User Manual

Nu-X Drum System

DIGITAL DRUM KIT
DM-4
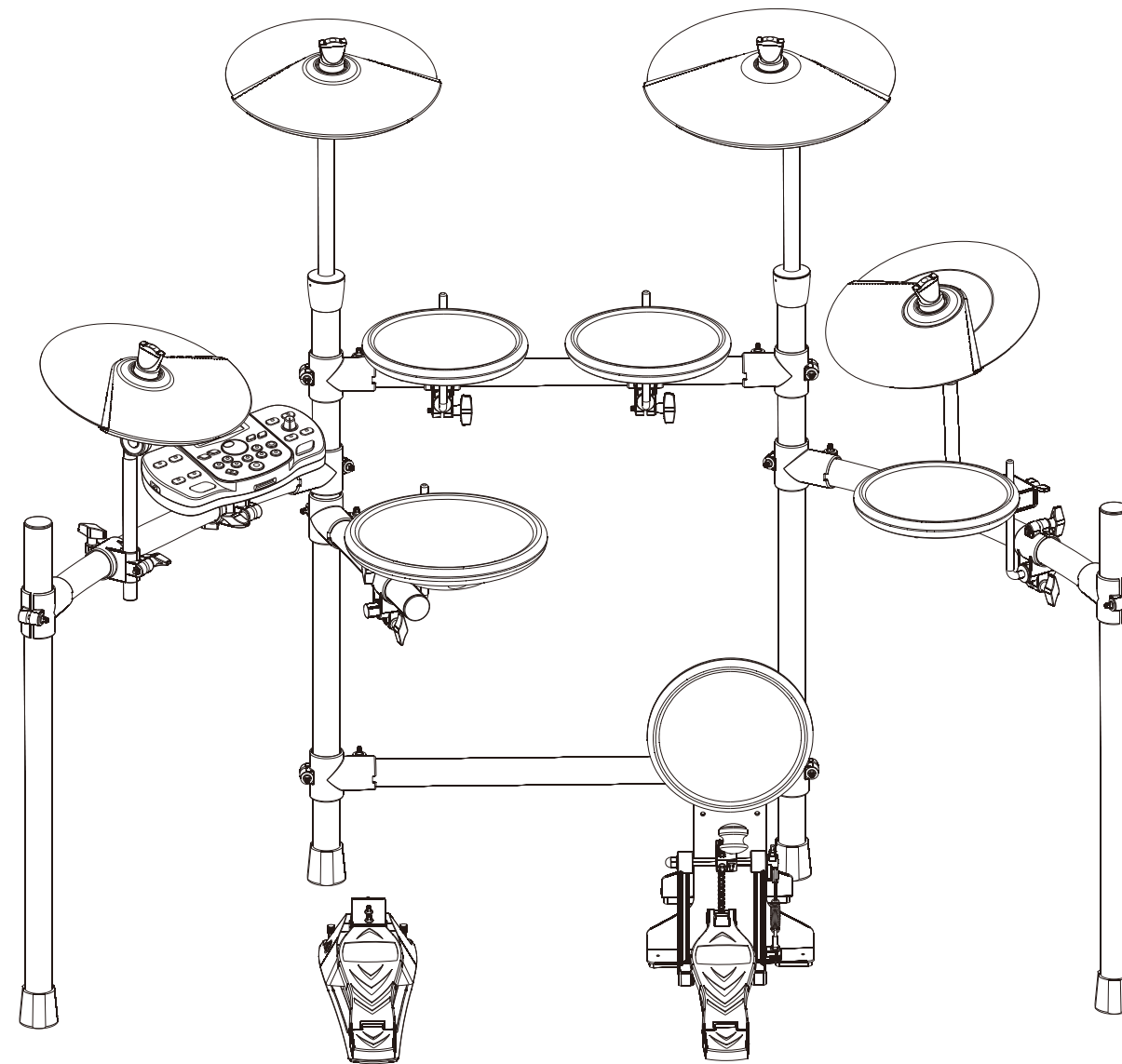
NUX

Cherub Technology Co.,Ltd
www.nuxefx.com

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠WARNING and⚠CAUTION Notices   About the Symbol

⚠ **WARNING**	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used Improperly.

⚠ **CAUTION**	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

ALWAYS OBSERVE THE FOLLOWING

⚠WARNING

- Before using this unit, make sure to read the instructions below and the Ownerds Manual.

- Do not open (or modify in any way) the unit or its AC adaptor.

- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Cherub Service Center.

- Never use or store the unit in places that are: Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are Damp (e.g., baths, washrooms, on wet floors); or Are Humid; or Are Exposed to rain; or Are Dusty; or Are Subject to high levels of vibration.

- This unit may be installed on a stand using a Clamp.

- When installing the unit on a stand with a clamp, the stand must not be placed in an unstable location or on an incline, but in a level and stable position. Even if a stand is not used,make sure that the unit is placed in a stable location.

⚠WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptors body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock Hazards!

- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an Audiologist.

- Do not allow any objects (e.g., flammable material,coins, pins); or liquids of any kind (water, soft drinks,etc.) to penetrate the unit.

⚠WARNING

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Cherub Service Center.

  The AC adaptor or the power-supply cord has been damaged; or
  If smoke or an unusual odor occurs
  Objects have fallen into, or liquid has been spilled onto the unit; or
  The unit has been exposed to rain (or otherwise has become wet); or
  The unit does not appear to operate normally or exhibits a marked change in performance.

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

- Protect the unit from strong impact. (Do not drop it!)

- Do not force the units power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cordsthe total power used by all devices you have connected to the extension cords outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

- Before using the unit in a foreign country, consult with your retailer, the nearest Cherub Service Center.

⚠ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

- Always grasp only the output plug or the body of the AC adaptor when plugging into, or unplugging from, this unit or an outlet.

- Any accumulation of dust between the AC adaptor and the power outlet can result in poor insulation and lead to fire. Periodically wipe away such dust with a dry cloth. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time.

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

- Never climb on top of, nor place heavy objects on the unit.

- Never handle the AC adaptor body, or its output plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.

- If you need to move the instrument, take note of the precautions listed below. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.
  Check to make sure that the clamp that fixes the unit to the stand has not become loose. Fasten them again securely whenever you notice any loosening.
  Disconnect the power cord.
  Disconnect all cords coming from external devices.

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.

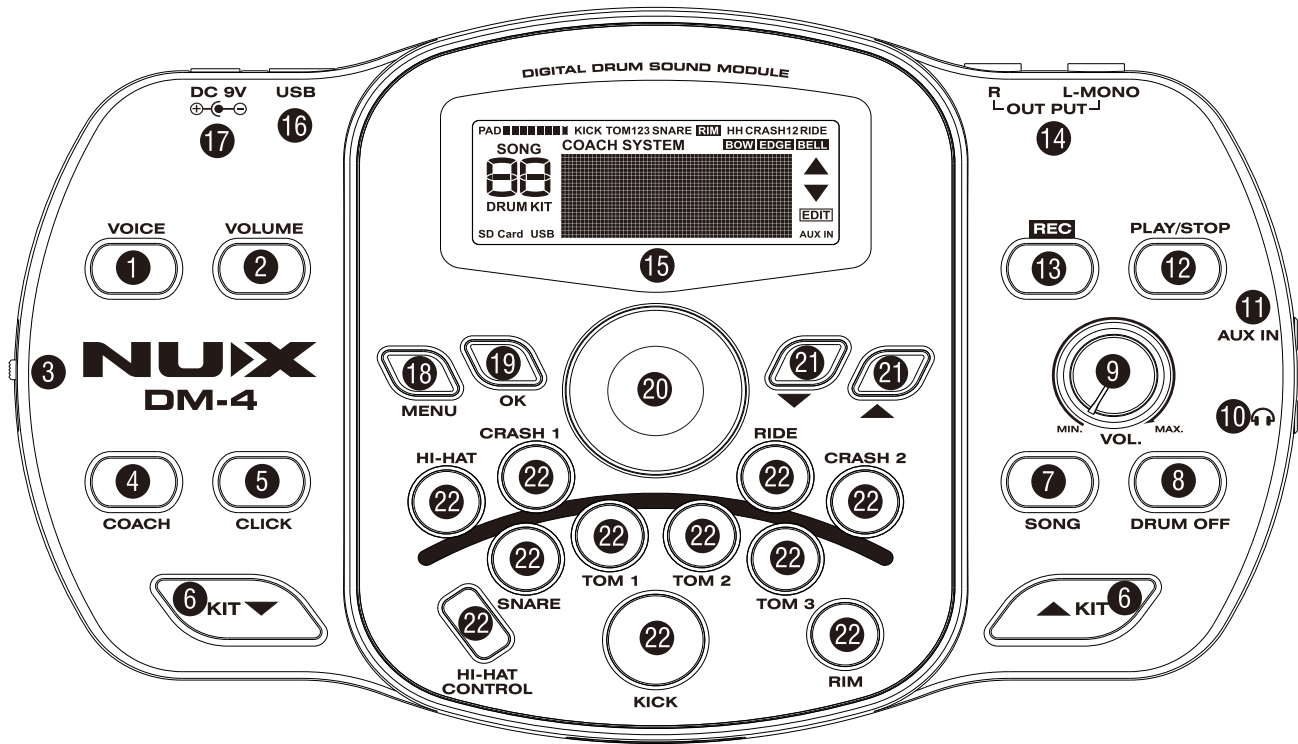- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

- Should you remove security screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

CONTENTS

PANEL AND INTERFACE

Top Panel

1. VOICE Button
   Press **VOICE** button to adjust the pad's voice.

2. VOLUME Button
   Press **VOLUME** button to adjust the pad's volume.

3. POWER Switch
   Turn on/off the power

4. COACH Button
   Press **COACH** bottom to enter coach function.

5. CLICK Button
   Turn on/off the metronome.

6. KIT▲▼ Buttons
   Press ▲▼ to switch drum kits.

7. SONG Button
   Select demo songs.

8. DRUM OFF Button
   Mute the drum part from demo song.

9. VOLUME Knob
   Adjust the volume of the OUTPUT and HEADPHONE jacks.

10. HEADPHONE Jack

11. AUX IN Jack
   For connecting an external audio source such as MP3 or CD player. All sound input here will be sent to the OUTPUT and HEADPHONE jacks.

