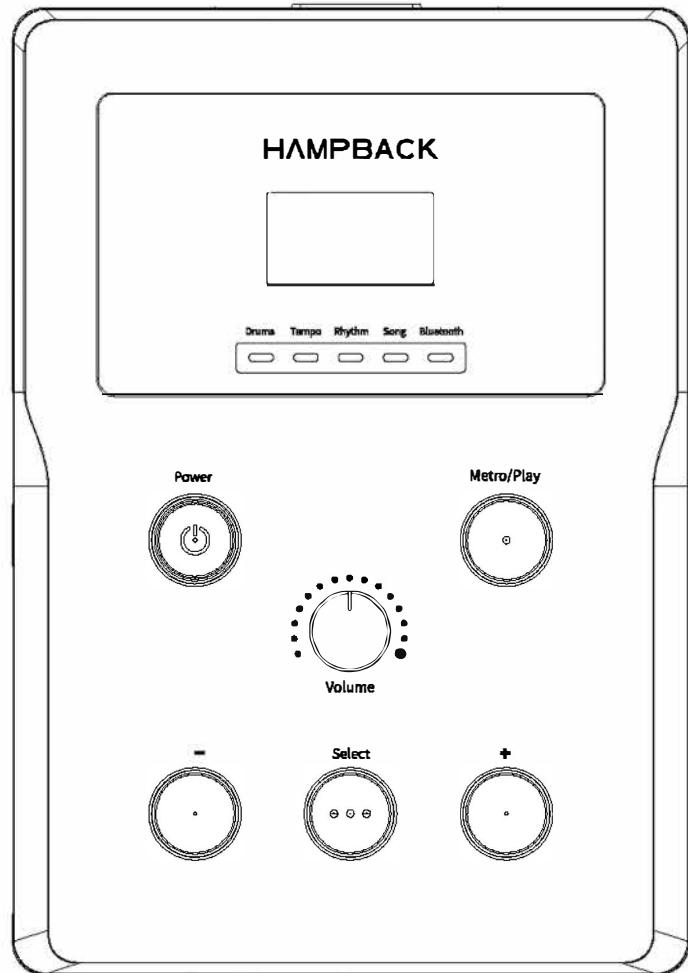


Electronic drum

HΛMPBACK

Owner's Manual V1.0

MK-0 PLUS



USING THE UNIT SAFELY



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



WARNING

- Please read the owner's manual carefully before use.
- Please connect the power plug with ground protected power outlet.
- Do not open (or modify in any way) the unit or its AC adapter (except when this manual provides specific instructions directing you to do so).
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so).
- Never use or store the unit in places that are:
 - a. Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
 - b. Damp (e.g., baths, washrooms, on wet floors); or are
 - c. Humid; or are
 - d. Exposed to rain; or are
 - e. Dusty; or are
 - f. Subject to high levels of vibration.
- When using the unit with a rack or stand, the rack or stand must be carefully placed so it is level and sure to remain stable. If not using a rack or stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

- Be sure to use only the AC adapter supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adapter's body. Other AC adapters may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.
- Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device. Do not excessively twist or bend the power cord, nor place heavy objects on it. It can damage the cord, producing severed elements and short circuits. Damaged cords may cause 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 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. Immediately turn the power off, and remove the AC adapter from the outlet, as listed on the "Information" page when: a. The AC adapter, the power-supply cord, or the plug has been damaged; or b. If smoke or unusual odor occurs; or c. Objects have fallen into, or liquid has been spilled onto the unit; or d. The unit has been exposed to rain (or otherwise has become wet); or e. The unit does not appear to operate normally or exhibit 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 unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords-the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/ampères) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt -through.

- The unit and the AC adapter should be located so their location or position does not interfere with their proper ventilation. Always grasp only the plug on the AC adapter cord when plugging into, or unplugging from, an outlet or this unit.
- At regular intervals, you should unplug the AC adapter and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of reach of children.
- Never climb on top of, nor place heavy objects on the unit.
- Never handle the AC adapter or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. Before moving the unit, disconnect the AC adapter and all cords coming from external devices.
- Before cleaning the unit, turn off the power and unplug the AC adapter from the outlet.
- Whenever you suspect the possibility of lightning in your area, disconnect the AC adapter from the outlet.
- Keep any caps you may remove and the included wing bolts in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

Power Supply

- Do not connect this unit to the same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise.
- If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet. The AC adapter will begin to generate heat after long hours of consecutive use. This is normal and is not a cause for concern.

- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum.
- To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference. This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices, so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity are very different, water droplets (condensation) may form inside the unit.
- Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours until the condensation has completely evaporated.

Maintenance

- For everyday cleaning, wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterward, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol, or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

- 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, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

- Any 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 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.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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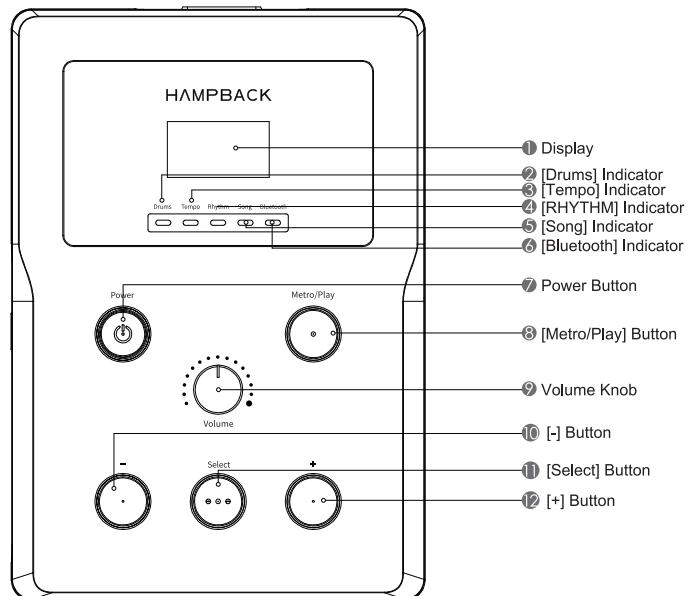
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1. OPERATION GUIDE

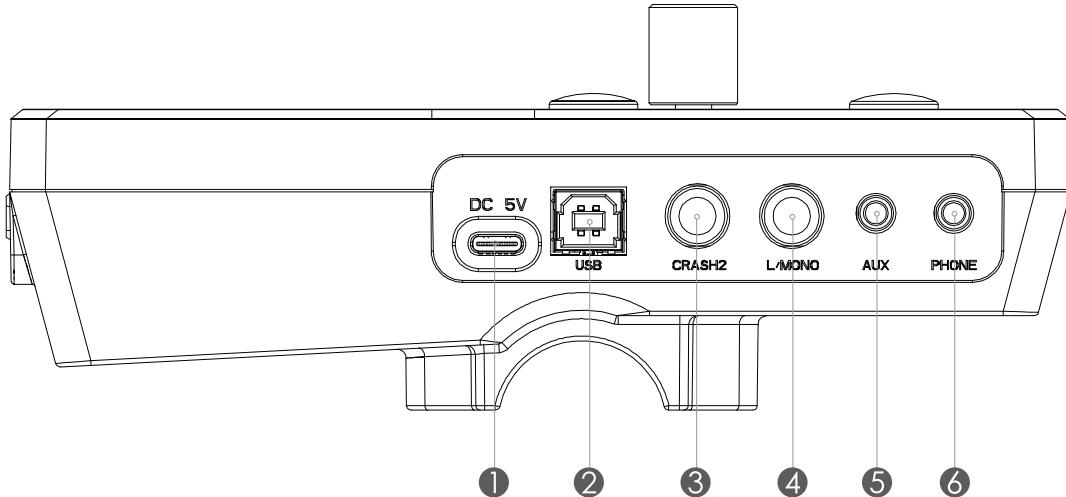
1.1 Specifications

| | |
|-----------------|--|
| Sound Module | MK-0 PLUS |
| Songs | 10 |
| Preset Drum Kit | 12 |
| Tone | 74 Preset Drum Tone |
| DSP Effects | Equalizer, Pan |
| Tempo | 20~320BPM |
| Display | Three Didital Tube |
| Power | Type C-5V 1A |
| Connectors | USB(UST Type B, USB MIDI) , AUX(3.5mm stereo) L/MONO(6.35mm stereo) , Phone(3.5mm stereo) DB15(Connect drum, cymbal, trigger) , CRASH2(6.35mm stereo) |

