Classic Cantabile AP-30 Active Monitor

ArtNo. : 00011178

Operating instructions

Version: 02.2021

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Content

Thank you for purchasing this Classic Cantabile Active Monitor.
To ensure that you are completely satisfied with the item, please read carefully and understand this owner's manual before using our product. Keep these operating instructions in a safe place. The operating instructions must be passed on to all subsequent users.

Follow the operating instructions!

⚠ WARNUNG   The signal word WARNING indicates hazards that can lead to serious injuries if no precautionary measures are taken.

⚠ HINWEIS   The signal word NOTE indicates general precautions to be observed when handling the product.

⚠ HINWEIS   Images and screen representations in these operating instructions may differ slightly from the appearance of the actual product, as long as this does not have a negative impact on the technical characteristics and safety of the product.

⚠ HINWEIS   All person-related formulations in these operating instructions are to be regarded as gender-neutral.

These operating instructions apply to persons who have been supervised or instructed in the operation of the appliance by a person responsible for their safety and who have demonstrated their ability to handle the appliance.

⚠ WARNUNG   **Children should be supervised to ensure that they do not play with the appliance.**
Do not leave children unattended.

All information in these operating instructions has been checked to the best of our knowledge and belief. However, neither the author nor the publisher can be held liable for any damage in connection with the use of these operating instructions.

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Detailed safety instructions:

- Read these instructions.

- Keep these instructions in a safe place.

- Heed all warnings. Follow all instructions.

- Do not use this appliance near water.

- Clean the unit only with a dry cloth.

- Do not block any ventilation openings.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

- Do not step on the cable and avoid pinching it, especially at the cable plug, the socket and the cable exit from the appliance.

- Use only stands, tripods, brackets or tables specified by the manufacturer or sold with the unit. Handle with care to avoid injury.

- Pay attention to the volume! Listening at too high a volume level can permanently damage your hearing.

- Disconnect this unit from the power supply during thunderstorms or when not in use for long periods of time.

- Contact qualified service personnel for all repair/maintenance work. Do not open the unit or the housing without authorisation. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Specifications:

Power supply: AC 120V~, 60 Hz
Power: 40W
Weight: 15kg
Dimensions: 351x345x367mm

Use of the Active Monitor

Installation place
Do not expose your device to the following conditions to avoid deformation, discolouration or more serious damage:
- Direct sunlight
- Too high temperatures (near a heat source or in a car exposed to direct sunlight).
- Humidity

Operation and transport
Do not apply excessive force to the rotary joints, connections or other parts of the box for use.
Always pull the cables out of the socket by the plug and not by pulling on the cable.
Disconnect the cables from all sockets before moving the product.
Dropping the unit, bumping it or placing heavy objects on it may result in damage to the unit. In this case, scratches or other more serious damage may also occur.

Electronic noise
This product contains digital circuitry and may occasionally interfere with radio or television equipment if placed too close to it. If such interference occurs, move the speaker further away from the affected equipment.

Cleaning
Clean the instrument with a dry, lint-free cloth. A slightly damp cloth can remove stubborn dirt from the instrument.
Do not use chemical cleaning agents containing alcohol or thinner.
Do not place vinyl objects on the unit.

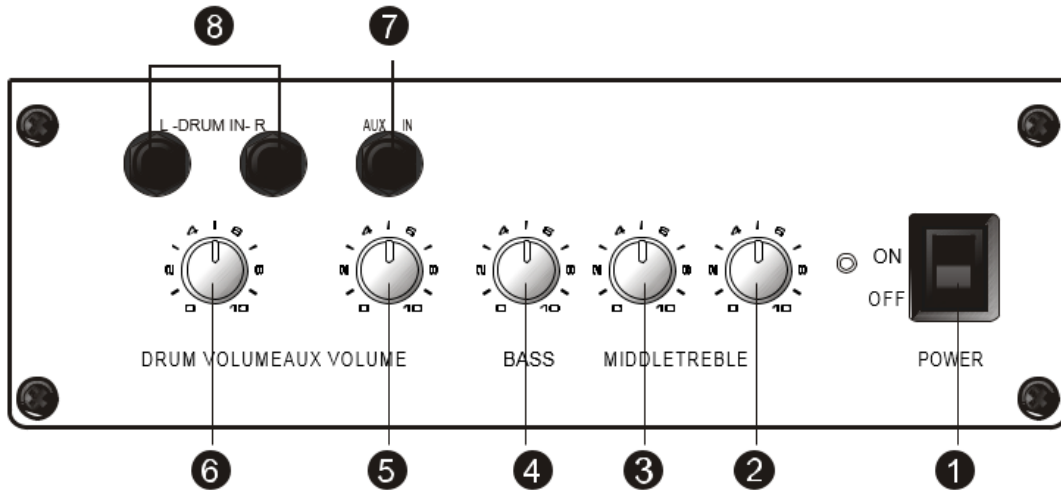### Switch off the unit before connecting it to the power supply
To avoid damage to your unit and connected instruments, switch off all connected equipment before connecting or disconnecting power.

Energy supply
Switch the "Power" button to "OFF" when you are not using the unit.

Controls:

Front

1. "Power" button - Switch the unit on or off

2. "Treble" knob - Allows you to adjust the treble in the mix

3. "Middle" knob - Regulate the mids in the mix

4. "Bass" knob - This can be used to raise or lower the bass in the mix

5. AUX Volume Knob - Use this knob to adjust the output volume of the external audio signal.

6. "Drum Volume" knob - Use this knob to regulate the output volume of the connected instrument.

7. AUX IN socket - input socket for connecting external audio equipment

8. Drum IN socket (left and right) - input socket for digital instruments such as e-drums

Back cover

If the power supply does not match the requirements of the amplifier, the electrical fuse may be damaged.
If the amplifier does not operate normally, have this fuse checked.
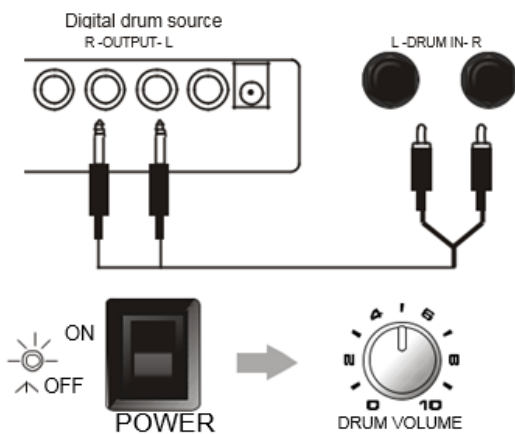
Connections:

Connecting the power cable

Make sure that the amplifier is switched off while connecting or disconnecting the unit from the power source.

Connect the power cable to the power input socket on the back of the box.
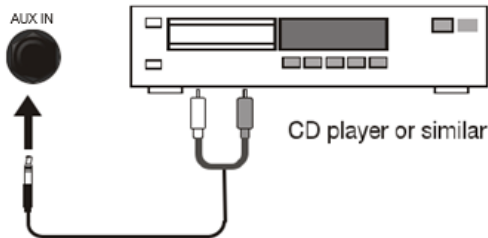
Plug the power cable into the socket.

Connecting the Drum IN socket

Connect your digital drum set via audio cable to the Drum IN socket of the amplifier while it is switched off.

The volume of the digital drum set can be changed by the "Drum Volume" control.

AUX IN socket

Connect your external audio device (e.g. MP3 player, mobile phone, etc.) to the AUX IN socket to play your favourite songs parallel to the drum kit sound.

The volume of the external audio device can be changed using the AUX volume control.

WEEE Declaration
(Waste of Electrical and Electronic Equipment)

Your product has been designed and manufactured using high quality materials and components that are recyclable and reusable. The symbol means that your product must be disposed of separately from household waste at the end of its life.
Dispose of this appliance at your local collection point or recycling centre.
Please help protect the environment in which we all live.

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XDrum Schlagzeug Hocker

Aufbauanleitung

Sie finden die Aufbauanleitung zu Ihrem Drum Hocker online unter folgendem Link:

XDrum Semi

https://www.kirstein.de/docs/manuals/XDrum-Schlagzeughocker%20Semi-Aufbauanleitung_DE.pdf

XDrum DHS-1

https://www.kirstein.de/docs/manuals/XDrum-Schlagzeughocker%20DHS-1-Aufbauanleitung_DE.pdf

Um die Umwelt zu schützen, versenden wir diese Handbücher nicht in gedruckter Form. Sollten Sie dies dennoch wünschen, können Sie sich die Anleitungen ganz einfach unter den angegeben Links bzw. durch Scannen des QR Codes ausdrucken oder Sie kontaktieren uns direkt und wir schicken Ihnen diese in gedruckter Form per Post zu.

XDrum Drum Stool

Assembly instruction

You can find the Assembly instruction for your drum throne online under the following link:

XDrum Semi

https://www.kirstein.de/docs/manuals/XDrum-Drum%20Stool%20Semi-Assembly%20Instruction_EN.pdf

XDrum DHS-1

https://www.kirstein.de/docs/manuals/XDrum-Schlagzeughocker%20DHS-1-Assembly%20Instruction_EN.pdf

In order to protect the environment, we do not send these manuals in printed form. Should you nevertheless wish to do so, you can easily print out the instructions using the links or QR code provided or contact us directly and we will send them to you in printed form by post.

DD-530 Mesh Head E-Drum

User manual

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

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.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CAUTION
The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

Power Supply
Please connect the designated AC adaptor to an AC outlet of the correct voltage.

Do not connect it to an AC outlet of voltage other than that for which your instrument is intended.

Unplug the AC power adaptor when not using the instrument, or during electrical storms.

Connections
Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

Location
Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

Interference with other electrical devices
Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Cleaning
Clean only with a soft, dry cloth.
Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling
Do not apply excessive force to the switches or controls.

Do not let paper, metallic, or other objects into the instrument. If this happens, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

Contents

QUICK START

ADVANCED USE

APPENDICES

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Panel Description

Front Panel

1. VOLUME Knob
Adjust the volume of phone and line output.

2. START/STOP Button
Start or stop playing.

3. SAVE Button
This button is used to save the current kit settings in a user kit and save the trigger settings under the Utility menu pages.

4. LCD Display
Please refer to the LCD Display section.

5. SONG/PATTERN Button
Enter the Song menu in NORMAL mode or enter the Pattern Practice menu in LEARNING mode.

6. KIT/RHYTHM Button
Enter the Kit menu in NORMAL mode or enter the Rhythm Practice menu in LEARNING mode.

7. VOICE/BEAT Button
Enter the Voice menu in NORMAL mode or enter the Beat Practice menu in LEARNING mode.

8. PAGE/SELECT Button
Scroll through the menu pages. Press and hold it for 1 second to switch modes between NORMAL and LEARNING.

9. CLICK Button
Turn the metronome on or off and enter the Click menu in NORMAL mode.

10. DRUM OFF Button
Mute the drum part of the pattern.

11. TEMPO Button
Adjust the current tempo.

12. UTILITY Button
Enter the Utility menu in NORMAL mode.

13. RECORD Button
Enter the Record menu in NORMAL mode.

14. PLAY/PRACTICE Button
Play back your recording in NORMAL mode.
Start practicing following sample practice patterns in LEARNING mode.
Press and hold it for 1 second to play back your practice in LEARNING mode.

15. ＜Button and＞Button
Press the [＞] button increases and press [＜] button decreases the current parameter.

16. Pad Select Buttons
These buttons play the pad voices of the current kit. In Voice menu and Utility menu, they select the pad to be edited.

