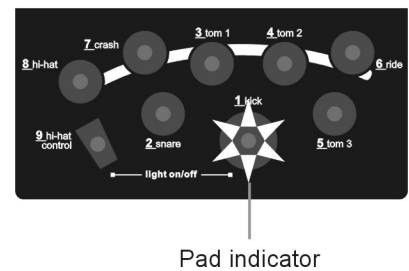
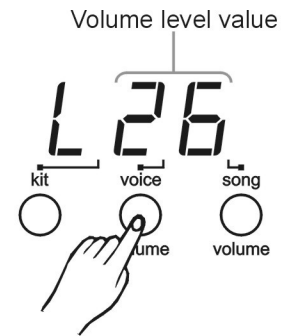
This unit allows you to adjust the volume of every voices in the kit that let you control the individual level (volume) of the pads or bass drum.

1. Press the [voice / volume] button to select the volume level setting display shows : " L XX". (XX = level value, 00 to 31). The pad button indicator lights and display shows the current volume level of lighting pad.

3. Press the [PAD] button or kit the percussion pad you want to adjust.

4. Press the [+ / -] 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.

5. Repeat step 3 and 4 to adjust the volume of other pad voices.



Save your drum kit voices

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.

1. Press [save] button.

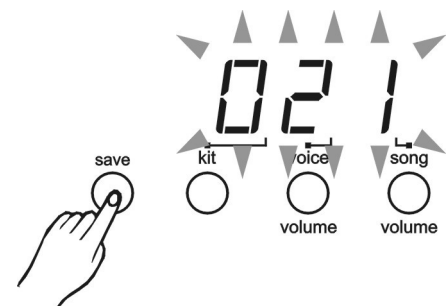
The kit number 021 appears and is flashing.

2. Press [+] or [-] button to set the kit number (021-030) for saving your drum kit.

3. Press [save] button again. The flashing kit number stops.

Note: To cancel the save operation, press the [voice] button.

If there is a fault, the display will show "Err".



Specifications

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

Voices: 215 voices

Drum kits: 20 preset kits, 10 user kits

Song: 50 preset songs

Controls: POWER SWITCH, 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 + / -, TAP

Display: LED display

Connections: MIDI OUT
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 (DC 9V)

Voice List

Number	Name					
	Acoustic Base Drum	054	RowDrum 1	107	Tom-T 3 L	
		055	RowDrum 2	108	Tom-T 3 F	
001	BD Head	056	RowDrum 3	109	Tom-EI 4	
002	Real BD 1			110	Tom-EI 3	
003	Real BD 2		Electronic Snare Drum	111	Tom-EI 2	
004	Real BD 6	057	SD-Ana 2	112	Tom-EI 1	
005	BD Std 1	058	SD-Ana 6			
006	BD Std 2	059	SD-Ana 7		Cymbal	
007	Room BD 1	060	SD-Ana 11	113	CrashStd	
008	Room BD 2	061	SD-Danc 5	114	CrashBrt	
009	Lo BD	062	SD-Danc 6	115	CrashSt 2	
010	Rock BD 1	063	SD-Elec	116	SftCrash	
011	Rock BD 3	064	Syn-SD 1	117	CrashSt 3	
012	Rock BD 4	065	Syn-SD 7	118	CrashSht	
013	BD-Var 3	066	Syn-SD 8	119	CrshThin	
014	BD-Var 5	067	Syn-SD 11	120	CrashRev	
015	Big Drum 1	068	Cool-SD 1	121	CrashRol	
016	Big Drum 2	069	HD-SD 1	122	CrashSt 4	
		070	Brush 1	123	RideBel 1	
	Electronic Base Drum	071	Brush 2	124	RK Ride 2	
017	BD-Analg	072	Brush 3	125	RideBStd	
018	MrDance 1	073	Brush 5	126	Splash C 1	
019	MrDance 2	074	Brush 7	127	Cymbel 2	
020	MrDance 5	075	Brush 8	128	Cymbel 3	
021	Lo-BD 1	076	Brush 10	129	BigGong 1	
022	Lo-BD 2	077	Brush 13	130	BigGong 2	
023	Hard BD 3			131	B.Cymb1 1	
			Acoustic Tom	132	B.Cymb1 2	
	Acoustic Snare Drum	078	Tom-Std 5	133	S.Cymb1 2	
024	SD-Std 1	079	Tom-Std 3	134	S.Cymb 2 M	
025	SD-Std 2	080	Tom-Std 2	135	SmalGong	
026	SD-Std 3	081	Tom-Std 1			
027	SD-Std 4	082	Tom-Jaz M		Hi-Hat	
028	SD-Std 5	083	Tom-Jaz F	136	H.H Cls 1	
029	SD-R 1	084	Tom-Brs H	137	H.H Cls 3	
030	SD-R 2	085	Tom-Brs M	138	H.H Cls 4	
031	SD-R 5	086	Tom-Brs L	139	H.H Opn 1	
032	Snare 1	087	Tom-Brs F	140	H.HCNor 1	
033	Snare 2	088	Tom-BRK H	141	RK HHcls	
034	Snare 4	089	Tom-BRK M	142	H.H Opn 3	
035	Snare 5	090	Tom-BRK L	143	Open HH 2	
					160	Clavis 1
					161	Clavis 2
					162	Conga-Hi
					163	Conga-M 1
					164	Conga-M 2
					165	Conga-3
					166	Conga-4
					167	Conga-5
					168	CowBell 1
					169	CowBell 2
					170	Cuica H
					171	Cuica L
					172	Fsnap
					173	Guiro 1
					174	Guiro 2
					175	HiQ
					176	JingBell
					177	Maracas 1
					178	Maracas 2
					179	MetroBel
					180	MetroClk
					181	Scrach
					182	Shake
					183	Surdo 1
					184	Surdo 2
					185	Tabla 1
					186	Tabla 2
					187	Tabla 3
					188	Tabla 4
					189	TalkD
					190	TalknDrD
					191	TalknDrU
					192	TalknDrV
					193	Tambouri
					194	TimbleH
					195	TimbleL
					196	TimblePH
					197	TimblePL
					198	Triangle
					199	TriagMut
					200	VibrSlap

