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PTEDK86 **Electronic Drum Kit**

USER GUIDE

**READ ALL INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT.
RETAIN THIS OWNER'S MANUAL FOR FUTURE REFERENCE.**

Features:

- Hassle-Free Tabletop Drum Kit
- Compact, Portable & Ultra-Thin
- Unique Roll-Up Design for Instant Drumming
- Pre-Loaded with Selectable Drum Kits & Songs
- MIDI Support: Connect to Computer & Unlock More
- Record Mode: Playback Your Drum Sessions
- Hand Percussion Mode: Drop the Drumsticks & Use Your Hands
- Effectively Reproduces Complete 'Drum Set' Sounds
- (8) Drum Pads with Touch Sensitivity
- Tom-Toms, Hi-Hat, Snare & Bass Drums, Crash & Ride Cymbals
- Super Easy & Simple USB Plug-in Operation
- Includes (2) Digital Foot Pedal Controllers
- Front Panel Button Control Center
- Aux (3.5mm) Input Jack
- Drum-Along to Music via Connected Device
- Headphone Jack
- Tempo & Volume Adjustable
- Compatible with Mac & PC

What's in the Box:

- (3) Drum Foot Pedals
- Wall Power Adapter
- Audio Connection Cable
- Drum Sticks

Technical Specs:

- Drum Kits: (12) Sound Styles
- Power Connection: DC 12V
- Drum Sticks Dimensions: 0.6" x 16" -inches
- Electronic Drum Pad Dimensions: 8" -inches

FCC INFORMATION

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

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 unit 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 and 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 to 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

California Prop 65 Warning

 **WARNING:**

This product contains Vinyl Chloride which is known to the state of California to cause cancer birth defects and other reproductive harm. Do not ingest.

For more info go to: www.P65warnings.ca.gov

CONGRATULATIONS!

Thank you for purchasing this digital drum set. The drum set has been developed to act and play like a drum set but with greater ease. Before you use the instrument, we recommend you to read through this manual.

Location

- To avoid deformation, discoloration, or more serious damage, do not expose the unit to direct sunlight, high temperature sources, or excessive humidity.
- Direct sunlight.
- High temperature (near a heat source, or in car during the day time).
- Disconnect all cables before moving

Power Supply

- Use the specified adapter only. Using the wrong adapter can result in damage to the instrument or overheating.
- Turn the power switch OFF when the instrument is not in use.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.
- Avoid plugging the AC adaptor into an AC outlet that is also powering high-consumption appliances such as electric heaters or televisions. Also avoid using multi plug adaptors since these can reduce sound quality, cause operation errors and result in possible damage.

Turn Power OFF When Making Connections

- To avoid damage, turn OFF the power switch and all related devices prior to connecting or disconnecting cables.

Handling and Transport

- Never apply excessive force to controls, connectors, and other part
- Unplug cables by gripping the plug firmly. Do not pull 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 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 the instrument.

Electrical Interference

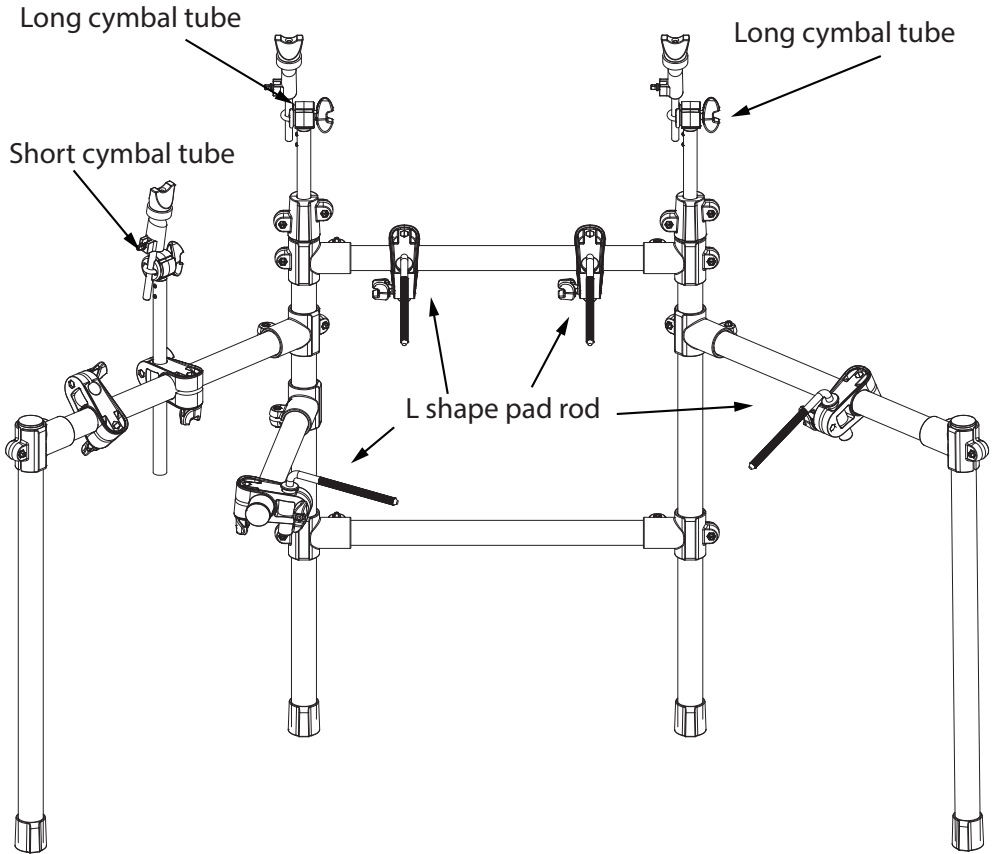
- This instrument contains digital circuitry and may cause interference if placed too close to radio or television receivers. If this occurs, move the instrument further away from the affected equipment.

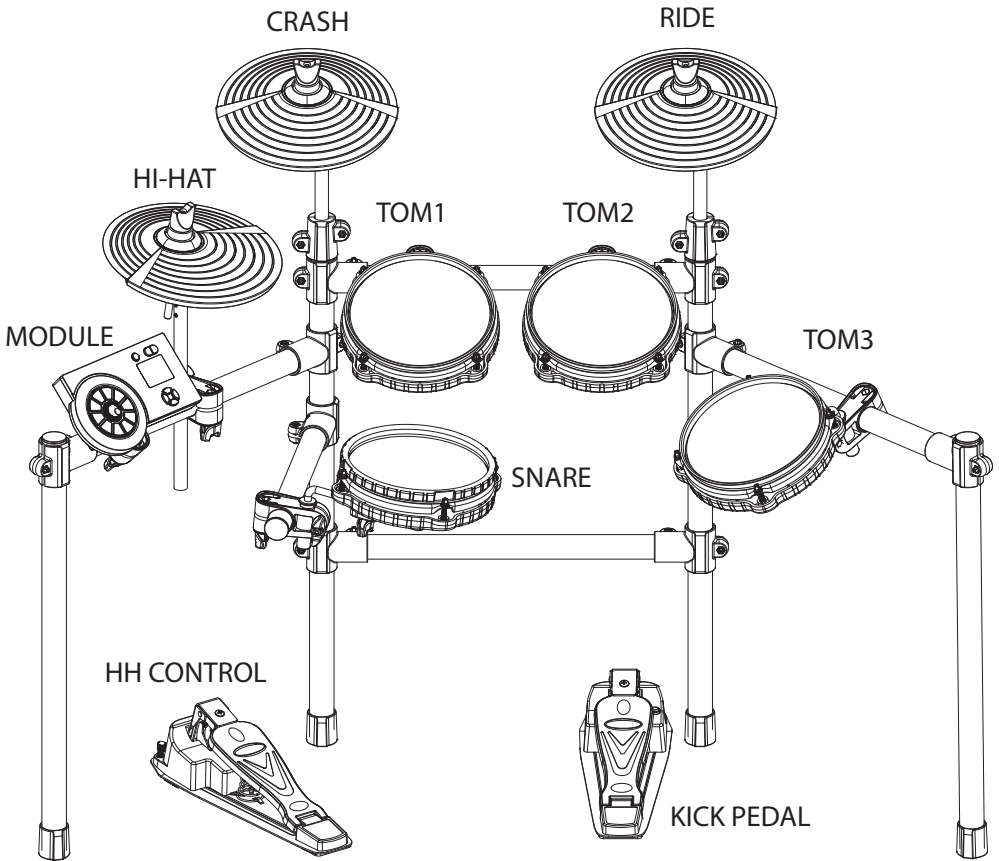
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ASSEMBLY GUIDE

1. Set up the drum stand.
2. Put the long cymbal tube/short cymbal tube/L shape pad rod into the drum stand.
3. Put the pads/cymbal/module to the relative position.





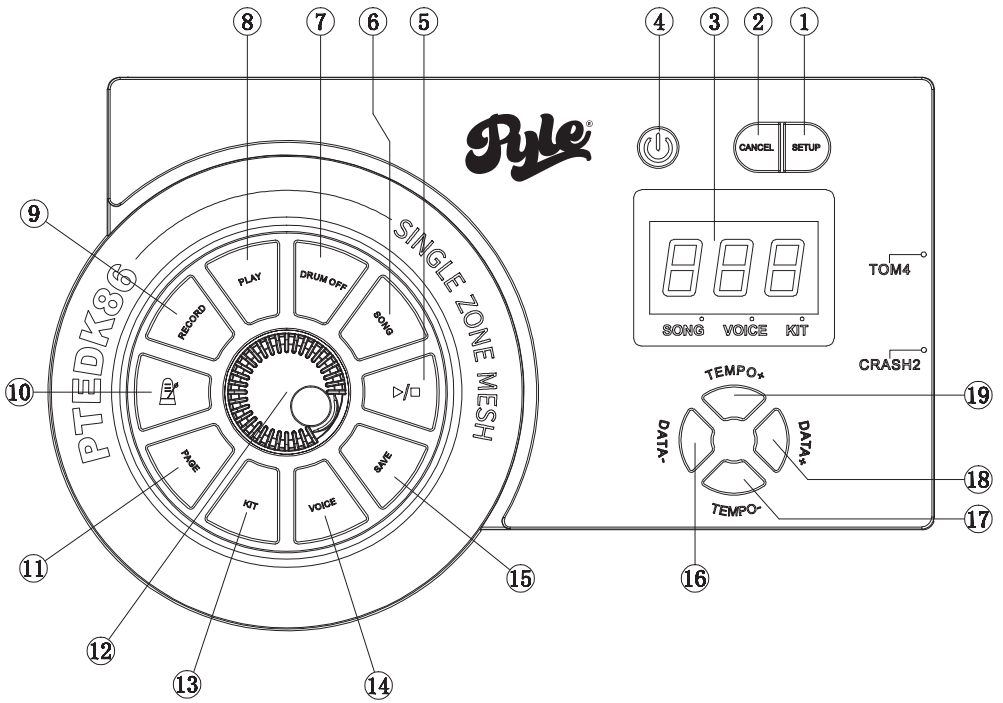
CONNECTION

Caution!