Rear Panel & Side Panel

17. AUX IN Jack(1/8")
This stereo input jack is for an external sound source, such as an MP3 or CD player.

18. LINE OUTPUT Jacks(1/4")
Stereo output connection to an audio system or drum amplifier.

19. CRASH 2 Jack(1/4")
Input connection for Crash 2 (dual-zone).

20. TOM 4 Jack(1/4")
Input connection for Tom 4 (dual-zone).

21. MIDI Connectors (IN, OUT)
These ports allow communication with other products equipped with a MIDI interface.

22. USB Connector
This port is used to connect to a computer (MIDI In/Out via USB).

23. PAD Connectors
Input connections for Kick, Snare, Tom, Cymbal pads and Hi-Hat control pedal.

24. PHONES Jack(1/8")
This stereo jack is used to connect headphones to the unit.

25. POWER Switch
This switch turns the power on and off.

26. DC IN Jack
Connect the included DC 9V power adaptor.
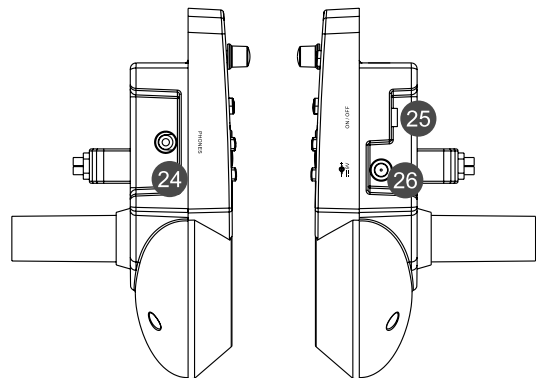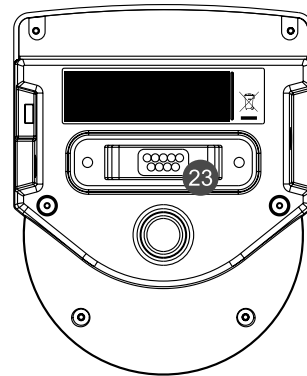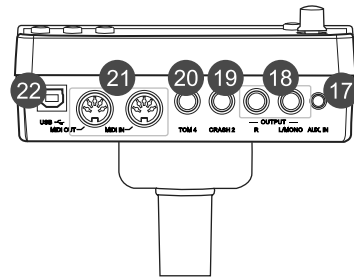
Display

1. Tempo/Measure

2. Hitting Indicator

3. Beat Count

4. Indicators for Learning

5. Indicators for Menus (Such as UTILITY, REC, etc.)

6. Current Mode and Parameter Display
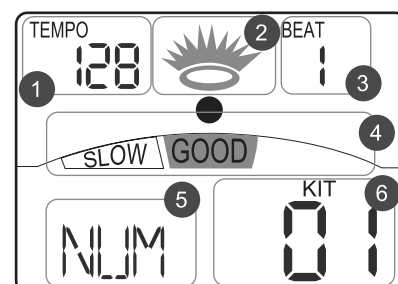
Setup

Connecting Pads and Pedals

Standard: KICK, SNARE, TOM1-3, CRASH1, RIDE, HIHAT, HIHAT CONTROL PEDAL
Extended: CRASH2, TOM4

Using the provided cables, connect with kick, snare, tom1~tom3, ride, crash, hi-hat, hi-hat control triggers. Snare, tom, ride, crash are stereo input, support double triggering (increase edge triggering); kick, hi-hat are mono input, which can't response edge triggering. Hi-hat control pedal is stereo input.
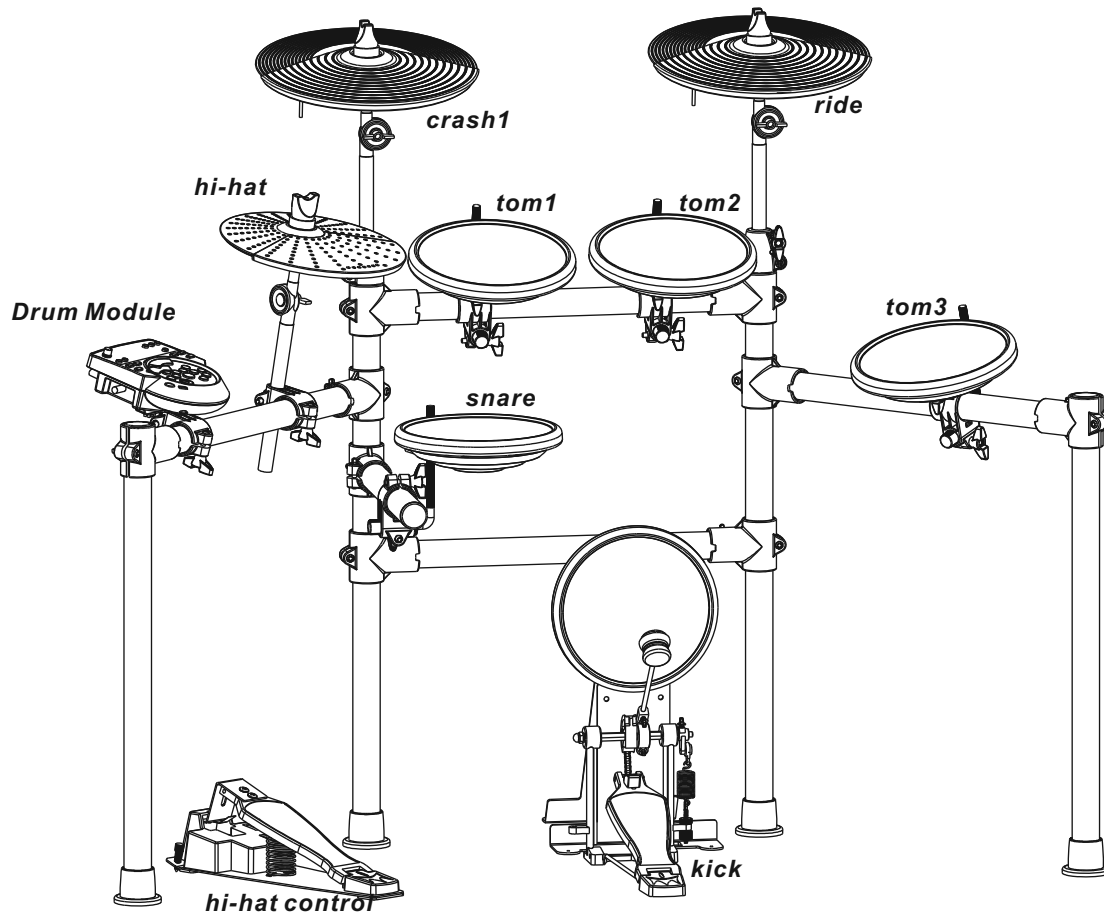
Note:
For details on assembling the drum stand, attaching the digital drum and connecting pads, refer to the Installation manual.

Connections

Connecting an Audio Equipment

When using an amplifier, connect the Output L/MONO and R jacks on the rear panel to the input of the amplifier.

Note:
For mono playback, use the L/MONO jack.
For stereo playback, connect both L/MONO and R jacks.
The line output volume is controlled by the VOLUME knob.
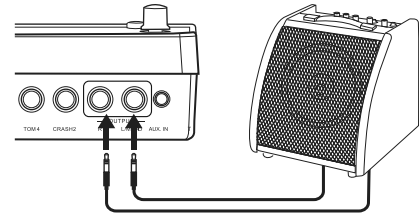
Connecting a set of Headphones

An optional set of stereo headphones can be connected to the PHONES jack located on the side of the drum module.
The headphones output volume is controlled VOLUME knob, too.
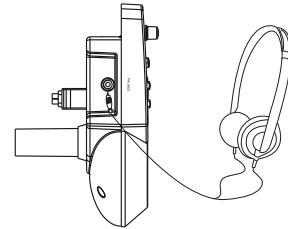
Connecting an MP3/CD Player

Connect the audio output of an MP3/CD player or other audio source to the stereo AUX IN jack on the rear panel.
The input signal is mixed with the drum signal, allowing you to play along.
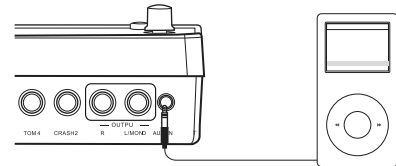
Connecting a Computer

■ **Via the USB Connector**
This receives and transmits MIDI messages.

■ **Via the MIDI Connectors**
MIDI IN Connector
This receives MIDI messages transmitted from an external MIDI device or a computer.
MIDI OUT Connector
Pad performance data is transmitted from this connector to connected computer or MIDI device.
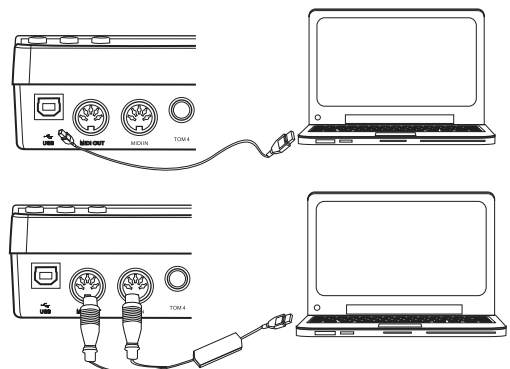
Connecting a Midi Keyboard

If you're using an external MIDI keyboard or pads to control the digital drum, make connections as shown. Here, it is used as a sound module.
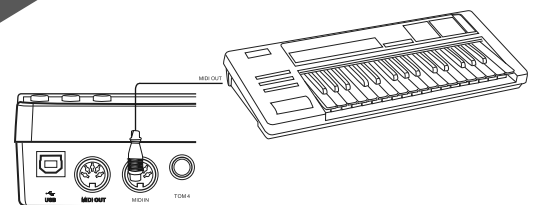
Power Supply & Switch

Make sure the power is switched OFF. Connect the power adaptor to the DC IN jack on the side panel. After confirming that all connections have been completed, rotate the volume knob to the left (minimum volume level) before switching the power on. Set the power switch to the "ON" position. The KIT indicator on LCD will light up and the display will show kit number 01.

Note:
Make sure the power is switched OFF when connecting the drum module with external devices.

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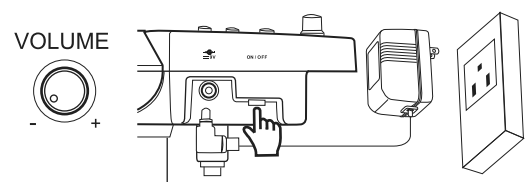
Performing

Selecting a Drum Kit

After powering up, the digital drum will be in KIT menu (KIT indicator ON). The display should look like this:

1. Use the [<] and [>] buttons to select the active kit.
There are 45 kits in the digital drum:
■ 29 preset kits (Kits 01-29)
■ 16 user kits (Kits 30-45), the parameter display area will display as "U30~U45", with an additional letter "U".

2. Pressing the Pad Select buttons allows you to preview the current kit (fixed velocity).

3. Hit the pads to play the current kit.
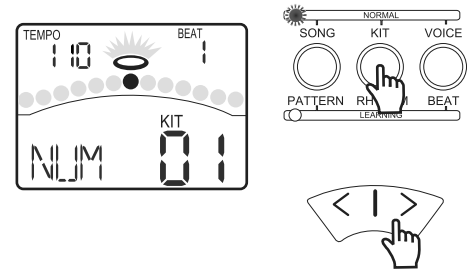
Playing the Pads

Similar to an acoustic drum kit, the digital drum responds differently to various playing techniques and dynamics. All the pads are velocity sensitive. And some voices change timbre depending on the striking force.

Drum Pad Head or Rim shot
The digital drum pad detects head and rim shots (rim shots trigger the rim voice).

Cymbal Bow shot and Rim shot
The digital drum cymbals detect bow shot and rim shots (rim shots trigger the rim voice).

Both Ride and Crash cymbals have cymbal choke. But hi-hat don't have the cymbal choke
Choking the crash/ride edge with the hand immediately after hitting the crash/ride mutes the crash/ride sound.

Hi-Hat
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 halfway down.

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

Pedal Close: Press the pedal completely down without striking the pad.

Splash: Press the pedal completely down and release it immediately.

8
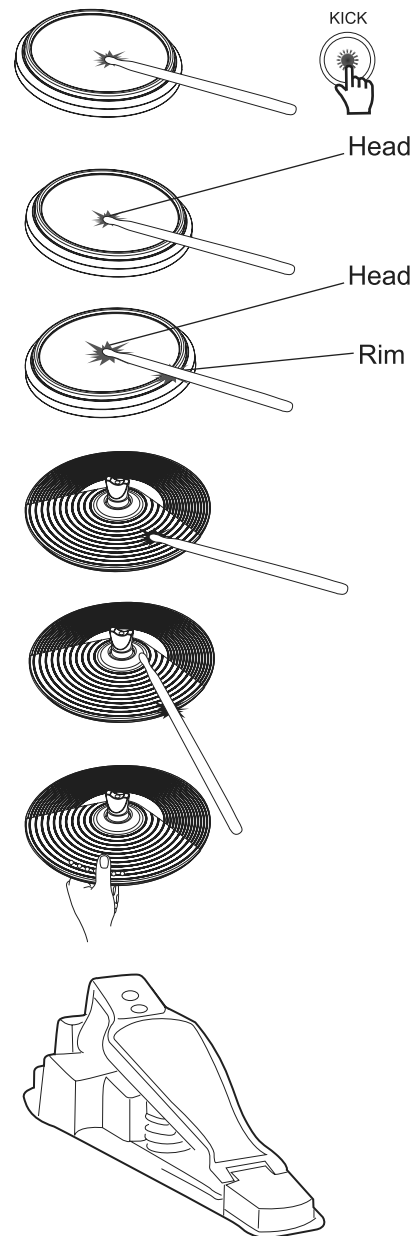
Adjusting the Sensitivity of a Pad

You may wish to adjust the sensitivity of the pads according to your playing style and desired dynamic range.