12. PLAY Button
   Play what you recorded, and the demo songs.

13. REC Button
   Press **REC** button to record your playing.

14. OUTPUT Jack (L/MONO, R)
   These are the main stereo outputs. If you only output mono signal, use only the **L/MONO** jack.

15. LCD Display
   This shows the drum kit name, song's name and other information. During editing, this shows the contents of the settings.

16. USB Port

17. DC IN Jack
   Connect the 9V DC adaptor here.

18.MENU Button.
Press **MENU** button to enter the main menu.

19.OK Button
Use this to confirm a value you've edited.

20.VALUE Knob
Adjust the parameter you are editing.

21.▲ and ▼ Buttons
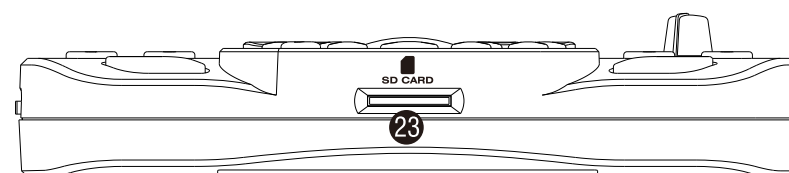Choose the menu item you want to edit.

22.Drum Pad Buttons
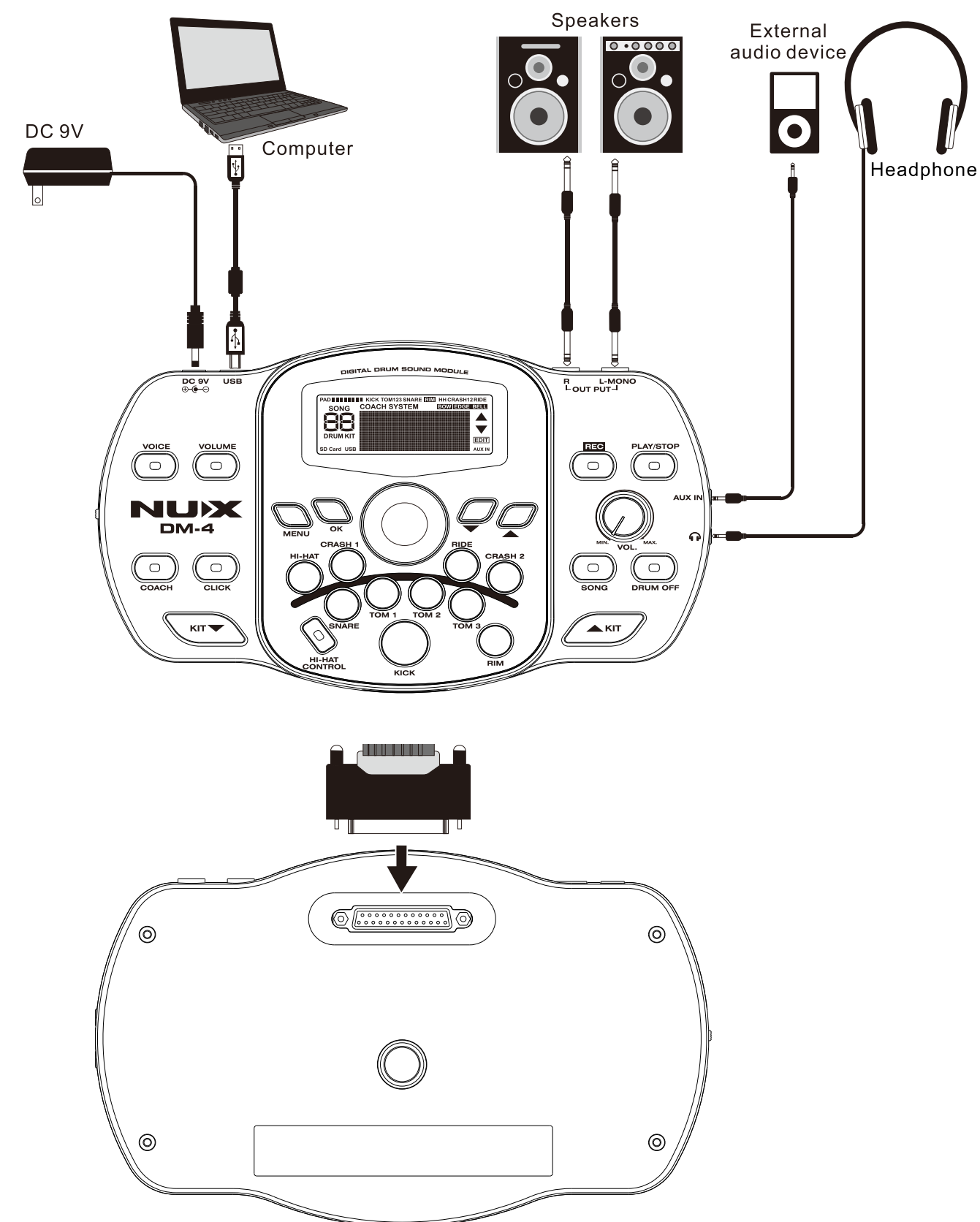Press the drum pad button to choose it and make a corresponding sound.

Front Panel

23.SD Card Slot
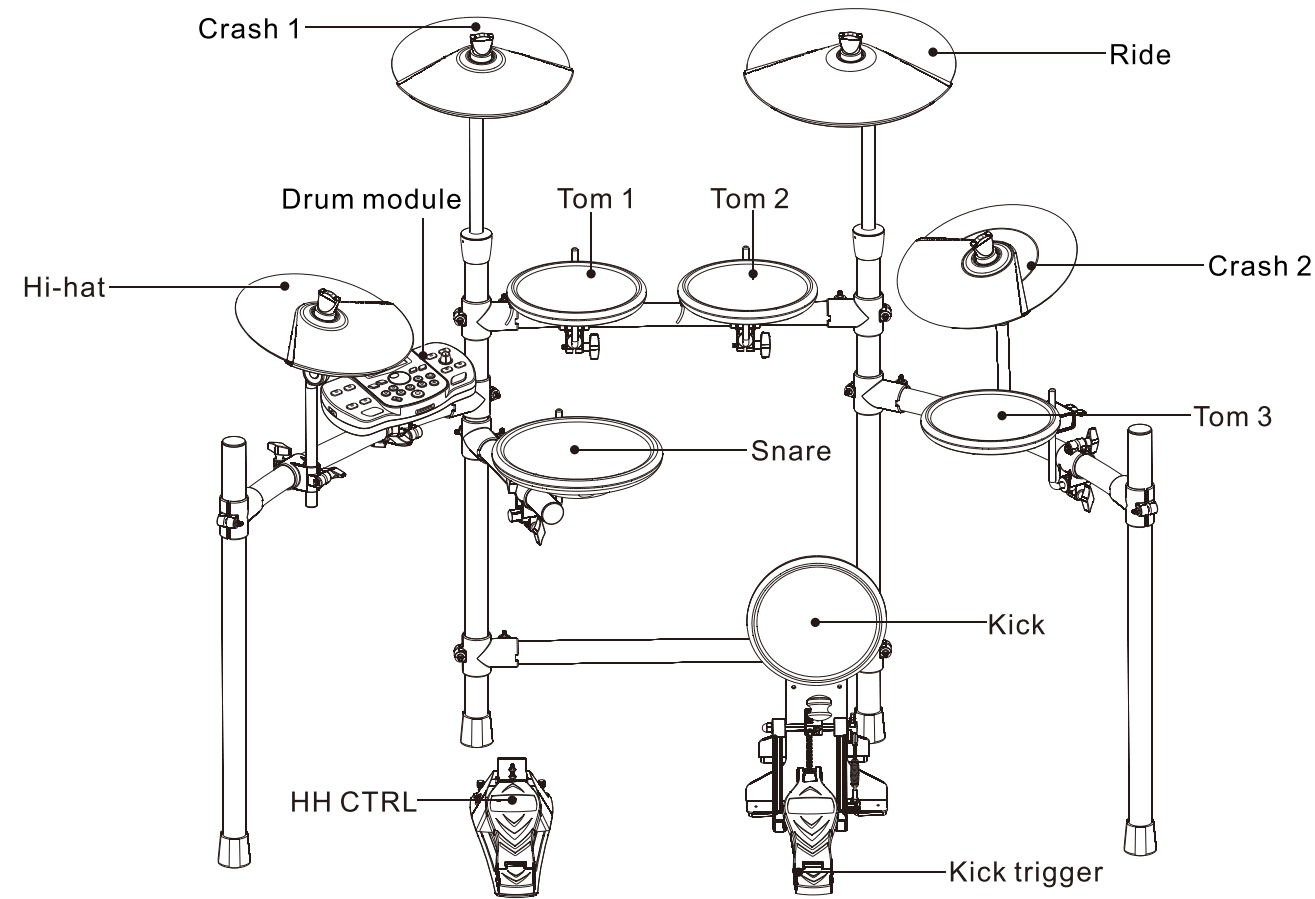For MIDI song playing through SD card.