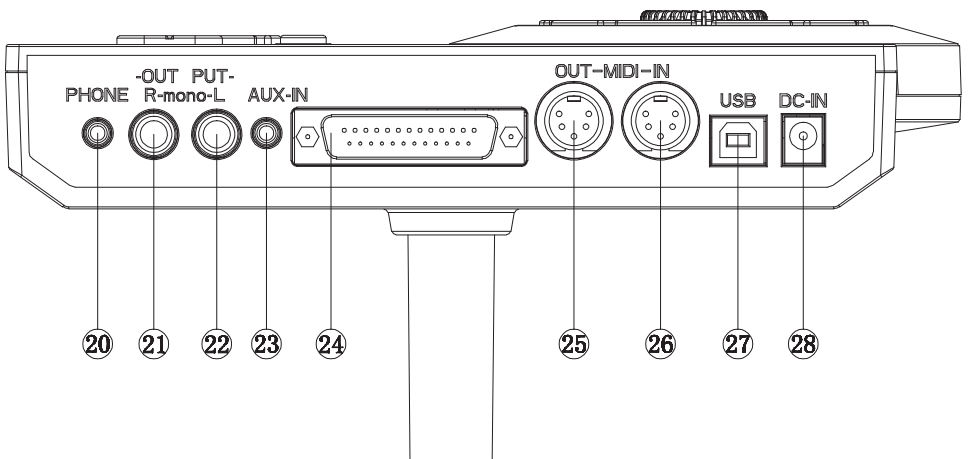
To prevent electric shock and damage to the device, make sure the power is switched OFF on the drum and all related device before making any connection.

FUNCTION BUTTON DESCRIPTION

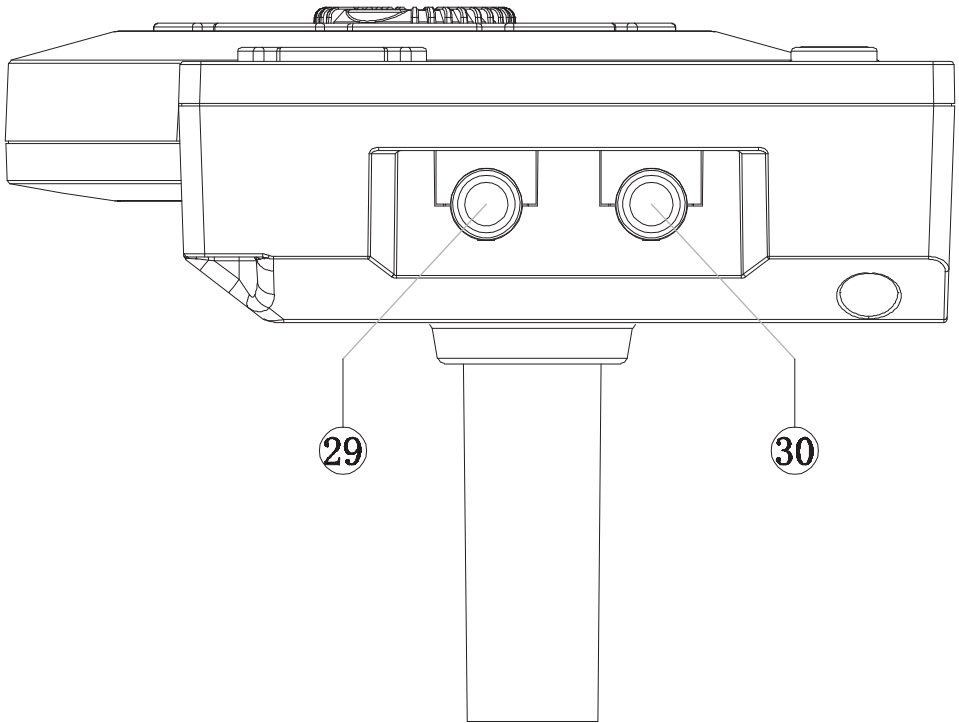
FRONT PANEL




REAR PANEL



SIDE PANEL



| NO. | NAME | DESCRIPTION |
|-----|---|--|
| 1 | SETUP | Enter the menu setting interface |
| 2 | CANCEL | Exit the current operation and return to the previous interface |
| 3 | Numeric LED | 3-segment numeric LED: content of menu |
| 4 | POWER | Power switch (press and hold to turn off) |
| 5 | ▶ ■ | Start/stop DEMO SONG playing |
| 6 | SONG | Enter the DEMO SONG setting interface |
| 7 | DRUM OFF | Drum track playback control, LED lights up means off and goes off means on |
| 8 | PLAY | Press once to play the recording sound/press the second time to stop |
| 9 | RECORD | Enter the recording waiting state, hit any pad to start the recording, button light flashing |
| 10 |  | Metronome play switch |
| 11 | PAGE | Page turning |

| | | |
|----|-----------------|---|
| 12 | MASTER LEVEL | Adjust the master volume |
| 13 | KIT | Quick access to the KIT home page |
| 14 | VOICE | Enter the voice page |
| 15 | SAVE | Save current settings |
| 16 | DATE- | Editor the parameters |
| 17 | TEMPO- | Quick access to speed adjustment |
| 18 | DATE+ | Editor the parameters |
| 19 | TEMPO+ | Quick access to speed adjustment |
| 20 | PHONE | Stereo headphone output connector |
| 21 | R OUTPUT | Audio output of right channel and L OUTPUT constitute stereo output |
| 22 | L (MONO) OUTPUT | Left channel output, can be separately connected to the drum amplifier via mono - channel cable |
| 23 | AUX IN | Connect to a digital audio player or as listening input for live performance |
| 24 | TRIGGERS IN | Drum signal input port |
| 25 | MIDI IN | Connect to other MIDI output interfaces with MIDI devices |
| 26 | MIDI OUT | Connect to other MIDI input interfaces with MIDI devices |
| 27 | USB | Connect with PC connector (MIDI input/output or software update via USB) |
| 28 | DC IN | Power adapter port: 12V 1A |
| 29 | CRASH2 | Connect with CRASH2 |
| 30 | TOM4 | Connect with TOM4 |

CONNECT WITH EXTERNAL DEVICES

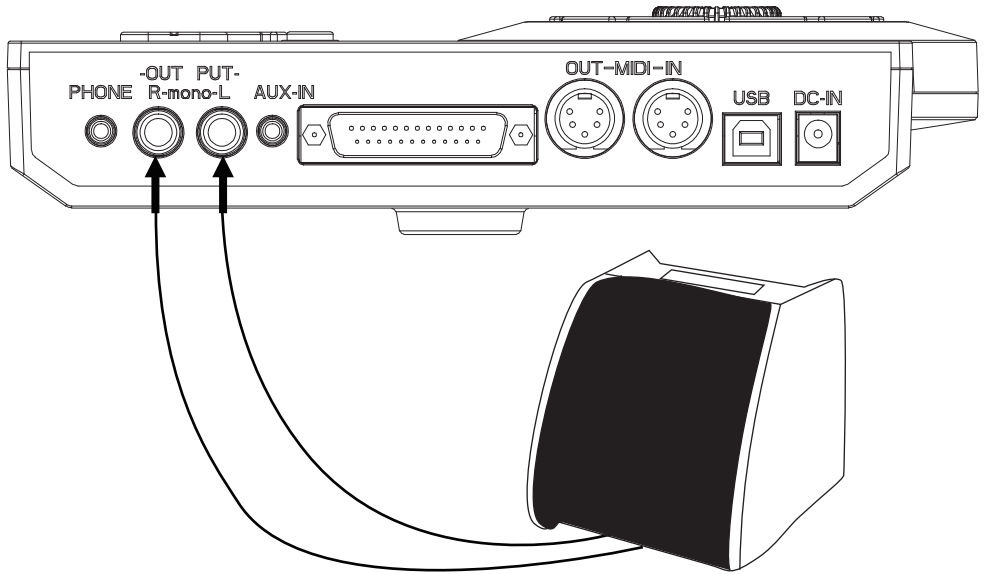
Connect to audio system or amplifier

When connecting with audio system or drum amplifier, connect one end of the audio cable with the module OUTPUT: R L/mono, and the other end with the audio system or drum amplifier.

Note:

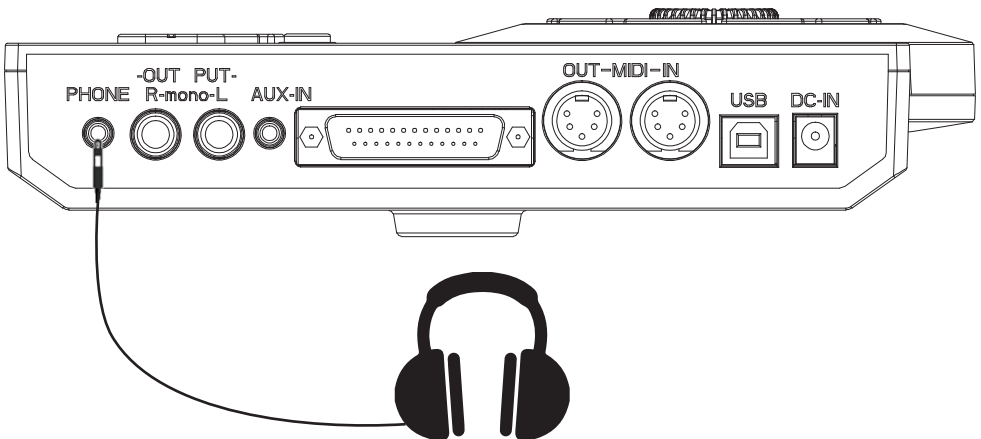
1. Plug into L/mono connector when connecting with mono audio device.
2. Plug into L/mono and R connectors when connecting with stereo device.