1. Press the [UTILITY] button
The UTILITY indicator appears.

2. Strike a pad or press a pad select button to select the one whose sensitivity is to be adjusted. The PAD indicator shows the current selected pad.

3. Press the [<] or [>] button to adjust the sensitivity.

4. Press the [SAVE] button to save the current setting.

For details on pad adjustments, refer to *Advanced Use.*
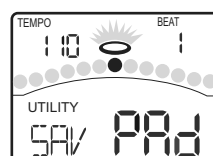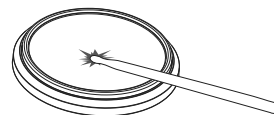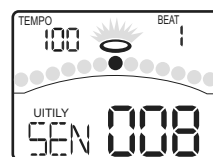
Using the Metronome/Click Feature

You can switch the click sound on and off by pressing [CLICK] button. When the click plays at the current Time Signature and Tempo (displayed in the top left corner of the LCD), the beat indicators will swing accordingly. You can set the time signature and interval, adjust the click volume and select the click sound in the CLICK menu.

1. Press the [CLICK] button.
Start the metronome with click sound.

2. Press the [PAGE] button to select the click menu pages and press the [<] or [>] button to adjust the parameters.

3. Press the [CLICK] button again.
Stop the metronome and exit the click menu.
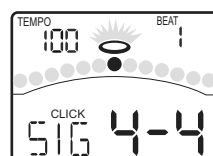
Adjusting the Tempo

You can adjust the tempo of the Metronome, the current song, and the current learning pattern. The current tempo always displays in the top left corner of the LCD.

1. Press the [TEMPO] button.

2. Press the [<] or [>] button.
Adjust the current tempo.

3. Press both [<] and [>] buttons at the same time, reset the current tempo to its default value.

Note:
If there's no operation, it will return to the previous menu page automatically after 3 seconds.
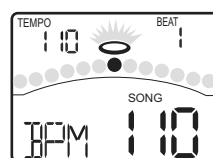
Editing and Saving a Drum Kit

In KIT menu, you can modify the parameters as you like and save to the selected user kit.

Adjusting the Volume of a Drum Kit

1. Press the [KIT] or [PAGE] button.
Select the Kit Volume page.

2. Press the [<] or [>] button.
Adjust the kit volume.
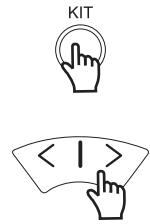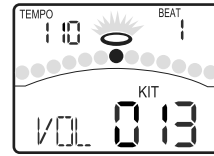
Switching Reverb On/Off and Setting EQ

1. Press the [KIT] or [PAGE] button.
Select the Global Reverb page and EQ pages.

2. Press the [<] or [>] button.
Switch Reverb ON or OFF.
Set the gain of three-band EQ (high, middle, low)
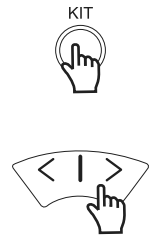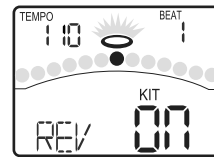
Selecting the Drum Instrument of the Pad

1. Press the [VOICE] button.
Select the Pad Voice page.

2. Press the [<] or [>] button.
Select the drum instrument of the selected pad.
Please refer to *Drum Instrument List.*
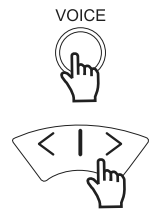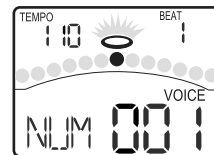
Adjusting the Volume, Pan and Pitch of the Pad

1. Press the [VOICE] or [PAGE] button.
Select the Pad Volume, Pad Pan, and Pad Pitch pages.

2. Press the [<] or [>] button.
Adjust the corresponding parameter.
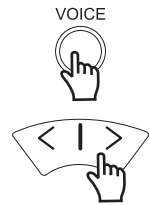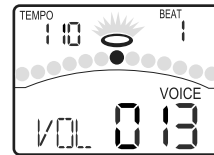
Setting the Pads to Play Songs

1. Press the [VOICE] or [PAGE] button.
Select the Pad Song and Song Number pages.

2. Press the [<] or [>] button.
Switch the Pad Song function ON or OFF. Select the Song
that begins playing when the following pad is struck.
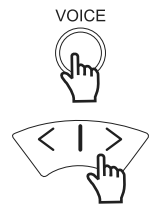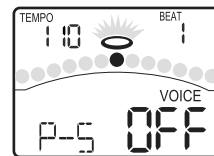
Saving the Edited Kit

1. Press the [SAVE] button.
The number of user kit will be flashed.

2. Press the [<] or [>] button.
Select a user kit to save your settings. (No. 30-45)

3. Press the [SAVE] button again.
Save the setting to the selected user kit.
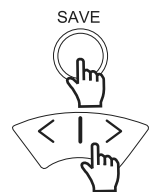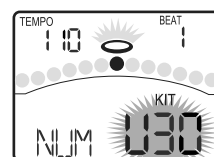
> **HINT**
> **If the edited kit isn't saved before selecting
> another kit, powering down the digital drum,
> the changes will be lost.**

Playing Along with Songs

Selecting and Playing Back a Song

1. Press the [SONG] button.
Switch to the SONG menu.

2. Press the [<] or [>] button.
Select the active song. The digital drum has many kinds of songs. Please refer to Song list.

3. Press the [START/STOP] button.
Start or stop playing back this selected song. When playing back this song, the PAD indicator will display which pads are being played by drum track.
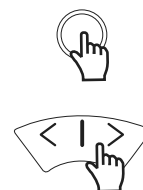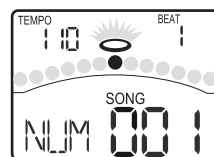
Adjusting the Volume of the Accompaniment and Drum

In SONG menu, you can adjust the volume of drum or accompaniment track.

1. Press the [SONG] or [PAGE] button.
Select the ACC Volume or Drum Volume page.

2. Press the [<] or [>] button.
Adjust the corresponding volume.
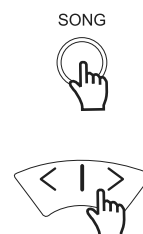
Muting the Drums in Songs

If you want to mute the drum track of the song, please press the [DRUM OFF] button. The [DRUM OFF] LED will turn on.

Using the Pads to Play Songs

This function is available only with electric drum. When you struck the pads that have been set Pad Song function, they will start the performance of the songs. If you don't know how to set this function, please return to previous page and review the part "*Setting the Pads to Play Songs*".

For Example :
Kick: You can play the bass-line (Tap group, refer to *Song List*) note by note with you kick drum.

Crash: The chords (Hit group, refer to Song List) progress when you strike the pad.

> **HINT**
> The sounds in the Tap song are played back one by one when you pressing the [START/STOP] button or hitting the "pad song" pad.

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Recording Your Performance

In RECORD menu, you can record pad performances and the song as accompaniment.

Recording Your Performance Quickly

1. Press the [RECORD] button.
The [RECORD] LED will flash. The Metronome will be turned on automatically.
The display will show:

2. Press the [START/STOP] button or strike the pad.
Recording will start.
The [RECORD] LED will turn on.

3. Press the [START/STOP] button again, or press the [RECORD] button.
Stop recording, the [RECORD] LED will turn off.
Your performance has been recorded.
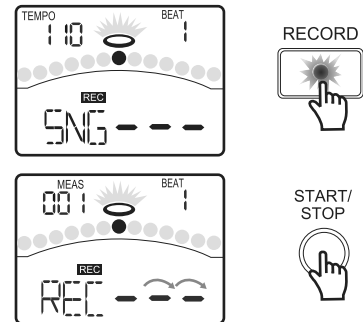
Playing Back Your Recorded Performance

1. Press the [PLAY] button.
Play back your recording.
The display will show:

2. Press the [PLAY] button again.
Stop playing back your performance.
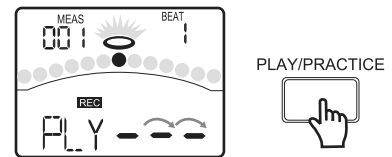
If you are not satisfied with your recording, please press the [RECORD] button to restart the recording progress.

Making the Settings for Recording

You can make the settings for recording on Record Standby.

1. Press the [PAGE] button.
Select the Record Setting pages.

2. Press the [<] or [>] button.
Adjust the parameters about recording.
For details on record setting, refer to Advanced Use.

Practicing with Patterns

There are three types of patterns in LEARNING mode.
Beat: Snare Practice
Rhythm: Drums Practice
Pattern: Drums Practice with accompaniment

Selecting a Pattern and Practicing with it

When you are in NORMAL mode, please press and hold the [PAGE/SELECT] button for 1 second. The LED of LEARNING mode will turn on. The display will show:

1. Press the [BEAT] button.
Select the Beat Choosing page.

2. Press the [<] or [>] button.
Select the beat which you want to practice.

3. Press the [PRACTICE] button.
Start or stop playing the pattern with your practice. The PAD indicators will display which pads are being played by drum track.

If you want to select the Rhythm or Pattern, please follow the steps described above. Drum Lessons Score can be downloaded from internet(consult your dealer). We recommend you to follow it.
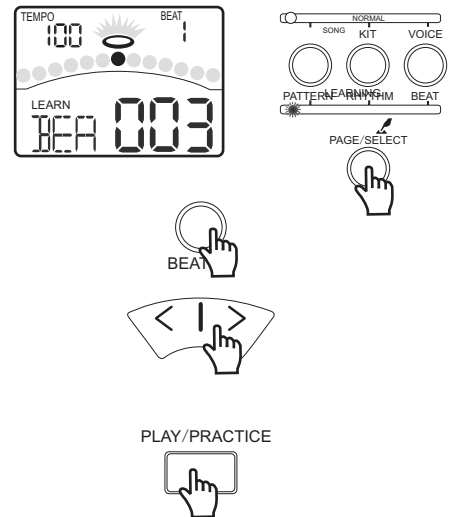
Scoring Your Practice

If you want to check your progress, please press the [START/STOP] button. The display will show:

A measure count-in will be inserted before playing back the pattern so that you can practice in good time. Your practice will be recorded automatically. When finished playing back the pattern, the digital drum will score your practice automatically. The display will show the score.

If you are unsatisfied with your score, please press the [START/STOP] button and restart examination.
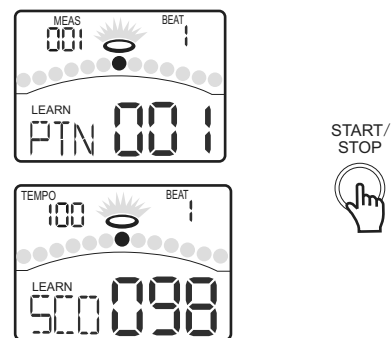
Playing Back Your Recorded Practice

1. Press and hold the [PLAY/PRACTICE] button for 2 seconds.
The display will show:
You will listen to your recorded practice.

2. Press the [PLAY/PRACTICE] button again.
Stop playing back the recorded practice.

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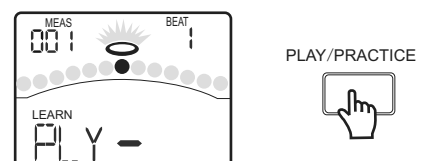
Creating Your Own Drum Kit

About the Drum Kits

In KIT menu, you can select drum kits to play from the pads, and you can edit voices and their associated parameters, such as Pitch, Reverb Level, Volume, Pan, MIDI Note, etc.
There are 45 kits in the digital drum:
- 29 preset kits (Kits 01-29)
- 16 user kits (Kits U30-U45)

In addition, there are 11 General MIDI preset kits for MIDI/USB applications, and for MIDI file playback. Please refer to **GM Drum Kit List**. Each drum kit contains settings for up to 19 voices, assigned to the 10 pad inputs and 1 pedal controller:

Pad Settings		
Kick	Head1	
Snare	Head2	Rim2
Tom1	Head3	Rim3
Tom2	Head4	Rim4
Tom3	Head5	Rim5
Tom4	Head6	Rim6
Crash1	Head7	Rim7
Crash2	Head8	Rim8
Ride	Head9	Rim9
Hihat	Head10	
Pedal		

Selecting a Drum Kit

If the digital drum is not yet in KIT menu, press the [KIT] button to enter it. The KIT indicator will light up, and the LCD will display the current kit number.