CONNECTION

NOTE:
To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making connections.

MOUNTING THE DM-4 ON THE STAND

Crash 1
Ride
Drum module
Tom 1
Tom 2
Crash 2
Hi-hat
Tom 3
Snare
Kick
HH CTRL
Kick trigger

1.Attach the included sound module mounting plate to the DM-4.
Use included wing bolts to attach the plate as shown in the illustration.
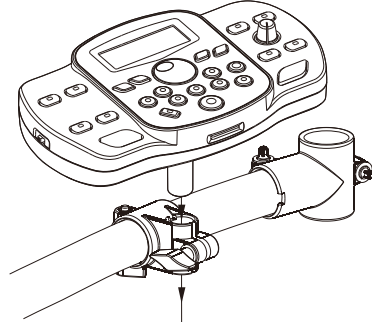
2.Attach the DM-4 (with the sound module mounting plate installed) to your drum stand.

3.Connect the included cable to the DM-4's TRIGGER IN connector, and connect your pads and pedals.
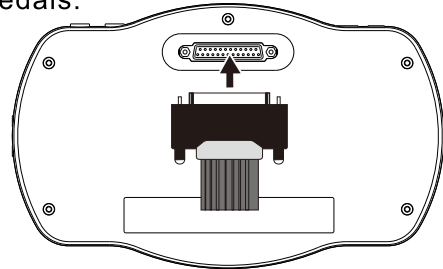
Labels indicating the pad to be connected are attached to the cable.
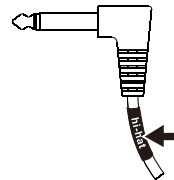
Connect the pads and pedals as shown in the illustration.
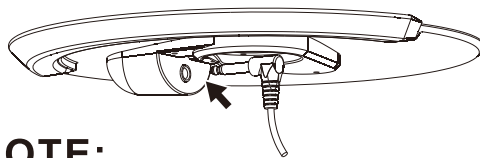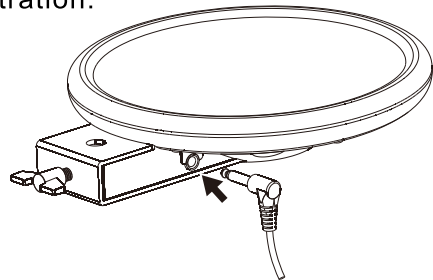
NOTE:
To protect device, when connect to device, please power off.

SCREEN DISPLAY

K J I
A — PAD KICK TOM123 SNARE RIM HH CRASH12 RIDE
B — SONG COACH SYSTEM BOW EDGE BELL
C — 88 ▲
D — DRUM KIT ▼ — H
E — SD Card USB
F G
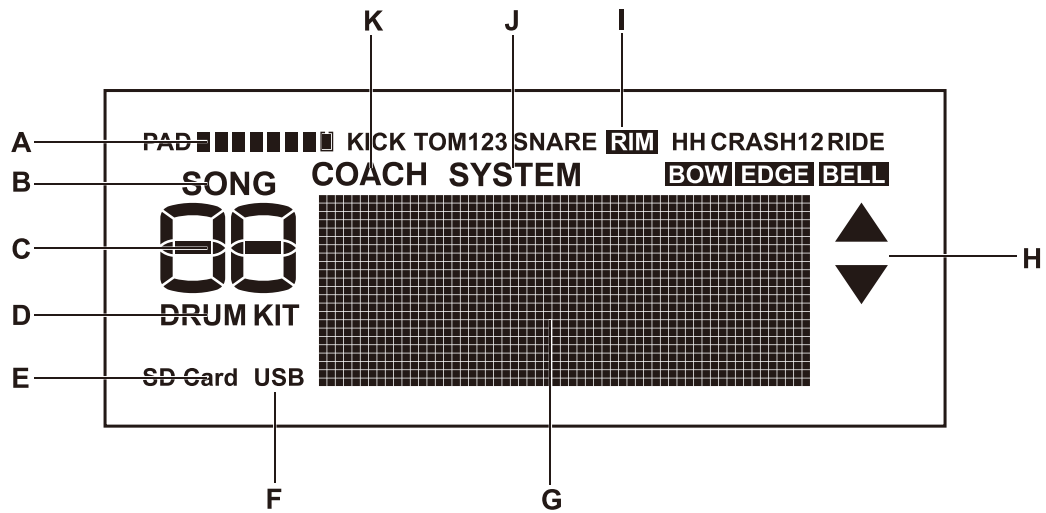
A.Strength of the pad strike displayed in 8 levels.

B.SONG indicator

C.Drum kit number or SONG number

D.Drum kit indicator

E.SD card indicator

F.USB connection indicator

G.Dot matrix area

H.▲ and ▼ indicator

I.Pad name display

J.SYSTEM setting indicator

K.COACH function indicator

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READY TO PLAY

Turn ON/OFF the Power

*Turn on the power

1. Turn the VOL knob to the minimum.
2. Adjuct the volume of the connected amp or audio system to the minimum.
3. Turn the power switch to ON.

*Turn off the power

1. Turn the volume of DM-4 and external equipments to the minimum.
2. Power off the external equipment.
3. Turn the power switch to OFF.

```
Welcome to
NUX-DRUM
DM-4
```

*You may still hear some sound when the power is switched on, this is normal, and does not indicate a malfunction.

After power on, LCD will display drum kit number and name.

Pad velocity
Drum kit Number
Preset or User

```
PAD
01PRKit1
DRUM KIT
Preset
```

Drum kit name

NOTE: *Preset indicate preset Drum Kit; User indicate user Drum kit*

4. Power on the external amp or audio system.
5. While hitting a pad, gradually turn the VOL knob toward the right to adjust the volume.

Performance Techniques

*Snare

Head Shot
Hit only the head of the pad.
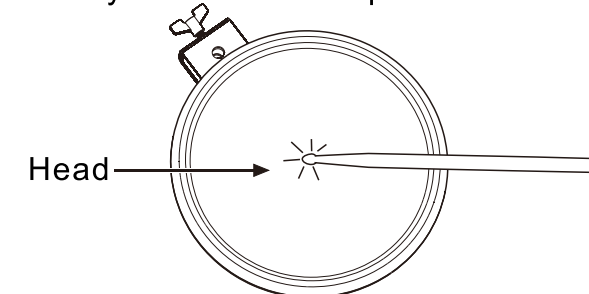
Head

Open Rim Shot
Strike the rim of the pad.

Rim
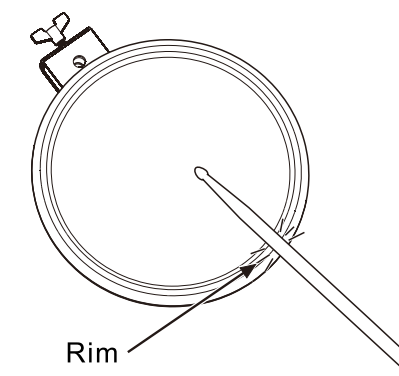
*Tom

Head Shot
Hit only the head of the pad.
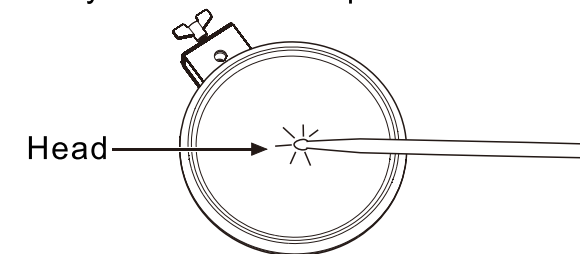
Head

*Kick

Head Shot
Hit only the head of the pad.
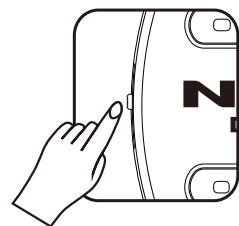
Head
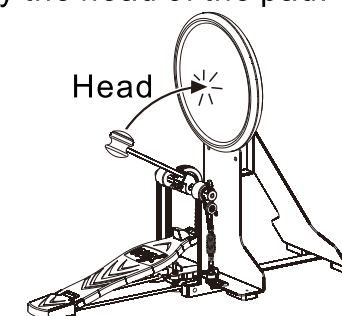
*Cymbals (Crash Ride)

Bow Shot
Hit the middle area of the cymbal.