036 Snare 6
037 SD-Std 21
038 SD-Std 22
039 SD-Std 23
040 SD-Std 24
041 SD-Std 25
042 SD-Std 26
043 SD-Std 27
044 SD-Std 28
045 SD-Std 29
046 SnareDr 1
047 SnareDr 5
048 SnareDr 6
049 SnareDr 7
050 SnareDr 8
051 SidStik 1
052 SidStik 2
053 SnarTimb

091 Tom-BRK F
092 Tom-Rom 6
093 Tom-Rom 5
094 Tom-Rom 4
095 Tom-Rom 3
096 Tom-Rom 2
097 Tom-Rom 1
098 Tom-Rm 2 L
099 Tom-Rm 2 F

Electronic Tom

100 TomH-A
101 Tom-A 5
102 Tom-A 4
103 Tom-A 3
104 Tom-A 2
105 Tom-A 1
106 Tom-T 1 M

144 Open HH 3
145 Open HH 4
146 RK HHOpn
147 Open HH 7
148 HH pedl 1
149 HH pedl 2
150 Ana Hh 1

Percussion

151 Agogo-1
152 Agogo-2
153 Bell Tre
154 Bongo Hi
155 Bongo Lo
156 Cabasa 1
157 Cabasa 2
158 Castanet
159 ClapA

201 Whistal
202 XfadeTri
203 Smallwod
204 BoardDr 1
205 BoardDr 2
206 LotusBrd
207 BanbuBrd
208 SouthBan
209 B.WdFish
210 S.WdFis 1
211 S.WdFis 2
212 S.WdFis 3
213 S.WdFis 4
214 ImpacBel
215 ImpaBel M

Drum Kit List

No.	Name
001	Standard 1
002	Standard 2
003	Dance 1
004	Jazz Latin
005	Room 1
006	Electric
007	Brush
008	Room Stick
009	Latin 1
010	Latin 2

No.	Name
011	Jazz
012	Brush 2
013	Dance Stick
014	Orchestra
015	Drum & Bass
016	House
017	Rhythm & Blues
018	Ungle
019	China LuoGu
020	Oriental 1

Song List

No.	Name	Beat
001	Guitar	4/4
002	Accordion Fusion	4/4
003	Folk Pop	4/4
004	Rock	4/4
005	Blues	4/4
006	Newage	4/4
007	Reggae Funk	4/4
008	Drum & Bass	4/4
009	Pop 8 Beat	4/4
010	Dance	4/4
011	Drk -2	4/4
012	Pop 3	4/4
013	Pop 5	4/4
014	Jazz 1	4/4
015	Rhythm & Blues 4	6/8
016	Ballad 1	4/4
017	Ballad 2	4/4
018	Ballad 4	4/4
019	Ballad 5	4/4
020	Ballad 6	4/4
021	Waltz	3/4

No.	Name	Beat
026	Reggae	4/4
027	Shuffle 1	4/4
028	Rhythm & Blues 3	4/4
029	Rock 'N' Roll 1	4/4
030	8 Beat 4	4/4
031	8 Beat 2	4/4
032	16 Beat	4/4
033	March	4/4
034	Latin 6	4/4
035	Funk 3	4/4
036	Fusion 2	4/4
037	Rock 'N' Roll 2	4/4
038	Hard Rock 3	4/4
039	Rock Pop 2	4/4
040	Funk 1	4/4
041	Funk 4	4/4
042	Jazz 3	6/8
043	Dance 1	4/4
044	Dance 2	4/4
045	Mambo	4/4

022	Slow Rock	6/8,9/8	046	Rhythm & Blues 1	4/4
023	Rock Pop 4	4/4	047	Rhythm & Blues 2	4/4
024	Latin 4	4/4	048	Ballad 3	4/4
025	Latin 5	4/4	049	Jing Opera	4/4
			050	Chinese Rhythm	2/4

MIDI Implementation Chart

Function...		Transmitted	Remarks
Basic	Default	10 ch	
Channel	Changed	X	
	Default	X	
Mode	Messages	X	

Altered		*****	
Note		0- 127	
Number:	True voice	*****	
Velocity	Note on	O 9Nh, V=1-127	
	Note off	X (9NH,V=0)	
After	Key's	X	
Touch	Channel's	X	
Pitch Bend		X	
Control	0	X	Bank Select
Change	1	X	Modulation
	5	X	Portamento Time
	6	X	Data Entry
	7	X	Volume
	10	X	Pan
	11	X	Expression
	64	X	Sustain Pedal
	65	X	Portamento ON/OFF
	66	X	Sostenuto Pedal
	67	X	Soft Pedal
	80	X	Reverb Program
	81	X	Chorus Program
	91	X	Reverb Level
	93	X	Chorus Level
	120	X	All Sound OFF
	121	X	Reset All Controller
	123	X	All Notes OFF
Program		X	
Change:	True #	X	
System	Exclusive	X	
System	: Song Position	X	
Common	: Song Select	X	
	: Tune	X	
System	: Clock	X	

Real Time : Commands	X	
Aux : Local ON/OFF	X	
: All Notes OFF	X	
Messages : Active Sense	X	
: Reset	X	

O:YES

X:NO