The output volume can be adjusted via the master volume knob on the instrument or that on the audio device.



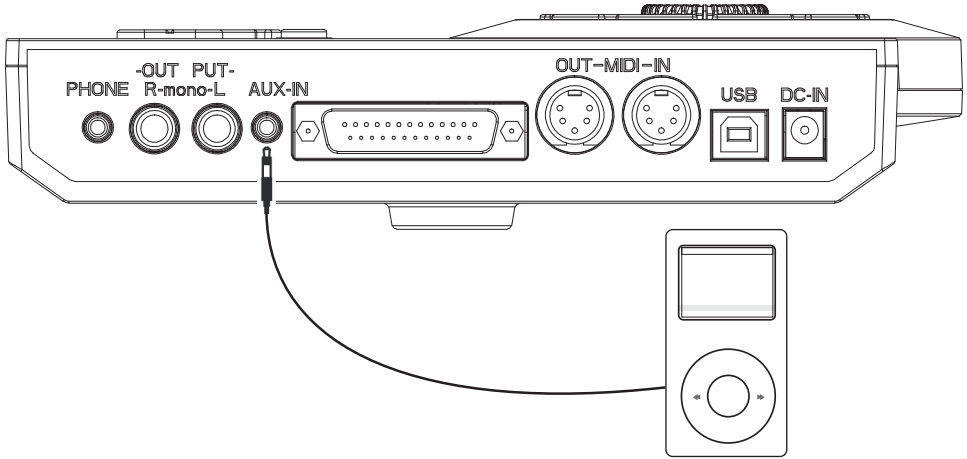
Connect to headphones

The instrument has 1/8" stereo headphone connector, the volume is controlled by the master volume knob on the Drum Kit.



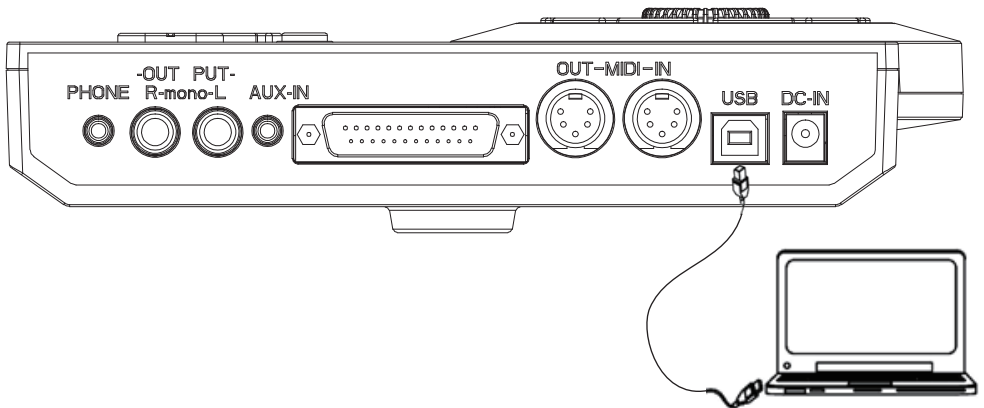
Connect to MP3 or CD player

Connect the output of MP3 or CD player or other audio sources with AUX. IN connector. The volume can be adjusted by the master volume control knob on the panel. The input signal can be mixed with the drum signal, strike the pads according to the rhythm of the input signal.



Connect with computer

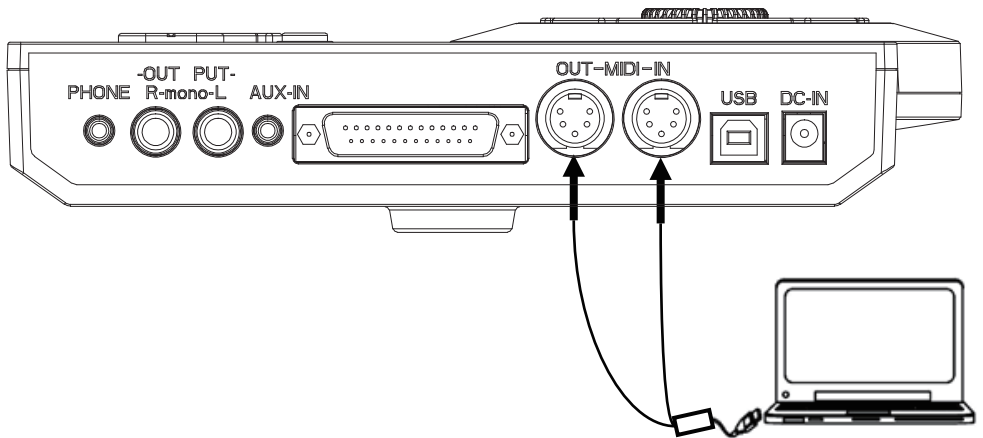
1. Connect the computer via USB cable when it's powered off.
2. Turn ON the computer and then turn ON the device, when the connection is successful, you can receive and send MIDI information.



Connect to computer via MIDI

MIDI IN: Receive MIDI signals from external MIDI devices or computers

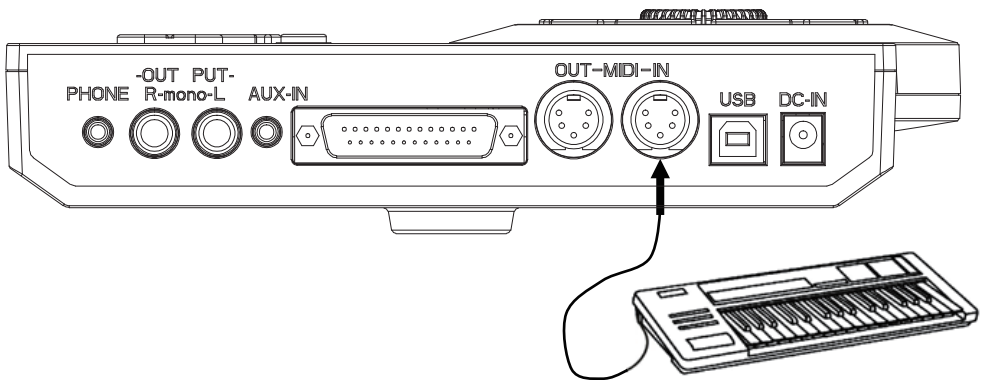
MIDI OUT: Sends pads signal to external MIDI device or computer



Connect the MIDI keyboard via the MIDI port

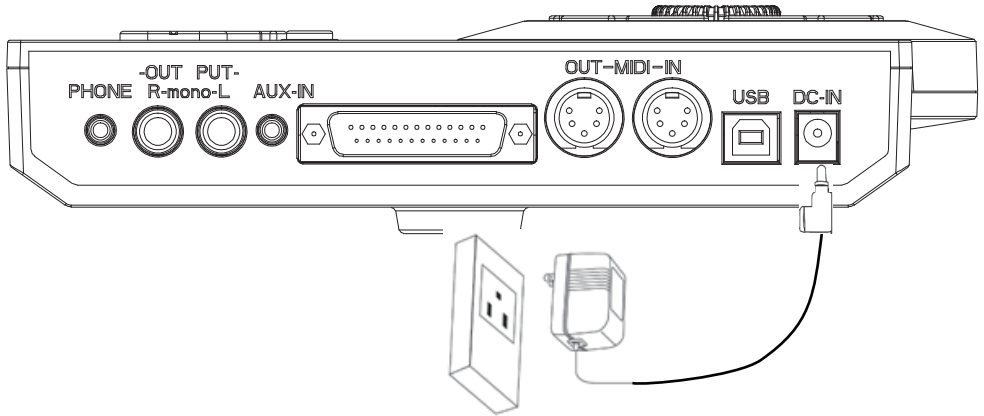
MIDI-IN/OUT: If external keyboard or MIDI device are used to control the drum, it needs MIDI cable one end connecting with MIDI IN of the Drum Kit, and other end with MIDI OUT of the MIDI keyboard. This drum is used as audio source.

The connection is as follows:

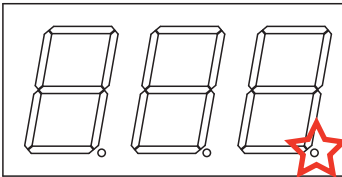


Connect with power supply

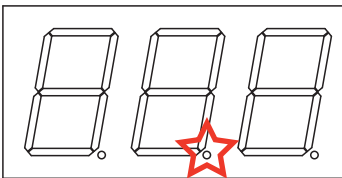
1. Plug the power adapter into DC IN connector
2. Make sure all drum pads are connected, turn the master volume on the Drum Kit to the minimum, and then press the power button down. At which point the display will light up and enter the drum set menu.



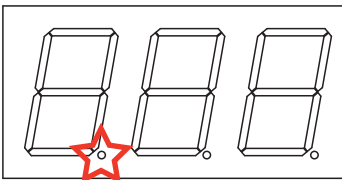
NUMERIC LED INTERFACE



Drum kit LED lights up: the number means the drum kit number



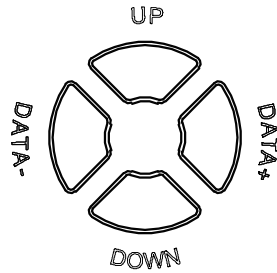
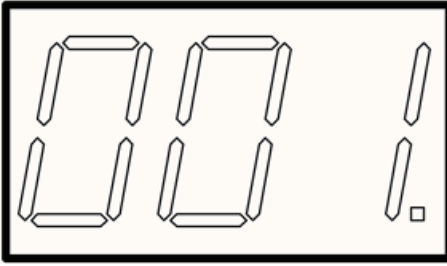
Voice LED lights up: the number means the voice number



The preset song led lights up: the number means the preset song number.

BASIC OPERATION

Selecting a drum kit



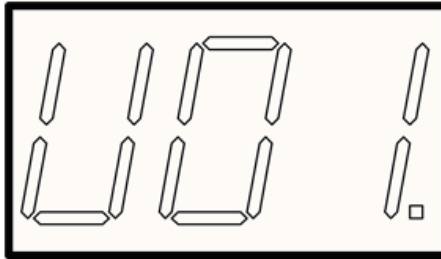
Power ON, numeric LED as shown in the figure 001. The Kit button light is always ON to indicate that the drum kit is currently in the operation interface.