Bow
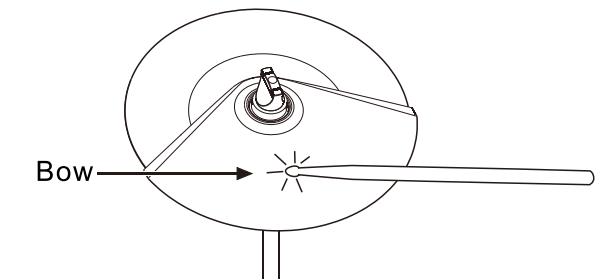
Edge Shot
Strike the edge with the shoulder of the stick.
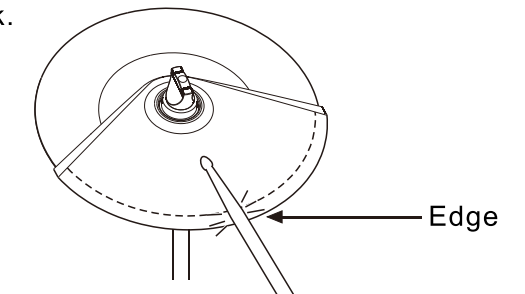
Edge

Choke a Cymbal
Pinch the cymbal's edge immediately after hitting the cymbal will choke the sound, just like with a real cymbal. The Choke function only works when you grasp in the sensing area.

Sensing area
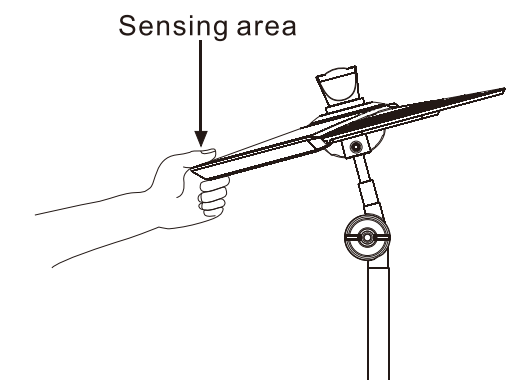
*Hi-Hat

Open/Closed
The hi-hat sound will change smoothly between open and closed depending on pressure applied to the hi-hat control pedal.Foot closed and foot splash sounds are possible.

Bow Shot
Hit the middle area of the hi-hat pad.

Bow
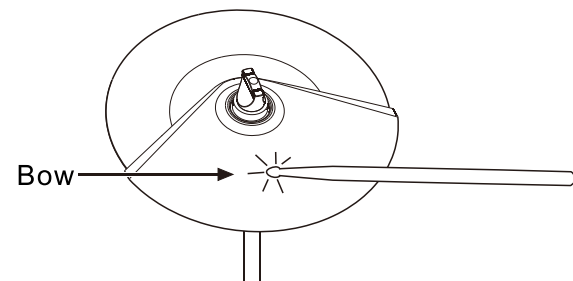
Choke a Cymbal
Choke the cymbal's edge with the hand immediately after hitting the cymbal will mute or choke the sound, just like with a real cymbal. The choke function only works when you grasp in the area.

Sensing area
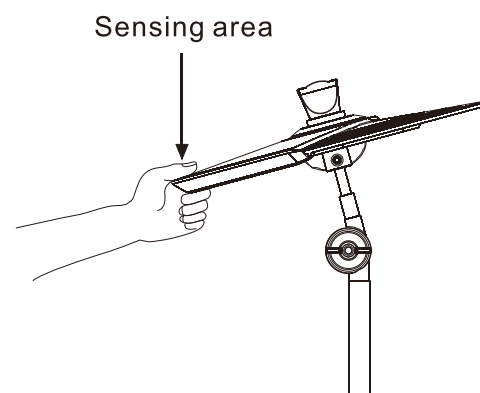
*Hi-Hat Control Pedal
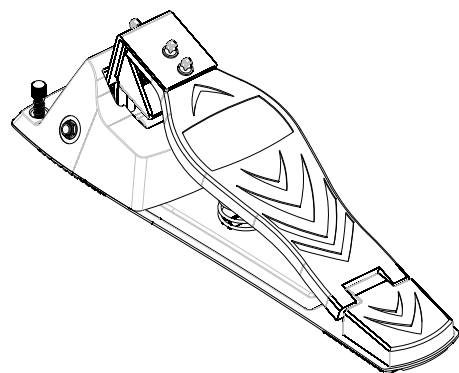
Open Hi-Hat
Strike the hi-hat without pressing the pedal.

Closed Hi-Hat
Strike the hi-hat with the pedal pressed.

DRUM KIT OPERATION

Selecting a Drum Kit

When you turn on the DM-4, you are in drum kit mode. A drum kit is a combination of the sounds and settings for each pad and pedal, as well as ambience.

1. Press the KIT▲ and ▼ buttons to select drum kit.
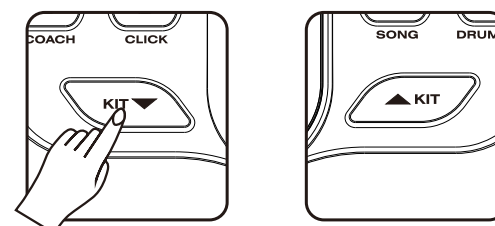
2. Press the KIT▲ and ▼ buttons under any mode will get back to DRUM KIT mode.

Setting the Drum Kit

1. Use the KIT▲ and ▼ buttons to select the drum kit that you want to edit.

2. Press the MENU button.

3. Use the ▲ and ▼ buttons to select the desired menu.
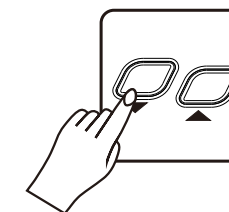
4. Turn the VALUE dial to select the pad which you want to edit. (You also can select the pad through striking the pad you want to edit)
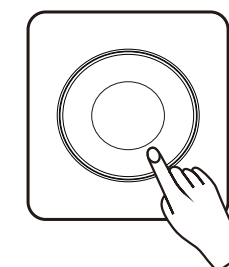
5. When you've selected the desired menu, press the OK button.
   Example: PAD SET MENU
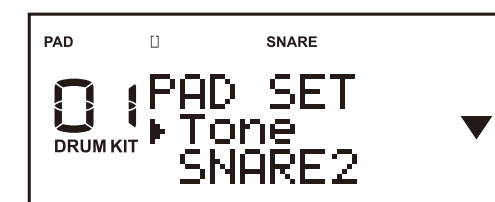
6. When you've finished making settings, press the MENU button; you'll return to the DRUM KIT screen.

Pad Settings

1. In the menu screen, choose "PAD SET" and press the OK button.

```
PAD        SNARE
01 PAD SET
▶Tone            ▼
DRUM KIT  SNARE2
```
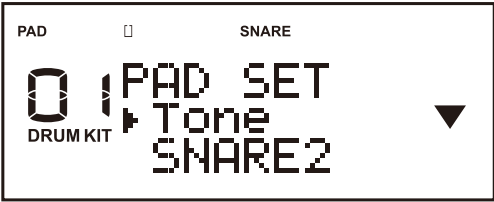
2. Use the ▲ and ▼ buttons to select a parameter.
3. Strike a pad to select the pad whose settings you want to edit.
4. Use the VALUE dial to edit the setting.
5. Press the OK button to return to the "MENU" screen.

Screen Display	Parameter	Value	Description
`01 PAD SET ▶Tone SNARE2 ▼`	TONE	SNARE1-SNARE33	Selects instrument type
`01 PAD SET ▶Volume 100 ↕`	VOLUME	0-127	Specifies the instrument volume
`01 PAD SET ▶Pan CENTER ↕`	PAN	L64-CENTER-R63	Specifies Instrument pan position
`01 PAD SET ▶Pith 0 ↕`	PITCH	-8—0—+8	Specifies Instrument pitch
`01 PAD SET ▶Curve LINEAR ↕`	CURVE	LINEAR LOG EXP LOUD	Adjusts the curve of volume change in response to your playing velocity
`01 PAD SET ▶REV LEVEL 64 ↕`	REVERB LEVEL	0-127	Specifies the instrument reverb level
`01 PAD SET ▶CHR LEVEL 64 ↕`	CHORUS LEVEL	0-127	Specifies the instrument chorus level

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

Volume / LINEAR / Striking force
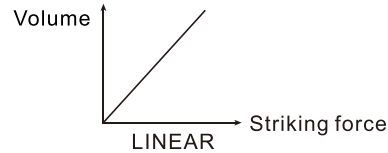
LOG
Compared to LINEAR, a soft playing produces a greater change.
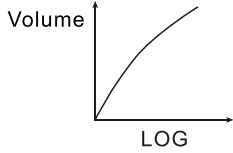
Volume / LOG

EXP
Compared to LINEAR, strong dynamics produce a greater change.