Press the [<] or [>] buttons to select a kit. When holding down [>], values increase rapidly. When holding down [<], values decrease rapidly.
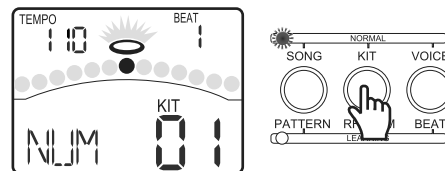
Overall Drum Kit Setting

In KIT menu, you can set the overall kit parameters.

1. Press the [PAGE] or [KIT] button, select Kit volume page. The parameter adjusts the overall kit volume(0-32).

2. Press the [PAGE] or [KIT] button, select Reverb Switch page. The parameter toggles the global reverb Switch ON/OFF.

3. Press the [PAGE] or [KIT] button, select EQ gain page. These parameters adjust the three bands of Master EQ (-12dB-12dB).

Overall Kit Settings	
Kit	Volume
Global	Reverb on/off
	EQ High gain
	EQ Middle gain
	EQ Low gain

Selecting the Pad to Edit

The current pad to be edited can be selected either by pressing its Pad Select button, or by striking the pad itself. The PAD indicator will light up to show which pad is currently selected. If the rim of a pad is selected, both the PAD indicator and the RIM indicator will turn on.
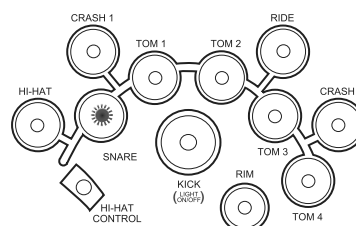
About the Drum Instruments

The digital drum features 400 different drum instruments which are categorized into 9 separate groups, such as Acoustic Kick, Electric Kick, Acoustic Snare, Electric Snare, Percussion. You can individually adjust the volume, pan, pitch, reverb settings for instruments set to the pad.

Selecting Instruments

If the digital drum is not yet in VOICE menu, press the [VOICE] button to enter it. The VOICE indicator will light up, and the LCD will display the current voice number.

1. Press the [<] or [>] buttons to change a pad's Individual voice (001-400).

2. If the selected pad is Hi-Hat, an additional option is available: Hi-Hat Combination (001-007).
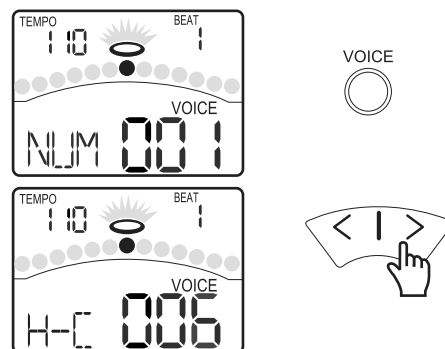
Drum Instrument Settings

1. Press the [PAGE] or [VOICE] button, select Pad Volume page. The parameter adjusts the volume of the pad.

2. Press the [PAGE] or [VOICE] button, select Pad Pan page. The parameter adjusts the pan of the pad.

3. Press the [PAGE] or [VOICE] button, select Pad Pitch page. The parameter adjusts the pitch of the pad.

4. Press the [PAGE] or [VOICE] button, select Pad Reverb page. The parameter adjusts the reverb level of the pad.

Drum Instrument Settings	
Voice Setting	Volume(0-32)
	Pan(-8-8)
	Pitch(-8-8)
	Reverb(0-16)
Settings for Other Functions	
MIDI	MIDI Note(0-127)
Others	Pad Song Switch(ON/OFF)
	Song Number(1-80)

Settings for Other Functions

1. Press the [PAGE] or [VOICE] button, select Pad   MIDI Note page. The parameter sets MIDI Note Number for each pad.

2. Press the [PAGE] or [VOICE] button, select Pad Song pages. The parameters sets pad song function ON and choose the song numbers.

   Press the [<] or [>] buttons to adjust the parameters.

HINT
While editing Voice Number, Pitch, Pan, Volume, and Reverb, you can also preview the result of the current settings by pressing the Pad Select button to play the edited voice.

Saving to a User Drum Kit

After change any kit parameter, please press the [SAVE] button to save the current settings to the user kit (No. 30-45). The number of user kit will be flashed. Press the [SAVE] button to save to user kit and return to Kit Select page.
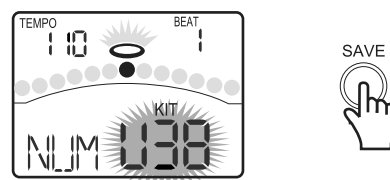
Making the Settings for Pads

About Settings of Pads

If the digital drum is not yet in UTILITY menu, press the [UTILITY] button to enter it.

The UTILITY indicator will light up. You can use the [◁] or [▷] buttons to adjust parameters (as shown to the right) for each pad as well as the rim sensitivity of the pad and the splash sensitivity of the Hi-Hat control pedal.

The current pad to be edited can be selected either by pressing its Pad Select button, or by striking the pad itself. The PAD indicator will light up to show which pad is currently selected. If the rim of a pad is selected, both the PAD indicator and the RIM indicator will turn on.

Sensitivity: Adjust the sensitivity of the pad to regulate the pad response. Higher settings result in higher sensitivity, so that the pad will produce a loud volume even when struck softly. You can also adjust the sensitivity of the splash in SPLASH SENSITIVITY.

Threshold: This setting allows a trigger signal to be received only when the pad is struck harder than a specified force. This can be used to prevent a pad from sounding in response to extraneous vibrations from another pad.

Crosstalk: When two pads are mounted on the same stand, the vibration produced by hitting one pad may trigger the sound from another pad unintentionally (This is called crosstalk). You can avoid this problem by adjusting Crosstalk Cancel on the pad that is sounding inadvertently. If the value is set too high, then 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. With a setting of 0 , crosstalk prevention does not function.

Curve: This setting allows you to control the relation between the velocity (striking force) and changes in volume (the dynamic curve). Adjust this curve until the response feels as natural as possible.

Pad Settings	
Pad	Sensitivity(1-16)
	Threshold(0-16)
	Crosstalk(1-16)
	Curve(1-6)
Special	Rim Sensitivity(1-16)
	Splash Sensitivity(1-9)

CRASH 1   RIDE
TOM 1   TOM 2
HI-HAT   CRASH 2
SNARE   TOM 3
HI-HAT CONTROL   KICK (LIGHT ON/OFF)   RIM   TOM 4
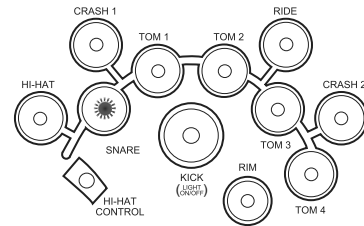
Adjusting the Pad Sensitivity

Press the [PAGE] or [UTILITY] button, select Pad Sensitivity page. The display will show:

Changes how a pad responds to your playing. At higher sensitivities, the pad will generate a louder signal, even when you play softly. At lower sensitivities, the pad will generate a quieter signal, even if you play strongly. Adjust according to your playing style and desired dynamic range.
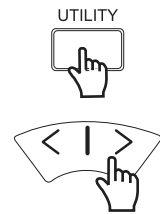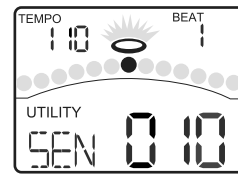
Setting the Pad Threshold

Press the [PAGE] or [UTILITY] button, select Pad Threshold page. The display will show:

Changes how forcefully you must strike the pad to generate a trigger signal. Setting a high threshold requires hitting the pad very hard to get a sound. This can help cut out transient responses, such as vibrations from the kit or accidental pad taps that you don't intend to generate sounds. Setting a low threshold means even light touches will produce sound. Adjust according to environment and playing style.
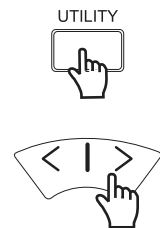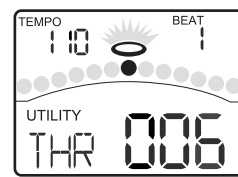
Eliminating Crosstalk between Pads

Press the [PAGE] or [UTILITY] button, select Pad Crosstalk page. The display will show:

When two pads are mounted close to each other, hitting one pad may trigger the sound from another pad unintentionally. This effect can be eliminated by setting this parameter to a higher value on the pad is triggered unintentionally.
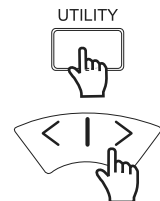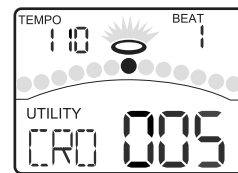
HINT
If the value is set too high, then when two pads are played simultaneously, the one that is struck less forcefully will not sound. So be careful and set this parameter to the minimum value required to prevent such crosstalk.

Selecting the Pad Curve

Press the [PAGE] or [UTILITY] button, select Pad Curve page. The display will show:
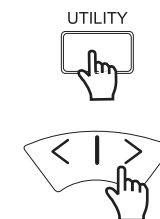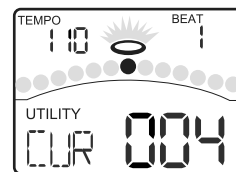
Making the Settings for Pads

Curve refers to how the trigger signal's dynamic response relates to your pad hit.

Curve1: The standard setting, this produces the most natural correspondence between playing dynamics and volume change.

Curve2, 3: Compared to Curve1, strong dynamics produce a greater change.

Curve4, 5: Compared to Curve1, a soft playing produces a greater change.

Curve6: Very little dynamic response, making it easy to maintain strong volume levels. If using drum triggers, these settings help maintain stable levels.
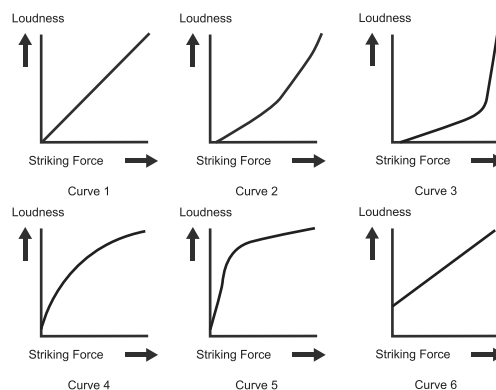
Setting Rim Sensitivity on Pads

You can only set rim sensitivity on Snare, Tom1, Tom2, Tom3, Tom4. If you select the other pads, this page will not appear. Press the [PAGE] or [UTILITY] button, select Pad Rim Sensitivity page. The display will show:
Same as the basic sensitivity feature, except that it relates specifically to playing the rim.

Note:
This parameter can be adjusted only on SNARE, TOM1, TOM2, TOM3, TOM4. If you select the other pads on this page, a horizontal line "---" appears, and you can't make the setting.
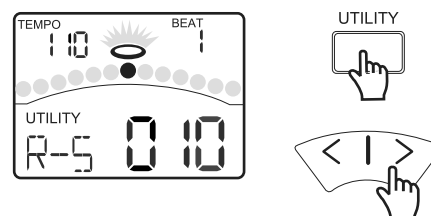
Adjusting the Hi-Hat Pedal Splash Sensitivity

Press the [PAGE] or [UTILITY] button, select Pedal Splash Sensitivity page. The display will show:

This Setting control the sensitivity of the foot splash.
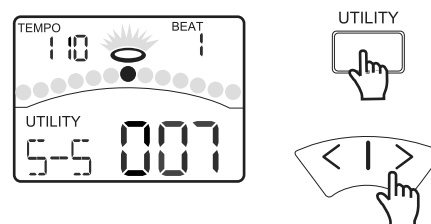
Saving Settings of Pads

After adjusting the trigger settings (sensitivity, Threshold, crosstalk, curve, rim sensitivity, splash sensitivity), you can save them into memory. In UTILITY menu, press the [SAVE] button to store all pad settings.

Note:
1. If you turn off the power without saving, you will lose the trigger setting changes you have just made.