Drum sets can be switched between **[DATA+]** and **[DATA-]**.

37 sets of drum kits in all.

22 set of preset drum kits: 001---022

10 set of user drum kits: (display as U**) U01---U10



Playing the pads

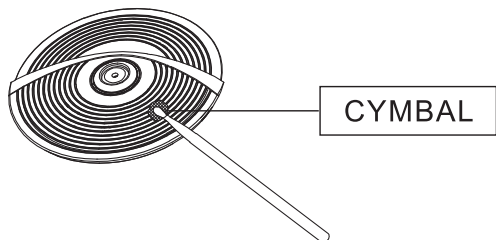
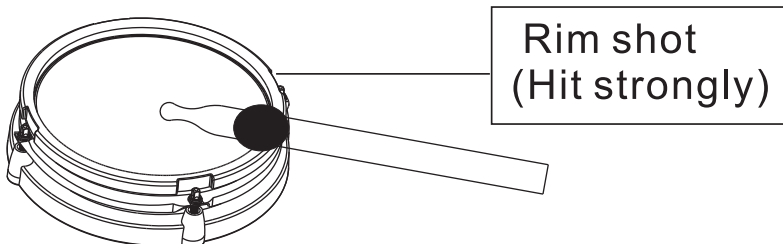
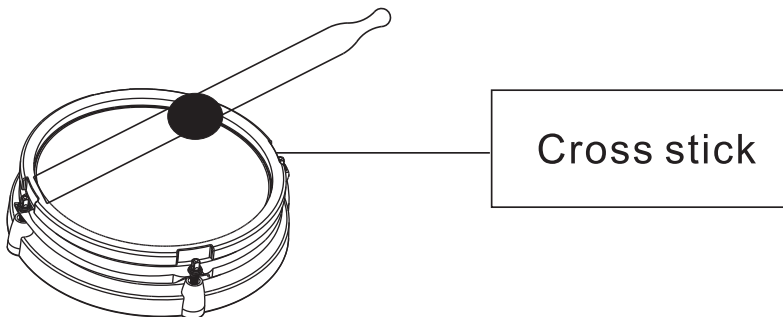
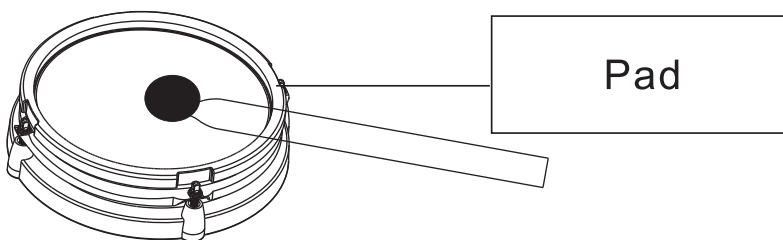
Similar to an acoustic drum kit, the digital drum responds differently to various playing techniques and dynamics. All the pads sense the striking force.

Some voices change tone depending on the striking force.

The digital drum pad detects head and rim shorts (rim shorts are different from the pad shorts)

Note:

1. **SNARE** is dual zone.
2. **TOM1-TOM3** are standard with single zone.
3. All pads are single zone, **CRASH** and **RIDE** have the choke, e.g. hit the cymbal then hold the rim to choke (stop) the sound.
4. **SNARE** delivers one sound when hit the pad rim strongly.



HI-HAT demonstration

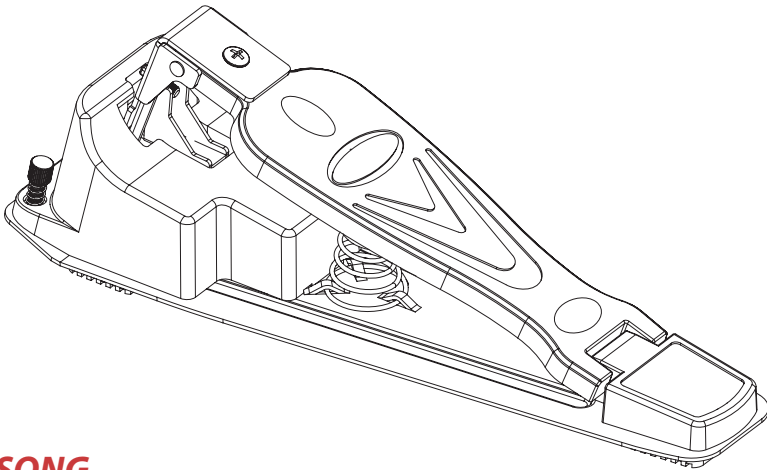
The Hi-Hat: Sound varies depending on the position of the Hi-Hat pedal

Open Hi-Hat: Strike the Hi-Hat pad without pressing the pedal.

Half-open Hi-Hat: Strike the Hi-Hat pad with the pedal pressed but not completely down.

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

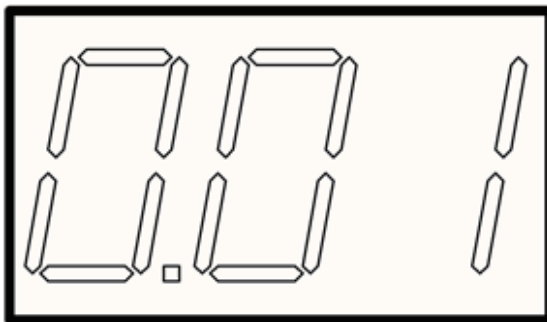
Hi-Hat pedal close: Press the pedal completely down without striking the pad.



DEMO SONG

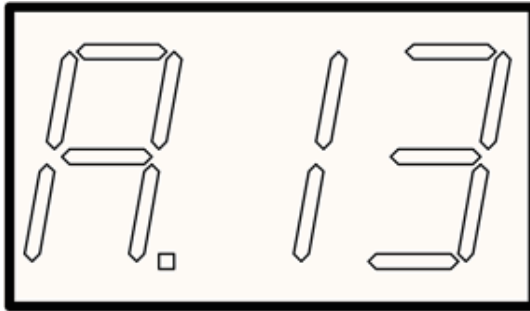
Play and switch the DEMO SONG

Press the **[▶|■]** to play DEMO SONG, press again to stop. Use **[DOWN]** to select the SONG, then press **[DATE+]** or **[DATE-]** to switch (refer to DEMO SONG LIST for DEMO SONG)

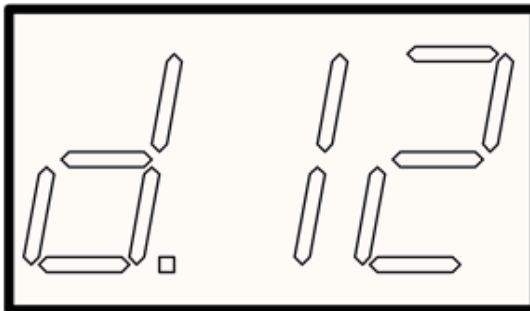


Adjusting DEMO SONG accompaniment and drum volume

Press **[SONG]** to enter SONG setting menu, after entering, press **[PAGE]** to enter accompaniment adjustment menu. And use **[DATE+]** or **[DATE-]** to adjust DEMO SONG accompaniment volume.



Press **[PAGE]** again to enter volume adjustment interface, and use **[DATE+]** or **[DATE-]** to adjust the drum volume.

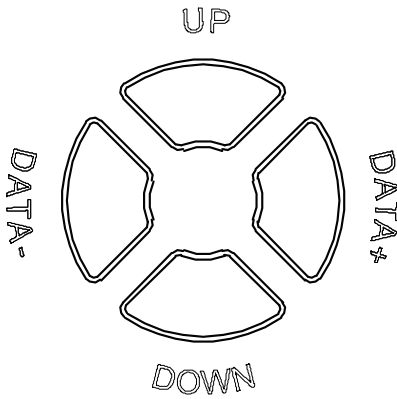


Mute the drums of DEMO SONG

Press **[DRUM OFF]** to quickly ON or OFF the drum volume of DEMO SONG (The DRUM OFF button light is on, indicating that the DRUM sound of DEMO SONG is muted, whereas the DRUM sound is output)

Adjusting DEMO SONG tempo

Press [TEMPO+] or [TEMPO-], use [DATE+] or [DATE-] to adjust DEMO SONG tempo.

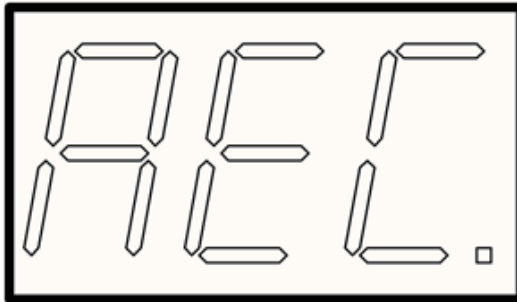


Note:

When no operation returns to the previous interface within 3 seconds after adjusting the speed, pressing other keys will also exit the speed adjustment menu directly.

RECORD YOUR PERFORMANCE

Recording quickly



Press [RECORD] then [RECORD] LED lights up, strike any pad to start recording and the LED start flashing. Press [RECORD] again to stop recording and the LED lights off.


Play back recording

Press **【PLAY】** then **【PLAY】** LED lights up, and it plays the recorded performance, press **【PLAY】** again to stop playing. If you are unsatisfied with the recorded performance, press **【RECORD】** to record once again.

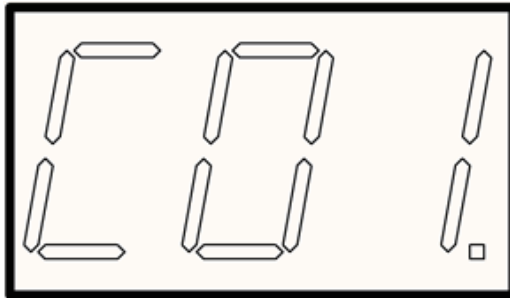
Note:


You can record the performance but can not save. This means the recorded performance will replace the former recorded performance.

METRONOME

User can use the **【】** button to turn ON/OFF metronome, When the metronome is turned ON, the first beat of the metronome button will light up red, the other beats will light up green and the cycle lights up.

Adjusting the click



Press and hold **【】** to enter CLICK SETTING interface, and press **【PAGE】** to switch options.