Volume / EXP
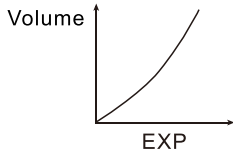
LOUD
Very little dynamic response, making it easy to maintain strong volume levels. If using drum triggers, these settings help maintain stable levels.

Volume / LOUD / Striking force
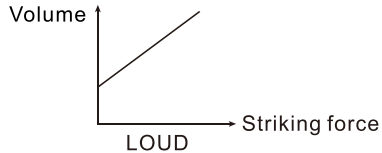
Setting Effects in a Drum Kit

1. In the menu screen, choose "EFX SET" and press the OK button.

```
PAD        SNARE
01 +++MENU+++ ▲
DRUM KIT 2-EFX SET ▼
```
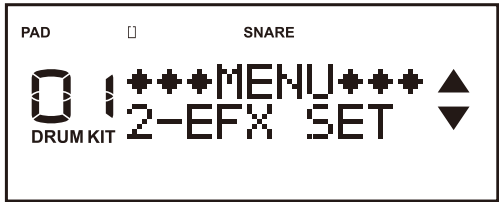
2. Use the UP and DOWN buttons to select a parameter.
3. Use the VALUE dial to edit the setting.
4. Press the OK button to return to the "MENU" screen.

Screen Display	Parameter	Value	Description
`01 EFX SET ▶REV STYLE ▼ OFF`	REVERB STYLE	OFF ROOM1 ROOM2 ROOM3 HALL1 HALL2 PLATE DELAY PAN DELAY	Selects reverb type. When selecting OFF, the reverb turn off.
`01 EFX SET ▶CHR STYLE ▼ OFF`	CHORUS STYLE	OFF CHORUS1 CHORUS2 CHORUS3 CHORUS4 FEEDBACK FLANGER SHORT DELAY FB DELAY	Selects chorus type. When selecting OFF, the chorus turn off.
`01 EFX SET ▶EQ SWITCH ON`	EQ SWITCH	ON/OFF	Turns ON/OFF the EQ function.
`01 EFX SET ▶EQLOW 0dB ↕`	EQ-LOW	-12db—+12db	Adjusts the low frequency
`01 EFX SET ▶EQL.MID 0dB ↕`	EQL-MID	-12db—+12db	Adjusts the low-mid frequency
`01 EFX SET ▶EQH.MID 0dB ↕`	EQH-MID	-12db—+12db	Adjusts the high-mid frequency
`01 EFX SET ▶EQHIGH 0dB ↕`	EQ-HIGH	-12db—+12db	Adjusts the high frequency

Naming a Drum Kit

1. In the menu screen, choose "3-KIT NAME" and press the OK button.

```
PAD          ⧉          SNARE
01 +++MENU+++ ▲
DRUM KIT 3-KIT NAME ▼
```

2. Press the UP and DOWN button to move the cursor to the character that you want to edit.

3. Use the VALUE dial to change the letters.

```
PAD          ⧉          SNARE
01 KIT NAME
DRUM KIT PRKit1     ▼
                    ▲
```

4. Press the OK button to return to the "MENU" screen.

Saving a Drum Kit

1. In the menu screen, choose "4-KIT SAVE" and press the OK button.

```
PAD          ⧉          SNARE
01 +++MENU+++ ▲
DRUM KIT 4-KIT SAVE ▼
```

2. Use the VALUE dial to choose the drum kit number.

```
PAD          ⧉          SNARE
01 KIT SAVE
DRUM KIT ▶Dest: 26
         OK ?
```
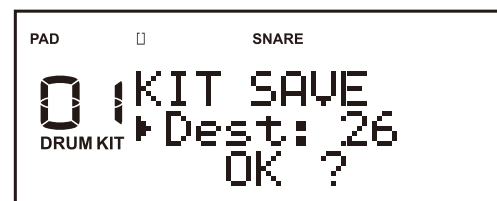
3. Press the OK button to execute the save operation.

4. When operation is completed, you'll be returned to the drum kit screen automatically.

DEMO FUNCTION

1. In the drum kit mode, press SONG button to enter into the DEMO mode.

```
PAD          ⧉
SONG
01 SONG1
     Preset
```
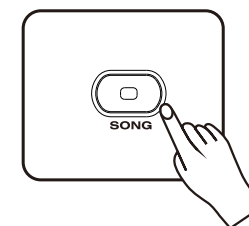
NOTE: *Preset indicates DEMO in the device
User indicates user record.
SD indicates DEMO in SD card*

2. Use the VALUE dial to choose the demo song you want to play.

3. Press the PLAY button to play the song.

4. You can turn off the drum part of the demo song by pressing the DRUM OFF button.

NOTE: *Each demo song has their own tempo.*

Song setting

1. In the menu screen, choose "6-SONG" and press the OK button.
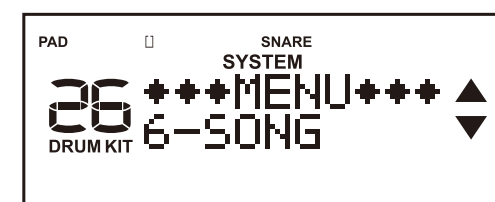
```
PAD          ⧉          SNARE
                     SYSTEM
26 +++MENU+++ ▲
DRUM KIT 6-SONG      ▼
```

2. Press the UP and DOWN button to select a parameter.

3. Use the VALUE dial to adjust the parameter value .

```
PAD          ⧉          SNARE
                     SYSTEM
26 SONG
DRUM KIT ▶DRUM OFF  ▼
         NO
```

4. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
`26 SONG ▶DRUM OFF ▼ NO`	DRUM OFF	NO/YES	Turns ON/OFF the drum part of a song.
`26 SONG ▶BACK VOL ▲▼ 38`	BACK VOLUME	0-127	Adjusts the volume of the backing track.
`26 SONG ▶CYCLE ▲ YES`	CYCLE	NO/YES	Switchs on/off loop play.

NOTE:
*The parameter will be saved automatically when exiting this mode.
(except DRUM OFF parameter)*

METRONOME FUNCTION

Press the CLICK button. The metronome starts and the screen will indicate the tempo.

1.In the menu screen, choose "5-CLICK" and press the OK button.
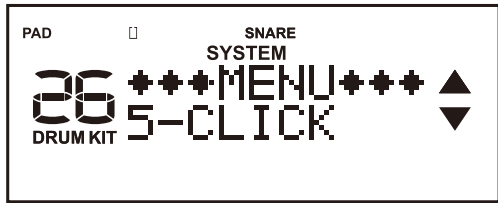
2.Press the UP and DOWN button to select a parameter.

3.Use the VALUE dial to adjust the parameter value.
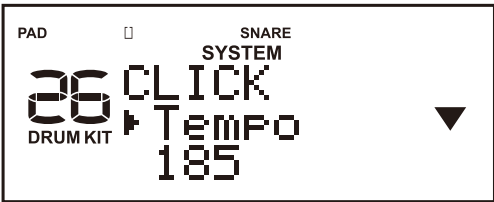
4. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
	TEMPO	40-220	Specifies the tempo of the metronome.
	BEAT	1-9	Specifies the time signature of the metronome.
	RHYTHM	♩♫♫♬	Specifies the note value that will be sounded by the metronome.
	VOLUME	0-127	Specifies the volume of the metronome.
	SOUND	Click、Cowbell	Specifies the sound of the metronome.

NOTE: *The parameter will be saved automatically when exiting this mode.*

RECORDING AND PLAYBACK FUNCTION

Please first select the drum kit that you want to use for recording.
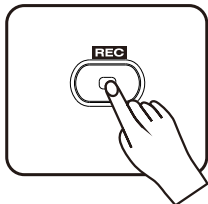
1.Press the REC button, and the DM-4 will enter recording-standby mode.

2.Hit any pad/pedal and recording begins.

NOTE:
1.when recording, if no drum signal input for more than 4s, it will stop recording and displays COMPLETE!
2.when recording, if memory is full, it will stop recording and display MEMFULL!

3.To stop recording, press the REC button again. If you exceed the maximum recording time, recording stops automatically.

4.Press the PLAY button to PLAYBACK you recorded.

5.When recording, press SONG button to turn on the demo song , so you can record your play with backing track. (when SONG light is lit, it means the demo song is playing while recording at the same time.)

COACH FUNCTION

1. Under Drum Kit Mode, press COACH button to turn on Coach function.

```
PAD    ▯
       COACH
01 ◆Practice◆ ▼
   TIME CHECK
```

2. Press Up/Down to select the training function and press OK to enter, or press CLICK button start training.

```
PAD    ▯
       COACH
01  CLICK
      to Start
    TIME CHECK
```

● TIME CHECK
You can train your timing under this mode.

```
PAD    ▯
       COACH
01 ◆Practice◆ ▼
   TIME CHECK
```

1) In TIME CHECK mode, press CLICK button to start practicing.