1.2 Panel Description



1.3 Socket Description



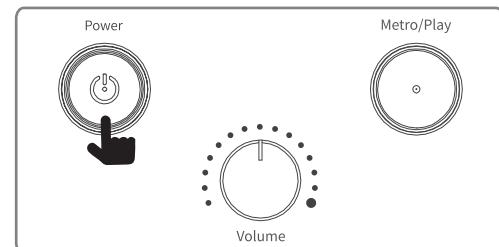
- ① DC 5V Jack: For TYPEC Power supply.
- ② USB Jack (USB-MIDI): Connect the module to your computer with a USB cable to transmit and receive USB MIDI, and to receive USB audio data.
- ③ Crash2 Jack: Connect CRASH2
- ④ L/MONO Jack: Connect to an amplifier or external audio devices.
- ⑤ AUX Jack: Connect to your audio player or other audio sources (MP3 or CD player). The sound input from this jack will be output from the L/MONO and PHONE jack.
- ⑥ PHONE Jack: Connect to headphones. Sound will still be output from the L/MONO jack even if headphones are connected.

2. GET READY TO PLAY

2.1 Turn power on

1. Turn the [VOLUME] knob counterclockwise to minimize the volume. Minimize the volume of the connected amp or audio sources.
2. Press the [POWER] button to turn the power on.
3. Power on the amp or other audio sources that are connected.
4. While striking the pads to hear the sound, adjust the volume by gradually turning the [VOLUME] knob.

* It is in Kit mode by default after being powered on, and the Kit indicator is on.



2.2 Turn power off

1. Long press the [POWER] button until the screen indicates power off.
2. Minimize the volume of the connected sound module or audio sources.
3. Power off audio sources that are connected.

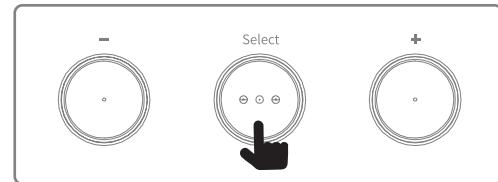


3. PLAYING THE DRUMS

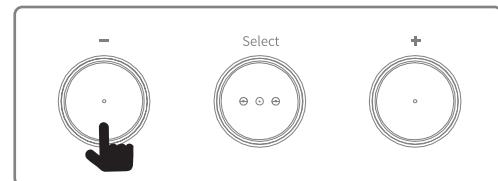
3.1 Adjusting a Drum Kit

1. Use the [Select] button to select a drum kit.

* It is in Drum mode by default after being powered on, and the Kit indicator is on.



2. The screen will appear drum kit number, press [+] [-] to select a drum kit from the list (total of 12 groups).



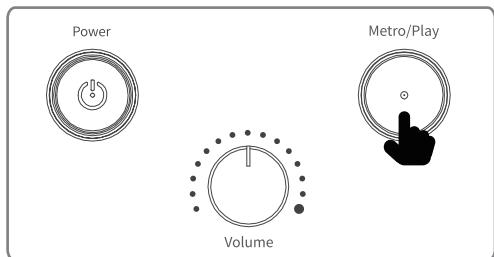
3.2 Changing the Metronome Tempo

1. Use the [Select] button to select the [Tempo] mode of Metronome Tempo.

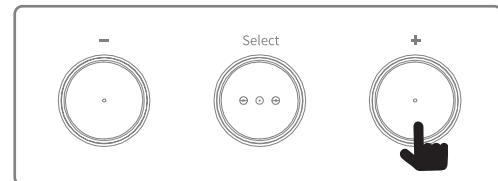
2. The screen will appear tempo.

* Tempo represents beats per minute (BPM), and the adjustment range is 20-320.

3. Press the [Metro/Play] button can turn on the Metronome, press again can turn it off.



4. Press [+] [-] to adjust tempo, long press can adjust quickly.



3.3. Changing the Metronome Volume

1. In Click mode, long press the [Metro/Play] button to adjust metronome volume.
2. The screen will appear volume value (20 levels).
3. Press [+/-] to adjust the volume.
4. Long press the [Metro/Play] button to exit volume adjustment, then save settings. Or short press the [Select] button to exit the current setup status, and switch to next mode.