C01 interface is tone setting: C01 (human voice); C02 (traditional click); C03 (digital click); C04 (triangle);

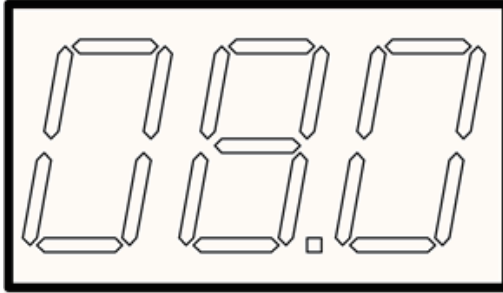
METER: 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 1/4/, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 8/8, 9/8

VOLUME: 0-8 (0 is mute)

EDIT AND SAVE DRUM KIT VOICE

Edit the voice

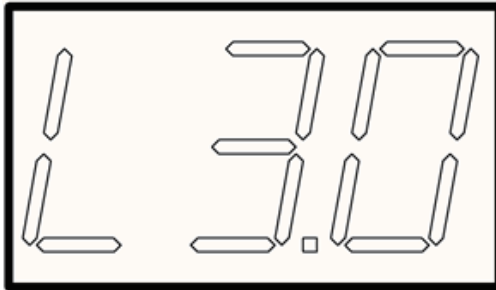
Press **[VOICE]** to enter VOICE adjustment interface, **[VOICE]** button light is always on.



You can switch by hitting the pad you want to adjust. Press **[DATE+]** or **[DATE-]** to adjust the voice.

Voice volume adjustment

Press **[PAGE]** to enter the voice volume adjustment interface, then press **[DATE+]** or **[DATE-]** to adjust the volume.

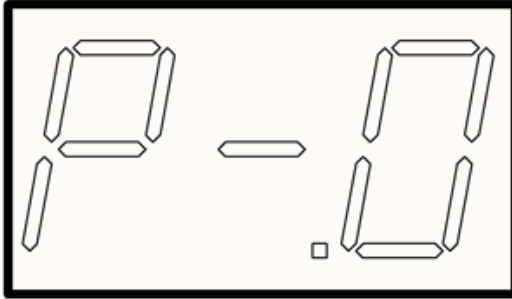


Note:

The volume adjustment range is 00-32, the larger the value, the louder the sound.

Voice sound field adjustment

Press **[PAGE]** to enter voice sound field adjustment interface, and press **[DATE+]** or **[DATE-]** to adjust the parameter.

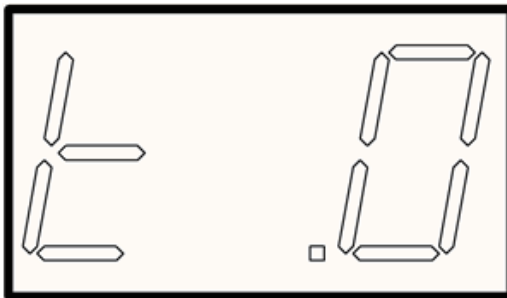


Note:

Sound field adjustable range: -8-8. The negative sound field is to the left, 0 is the center position, and the positive value is to the right.

Voice sound field adjustment

Press **[PAGE]** to enter voice sound field adjustment interface, and press **[DATE+]** or **[DATE-]** to adjust the parameter.

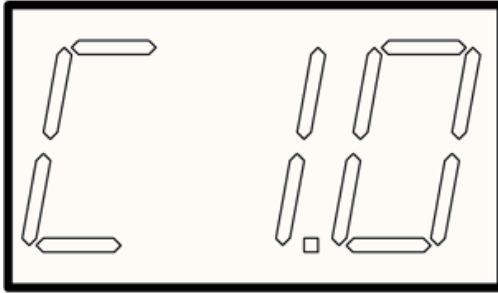


Note:

Volume adjustable range: -2-2 The greater the negative value, the lower the pitch, the greater the positive value, the higher the pitch.

MIDI channel setting

Press **[PAGE]** to enter voice MIDI channel setting interface, press **[DATE+]** or **[DATE-]** to adjust the voice MIDI channel.

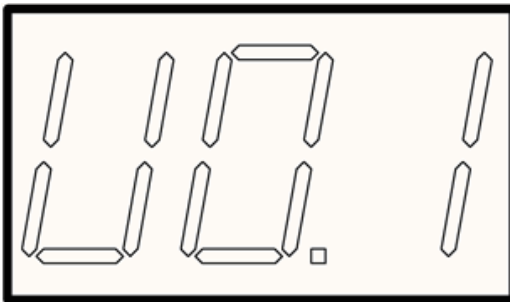


Note:

The MIDI channel can be set according to the external equipment or software. The factory setting is preset according to the standard MIDI channel.

Save the voice of drum set

Press **[SAVE]** to enter the user drum set save setting, and press **[DATE+]** or **[DATE-]** to adjust user drum set.



Note: 10 sets of user drum kits built in this machine.

ADJUST PAD TRIGGER

Press **【SETUP】** to enter SETTING menu, press **【PAGE】** to switch setting menus.

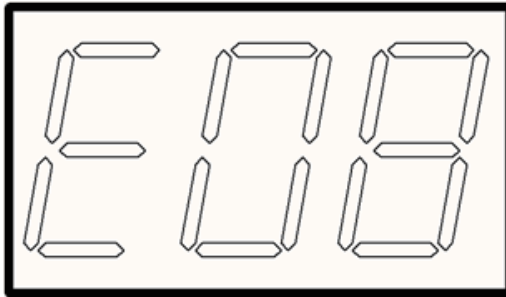
Adjust trigger sensitivity

Press **【PAGE】** to enter the first interface which is pad sensitivity adjust interface, use **【DATA+】** or **【DATA-】** to adjust, and the adjustable range is 01-08.

Users can adjust the sensitivity of the drum pad according to their personal playing habits.

This setting allows users to have more control over the volume and strength based on the user's hitting strength.

High Sensitivity: The higher the value, the louder volume will be produced even if you tap lightly; the lower the sensitivity, the smaller the value, the volume will be very small even if you hit harder.



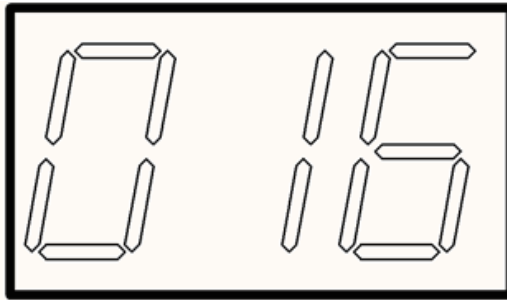
Note:

Before adjustment, select the drum pad that needs to be adjusted.

You can use the drum stick to strike the pad to be adjusted to switch between the drum pads.

Adjust trigger crosstalk eliminate

Press **[PAGE]** to switch the second interface (pad sensitivity adjustment, you can use **[DATA+]** or **[DATA-]** to adjust, adjustable range: 00-16.



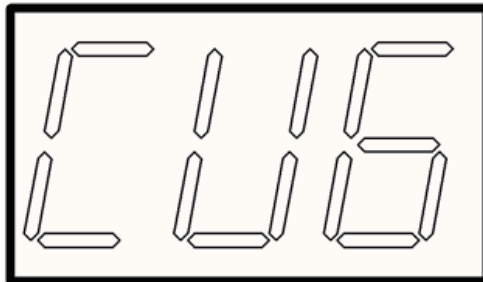
When two pads are close, hitting one pad can cause the other pad to generate a signal. This crosstalk can be eliminated by setting a high parameter of the other pad.

Note:

If the crosstalk value is set too high, when two pads are played simultaneously the one that is struck less forcefully will not sound, so be careful and set this parameter to the minimum value required to prevent such crosstalk. In addition, when this parameter is set to 0, crosstalk suppression does not work.

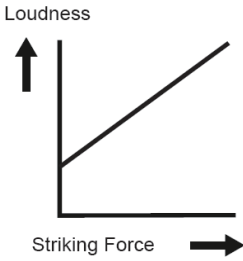
Adjusting pad curve

Press **[PAGE]** to switch the third interface (pad force curve), and you can use **[DATA+]** or **[DATA-]** to adjust, adjustable range: CU1-CU6.

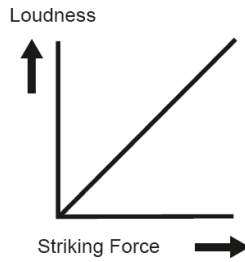


VEL CURVE

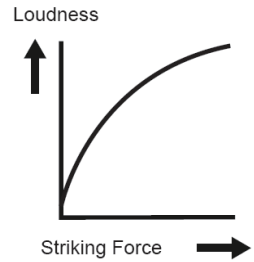
Refers to the corresponding relationship between percussion strength and volume. By adjusting the parameters, it can make the percussion feel more comfortable and natural. Users can set the parameters according to their percussion habits.



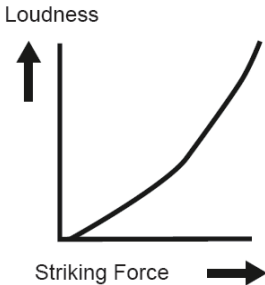
CURVE 1



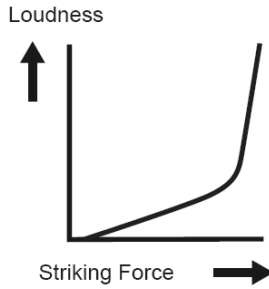
CURVE 2



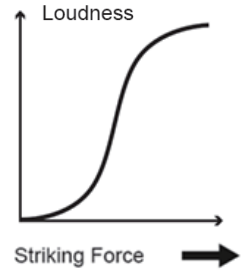
CURVE 3



CURVE 4



CURVE 5



CURVE 6

CURVE 1: Small dynamic response. Select this curve and it delivers high but stable volume.

CURVE 2: The standard setting to deliver natural signal.

CURVE 3: Compared to CURVE 2, low striking force causes big volume change.

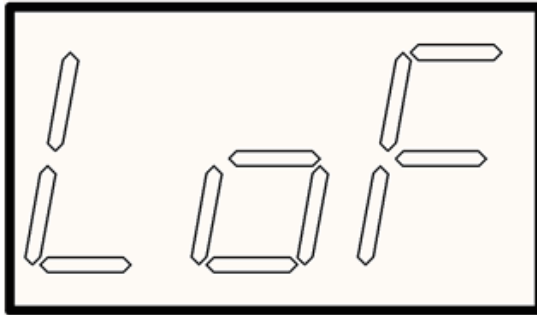
CURVE 4: Compared to CURVE 2, comparatively high striking force causes comparatively big volume change.