NOTE: During practicing, you can change the tempo by turning the VALUE knob.

```
PAD    ▯
       COACH
01 45-1 ♩=131 ▼
        52%
   S------∇-----f
```
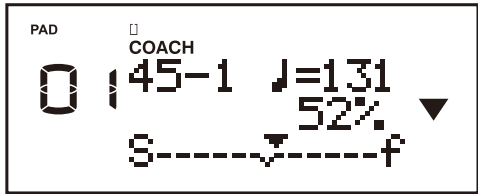
2) The LCD shows if your timing matches the metronome. The triangle on the LCD moving towards S means you are slow compared to the metronome; towards F means you are fast. It also shows the percentage of your accuracy.

3) In TIME CHECK mode, press MENU button to set parameters.

Use Up/Down buttons to select the parameter item that you want to edit;

Turn the VALUE knob to change the value.

```
PAD    ▯
       COACH
01 TIME CHECK
   ▶Tempo
    185
```

● TEMPO CHECK
Under this mode, you can practice in a consistent tempo.

```
PAD    ▯
       COACH
02 ◆Practice◆ ▲
   TEMPOCHECK ▼
```

1) In TEMPO CHECK mode, press CLICK button to start practicing.

NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) Sync the tempo of the pads and the metronome.

NOTE: The more accurate you play, the less volume the metronome sounds. The LCD also shows the percentage of your accuracy.

```
PAD    ▯
       COACH
02 2-3 ♩=131
       52%
   ■ ■ ○
```
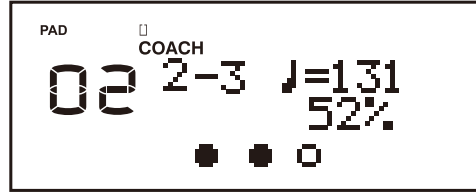
3) In TEMPO CHECK mode, press MENU button to set parameters.

Use Up/Down buttons to select the parameter item that you want to edit;

Turn the VALUE knob to change the value.

```
PAD    ▯
       COACH
01 TEMPOCHECK
   ▶Tempo
    185
```
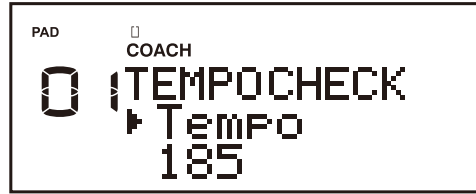
● QUIET COUNT
Under this mode, the metronome sound will be alternately on and off for you to train your timing.

```
PAD    ▯
       COACH
03 ◆Practice◆ ▲
   QUIETCOUNT ▼
```
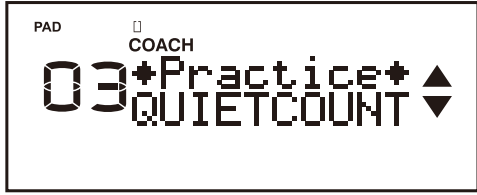
1) In QUIET COUNT mode, press CLICK to start practicing.

NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) The metronome will play for a few bars, and the LCD will display "Ready" at the last bar.

```
PAD    ▯
       COACH
03  4-1 ♩=131

    Ready
```
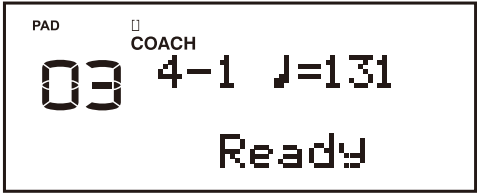
3) When the metronome sound is off (metronome still counting internally), the LCD will display "Quiet". You keep playing in accordance to the tempo in your memory.

```
PAD    ▯
       COACH
03  1-◆ ♩=131

    Quiet
```
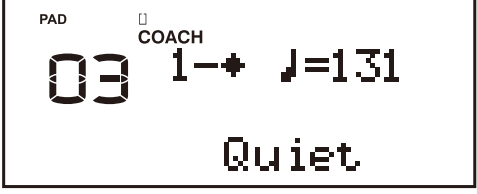
4) When the metronome sound comes back again, the LCD will display the accuracy of your playing during the time when the metronome sound was off.
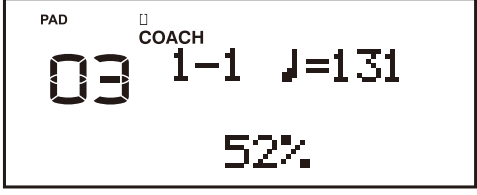
```
PAD    ▯
       COACH
03  1-1 ♩=131

    52%
```

5) In QUIET COUNT mode, press MENU button to set parameters.

Use Up/Down buttons to select the parameter item that you want to edit;

Turn the VALUE knob to change the value.

```
PAD    ▯
       COACH
03 QUIETCOUNT ▼
   ▶Count
    4
```

● AUTO UPDOWN

```
PAD    ▯
       COACH
04 ◆Practice◆ ▲
   AUTOUPDOWN
```

1) In AUTO UP DOWN mode, press CLICK to start practicing.

NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) Sync the tempo of the pads and the metronome.

```
PAD    ▯
       COACH
04  1-1 ♩=120
        00%
    120→160
```
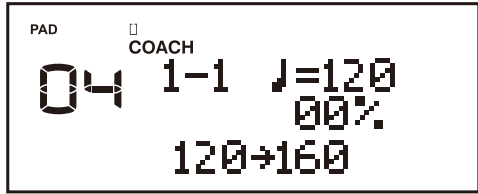
The tempo of the metronome will change between the first tempo and the second tempo. You accuracy will be display on the LCD.ill synchronize with the pads.
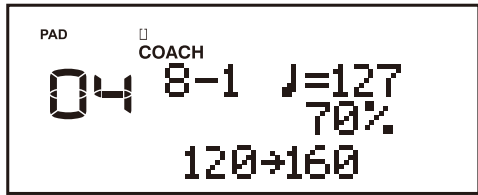
```
PAD    ▯
       COACH
04  8-1 ♩=127
        70%
    120→160
```

3) In QUIET COUNT mode, press MENU button to set parameters.

Use Up/Down buttons to select the parameter item that you want to edit;

Turn the VALUE knob to change the value.

```
PAD    ▯
       COACH
04 AUTOUPDOWN
   ▶Rate       ▼
    1
```
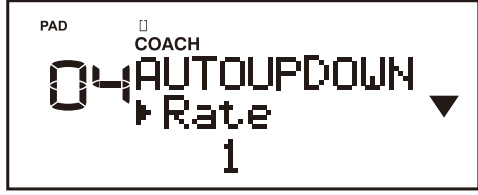
SYSTEM SETTINGS

Pad settings

1. In the menu screen, choose "7-TRIGGER" and press the OK button.

```
PAD            SNARE
          SYSTEM
01+++MENU+++  ▲
DRUM KIT 7-TRIGGER  ▼
```
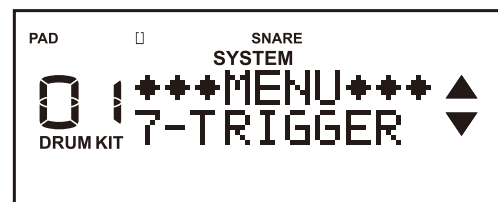
2. Use the VALUE knob to choose the pad you want to edit.

3. Press the UP and DOWN button to select a parameter item.

4. Use the VALUE knob to change the parameter value.
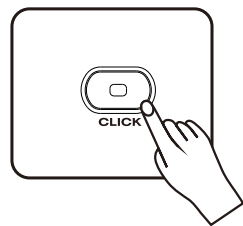
5. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
```PAD SNARE SYSTEM 01 TRIGGER DRUM KIT ▶Sensitive ▼ 1.0```	SENSITIVE	0.1-3.2	You can adjust the sensitivity of the pads to accommodate your personal playing style. Higher sensitivity allows the pad to produce a loud volume even when played softly. Lower sensitivity will keep the pad producing a low volume even when played forcefully.
```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶Thresh ▼ 0```	THRESHOLD	0-16	This setting allows a trigger signal to be received only when the pad is above a determined dynamic level(velocity). This can be used to prevent a pad from sounding because of vibrations from other pads.

Example: B will sound but A and C will not sound.
When set to a higher value, no sound is produced when the pad is struck lightly. Gradually raise the "Threshold" value while striking to pad.
Check this and adjust accordingly. Repeat this process until you get the perfect setting for your playing style.

```
Threshold
      A      B      C
```

```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶Scan-T ▼ 2ms```	Scan Time	2ms-12ms	Specifies the detection time for the trigger signal. Since the rise time of the trigger signal waveform may differ slightly depending on the characteristics of each pad or acoustic drum trigger(drum pickup), you may notice that identical hits(velocity) may produce sound at different volumes. If this occurs, you can adjust the "Scan Time" so that your way of playing can be detected more precisely.

While repeatedly hitting the pad at a constant force, gradually raise the Scan Time value from 2 ms, until the resulting volume stabilizes at the loudest level. At this setting, try both soft and loud strikes, and make sure that the volume changes appropriately.
As the value is set higher, the time it takes for the sound to be played increases. Set this to the lowest value possible.