3.4. Changing the Metronome Rhythm

1. Use the [Select] button to select the Rhythm mode of the metronome.
2. The screen will appear Rhythm to be set.
* In Rhythm mode, press [+/-] to adjust the beat.

(2)

3.5 Performing with a Song

1. Use the [Select] button to select the Song mode.
2. Press [+/-] to select the desired song, and the screen will appear song number (total 10 songs).
3. Play/Pause the song
(1) Short press the [Metro/Play] button to play, press again it to pause.
4. On/off of the Metronome in Song mode
(1) In Metronome off status, long press [Metro/Play] button to turn on.
(2) In Metronome on status, long press [Metro/Play] button to turn off.

| Display | Description |
|---------|--|
| 8.8.8 | 1/4 would mean quarter note gets one beat and one beat per measure. |
| 2.8.8 | 2/4 would mean quarter note gets one beat and two beats per measure. |
| 3.8.9 | 3/4 would mean quarter note gets one beat and three beats per measure. |
| 4.8.8 | 4/4 would mean quarter note gets one beat and four beats per measure. |
| 5.8.4 | 5/4 would mean quarter note gets one beat and five beats per measure. |
| 6.8.8 | 6/4 would mean quarter note gets one beat and six beats per measure. |
| 7.8.8 | 7/4 would mean quarter note gets one beat and seven beats per measure. |
| 8.8.9 | 8/4 would mean quarter note gets one beat and eight beats per measure. |
| 9.8.8 | 9/4 would mean quarter note gets one beat and nine beats per measure. |

4. OTHER SETTINGS

4.1 Auto Power Off

When this function is enabled, the power will automatically shut off if there is no input from the pads or no signal is received from any of the input jacks for a certain period of time.

1. In power-off status, while pressing and holding the [Metro/Play] button, and then press the [Power] button to turn on.
2. The screen will appear the current value, press [+] [-] to change the time of Auto power off (unit: minute).
3. Press the [Metro/Play] button to enter the usage mode. Long press the [Power] button to turn the power off and finish the setting. The setting will not be stored when abnormal operations such as power failure occur; A normal shutdown will save the current settings.

| Display | Description |
|---|--|
|  | Auto power off function is disabled when the value is 0. |
|  | Auto power off function is enabled when the value is greater than 0 and the set time is exceeded. (Unit: minute) |

4.2. Factory reset

This operation will restore all settings of the drum kit to their factory state.

1. In power off status, while pressing and holding the [Select] button, and then pressing the [Power] button to turn on, the screen will appear:



2. Press the [Metro/Play] button to confirm the factory reset. If you want to cancel the Factory reset, please long press the [Power] button to turn the power off.

* Factory settings are as follows:

4.3. Bluetooth connection

1. Match: Upon sound module on, search for Bluetooth device and find the device in about 5 seconds(Musicpro XXXX)
2. Connect: Link Bluetooth
3. When connected, music could be played by Bluetooth.

| Items | Default parameters |
|---------------------|--------------------|
| Drum kit mode | 01 |
| Song | S-01 |
| Metronome tempo | 60 |
| Metronome rhythm | 4/4 |
| Metronome volume | L-20 |
| Auto power off time | 00 |

INDEX 1-BRUM KIT List

| NUM | NAME | NUM | NAME |
|-----|---------|-----|----------|
| 1 | Classic | 7 | Pop |
| 2 | Rock | 8 | Gospel |
| 3 | Fusion | 9 | Jazz |
| 4 | Blues | 10 | Reggaes |
| 5 | Metal | 11 | Concrete |
| 6 | Funk | 12 | Fix |

INDEX 2-SONG List

| NUM | NAME | NUM | NAME |
|-----|--------|-----|--------|
| 1 | Demo 1 | 6 | Demo 6 |
| 2 | Demo 2 | 7 | Demo 7 |
| 3 | Demo 3 | 8 | Demo 8 |
| 4 | Demo 4 | 9 | Demo 9 |
| 5 | Demo 5 | 10 | Demo10 |