2. These parameters affect all kits.

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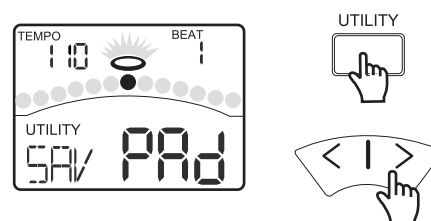
Setting the Metronome

About Click

The digital drum is equipped with a built-in metronome, which can be used by itself as a rhythm guide for practice, or in conjunction with the song playback or record functions. If the digital drum is not yet in CLICK menu, press the [CLICIK] button to enter it. In CLICK menu, you can use the [<] or [>] button to adjust the parameters(as shown to the right).

Click Settings	
Time signature	0-9/2, 0-9/4, 0-9/8, 0-9/16
Interval	1-2, 3-8, 1-4, 1-8, 1-12, 1-16
Volume	0-32
Voice	1-5

Switching the Click On/Off

1. Press the [CLICK] button to start the metronome. The CLICK LED will blink accordingly. The metronome will play at the current Time signature and tempo (displayed in the left right corner of the LCD)

2. Press the [CLICK] button again to stop the metronome. The CLICK indicator will turn off.
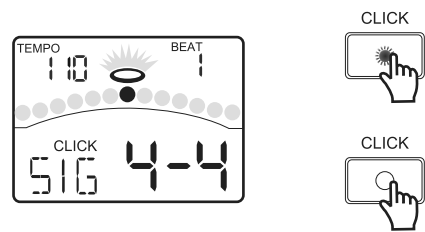
Adjusting the Click Tempo

Press the [TEMPO] button, and use the [<] and [>] buttons to adjust the current click tempo.

The current tempo always displays in the top left corner of the LCD.
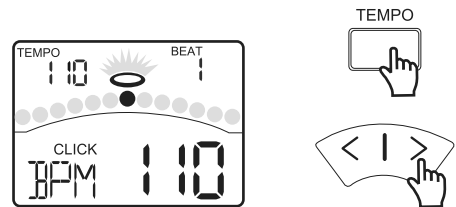
Setting the Time Signature

Press the [PAGE] button, select Click Time signature page. The display will show:

When the parameter is set to "0", such as 0-2,0-4,0-8,0-16, no accent is added to the first beat.
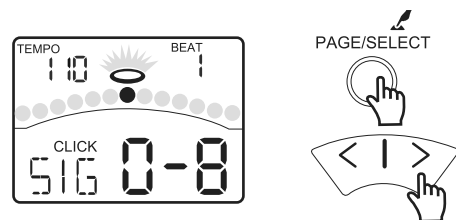
Setting the Interval

Press the [PAGE] button, select Click Interval page. The display will show:

This parameter sets how the sound plays.
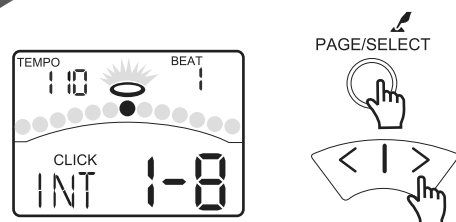
Adjusting the Click Volume

Press the [PAGE] button, select Click Volume page. The display will show:

This parameter adjust the volume of the click sound.
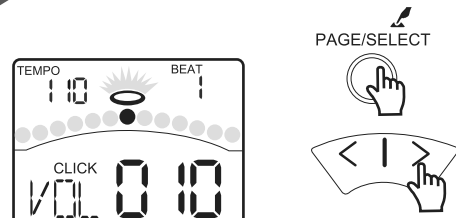
Selecting the Click Sound

Press the [PAGE] button, select Click Voice page. The display will show:

This parameter choose the sound for the click.

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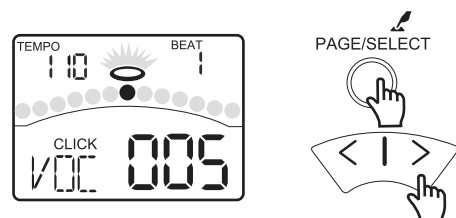
Playing Back Songs

About Songs

There are 80 preset songs in the digital drum:
- 50 Looped Patterns
- 10 Looped Percussion Patterns
- 5 Hit Songs
- 15 Tap Songs

Please refer to **Song List**. In SONG menu, you can select the song number and adjust the volume of the song's accompaniment and drum part.

Song Settings	
No.	Number(1-80)
	Accomp(0-32)
Mix	Drum(0-32)

HINT
The sounds in the tap song are played back one by one in sequence each time [START] is pressed or hitting the pad which is functioned as "pad song".

Selecting a Song

If the digital drum is not yet in SONG menu, press the [SONG] button to enter it. The SONG indicator will light up, and the LCD will display the current song number.

Press the [<] or [>] button to select a song. When holding down [>], the song number increase rapidly. When holding down [<], it decrease rapidly.
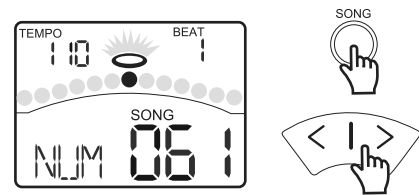
HINT
If the song number is switched while playing, the new song won't start until the end of the current bar.

Playing Back a Song

Press the [START/STOP] button to start song playback. The LCD will display the current playing beat. Press the [START/STOP] button again, stop the song during playback. During song playback in SONG menu, the PAD indicators will show which pads of the drum track is triggering.

This function can be disabled or enabled by pressing the [KICK] button while in SONG menu.
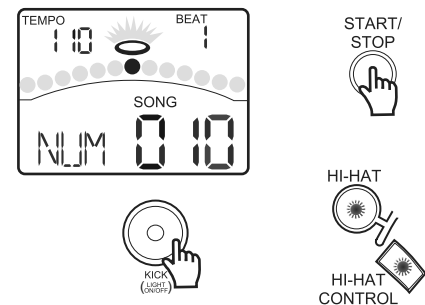
Adjusting the Accompaniment Volume

Press the [PAGE] or [SONG] button, select Song Accompaniment volume page. The display will show:

Use the [<] or [>] to adjust it. It will be restore to default value on the next power on.
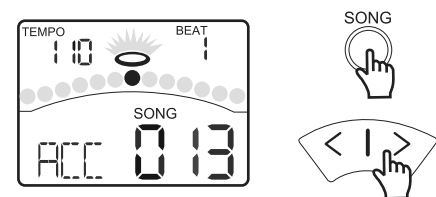
Adjusting the Drum Volume

Press the [PAGE] or [SONG] button, select Song Drum volume page. The display will show:

Use the [<] or [>] to adjust it. It will be restore to default value on the next power on.
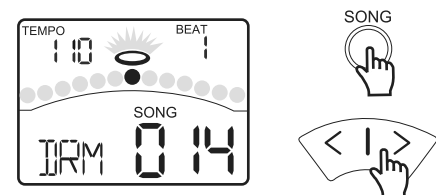
Muting the Drums in Songs

Press the [DRUM OFF] button to enable and disenable the drum mute function. When DRUM OFF is enabled, the LED will turn on.

Recording a Song

About Recording

In NORMAL mode, the digital drum allows you to quickly record your performance as you play the pads. There are two ways to start recording a new song:
- Press the [START/STOP] button
- Hit any pad

On Recording Standby, you can use the [<] or [>] button to adjust the parameters(as shown to the right).

Record Settings	
Song Number	---/1-60
Kit	1-45
Tempo	30-280
Signature	1-9/2, 1-9/4, 1-9/8, 1-9/16
Interval	1-2, 3-8, 1-4, 1-8, 1-12, 1-16
Drum Off	---/ON/OFF
Pre Count	ON/OFF

Recording Pad Performances

1. Press the [RECORD] button, enter recording standby. The [RECORD] LED will flash.

2. Press the [START/STOP] button or strike the pad. Recording will start. The RECORD LED will turn on. After Count-in, the display will show:
Now you will record your performance.

3. Press the [START/STOP] button again, or press the [RECORD] button. Stop recording, the [RECORD] LED will turn off.
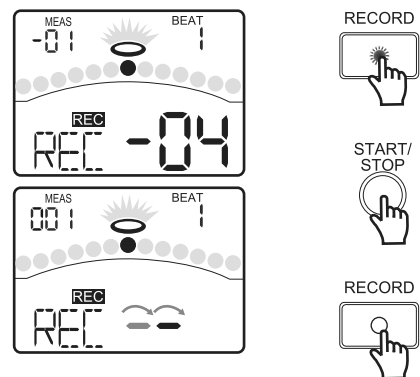
Recording Performances Accompanied with a Song

If you want to record your performance accompanied with a song, first set the parameters (Song Number and Drum off) before start to record. The display will be as shown to the right:

For details on setting, refer to Recording Standby. Recording operations are as mentioned above.
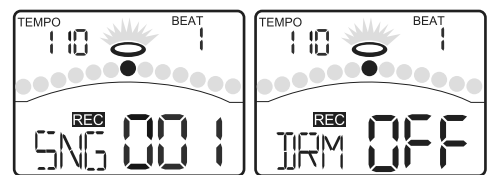
Playing Back Your Recorded Performance

Press the [PLAY] button. Play back your recording. The display will show:

Press the [PLAY] button again. Stop playing back your performance.
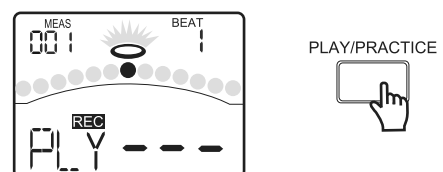
Recording Standby

Use the [PAGE] button to scroll through the various record parameters and the [<] or [>] button to adjust the value.
Page1: Setting the song accompanied or not
Page2: Selecting the drum kit that you want to record.
Page3: Setting the recording tempo
Page4: Setting the time signature
Page5: Setting the interval
Page6: Setting the drums in songs muted or not
Page7: Setting a measure count-in inserted or not before recording.

21

Practicing in Learning Mode

About Learning Mode

The LEARNING mode is a unique set of exercises specifically designed to help build speed, accuracy and stamina, as well as develop better drum skills.
There are 42 practices in the digital drum:
- 20 Beats (Only Snare)
- 12 Rhythms (Only Drum, from Level1-Level6)
- 10 Patterns (from Level1-Level5)

You can select appropriate patterns to practice depending on your present skills.

There are 3 states in Learning mode:
Follow me: Practice with the selected pattern
Score: Record and score your practice
Playback: Play back your recorded practice

If the digital drum is not yet in LEARNING mode, press and hold the [PAGE/SELECT] button for 1 second. The LED of LEARNING mode will turn on. The display will show:
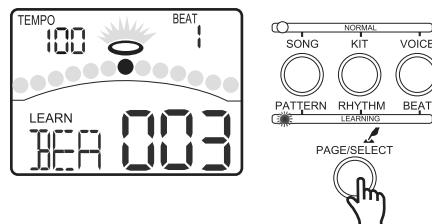
In this Learning Mode, after you press the [PRACTICE] or [START/STOP] to start practicng, your hitting accuracy will always be indicated in the middle of the display according to the current pattern.

DRAGGING:
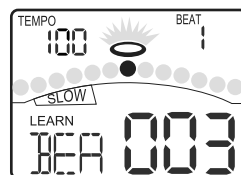
PERFECT:
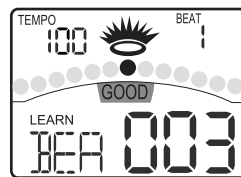
RUSHING:
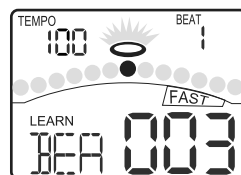
Practicing with Beats

If the digital drum is not yet in BEAT menu, press the [BEAT] button to enter it. You can adjust the parameters (as shown to the right).
1. Press the [◁] or [▷] button to select the beat.

2. Press the [PRACTICE] button to listen to the beat and follow it. Press it again to stop the beat.

3. Press the [BEAT] or [PAGE] button to select the Beat Drum volume page. Press the [◁] or [▷] button to adjust the drum volume of the beat.

Beat	
Number	1-20
Drum Volume	0-32
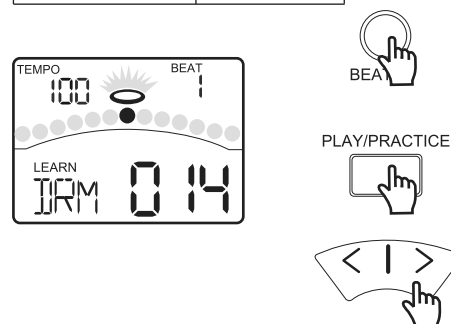
Practicing with Rhythms

If the digital drum is not yet in RHYTHM menu, press the [RHYTHM] button to enter it. You can adjust the parameters (as shown to the right).