```
  Scan Time

                    Time
```

| Screen Display	Parameter	Value	Description
```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶Mask-T ▼ 16ms```	Mask Time	4ms-64ms	This setting prevents double triggering. When playing a kick trigger, the beater can bounce back and hit the head a second time immediately after the intended note−with acoustic drums sometimes the beater stays against the head-is causes a single hit to"double trigger"). The Mask Time setting helps to prevent this. Once a pad has been hit, any additional trigger signals occurring within the specified 4-64 msec) will be ignored. Adjust the "Mask Time" value while playing the pad.

When using a kick trigger, try to let the beater bounce back and hit the head very quickly, then raise the "Mask Time" value until there are no more sounds made by the beater rebound.

* When set to a high value, it will be difficult to play very quickly. Set this to as low a value as you can.

```
              Mask Time

                    Time

Sound not produced
```

| ```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶Retrig-C ▼ 5```	Retrig-cancel	0-16	This setting prevents spurious re-triggering. Important if you are using acoustic drum triggers. Such triggers can produce altered waveforms, which may also cause inadvertent sounding at Point A in the figure (Re-trigger). This occurs in particular at the decaying edge of the waveform. Retrig Cancel detects such distortion in and prevents re-triggering from occurring.

While repeatedly striking the pad, raise the Retrig Cancel value until re-triggering no longer occurs.

* Although setting this to a high value prevents retriggering, it then becomes easy for sounds to be omitted when the drums played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no retriggering.

```
                 A

                    Time
```

```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶X-Talk ▼ 50%```	X-Talk cancel	0-80%	This setting cancels crosstalk which means that when you play one pad you hear a sound coming from another pad. This can happen when two pads are installed on the same stand. In some cases you can prevent crosstalk by increasing the distance between the two mounted pads.
```PAD SNARE SYSTEM 01 TRIGGER ▲ DRUM KIT ▶Rim Gain 1.0```	Rim Gain	0.1-3.2	You can adjust the relation between your playing velocity (force) on the rim/edge and the resulting volume level. Higher value allows the rim/edge to produce a loud volume even when played softly. Lower value will keep the rim/edge producing a low volume even when played forcefully.

NOTE: *The parameter will be saved automatically when exiting this mode.*

Restoring the Factory Settings

1. In the MENU, choose OPTIONS to enter the setting interface.
   Press ▲▼ key to choose the FAC RESET item, Press OK button to enter the interface of FAC RESET menu.

   ```
   PAD    ☐ KICK       SYSTEM
   01 OPTIONS
   DRUM KIT ▸FAC RSET  ▼
          OK ?
   ```
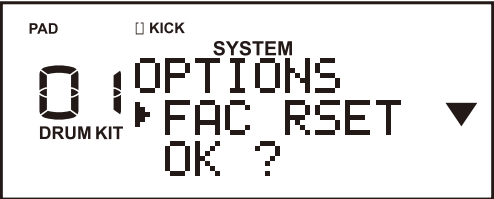
2. Press UP and DOWN to choose the options you want to restore:

   a. Restore the system data such as trigger, song, click etc.

   ```
   PAD    ☐      SNARE
                SYSTEM
   01 FAC RSET
   DRUM KIT ▸SYSTEM     ▼
          OK ?
   ```
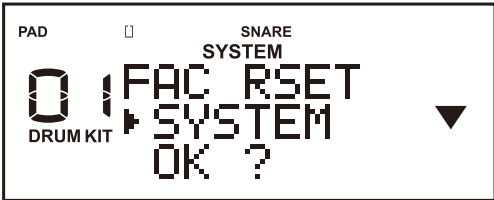
   b. Restore all data of drum kit.

   ```
   PAD    ☐      SNARE
                SYSTEM
   01 FAC RSET  ▲
   DRUM KIT ▸ALL KIT   ▼
          OK ?
   ```

   c. Restore all data.

   ```
   PAD    ☐      SNARE
                SYSTEM
   01 FAC RSET  ▲
   DRUM KIT ▸ALL
          OK ?
   ```
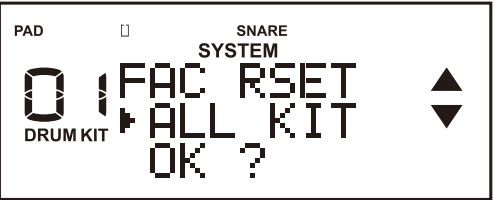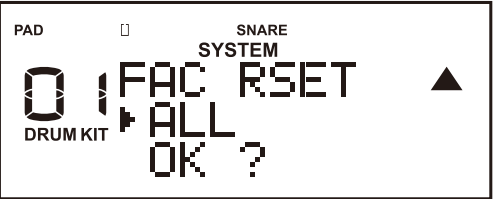
3. Press the OK button to return the MENU.

Basic Settings

1. In the MENU choose "9-OPTIONS" and press the OK button.

   ```
   PAD    ☐      SNARE
                SYSTEM
   01 +++MENU+++ ▲
   DRUM KIT 9-OPTIONS
   ```
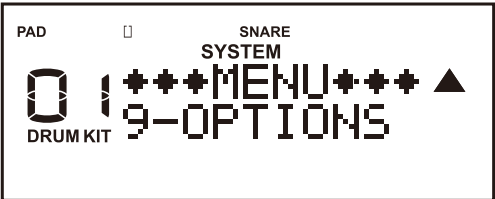
2. Press UP and DOWN to choose the options you want to edit.

3. Use the VALUE knob to change the parameter value.

4. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
```01 OPTIONS ▸LCD Contr ▼ 6```	LCD Contrast	1-10	Adjusts the LCD Contrast.
```01 OPTIONS ▸LCD Brigh ▲ 6```	LCD brightness	1-10	Adjusts the LCD brightness.
```01 OPTIONS ▸Edition ▲ V1.0```	Edition	V1.0	Shows firmware edition of the machine.

USB-MIDI Function

The DM-4 is equipped with a USB connector. When connected to your computer, the USB ICON will be lit on the LCD and start to transmit the MIDI IN/OUT.