CURVE 5: Compared to CURVE 2, comparatively high striking force causes very big volume change.

CURVE 6: The striking force causes extreme volume change.

Local Control

Press **[PAGE]** to switch to the forth interface (local control), and you can use **[DATA+]** or **[DATA-]** to open or close.



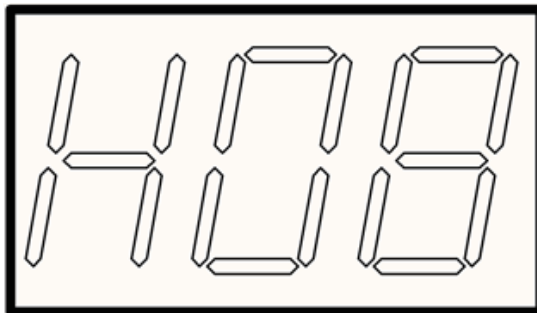
LOCAL: Local control to control the connection between the trigger and the drum module.

ON: The drum pad is connected with the internal sound module, and the drum pad is tapped to produce sound, which defaults to ON.

OFF: The drum pad is disconnected from the internal sound module, and the drum pad does not sound.

Adjust Hi-hat sensitivity

Press **[PAGE]** to switch the fifth interface (Hi-hat sensitivity adjustment), and you can use **[DATA+]** or **[DATA-]** to adjust, adjustable range: H01-H16.



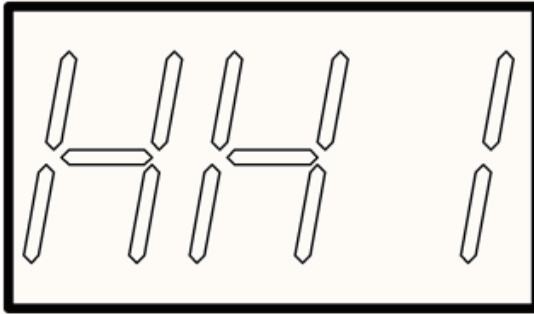
SELECT TRIGGER

HI-HAT trigger setting

Press **[SETUP]** to enter setting menu, and press **[PAGE]** to enter HI-HAT sensor type setting page. You can use **[DATA+]** or **[DATA-]** to set the trigger type of HI-HAT.

HH1: Pedal type

HH2: Simulate hi-hat

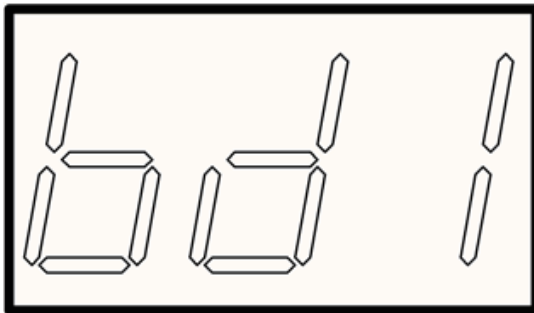


Kick sensor type

Press **[SETUP]** to enter SETTING menu, and press **[PAGE]** to enter kick sensor type setting. You can use **[DATA+]** or **[DATA-]** to set the type of kick sensor.

bd1: Pedal type

bd2: Hammer type

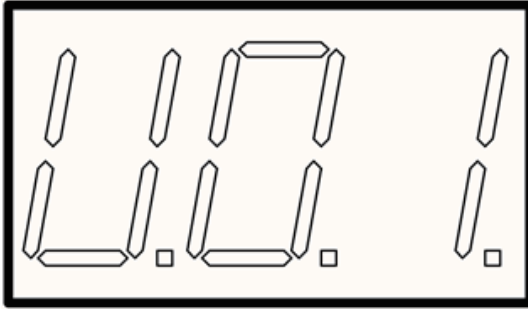


RELOAD DEFAULT SETTING

Single user drum kit is restored to factory settings

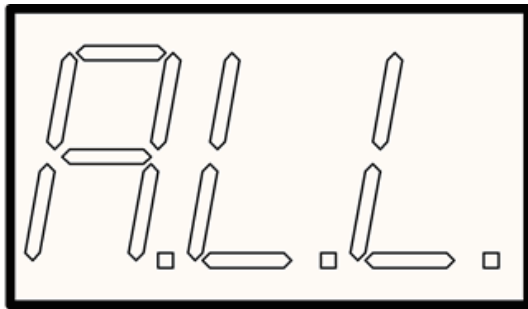
Press and hold **[SETUP]** to enter user drum kit default setting page, three indicators on the numeric LED are light up from left to right.

You can use **[DATA+]** or **[DATA-]** to adjust the drum kit you want to restored, then press **[SETUP]** to reload. The 3 indicators on the numeric LED blinks at the same time during the recovery process. When the reload is completed, the LED lights up again from left to right to indicate that the recovery is completed.





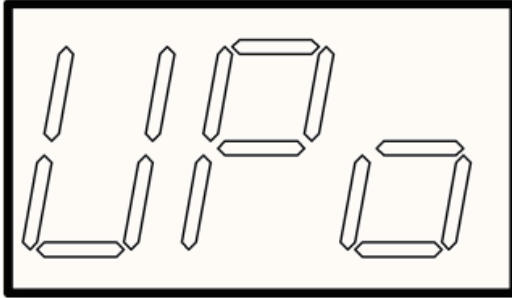
All parameters restore factory settings

Press and hold **[SETUP]** to enter user drum kit default setting page, then press **[PAGE]** to enter all parameters restore factory setting. Three indicators on the numeric LED are light up from left to right. Then press **[SETUP]** to reload, it will enter the home menu-preset drum kit 001 directly after the recovery.



SYSTEM SOFTWARE UPDATE

Connect the module to the computer via the USB cable before operation, then select Yes by pressing **[DATE+]** or **[DATE-]** in the UPDATE option and press **[SETUP]** again. The system will have USB devices identified  and on My Computer in the form of a USB flash drive . You can double click the left mouse button to open, to update the program file (file name) copy and paste in the USB disk, you can complete the software upgrade.



Note: The upgrade file can be downloaded from the company's official website, or consult relevant sales staff. The correct file name is "A005000.bin". Do not turn off the mainframe power during the upgrade process. Keep the mainframe power supply stable and have no other operation.

MIDI SETTING

This device is compatible with various MIDI devices. When it is used as trigger device or audio source, it is compatible with GM standard, and can be used with most sequencer software.

MIDI Connection

MIDI IN: Inputs MIDI signal when connecting with external MIDI device.

MIDI OUT: Outputs MIDI signal when connecting with external MIDI device.

USB: Standard USB2.0 interface. It can be connected to any MIDI device or PC with a standard USB driver, and the corresponding driver is included in the general operating system, so there is no need for repeated installation. Compatible with common computer operating systems such as: XP, Win7, Vista, Mac OSX, etc. (USB is only used for MIDI connection).

Note: When USB connects with PC, all MIDI data will be received and transmitted via USB.

Connect with external audio device

This device automatically connects via channel 10 transfers drum signal to other MIDI device including notes, forces, pedal performance, etc.

Note: Song playback data and metronome notes are not transferred.

Record your performance with external sequencer

1. Connect with external sequencer or PC via MIDI OUT for playback or USB interface.
2. Use the sequencer or the software to set channel 10 as a device to start recording.
3. Play the drum pads.
4. Stop performance and recording. Playback the recording.

Setting MIDI IN/OUT note to be transferred/received by each pad

1. Press **VOICE** button to enter the VOICE setting menu.
2. Strike the relative pad, press **【PAGE】** to switch to C**
3. Use **【DATE+】** or **【DATE-】** to adjust the MIDI value for a pad.
4. Press save button to save USER drum kit.

Default factory setting as below:

| TRIGGER | MIDI NOTE | TRIGGER | MIDI NOTE | TRIGGER | MIDI NOTE |
|-----------|-----------|----------|-----------|-------------|-----------|
| KICK | 36 | TOM3 | 43 | HI-HAT CTRL | 44 |
| SNARE | 38 | CRASH2 | 57 | CRASH | 49 |
| SANRE RIM | 37 | HI-HAT C | 42 | TOM2 | 45 |
| TOM1 | 48 | TOM4 | 41 | | |
| RIDE | 51 | HI-HAT O | 46 | | |

Used as an audio source device

When connected with external MIDI keyboard or sequencer through MIDI OUT or USB cable, the device can receive its MIDI output signal, and then the device can play OUT the valid signal. The output tone changes with the switch of drum kit. This equipment has most GM drum kit tone. Users can build their own USER drum kit if necessary. Other MIDI support and limitations are described in the MIDI list.

MIDI LIST

| FUNCTION | | TRANSMITTED | RECOGNIZED | REMARKS |
|------------------|--|--|--|---|
| BASIC CHANNEL | DEFAULT CHANGED | 10 Ch 1-16 | 1-16 1-16 | |
| MODE | DEFAULT MESSAGES ALTERED | x x ***** | x x ***** | |
| NOTE MEMBER: | TRUE VOICE | 0-127 ***** | 0-127 0-127 | |
| VELOCITY | NOTE ON NOTE OFF | O 9nH,V=1-127 X (9nH,V=0) | o o | |
| AFTER TOUCH | KEY'S CH'S | x x | x x | |
| PITCH BEND | | x | x | |
| CONTROL CHANGE | | 0 x 1 x 5 x 6 x 7 x 10 x 11 x 64 x 65 x 66 x 67 x 80 x 81 x 91 x 93 x 120 x 121 x 123 x | o o o o o o o o o o o o o o o o o o | BANK SELECT MODULATION PORTAMENTO TIME DATA ENTER VOLUME PAN EXPRESSION SUSTAIN PEDAL PORTAMENTO ON/OFF SOSTENUTO PEDAL SOFT PEDAL REVERB PROGRAM CHROUS PROGRAM REVERB LEVEL CHROUS LEVEL ALL SOUNDS OFF RESET ALL CONTROLLERS ALL NOTES OFF |
| PROGRAM CHANGE | TRUE NUMBER | o ***** | o 0-127 | |
| SYSTEM EXCLUSIVE | | x | o | |
| SYSTEM COMMON | : SONG POSITION : SONG SELECT : TUNE | x x x | x x x | |
| SYSTEM REAL TIME | : CLOCK : COMMANDS | o o | x x | START AND STOP ONLY |
| AUX MESSAGE | : LOCAL ON/OFF : ALL NOTES OFF : ACTIVE SENSING : RESET | x x o x | x x x x | |