1. Press the [<] or [>] button to select the rhythm.

2. Press the [PRACTICE] button to listen to the rhythm and follow it. Press it again to stop the rhythm.

3. Press the [RHYTHM] or [PAGE] button to select the Rhythm Level page. Press the [<] or [>] button to select the level of the rhythm.

4. Press the [RHYTHM] or [PAGE] button to select the Rhythm Drum Volume page. Press the [<] or [>] button to adjust the drum volume of the rhythm.

Rhythm	
Number	1-12
Level	1-6
Drum Volume	0-32
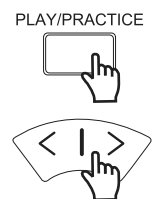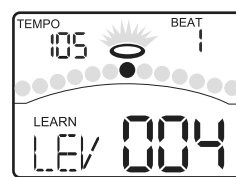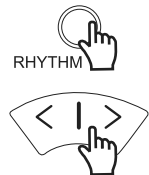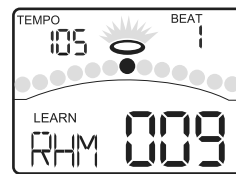
Practicing with Patterns

If the digital drum is not yet in Pattern menu, press the [PATTERN] button to enter it. You can adjust the parameters (as shown to the right).

1. Press the [<] or [>] button to select the pattern.

2. Press the [PRACTICE] button to listen to the pattern and follow it. Press it again to stop the pattern.

3. Press the [PATTERN] or [PAGE] button to select the Pattern Level page. Press the [<] or [>] button to select the level of the pattern.

4. Press the [PATTERN] or [PAGE] button to select the Pattern Accompany Volume page. Press the [<] or [>] button to adjust the accompaniment volume of the pattern.

5. Press the [PATTERN] or [PAGE] button to select the Pattern Drum Volume page. Press the [<] or [>] button to adjust the drum volume of the pattern.

Pattern	
Number	1-10
Level	1-5
Accompany Volume	0-32
Drum Volume	0-32
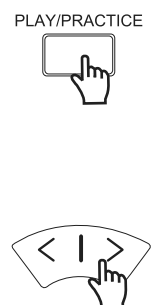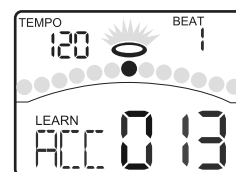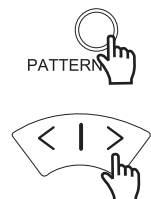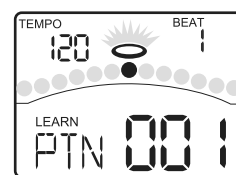
Practicing in Learning Mode

Recording and Scoring Your Practice

1. Press the [START/STOP] button, you can enter the score state. A measure count-in will be inserted before playing back the pattern so that you can practice in good time. When playing back the pattern, your performance will be recorded automatically. When finished playback, the digital drum will score your practice automatically.

The display will show the score for 3 seconds.

2. Press the [START/STOP] button again to stop playing back the pattern and recording your practice during the playback
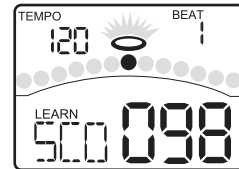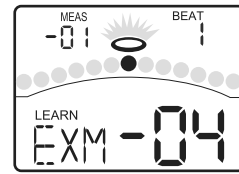
START/
STOP

Playing Back Your Recorded Practice

1. Press and hold the [PLAY/PRACTICE] button for 2 seconds, you can enter the playback state. The display will show: You will listen to your recorded practice.

2. Press the [PLAY/PRACTICE] button again. Stop playing back the recorded practice.

PLAY/PRACTICE
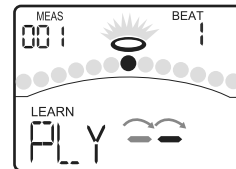
About MIDI

MIDI (Musical Instrument Digital Interface) is a standard that allows performance data and other information to be exchanged among electronic musical instruments and computers. With a MIDI cable connecting MIDI connectors equipped device, you can play multiple instruments with a single keyboard, have multiple instruments perform in ensemble, program the settings to change kits automatically to match the performance as the song progress, and more.

MIDI Connection
MIDI IN: This terminal receives MIDI data from an external MIDI device.
MIDI OUT: This terminal transmits data from the digital drum to other MIDI devices.

USB Connection
The USB connector allows you to connect the digital drum directly to your computer. It can be connected without installing a driver in Windows XP/Vista/Win7 or MAC OSX environments. The digital drum will be recognized as a "USB Audio device" to receive and transmit MIDI messages through a single USB cable. The USB port is used only for MIDI messages (MIDI via USB)

Note:
When the USB port is connected to a computer, all MIDI messages will be received and transmitted via USB.

Making the MIDI Settings

If the digital drum is not yet in UTILITY menu, press The [UTILITY] button to enter it. Press the [PAGE] or [UTILITY] button, select Local mode pages. The display will show:

Press the [<] or [>] button, set local mode to ON or OFF.

Local Mode
Local OFF: The pads and internal sequencer are disconnected from the digital drum's internal sound generator. Striking the pads does not cause sound to be produced by the internal sound generator.

Local ON: The pads and internal sequencer are connected to the digital drum's internal sound generator. Sounds are produced by the internal sound generator when the pads are struck.

GM Mode
Press the [PAGE] or [UTILITY] button, select GM mode pages. The display will show:
Press the [<] or [>] button, set GM mode to ON or OFF.
Refer to Using the Digital Drum as a Sound Module.

Sync Mode
Press the [START/STOP] button to start or stop songs playback, the digital drum will transmit the MIDI system real-time Message: FA or FC.

MIDI Settings	
Local on/off	ON/OFF
GM on/off	ON/OFF
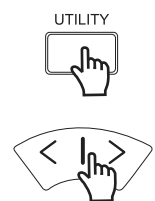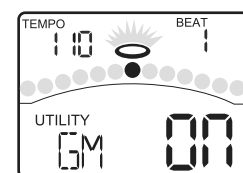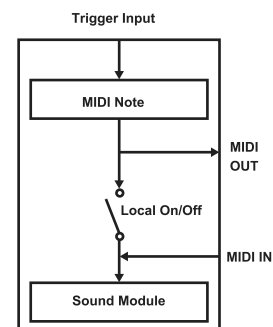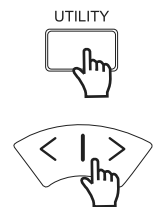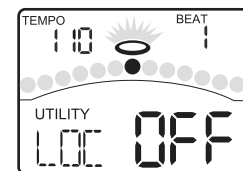
Making the Settings for MIDI

Connecting with an External Sound Device

The digital drum transmission channel for the drum kit is fixed to Channel 10. It will output MIDI data generated by the triggers when hitting the pads or stepping on the Hi-Hat control pedal (Note ON/OFF, and Foot messages). Song playback data and metronome notes are not transmitted.

Recording Your Performance to an External Sequencer
1. Connect the MIDI OUT of the digital drum to the MIDI IN of your sequencer, and the MIDI OUT of your sequencer to the MIDI IN of the digital drum. If you are using a software sequencer on a computer, you can simply connect the USB port of the digital drum to a USB port of your computer using a single USB A-B cable.
2. Setup the active track of your sequencer on Channel 10. Activate RECORD on your sequencer.
3. Play the pads of your digital drum.
4. Stop recording. Locate your sequencer to the start of your recording.
5. Playback the recorded sequencer.

Setting MIDI Note Number to be Transmitted/Received by Each Pad
Each drum kit can have it's own set of MIDI note to be transmitted/received by each pad, useful for advanced purpose. Normally, you'll never need to change them, but if you want to change, please follow these steps:

1. Press the [VOICE] button in NORMAL mode, enter the VOICE menu.
2. Press the [PAGE] or [VOICE] button, select Pad MIDI Note page.
3. Press the [<] or [>] button, change the MIDI Note Number for each pad. Hit the pad you wish to set or press the related Pad Select button.
4. Press the [SAVE] button twice to save to user kit.

Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note	Trigger	MIDI Note
Kick	36	Tom2	45	Tom4 R	39	Crash1 R	55	Hi-Hat HO	23
Snare	38	Tom2 R	47	Ride	51	Crash2	57	Hi-Hat C	42
Snare R	40	Tom3	43	Ride R	53	Crash2 R	52	Hi-Hat P	44
Tom1	48	Tom3 R	58	Crash1	49	Hi-Hat O	46	Splash	21
Tom1 R	50	Tom4	41						

Using the Digital Drum as a Sound Module

Connecting an external keyboard or sequencer to the MIDI Input allows you to use the digital drum as a multi-part, polyphonic sound module to play various instrument parts in addition to your drums (for instance, Piano on Channel 1, Bass on Channel 2, Strings on Channel 3, etc). The voices on each MIDI channel are selected using MIDI Program Change messages (refer to *GM Backing Instrument List*).
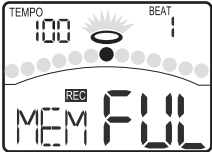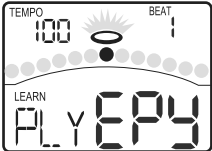
The MIDI system in the digital drum has 16 reception channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message. Channel 10 is reserved for Drums. The digital drum has two options for Channel 10: GM ON or OFF, as selected in MIDI UTILITY menu.
■ When GM Mode is ON,Channel 10 will play the GM percussion kits.
■ When GM Mode is OFF, Channel 10 will play the digital drum internal kits.

Note:
For more information on received MIDI messages, refer to MIDI implementation chart.

Display	Meaning	Action
RST Err	Resetting the digital drum is failed.	Please call the distributor, maybe it need repair.
TEMPO 100 BEAT 1 REC EPY	There isn't data in the digital drum's memory.	Please record your performance, and then play it.
TEMPO 100 BEAT 1 MEM FUL REC	There is full of data in the digital drum's memory. You can not record any data.	If you want to record another song, please restart recording and replace it.
TEMPO 100 BEAT 1 LEARN PLY EPY	You didn't record your practice in the Learning mode.	Please press the [START/STOP] button to score your practice, and then play back your practice.

Troubleshooting

	Possible Cause and Solution
No Sound	1) Rotate the [VOLUME] knob to be sure that the volume isn挟 down. 2) To be sure that Local Mode should be set to 搞N?
No Sound from Pads	1) To be sure that the pad is connected correctly. 2) To be sure not set the volume of the pad to 0.
No Click Sound	1) To be sure not set the volume of the click to 0.
Sound is Distorted	1) Turn down the volume.