```
PAD    ☐
01 PRKit1
DRUM KIT
   USB Preset
```
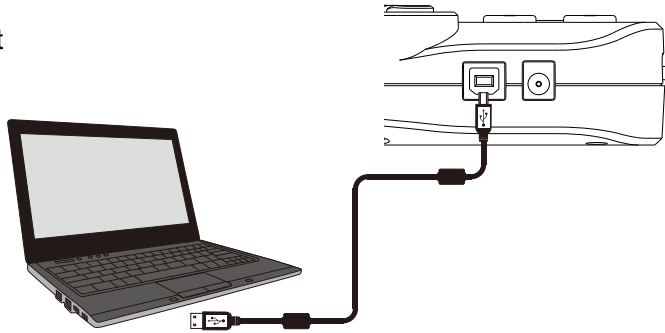
NOTE: *Before you connect the USB to computer, please close all software about USB-MIDI.*

SPECIFICATIONS

Maximum Polyphony: 64 voices
Display: Custom (backlit LCD)
Instruments : 232
Drum Kits: 50 (User: 25, Factory: 25)
Songs: 20
Recording: 10
Click Sound: Editable (Sound, Tempo, Rhythm Type, Beat, Volume)
MIDI Function: USB-MIDI
Capacity: SD card (MIDI Playing, MIDI Format 0/Format 1 Supported)
Triggers: Tomx3, Snare, Hi-Hat, Crashx2, Ride, Kick
Interfaces: Headphones, USB-MIDI, SD card, AUX IN, OUTPUTS
Power Supply: DC 9V (⊖–➤–⊕)

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarked
Basic default		10	1-16	
Channel changed		No	No	
Note		0-127	0-127	
Velocity：	Note on	Yes	Yes	
	Note off	No	Yes	
After　Key's		No	Yes	
Touch　Channel's		No	Yes	
Control change:	0	No	No	Bank select
	1	No	Yes	Modulation
	5	No	Yes	Portamento time
	7	No	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	No	Yes	Sustain pedal
	65	No	Yes	Portamento on/off
	66	No	Yes	Sostenuto pedal
	67	No	Yes	Soft pedal
	120	No	Yes	All sound off
	121	No	Yes	Reset all controllers
	123	No	Yes	All note off
Program change		No	Yes	Yes
System exclusive		No	No	No

Voice List

GM		
No.	Name	LCD
1	High Q	Gm1
2	Slap	Gm2
3	Scratch Push	Gm3
4	Scratch Pull	Gm4
5	Sticks	Gm5
6	Square Click	Gm6
7	Metronome Click	Gm7
8	Metronome Bell	Gm8
9	STD1 Kick2	Gm9
10	STD1 Kick1	Gm10
11	Side Stick	Gm11
12	STD1 Snare1	Gm12
13	Hand Clap	Gm13
14	Snare Drum 2	Gm14
15	Low Floor Tom	Gm15
16	Closed Hi Hat	Gm16
17	High Floor Tom	Gm17
18	Pedal Hi-Hat	Gm18
19	Low Tom	Gm19
20	Open Hi-Hat	Gm20
21	Low-Mid Tom	Gm21
22	Hi Mid Tom	Gm22
23	Crash Cymbal 1	Gm23
24	High Tom	Gm24
25	Ride Cymbal 1	Gm25
26	Chinese Cymbal	Gm26
27	Ride Bell	Gm27
28	Tambourine	Gm28
29	Splash Cymbal	Gm29
30	Cowbell	Gm30
31	Crash Cymbal 2	Gm31
32	Vibraslap	Gm32
33	Ride Cymbal 2	Gm33
34	Hi Bongo	Gm34
35	Low Bongo	Gm35
36	Mute Hi Conga	Gm36
37	Open Hi Conga	Gm37
38	Low Conga	Gm38
39	High Timbale	Gm39
40	Low Timbale	Gm40
41	High Agogo	Gm41
42	Low Agogo	Gm42
43	Cabasa	Gm43
44	Maracas	Gm44
45	Short Whistle	Gm45
46	Long Whistle	Gm46
47	Short Guiro	Gm47

GM		
No.	Name	LCD
48	Long Guiro	Gm48
49	Claves	Gm49
50	Hi Wood Block	Gm50
51	Low Wood Block	Gm51
52	Mute Cuica	Gm52
53	Open Cuica	Gm53
54	Mute Triangle	Gm54
55	Open Triangle	Gm55
56	Shaker	Gm56
57	Jingle Bell	Gm57
58	Belltree	Gm58
59	Castanets	Gm59
60	Mute Surdo	Gm60
61	Open Surdo	Gm61

KICK		
No.	Name	LCD
1	Rock Kick 1	Kick1
2	Rock Kick 2	Kick2
3	Pop Kick 1	Kick3
4	Pop Kick 5	Kick4
5	Metal Kick 1	Kick5
6	Metal Kick 2	Kick6
7	Jazz Kick 1	Kick7
8	Jazz Kick 2	Kick8
9	Jungle Kick 2	Kick9
10	Jungle Kick 3	Kick10
11	Vintage Kick 1	Kick11
12	Vintage Kick 2	Kick12
13	Vintage Kick 3	Kick13
14	Fiesta Kick 1	Kick14
15	Electro8 Kick 2	Kick15
16	Electro9 Kick 1	Kick16
17	Electro9 Kick 2	Kick17
18	Electro5 Kick 1	Kick18

ELECTRO		
No.	Name	LCD
1	Electro8 FX 2	EleFx1
2	Electro8 FX 3	EleFx2
3	Electro8 FX 5	EleFx3
4	Electro8 FX 6	EleFx4

Voice List

TOM		
No.	Name	LCD
1	rock Tom 21	Tom1
2	rock Tom 22	Tom2
3	rock Tom 23	Tom3
4	rock Tom 24	Tom4
5	rock Tom 25	Tom5
6	rock Tom 26	Tom6
7	pop Tom 21	Tom7
8	pop Tom 22	Tom8
9	pop Tom 23	Tom9
10	pop Tom 24	Tom10
11	pop Tom 25	Tom11
12	pop Tom 26	Tom12
13	Vintage Tom 1	Tom13
14	Vintage Tom 2	Tom14
15	Vintage Tom 3	Tom15
16	Vintage Tom 4	Tom16
17	Vintage Tom 5	Tom17
18	Vintage Tom 6	Tom18
19	Metal Tom 21	Tom19
20	Metal Tom 22	Tom20
21	Metal Tom 23	Tom21
22	Metal Tom 24	Tom22
23	Metal Tom 25	Tom23
24	Metal Tom 26	Tom24
25	Jazz Tom 21	Tom25
26	Jazz Tom 22	Tom26
27	Jazz Tom 23	Tom27
28	Jazz Tom 24	Tom28
29	Jazz Tom 25	Tom29
30	Jazz Tom 26	Tom30
31	Brush Tom Bass 1	Tom31
32	Brush Tom Bass 2	Tom32
33	Brush Tom 13	Tom33
34	Brush Tom 14	Tom34
35	Brush Tom 15	Tom35
36	Fiesta Tom 6	Tom36
37	Fiesta Tom 5	Tom37
38	Fiesta Tom 4	Tom38
39	Fiesta Tom 3	Tom39
40	Fiesta Tom 2	Tom40
41	Fiesta Tom 1	Tom41
42	Jungle Tom 1	Tom42
43	Jungle Tom 2	Tom43
44	Jungle Tom 3	Tom44
45	Jungle Tom 4	Tom45
46	Jungle Tom 5	Tom46
47	Jungle Tom 6	Tom47

TOM		
No.	Name	LCD
48	Electro Tom 11	Tom48
49	Electro Tom 12	Tom49
50	Electro Tom 13	Tom50
51	Electro Tom 14	Tom51
52	Electro Tom 15	Tom52
53	Electro Tom 16	Tom53
54	Electro Tom 21	Tom54
55	Electro Tom 22	Tom55
56	Electro Tom 23	Tom56
57	Electro Tom 24	Tom57
58	Electro Tom 25	Tom58
59	Electro Tom 26	Tom59
60	Electro Tom 31	Tom60
61	Electro Tom 32	Tom61
62	Electro Tom 33	Tom62
63	Electro Tom 34	Tom63
64	Electro Tom 35	Tom64
65	Electro Tom 36	Tom65

Hi-Hat		
No.	Name	LCD
1	Rock HH 7	HiHat1
2	Rock HH 8	HiHat2
3	Brush HH 1	HiHat3
4	Brush HH 2	HiHat4
5	Brush HH 3	HiHat5
6	Jungle HH 5	HiHat6
7	Jungle HH 4	HiHat7
8	Jungle HH 2	HiHat8
9	Jungle HH 1	HiHat9
10	Vintage HH 2	HiHat10
11	Vintage HH 3	HiHat11
12	Vintage HH 4	HiHat12
13	Vintage HH 1	HiHat13
14	Fiesta HH 4	HiHat14
15	Fiesta HH 7	HiHat15
16	Fiesta HH 3	HiHat16
17	Fiesta HH 1	HiHat17
18	Fiesta HH 2	HiHat18
19	Fiesta HH 5	HiHat19
20	Fiesta HH 6	HiHat20
21	Electro8 HH 3	HiHat21
22	Electro8 HH 2	HiHat22
23	Electro8 HH 1	HiHat23

Voice List

SNARE		
No.	Name	LCD
1	Rock Snare 3	Snare1
2	Rock Snare 2	Snare2
3	Rock Snare 1	Snare3
4	Pop Snare 3	Snare4
5	Pop Snare 4	Snare5
6	Metal Snare 3	Snare6
7	Metal Snare 4	Snare7
8	Metal Snare 5	Snare8
9	Jazz Snare 1	Snare9
10	Jazz Snare 2	Snare10
11	Jazz Snare 4	Snare11
12	Brush Snare 1	Snare12
13	Brush Snare 2	Snare13
14	Jungle Snare 1	Snare14
15	Jungle Snare 2	Snare15
16	Jungle Snare 3	Snare16
17	Jungle Snare 4	Snare17
18	Jungle Snare 5	Snare18
19	Vintage Snare 1	Snare19
20	Vintage Snare 2	Snare20
21	Vintage Snare 3	Snare21
22	Fiesta Snare 1	Snare22
23	Fiesta Snare 2	Snare23
24	Fiesta Snare 3	Snare24
25	Fiesta Snare 4	Snare25
26	Electro8 Snare 1	Snare26
27	Electro8 Snare 2	Snare27
28	Electro9 Snare 1	Snare28
29	Electro9 Snare 2	Snare29
30	Electro9 Snare 3	Snare30
31	Electro5 Snare 1	Snare31
32	Electro5 Snare 2	Snare32
33	Electro5 Snare 3	Snare33

RIDE		
No.	Name	LCD
1	Rock Ride 1	Ride1
2	Rock Ride 2	Ride2
3	Metal Ride 1	Ride3
4	Metal Ride 2	Ride4
5	Brush Ride 1	Ride5
6	Brush Ride 2	Ride6
7	Brush Ride 3	Ride7
8	Brush Ride 4	Ride8
9	Brush Ride 1	Ride9
10	Brush Ride 2	Ride10
11	Brush Ride 3	Ride11
12	Jungle Ride 1	Ride12
13	Jungle Ride 2	Ride13
14	Fiesta Ride 1	Ride14
15	Fiesta Ride 2	Ride15
16	Electro8 Ride 1	Ride16
17	Electro8 Ride 2	Ride17

CRASH		
No.	Name	LCD
1	Rock crash 1	Crash1
2	Rock Crash 2	Crash2
3	Metal Crash 1	Crash3
4	Metal Crash 2	Crash4
5	Jazz Crash 1	Crash5
6	Jungle Crash 1	Crash6
7	Jungle Crash 2	Crash7
8	Jungle Crash 3	Crash8
9	Vintage Crash 1	Crash9
10	Vintage Crash 2	Crash10
11	Vintage Crash 3	Crash11

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 •Reorient or relocate the receiving antenna.
 •Increase the separation between the equipment and receiver.
 •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 •Consult the dealer or an experienced radio/TV technician for help.

CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/EC on Electromagnetic Compatibility.