TROUBLESHOOTING

| Problem | Reason or Solution |
|---|--|
| No sound/sound is too low | 1. Make sure the volume knob is set correctly and adjust the volume knob. |
| | 2. Check whether the audio cable between the audio source and the power amplifier or other playback equipment is connected correctly. Replace the cable to test. |
| | 3. If you are connecting to the audio device through the mixer, insert a good earphone into the headphone output jack of the audio source. If there is sound, check whether the cable is normal, the Settings and connections of the mixer and audio equipment normal? |
| No sound on the external drum pad | 1. Make sure that the connecting wire between the drum pad and the host machine is connected correctly and in place. |
| | 2. Check whether setting "LOCAL" to "OFF". If setting to "OFF", there is no sound output on the drum pad. |
| | 3. Check whether the corresponding drum volume is set to 0. |
| No sound on the external drum pad | Whether the metronome volume is 0 |
| No sound on DEMO SONG | Make sure the volume of DEMO SONG is not 0 |
| There is no sound output connected to MIDI communication devices | 1. Check whether the USB cable used to connect is damaged. |
| | 2. Verify whether the communication channel is set correctly. The communication channel set by the audio source is 10 channels by default. If the audio source is set to other channels, other MIDI devices should also be set to corresponding channels. |

AUDIO SOURCE SPECIFICATIONS

- **POLYPHONY:** 64
- **DISPLAY:** 3-segment numeric LED
- **VOICE:** 320 drum and other percussion voices + 128 kinds of GM music tone
- **DRUM KITS:** 22 preset drum kits+10 user drum kits

SEQUENCER:

1. Single track recording 1000 notes
2. Normal mode:20 preset songs

TEMPO FUNCTION:

1. Tempo tone: 4 kinds
2. Adjustable range: 30-250
3. Tempo: 1/2-9/8

CONNECTION:

- Headphone stereo output (1/8"), AUX INPUT stereo port (1/8")
- Audio output interface L MONO OUT (1/4"), R OUT (1/4")
- Sensor interface (D-SUB 25P)
- MIDI IN/MIDI OUT Interface (standard 5-pin port)
- USB Data interface (USB B-type interface)
- **Extension:** CRASH2, TOM4 (1/4")
- Battery power supply interface

***** The specification is subject to change without prior notice. *****

DRUM KIT LIST

| No. | Name | No. | Name |
|-------|----------|-------|---------|
| KIT01 | ROCK | KIT17 | BRUSH |
| KIT02 | FUNK/POP | KIT18 | ELE1 |
| KIT03 | JAZZ | KIT19 | ELE2 |
| KIT04 | LATIN | KIT20 | COUNTRY |
| KIT05 | DANCE | KIT21 | ORCH |
| KIT06 | POP1 | KIT22 | SONGGU |
| KIT07 | POP2 | KIT23 | USER01 |
| KIT08 | POP3 | KIT24 | USER02 |
| KIT09 | HARD RCK | KIT25 | USER03 |
| KIT10 | METAL | KIT26 | USER04 |
| KIT11 | FUNK1 | KIT27 | USER05 |
| KIT12 | FUNK12 | KIT28 | USER06 |
| KIT13 | HIP-HOP | KIT29 | USER07 |
| KIT14 | FUSSION | KIT30 | USER04 |
| KIT15 | BLUES | KIT31 | USER05 |
| KIT16 | CUBAN | KIT32 | USER06 |

VOICE LIST

| KICK | |
|--------------|---------|
| 1 | KIT01 |
| 2 | KIT02 |
| 3 | KIT03 |
| 4 | KIT04 |
| 5 | KIT05 |
| 6 | KIT06 |
| 7 | KIT07 |
| 8 | KIT08 |
| 9 | KIT09 |
| 10 | KIT10 |
| 11 | KIT11 |
| 12 | KIT12 |
| 13 | KIT13 |
| 14 | KIT14 |
| 15 | KIT15 |
| 16 | KIT16 |
| 17 | KIT17 |
| 18 | KIT18 |
| 19 | KIT19 |
| 20 | KIT20 |
| 21 | KIT21 |
| 22 | KIT22 |
| 23 | KIT23 |
| 24 | KIT24 |
| 25 | KIT25 |
| 26 | KIT26 |
| SNARE | |
| 27 | SNARE01 |
| 28 | SNARE02 |
| 29 | SNARE03 |
| 30 | SNARE04 |
| 31 | SNARE05 |
| 32 | SNARE06 |
| 33 | SNARE07 |
| 34 | SNARE08 |
| 35 | SNARE09 |
| 36 | SNARE10 |
| 37 | SNARE11 |
| 38 | SNARE12 |
| 39 | SNARE13 |
| 40 | SNARE14 |
| 41 | SNARE15 |
| 42 | SNARE16 |
| 43 | SNARE17 |
| 44 | SNARE18 |
| 45 | SNARE19 |
| 46 | SNARE20 |
| 47 | SNARE21 |
| 48 | SNARE22 |
| 49 | SNARE23 |
| 50 | SNARE24 |

| 51 | SNARE25 |
|--------------|-----------|
| 52 | SNARE26 |
| 53 | SNARE27 |
| 54 | SNARE28 |
| 55 | SNRIM1 |
| 56 | SNRIM2 |
| 57 | SNRIM3 |
| 58 | SNRIM4 |
| 59 | SNRIM5 |
| 60 | SNRIM6 |
| 61 | SNRIM7 |
| 62 | SNRIM8 |
| 63 | ESNR1 |
| 64 | ESNR2 |
| 65 | ESNR3 |
| 66 | ESNR4 |
| 67 | ESNR5 |
| 68 | ESNR6 |
| 69 | ESNR7 |
| 70 | ESNR8 |
| 71 | ESNR9 |
| HIHAT | |
| 72 | CLHIHAT01 |
| 73 | CLHIHAT02 |
| 74 | CLHIHAT03 |
| 75 | CLHIHAT04 |
| 76 | CLHIHAT05 |
| 77 | CLHIHAT06 |
| 78 | CLHIHAT07 |
| 79 | CLHIHAT08 |
| 80 | CLHIHAT09 |
| 81 | CLHIHAT10 |
| 82 | CLHIHAT11 |
| 83 | CLHIHAT12 |
| 84 | CLHIHAT13 |
| 85 | CLHIHAT14 |
| 86 | CLHIHAT15 |
| 87 | CLHIHAT16 |
| 88 | PDLHHT01 |
| 89 | PDLHHT02 |
| 90 | PDLHHT03 |
| 91 | PDLHHT04 |
| 92 | PDLHHT05 |
| 93 | PDLHHT06 |
| 94 | PDLHHT07 |
| 95 | PDLHHT08 |
| 96 | PDLHHT09 |
| 97 | PDLHHT10 |
| 98 | PDLHHT11 |
| 99 | PDLHHT12 |
| 100 | PDLHHT13 |
| 101 | PDLHHT14 |

| 102 | PDLHHT15 |
|------------|-----------|
| 103 | PDLHHT16 |
| 104 | OPNHHT01 |
| 105 | OPNHHT02 |
| 106 | OPNHHT03 |
| 107 | OPNHHT04 |
| 108 | OPNHHT05 |
| 109 | OPNHHT06 |
| 110 | OPNHHT07 |
| 111 | OPNHHT08 |
| 112 | OPNHHT09 |
| 113 | OPNHHT10 |
| 114 | OPNHHT11 |
| 115 | OPNHHT12 |
| 116 | OPNHHT13 |
| 117 | OPNHHT14 |
| 118 | OPNHHT15 |
| 119 | OPNHHT16 |
| 120 | HOPNHHT01 |
| 121 | HOPNHHT02 |
| 122 | HOPNHHT03 |
| 123 | HOPNHHT04 |
| 124 | HOPNHHT05 |
| 125 | HOPNHHT06 |
| 126 | HOPNHHT07 |
| 127 | HOPNHHT08 |
| 128 | HOPNHHT09 |
| 129 | LSHHT1 |
| 130 | LSHHT2 |
| 131 | LSHHT3 |
| 132 | LSHHT4 |
| 133 | LSHHT5 |
| 134 | LSHHT6 |
| 135 | LSHHT7 |
| 136 | ELCHHT1 |
| 137 | ELCHHT2 |
| 138 | ELCHHT3 |
| 139 | ELCHHT4 |
| 140 | ELCHHT5 |
| 141 | ELCHHT6 |
| 142 | ELCHHT7 |
| TOM | |
| 143 | TOMH1 |
| 144 | TOMH2 |
| 145 | TOMH3 |
| 146 | TOMH4 |
| 147 | TOMH5 |
| 148 | TOMH6 |
| 149 | TOMH7 |
| 150 | TOMM1 |
| 151 | TOMM2 |
| 152 | TOMM3 |

| 153 | TOMM4 |
|---------------|--------|
| 154 | TOMM5 |
| 155 | TOMM6 |
| 156 | TOMM7 |
| 157 | TOMM8 |
| 158 | TOML1 |
| 159 | TOML2 |
| 160 | TOML3 |
| 161 | TOML4 |
| 162 | TOML5 |
| 163 | TOML6 |
| 164 | TOML7 |
| 165 | TOML8 |
| 166 | TOML9 |
| 167 | TOME1 |
| 168 | TOME2 |
| 169 | TOME3 |
| 170 | TOME4 |
| 171 | TOME5 |
| 172 | TOME6 |
| 173 | TOME7 |
| CYMBAL | |
| 174 | CRSH01 |
| 175 | CRSH02 |
| 176 | CRSH03 |
| 177 | CRSH04 |
| 178 | CRSH05 |
| 179 | CRSH06 |
| 180 | CRSH07 |
| 181 | CRSH08 |
| 182 | CRSH09 |
| 183 | CRSH10 |
| 184 | CRSH11 |
| 185 | CRSH12 |
| 186 | CRSH13 |
| 187 | CRSH14 |
| 188 | CRSH15 |
| 189 | CRSH16 |
| 190 | CRSH17 |
| 191 | CRSH18 |
| 192 | CRSH19 |
| 193 | CRSH20 |
| 194 | CRSH21 |
| 195 | CRSH22 |
| 196 | CRSH23 |
| 197 | CRSH24 |
| 198 | CRSH25 |
| 199 | CRSH26 |
| 200 | CRSH27 |
| 201 | CRSH28 |
| 202 | RIDE1 |
| 203 | RIDE2 |