Specifications

Maximum Polyphony
64

Drum kits
45 (29 Preset Kits + 16 User Kits)

General MIDI Kits
11 GM Kits

Drum Instruments
400 (Drums, Percussion, SFX)
7 Hi-Hat Combos

Effect
Reverb,3 Band Equalizer

Sequencer
Normal
Song 80

Learning
Beat 20, Rhythm 12, Pattern 10

Resolution
120 ticks per quarter note

Recording Method
Real-time

Maximum Note Storage
approx.1600 Notes

Tempo
30~280

Display
Backlit Segment LCD

Connectors
9 Trigger Input Jack, Phone Jack(1/8", stereo), Aux In Jack(1/8", stereo),
2 External Trigger Input Jack(1/4", Tom4, Crash2),
Output(1/4", L/Mono, R), USB, MIDI IN, MIDI OUT

Control Buttons
Power on/off switch, Volume, Start/Stop, Save, Song, Kit, Voice, Page/Select, INC/DEC, Click, Drum off, Record, Tempo, Utility, Play/Practice

Pad Select Buttons
12 Pad Select Buttons

Power Supply
DC 9V

Dimensions
147.1(W) × 183.3(H)× 111.7(D)mm

Weight
0.5 kg

NO.	PRESET KIT	NO.	PRESET KIT
1	Acoustic	25	Tabla
2	Standard 1	26	Latin
3	Standard 2	27	808
4	Funk 1	28	Teckno 2
5	Funk 2	29	DJ
6	Fusion	30	Acoustic
7	Camco	31	Standard 1
8	Brush	32	Standard 2
9	Room	33	Funk 1
10	Rock	34	Funk 2
11	Pop Rock	35	Fusion
12	Jazz	36	Camco
13	Jazz Brush	37	Brush
14	Timpani	38	Room
15	Songo	39	Rock
16	1971's	40	Pop Rock
17	Disco	41	Jazz
18	TR606	42	Jazz Brush
19	909	43	Timpani
20	HipHop 1	44	Songo
21	HipHop 2	45	1971's
22	Electronic 1		
23	Electronic 2		
24	Teckno 1		

Drum Instrument List

No.	Name
Acoustic Kick	
1	Standard Kick 1
2	Standard Kick 2
3	Classic Kick 1
4	Classic Kick 2
5	Rock Kick 1
6	Rock Kick 2
7	Rock Kick 3
8	Room Kick 1
9	Room Kick 2
10	Jazz Kick 1
11	Jazz Kick 2
12	Big Band Kick 1
13	Big Band Kick 2
14	Camco Kick 1
15	Camco Kick 2
16	Funk Kick 1
17	Funk Kick 2
18	Funk Kick 3
19	HipHop Kick 1
20	HipHop Kick 2
21	HipHop Kick 3
22	HipHop Kick 4
23	1969 Kick
24	1971 Kick
25	1976 Kick
26	Power Kick
27	R&B Kick
28	Voice Kick
29	Acoustic Kick
Electronic Kick	
30	Orchestra Kick
31	House Kick 1
32	House Kick 2
33	House Kick 3
34	House Kick 4
35	Step Kick
36	Teckno Kick
37	Drum & Bass Kick
38	Junkyard Kick
39	Noise Kick
40	Industry Kick
41	Lowfi Kick
42	Disco Kick
43	808 Kick
44	909 Kick
45	Electronic Kick 1
46	Electronic Kick 2
47	Electronic Kick 3
48	Electronic Kick 4
49	Electronic Kick 5
50	Electronic Kick 6
51	Electronic Kick 7
Acoustic Snare	
52	Standard Snare
53	Standard Snare Rim
54	Classic Snare 1
55	Classic Snare Rim 1
56	Classic Snare 2
57	Classic Snare Rim 2
58	Acoustic Snare
59	Acoustic Snare Rim
60	Rock Snare 1
61	Rock Snare Rim 1
62	Rock Snare 2
63	Rock Snare 3
64	Room Snare 1
65	Room Snare 2
66	Room Snare 3
67	Steel Snare
68	Steel Snare Rim
69	Jazz Snare 1
70	Jazz Snare Rim 1
71	Jazz Snare 2
72	Jazz Snare Rim 2
73	Jazz Latin Snare
74	Big Band Snare
75	Camco Snare
76	Camco Snare Rim
77	Brush Snare 1
78	Brush Snare 2
79	Brush Snare Rim
80	Funk Snare
81	Funk Stick
82	Funk Band Snare
83	Funk Band Snare Rim
84	Funk Band Snare Stick
85	Fusion Snare
86	Fusion Snare Stick
87	Snare Stick
88	Power Snare
89	HipHop Snare 1
90	HipHop Snare 2
91	1969 Snare
92	1969 Snare Rim
93	1971 Snare
94	1971 Snare Rim
95	1976 Snare
96	1976 Snare Rim
Electronic Snare	
97	House Snare 1
98	House Snare 2
99	House Snare 3
100	Teckno Snare 1
101	Teckno Snare 2
102	808 Snare
103	909 Snare
104	Drum & Bass Snare 1
105	Drum & Bass Snare 2
106	TR606 Snare
107	Electronic Snare 1
108	Electronic Snare 2
109	Electronic Snare 3
110	Electronic Snare 4
111	Electronic Snare 5
112	Electronic Snare 6
113	Electronic Snare 7
114	Electronic Snare 8
Acoustic Tom	
115	Classic Tom 1
116	Classic Tom 2
117	Classic Tom 3
118	Classic Tom 4
119	Classic Tom 5
120	Classic Tom 6
121	Standard Tom 1
122	Standard Tom 2
123	Standard Tom 3
124	Standard Tom 4
125	Standard Tom 5
126	Standard Tom 6
127	Camco Tom 1
128	Camco Tom 2
129	Camco Tom 3
130	Camco Tom 4
131	Camco Tom 5
132	Camco Tom 6
133	Rock Tom 1
134	Rock Tom 2
135	Rock Tom 3
136	Rock Tom 4
137	Rock Tom 5
138	Rock Tom 6
139	Room Tom 1
140	Room Tom 2
141	Room Tom 3
142	Room Tom 4
143	Room Tom 5
144	Room Tom 6
145	Funk Tom 1
146	Funk Tom 2
147	Funk Tom 3
148	Funk Tom 4
149	Funk Tom 5
150	Funk Tom 6
151	Fusion Tom 1
152	Fusion Tom 2
153	Fusion Tom 3
154	Fusion Tom 4
155	Fusion Tom 5
156	Fusion Tom 6
157	1969 Tom 1
158	1969 Tom 2
159	1969 Tom 3
160	1969 Tom 4
161	1971 Tom 1
162	1971 Tom 2
163	1971 Tom 3
164	1971 Tom 4
165	1976 Tom 1
166	1976 Tom 2
167	1976 Tom 3
168	1976 Tom 4
169	HipHop Tom 1
170	HipHop Tom 2
171	HipHop Tom 3
172	HipHop Tom 4
173	HipHop Tom 5
174	HipHop Tom 6
175	Jazz Tom 1
176	Jazz Tom 2
177	Jazz Tom 3
178	Jazz Tom 4
179	Jazz Tom 5
180	Jazz Tom 6
181	Brush Tom 1
182	Brush Tom 2
183	Brush Tom 3
184	Brush Tom 4
185	Brush Tom 5
186	Brush Tom 6
187	Tom Rim 1
188	Tom Rim 2
189	Tom Rim 3
190	Tom Rim 4
191	Timpani 1
192	Timpani 2
193	Timpani 3
194	Timpani 4
195	TR606 Tom 1
196	TR606 Tom 2
197	TR606 Tom 3
198	TR606 Tom 4
199	TR606 Tom 5
200	TR606 Tom 6
201	808 Tom 1
202	808 Tom 2
203	808 Tom 3
204	808 Tom 4
205	808 Tom 5
206	808 Tom 6
207	Electronic Tom 1
208	Electronic Tom 2
209	Electronic Tom 3
210	Electronic Tom 4
211	Electronic Tom 5
212	Electronic Tom 6
213	909 Tom 1
214	909 Tom 2
215	909 Tom 3
216	909 Tom 4
Ride	
217	Classic Ride
218	Classic Ride Rim
219	Acoustic Ride
220	Acoustic Ride Rim
221	Standard 22” Ride

222	Standard 22" Ride Rim	276	Metronome Click	333	Cowbell 11	390	Cow Click 2
223	Brush Ride	277	Scratch	334	Tabla 1	391	Fm Click 1
224	Brush Ride Rim	278	Scratch Push	335	Tabla 2	392	Fm Click 2
225	Rock Ride	279	DJ FX	336	Tabla 3	**FX**	
226	Clean Pop Ride	280	High Q Zap	337	Tabla 4	393	FX 1
227	Flat Ride	281	Ding Bell	338	Tabla 5	394	FX 2
228	60's Ride	282	Finger Snaps	339	Tabla 6	395	FX 3
229	808 Ride	283	Standard Clap	340	Da Gu 1	396	FX 4
Crash		284	Tambourine	341	Da Gu 2	397	FX 5
230	Classic Crash 1	285	Vibraslap	342	Zhu Ban	398	FX 6
231	Classic Crash Rim 1	286	Agogo Low	343	Nan Bang	399	FX 7
232	Classic Crash 2	287	Agogo High	344	Da Mu Yu	400	FX 8
233	Classic Crash Rim 2	288	Bell Tree	345	Mu Yu 1	**HI-HAT COMBINATIONS**	
234	Standard Crash 1	289	Bongo High	346	Mu Yu 2	1	Standard
235	Standard Crash Rim 1	290	Bongo Low	347	Mu Yu 3	2	Pop
236	Standard Crash 2	291	Shaker	348	Mu Yu 4	3	Rock
237	Standard Crash 3	292	Conga Slap High	349	Pai Gu 1	4	Jazz
238	Rock Crash 1	293	Conga Slap Mid	350	Pai Gu 2	5	Electronic
239	Rock Crash 2	294	Conga Low	351	Pai Gu 3	6	808
240	Splash	295	Open Conga	352	Mang Luo 1	7	House
241	Brush Crash	296	Conga Slap	353	Mang Luo 2		
242	China	297	Cowbell	354	Mang Luo 3		
243	Orchestra Crash	298	Timbale High	355	Da Luo 1		
244	HipHop Crash	299	Timbale Low	356	Da Luo 2		
245	808 Crash	300	Timpani High	357	Da Po 1		
246	606 Crash	301	Timpani Low	358	Da Po 2		
247	Electronic Crash	302	Open Tabla High	359	Xiao Po		
Hi-hat		303	Open Tabla Low	360	Xiao Luo		
248	Standard Hi-hat Open	304	Slap Tabla	361	Ten Luo		
249	Pop Hi-hat Open	305	Mute Slap Tabla	362	Peng Lin		
250	Rock Hi-hat Open	306	Cabasa	363	Gou Luo		
251	Jazz Hi-hat Open	307	Maracas	364	DJ 1		
252	Electronic Hi-hat Open	308	Short Whistle	365	DJ 2		
253	808 Hi-hat Open	309	Short Guiro	366	DJ 3		
254	House Hi-hat Open	310	Long Guiro	367	DJ 4		
255	Standard Half Open	311	Claves	368	DJ 5		
256	Pop Half Open	312	Wood Block	369	DJ 6		
257	Rock Half Open	313	Muted Cuica	370	DJ 7		
258	Jazz Half Open	314	Open Cuica	371	DJ 8		
259	Standard Hi-hat Close	315	Muted Triangle	372	DJ 9		
260	Pop Hi-hat Close	316	Open Triangle	373	DJ 10		
261	Rock Hi-hat Close	317	Sleigh Bells	374	One		
262	Jazz Hi-hat Close	318	Wind Chimes	375	Two		
263	Electronic Hi-hat Close	319	Castanets	376	Three		
264	808 Hi-hat Close	320	Muted Surdo	377	Four		
265	House Hi-hat Close	321	Open Surdo	378	Five		
266	Standard Hi-hat Pedal	322	Lotus Drum	379	Six		
267	Pop Hi-hat Pedal	323	Cowbell 1	380	Seven		
268	Rock Hi-hat Pedal	324	Cowbell 2	381	Eight		
269	Jazz Hi-hat Pedal	325	Cowbell 3	382	Nine		
270	Electronic Hi-hat Pedal	326	Cowbell 4	383	Metronome Bell		
271	808 Hi-hat Pedal	327	Cowbell 5	384	Metronome Click		
272	House Hi-hat Pedal	328	Cowbell 6	385	Clave Click 1		
273	Standard Hi-hat Splash	329	Cowbell 7	386	Clave Click 2		
274	Rock Hi-hat Splash	330	Cowbell 8	387	Stick Click 1		
Percussion		331	Cowbell 9	388	Stick Click 2		
275	Metronome Bell	332	Cowbell 10	389	Cow Click 1		