INDEX 3-VOICE List

| NUM | NAME |
|--------|--------------------------------|
| Crash | |
| 1 | Crash-B-Track 1.B_16-Edgep |
| 2 | Crash-Z.K_16 Edge |
| 3 | Crash-Z-Track 1.A_18 Edgep |
| 4 | Crash-Z-Track 1.K_18 Edgep |
| 5 | Crash-Synth Arena 1 |
| 6 | Crash-Stab Jack 5 |
| 7 | Crash-B.B_18-EdgeRoll |
| 8 | Crash-B.M_18-EdgeRoll |
| 9 | Crash-China-Z.A_20.xdi |
| 10 | Crash-S.HX_16-EdgeRoll |
| 11 | Crash-Splash-B.Z_8 |
| 12 | Crash-Splash-Z.K_10 |
| 13 | Crash-Z.A_16 Edge |
| Hi-Hat | |
| 14 | HH-Chick-B.B_14 |
| 15 | HH-Chick-Master 14 |
| 16 | HH-Chick-I.AX_17 |
| 17 | HH-Chick-Bass Concrete 1 |
| 18 | HH-Chick-Shaker BottlePoppin 2 |
| 19 | HH-Closed-B.B_14-Edge 3 |
| 20 | HH-Closed-Master 14-Edge 3 |
| 21 | HH-Closed-I.AX_17-Edge 3 |
| 22 | HH-Closed-Z.K_14-Edge 3 |
| 23 | HH-Closed-Z.A_14-Edge 3 |
| 24 | HH-Close-Concrete 4 |
| 25 | HH-Close-Alphabetical 1 |
| 26 | HH-Open-B.B_14-Edge |
| 27 | HH-Open-Master 14-Edge |
| 28 | HH-Open-I.AX_17-Edge |
| 29 | HH-Open-Z.K_14-Edge |
| 30 | HH-Open-Z.A_14-Edge |

| NUM | NAME |
|-------|----------------------|
| 31 | HH-Open-Concrete 4 |
| 32 | HH-Open-Alphabetical |
| Kick | |
| 33 | Kick-Blues 7 |
| 34 | Kick-Classic 7 |
| 35 | Kick_fusion-7 |
| 36 | Kick-Metal 7 |
| 37 | Kick-Rock 7 |
| 38 | Kick-Concrete 4 |
| 39 | Kick-Ganja 4 |
| Ride | |
| 40 | Ride-Z.K_20 Top |
| 41 | Ride-Z.A_20 Top |
| 42 | Ride-B.M_20-Top |
| 43 | Ride-Master 20-Top3p |
| 44 | Ride-M.S_22-Top 3p |
| 45 | Ride-Clap Jack 3 |
| 46 | Ride-Orgami |
| Snare | |
| 47 | Snare-Blues 9 |
| 48 | Snare-Classic 9 |
| 49 | Snare-9_fusion |
| 50 | Snare-Metal 9 |
| 51 | Snare-Rock 9 |
| 52 | Snare-Concrete 7 |
| 53 | Snare-Arena 2 |
| Tom1 | |
| 54 | Tom1-Blues 5 |
| 55 | Tom1-Classic 5 |
| 56 | Tom1-5_fusion |
| 57 | Tom1-Metal 5 |
| 58 | Tom1-Rock 5 |

| NUM | NAME |
|------|--------------------|
| 59 | Tom1-Dakeat 2 |
| 60 | Tom1-Buzz Dakeat 1 |
| Tom2 | |
| 61 | Tom2-Blues 5 |
| 62 | Tom2-Classic 5 |
| 63 | Tom2-5_fusion |
| 64 | Tom2-Metal 5 |
| 65 | Tom2-Rock 5 |
| 66 | Tom2-Dakeat 3 |

| NUM | NAME |
|------|--------------------|
| 67 | Tom2-SFX Dakeat 2 |
| Tom3 | |
| 68 | Tom3-Blues 5 |
| 69 | Tom3-Classic 5 |
| 70 | Tom3-5_fusion |
| 71 | Tom3 -Metal 5 |
| 72 | Tom3-Rock 5 |
| 73 | Tom3-SFX Dakeat 2 |
| 74 | Tom3-Buzz Dakeat 3 |