| | |
|-------------------|------------|
| 204 | RIDE3 |
| 205 | RIDE4 |
| 206 | RIDE5 |
| 207 | RIDE6 |
| 208 | RIDE7 |
| 209 | RIDE8 |
| 210 | RDBELL1 |
| 211 | RDBELL2 |
| 212 | RDBELL3 |
| 213 | RDBELL4 |
| 214 | RDBELL5 |
| 215 | RDBELL6 |
| 216 | RDBELL7 |
| 217 | ELCRASH1 |
| 218 | ELCRASH2 |
| 219 | ELCRASH3 |
| 220 | ELCRASH4 |
| 221 | ELCRASH5 |
| 222 | ELCRASH6 |
| PERCUSSION | |
| 223 | HI_Q |
| 224 | SLAP |
| 225 | SCRCH1 |
| 226 | SCRCH2 |
| 227 | STICK |
| 228 | SQCLCK |
| 229 | CLICK |
| 230 | BELL |
| 231 | CLAP1 |
| 232 | CLAP2 |
| 233 | CLAP3 |
| 234 | TAMBRINE |
| 235 | COWBELL1 |
| 236 | COWBELL2 |
| 237 | COWBELL3 |
| 238 | ELCRASH4 |
| 239 | VSLAP |
| 240 | HIBONGO |
| 241 | LOBANGO |
| 242 | MUTECONGA1 |
| 243 | MUTECONGA2 |
| 244 | LOCONGA1 |
| 245 | LOCONGA2 |
| 246 | HTIMBL1 |
| 247 | HTIMBL2 |
| 248 | LTIMBL1 |
| 249 | LTIMBL2 |
| 250 | HIAGOGO |
| 251 | LOAGOGO |
| 252 | CABASA |
| 253 | MARACS |
| 254 | WHISTLE_S |

| | |
|-----|-----------|
| 255 | LOAGOGO |
| 256 | CABASA |
| 257 | MARACS |
| 258 | WHISTLE_S |
| 259 | WHISTLE_L |
| 260 | SGUIRO |
| 261 | GUIRO_S |
| 262 | GUIRO_L |
| 263 | CLAVES |
| 264 | WBLK_H |
| 265 | WBLK_L |
| 266 | CUICA_M |
| 267 | CUICA_O1 |
| 268 | CUICA_O2 |
| 269 | MTRIANGLE |
| 270 | OTRIANGLE |
| 271 | SHAKER1 |
| 272 | SHAKER2 |
| 273 | JNGLBL |
| 274 | BLTREE |
| 275 | CSTNTS1 |
| 276 | CSTNTS2 |
| 277 | SURDO_M |
| 278 | SURDO_O |
| 279 | TLKNDML |
| 280 | TLKNDMH |
| 281 | TABLA1 |
| 282 | TABLA2 |
| 283 | SNAP |
| 284 | DJMB1 |
| 285 | DJMB2 |
| 286 | DJMB3 |
| 287 | CAJON1 |
| 288 | CAJON2 |
| 289 | CAJON3 |
| 290 | TMPNI1 |
| 291 | TMPNI2 |
| 292 | GONG_L |
| 293 | ELCLKH |
| 294 | ELCLKL |
| 295 | TAIKO |
| 296 | BELL |
| 297 | BAN |
| 298 | SIGU |
| 299 | DONG1 |
| 300 | DONG2 |
| 301 | GONG1 |
| 302 | PIATIH |
| 303 | HGONG1 |
| 304 | HGONG2 |
| 305 | GONG2 |
| 306 | GONG3 |

| | |
|-----|--------|
| 307 | PIATIM |
| 308 | ESCRCH |
| 309 | ECLK |
| 310 | CIRCLE |
| 311 | DOWN |
| 312 | VOCAL1 |
| 313 | VOCAL2 |
| 314 | VOCAL3 |
| 315 | VOCAL4 |
| 316 | VOCAL5 |
| 317 | VOCAL6 |
| 318 | VOCAL7 |
| 319 | VOCAL8 |
| 320 | VOCAL9 |

GM DRUM KIT LIST

| Note No. | Standard name | Voice No. | Voice Name |
|----------|--------------------|-----------|------------|
| 27 – D#1 | High Q | 223 | High Q |
| 28 E1 | Slap | 224 | SLAP |
| 29 – F1 | Scratch Push | 225 | SCRCH1 |
| 30 – F#1 | Scratch Pull | 226 | SCRCH2 |
| 31 – G1 | Sticks | 227 | STICK |
| 32 – G#1 | Square Click | 228 | SQCLCK |
| 33 – A1 | Metronome Click | 229 | CLICK |
| 34 – A#1 | Metronome Bell | 230 | BELL |
| 35 – B1 | Acoustic Bass Drum | 1 | KICK01 |
| 36 – C2 | Bass Drum 1 | 6 | KICK06 |
| 37 – C#2 | Side Stick | 55 | SNRIM1 |
| 38 – D2 | Acoustic Snare | 49 | SNARE23 |
| 39 – D#2 | Hand Clap | 231 | CLAP1 |
| 40 – E2 | Electric Snare | 28 | SNARE02 |
| 41 – F2 | Low Floor Tom | 160 | TOML3 |
| 42 – F#2 | Closed Hi Hat | 72 | CLHIHAT01 |
| 43 – G2 | High Floor Tom | 160 | TOML3 |
| 44 – G#2 | Pedal Hi-Hat | 88 | PDLHHT01 |
| 45 – A2 | Low Tom | 151 | TOMM2 |
| 46 – A#2 | Open Hi-Hat | 104 | OPNHHT01 |
| 47 – B2 | Low-Mid Tom | 144 | TOMH2 |
| 48 – C3 | Hi-Mid Tom | 144 | TOMH2 |
| 49 – C#3 | Crash Cymbal 1 | 184 | CRSH11 |
| 50 – D3 | High Tom | 144 | TOMH2 |
| 51 – D#3 | Ride Cymbal 1 | 206 | RIDE5 |
| 52 – E3 | Chinese Cymbal | 193 | CRSH20 |
| 53 – F3 | Ride Bell | 213 | RDBELL4 |
| 54 – F#3 | Tambourine | 234 | TAMBRINE |
| 55 – G3 | Splash Cymbal | 191 | CRSH18 |
| 56 – G#3 | Cowbell | 235 | COWBELL1 |

| Note No. | Standard name | Voice No. | Voice Name |
|----------|----------------|-----------|------------|
| 57 – A3 | Crash Cymbal 2 | 185 | CRASH12 |
| 58 – A#3 | Vibraslap | 241 | VSLP1 |
| 59 – B3 | Ride Cymbal 2 | 209 | RIDE8 |
| 60 – C4 | Hi Bongo | 242 | HIBONGO |
| 61 – C#4 | Low Bongo | 243 | LOBANGO |
| 62 – D4 | Mute Hi Conga | 244 | MUTECONGA1 |
| 63 – D#4 | Open Hi Conga | 246 | HICONGA1 |
| 64 – E4 | Low Conga | 248 | LOCONGA1 |
| 65 – F4 | High Timbale | 250 | HTIMBL1 |
| 66 – F#4 | Low Timbale | 252 | LTIMBL1 |
| 67 – G4 | High Agogo | 254 | HIAGOGO |
| 68 – G#4 | Low Agogo | 255 | LOAGOGO |
| 69 – A4 | Cabasa | 256 | CABASA |
| 70 – A#4 | Maracas | 257 | MARACS |
| 71 – B4 | Short Whistle | 258 | WHISTLE_S |
| 72 – C5 | Long Whistle | 259 | WHISTLE_L |
| 73 – C#5 | Short Guiro | 260 | SGUIRO |
| 74 – D5 | Long Guiro | 262 | GUIRO_L |
| 75 – D#5 | Claves | 263 | CLAVES |
| 76 – E5 | Hi Wood Block | 264 | WBLK_H |
| 77 – F5 | Low Wood Block | 265 | WBLK_L |
| 78 – F#5 | Mute Cuica | 266 | CUICA_M |
| 79 – G5 | Open Cuica | 267 | CUICA_O1 |
| 80 – G#5 | Mute Triangle | 269 | MTRIANGLE |
| 81 – A5 | Open Triangle | 270 | OTRIANGLE |
| 82 – A#5 | Shaker | 271 | SHAKER1 |
| 83 – B5 | Jingle Bell | 273 | JNGLBL |
| 84 – C6 | Bell Tree | 274 | BLTREE |
| 85 – C#6 | Castanets | 275 | CSTNTS1 |
| 86 – D6 | Mute Surdo | 277 | SURDO_M |
| 87 – D#6 | Open Surdo | 278 | SURDO_O |

DEMO SONG LIST

| Number | Name | Meter | Tempo |
|---------|-----------|-------|-------|
| DEMO 01 | POP ROCK | 4/4 | 90 |
| DEMO 02 | FUNK | 4/4 | 110 |
| DEMO 03 | SHUFFLE | 4/4 | 117 |
| DEMO 04 | SHUFFLE | 4/4 | 128 |
| DEMO 05 | ROCKBLUES | 4/4 | 105 |
| DEMO 06 | ROCK | 2/4 | 120 |
| DEMO 07 | ROCK | 4/4 | 138 |
| DEMO 08 | DANCE | 2/4 | 140 |
| DEMO 09 | POP | 4/4 | 123 |
| DEMO 10 | POP | 4/4 | 100 |
| DEMO 11 | POP | 4/4 | 82 |
| DEMO 12 | POP | 4/4 | 159 |
| DEMO 13 | COUNTRY | 4/4 | 120 |
| DEMO 14 | COUNTRY | 4/4 | 108 |
| DEMO 15 | SWING | 4/4 | 140 |
| DEMO 16 | WALTZ | 3/4 | 180 |
| DEMO 17 | BOSSA | 4/4 | 120 |
| DEMO 18 | RAGGE | 4/4 | 110 |
| DEMO 19 | LATIN | 4/4 | 180 |
| DEMO 20 | FLAMINGO | 3/4 | 110 |



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