GM Drum Kit List

Note No.	Standard 1 (bank 0)	Standard 2 (bank 4)	Room (bank 8)	Rock (bank 16)
27－D#1	High Q	<-	<-	<-
28　E1	Slap	<-	<-	<-
29－F1	Scratch Push	<-	<-	<-
30－F#1	Scratch Pull	<-	<-	<-
31－G1	Sticks	<-	<-	<-
32－G#1	Square Click	<-	<-	<-
33－A1	Metronome Click	<-	<-	<-
34－A#1	Metronome Bell	<-	<-	<-
35－B1	Acoustic Bass Drum	<-	Room Bass Drum 1	Rock Bass Drum 1
36－C2	Standard 1 Bass Drum	Standard 2 Bass Drum	Room Bass Drum 2	Rock Bass Drum 2
37－C#2	Side Stick	<-	<-	<-
38－D2	Standard 1 Snare	Standard 2 Snare	Room Snare	Rock Snare
39－D#2	Hand Clap	<-	<-	<-
40－E2	Standard 1 Snare Rim	Standard 2 Snare Rim	Room Snare Rim	Rock Snare Rim
41－F2	Standard 1 Tom 6	Standard 2 Tom 6	Room Tom 6	Rock Tom 6
42－F#2	Standard 1 Hi-hat Close	Standard 2 Hi-hat Close	Room Hi-hat Close	Rock Hi-hat Close
43－G2	Standard 1 Tom 5	Standard 2 Tom 5	Room Tom 5	Rock Tom 5
44－G#2	Standard 1 Hi-hat Pedal	Standard 2 Hi-hat Pedal	Room Hi-hat Pedal	Rock Hi-hat Pedal
45－A2	Standard 1 Tom 4	Standard 2 Tom 4	Room Tom 4	Rock Tom 4
46－A#2	Standard 1 Hi-hat Open	Standard 2 Hi-hat Open	Room Hi-hat Open	Rock Hi-hat Open
47－B2	Standard 1 Tom 3	Standard 2 Tom 3	Room Tom 3	Rock Tom 3
48－C3	Standard 1 Tom 2	Standard 2 Tom 2	Room Tom 2	Rock Tom 2
49－C#3	Standard 1 Crash 1	Standard 2 Crash 1	Room Crash 1	Rock Crash 1
50－D3	Standard 1 Tom 1	Standard 2 Tom 1	Room Tom 1	Rock Tom 1
51－D#3	Standard 1 Ride	Standard 2 Ride	Room Ride	Rock Ride
52－E3	Chinese Cymbal 1	<-	<-	<-
53－F3	Ride Bell	<-	Room Ride Bell	Rock Ride Bell
54－F#3	Tambourine	<-	<-	<-
55－G3	Splash Cymbal	<-	Room Splash Cymbal	Rock Splash Cymbal
56－G#3	Standard 1 Cowbell	Standard 2 Cowbell	Room Cowbell	Rock Cowbell
57－A3	Standard 1 Crash 2	Standard 2 Crash 2	Room Crash 2	Rock Crash 2
58－A#3	Vibra-slap	<-	<-	<-
59－B3	Ride Cymbal	<-	<-	<-
60－C4	Hi Bongo	<-	<-	<-
61－C#4	Low Bongo	<-	<-	<-
62－D4	Mute Hi Conga	<-	<-	<-
63－D#4	Open Hi Conga	<-	<-	<-
64－E4	Low Conga	<-	<-	<-
65－F4	High Timbale	<-	<-	<-
66－F#4	Low Timbale	<-	<-	<-
67－G4	High Agogo	<-	<-	<-
68－G#4	Low Agogo	<-	<-	<-
69－A4	Cabasa	<-	<-	<-
70－A#4	Maracas	<-	<-	<-
71－B4	Short Whistle	<-	<-	<-
72－C5	Long Whistle	<-	<-	<-
73－C#5	Short Guiro	<-	<-	<-
74－D5	Long Guiro	<-	<-	<-
75－D#5	Claves	<-	<-	<-
76－E5	Hi Wood Block	<-	<-	<-
77－F5	Low Wood Block	<-	<-	<-
78－F#5	Mute Cuica	<-	<-	<-
79－G5	Open Cuica	<-	<-	<-
80－G#5	Mute Triangle	<-	<-	<-
81－A5	Open Triangle	<-	<-	<-
82－A#5	Shaker	<-	<-	<-
83－B5	Jingle Bell	<-	<-	<-
84－C6	Bell Tree	<-	<-	<-
85－C#6	Castanets	<-	<-	<-
86－D6	Mute Surdo	<-	<-	<-
87－D#6	Open Surdo	<-	<-	<-

Note No.	Funk (bank 17)	Electronic (bank 24)	808 (bank 25)	House (bank 28)
27－D#1	<-	<-	<-	<-
28 E1	<-	<-	<-	<-
29－F1	<-	<-	<-	<-
30－F#1	<-	<-	<-	<-
31－G1	<-	<-	<-	<-
32－G#1	<-	<-	<-	<-
33－A1	<-	<-	<-	<-
34－A#1	<-	<-	<-	<-
35－B1	Funk Bass Drum 1	Electronic Bass Drum 1	808 Bass Drum 1	House Bass Drum 1
36－C2	Funk Bass Drum 2	Electronic Bass Drum 2	808 Bass Drum 2	House Bass Drum 2
37－C#2	<-	<-	<-	<-
38－D2	Funk Snare	Electronic Snare	808 Snare	House Snare
39－D#2	<-	<-	<-	House Hand Clap
40－E2	Funk Snare Rim	Electronic Snare Rim	808 Snare Rim	House Snare Rim
41－F2	Funk Tom 6	Electronic Tom 6	808 Tom 6	House Tom 6
42－F#2	Funk Hi-hat Close	Electronic Hi-hat Close	808 Hi-hat Close	House Hi-hat Close
43－G2	Funk Tom 5	Electronic Tom 5	808 Tom 5	House Tom 5
44－G#2	Funk Hi-hat Pedal	Electronic Hi-hat Pedal	808 Hi-hat Pedal	House Hi-hat Pedal
45－A2	Funk Tom 4	Electronic Tom 4	808 Tom 4	House Tom 4
46－A#2	Funk Hi-hat Open	Electronic Hi-hat Open	808 Hi-hat Open	House Hi-hat Open
47－B2	Funk Tom 3	Electronic Tom 3	808 Tom 3	House Tom 3
48－C3	Funk Tom 2	Electronic Tom 2	808 Tom 2	House Tom 2
49－C#3	Funk Crash 1	<-	808 Crash 1	<-
50－D3	Funk Tom 1	Electronic Tom 1	808 Tom 1	House Tom 1
51－D#3	Funk Ride	<-	<-	<-
52－E3	<-	<-	<-	<-
53－F3	<-	<-	<-	<-
54－F#3	<-	<-	<-	<-
55－G3	<-	<-	<-	<-
56－G#3	<-	<-	<-	<-
57－A3	Funk Crash 2	<-	808 Crash 2	<-
58－A#3	<-	<-	<-	<-
59－B3	<-	<-	<-	<-
60－C4	<-	<-	<-	<-
61－C#4	<-	<-	<-	<-
62－D4	<-	<-	808 Mute Hi Conga	<-
63－D#4	<-	<-	808 Open Hi Conga	<-
64－E4	<-	<-	808 Low Conga	<-
65－F4	<-	<-	<-	<-
66－F#4	<-	<-	<-	<-
67－G4	<-	<-	<-	<-
68－G#4	<-	<-	<-	<-
69－A4	<-	<-	<-	<-
70－A#4	<-	<-	808 Maracas	<-
71－B4	<-	<-	<-	<-
72－C5	<-	<-	<-	<-
73－C#5	<-	<-	<-	<-
74－D5	<-	<-	<-	<-
75－D#5	<-	<-	808 Claves	<-
76－E5	<-	<-	<-	<-
77－F5	<-	<-	<-	<-
78－F#5	<-	<-	<-	<-
79－G5	<-	<-	<-	<-
80－G#5	<-	<-	<-	<-
81－A5	<-	<-	<-	<-
82－A#5	<-	<-	<-	<-
83－B5	<-	<-	<-	<-
84－C6	<-	<-	<-	<-
85－C#6	<-	<-	<-	<-
86－D6	<-	<-	<-	<-
87－D#6	<-	<-	<-	<-

Note No.	Jazz (bank 32)	Brush (bank 40)	Orchestra (bank 48)
27－D#1	<-	<-	Concert Hi-hat Close
28 E1	<-	<-	Concert Hi-hat Pedal
29－F1	<-	<-	Concert Hi-hat Open
30－F#1	<-	<-	Concert Ride
31－G1	<-	<-	<-
32－G#1	<-	<-	<-
33－A1	<-	<-	<-
34－A#1	<-	<-	<-
35－B1	Jazz Bass Drum 1	Brush Bass Drum 1	Concert Bass Drum 1
36－C2	Jazz Bass Drum 2	Brush Bass Drum 2	Concert Bass Drum 2
37－C#2	<-	<-	<-
38－D2	Jazz Snare	Brush Snare	Concert Snare 1
39－D#2	<-	<-	Castanets
40－E2	Jazz Snare Rim	Brush Snare Rim	Concert Snare 2
41－F2	Jazz Tom 6	Brush Tom 6	Timpani F
42－F#2	Jazz Hi-hat Close	<-	Timpani F#
43－G2	Jazz Tom 5	Brush Tom 5	Timpani G
44－G#2	Jazz Hi-hat Pedal	<-	Timpani G#
45－A2	Jazz Tom 4	Brush Tom 4	Timpani A
46－A#2	Jazz Hi-hat Open	<-	Timpani A#
47－B2	Jazz Tom 3	Brush Tom 3	Timpani B
48－C3	Jazz Tom 2	Brush Tom 2	Timpani C
49－C#3	<-	Brush Crash 1	Timpani C#
50－D3	Jazz Tom 1	Brush Tom 1	Timpani D
51－D#3	Jazz Ride	Brush Ride	Timpani D#
52－E3	<-	<-	Timpani E
53－F3	<-	<-	Timpani F
54－F#3	<-	<-	<-
55－G3	<-	<-	<-
56－G#3	<-	<-	<-
57－A3	Chinese Cymbal 2	Brush Crash 2	Concert Crash 1
58－A#3	<-	<-	<-
59－B3	<-	<-	Concert Crash 2
60－C4	<-	<-	<-
61－C#4	<-	<-	<-
62－D4	<-	<-	<-
63－D#4	<-	<-	<-
64－E4	<-	<-	<-
65－F4	<-	<-	<-
66－F#4	<-	<-	<-
67－G4	<-	<-	<-
68－G#4	<-	<-	<-
69－A4	<-	<-	<-
70－A#4	<-	<-	<-
71－B4	<-	<-	<-
72－C5	<-	<-	<-
73－C#5	<-	<-	<-
74－D5	<-	<-	<-
75－D#5	<-	<-	<-
76－E5	<-	<-	<-
77－F5	<-	<-	<-
78－F#5	<-	<-	<-
79－G5	<-	<-	<-
80－G#5	<-	<-	<-
81－A5	<-	<-	<-
82－A#5	<-	<-	<-
83－B5	<-	<-	<-
84－C6	<-	<-	<-
85－C#6	<-	<-	<-
86－D6	<-	<-	<-
87－D#6	<-	<-	<-

GM Backing Instrument List

PIANO
1   Acoustic Grand Piano
2   Bright Acoustic Piano
3   Electric Grand Piano
4   Honky-Tonk Piano
5   E.Piano 1
6   E.Piano 2
7   Harpsichord
8   Clavi

MALLET
9   Celesta
10   Glockenspiel
11   Music Box
12   Vibraphone
13   Marimba
14   Xylophone
15   Tubular Bells
16   Dulcimer

ORGAN
17   Drawbar Organ
18   Percussive Organ
19   Rock Organ
20   Church Organ
21   Reed Organ
22   Accordion
23   Harmonica
24   Tango Accordion

GUITAR
25   Nylon Guitar
26   Steel Guitar
27   Jazz Guitar
28   Clean Guitar
29   Muted Guitar
30   Overdriven Guitar
31   Distortion Guitar
32   Guitar Harmonics

BASS
33   Acoustic Bass
34   Finger Bass
35   Pick Bass
36   Fretless Bass
37   Slap Bass 1
38   Slap Bass 2
39   Synth Bass 1
40   Synth Bass 2

STRINGS
41   Violin
42   Viola

43   Celloi
44   Contrabass
45   Tremolo Strings
46   Pizzicato Strings
47   Orchestral Harp
48   Timpan

STRINGS ENSEMBLE
49   Strings Ensemble 1
50   Strings Ensemble 2
51   Synth Strings 1
52   Synth Strings 2
53   Choir Aahs
54   Voice Oohs
55   Synth Voice
56   Orchestra Hit

BRASS
57   Trumpet
58   Trombone
59   Tuba
60   Muted Trumpet
61   French Horn
62   Brass Section
63   Synth Brass 1
64   Synth Brass 2

REED
65   Soprano Sax
66   Alto Sax
67   Tenor Sax
68   Baritone Sax
69   Oboe
70   English Horn
71   Bassoon
72   Clarinet

PIPE
73   Piccolo
74   Flute
75   Recorder
76   Pan Flute
77   Blown Bottle
78   Shakuhachi
79   Whistle
80   Ocarina

LEAD
81   Lead1 (square)
82   Lead2 (sawtooth)
83   Lead3 (calliope)
84   Lead4 (chiff)
85   Lead5 (charang)

86   Lead6 (voice)
87   Lead7 (fifths)
88   Lead8 (bass & Lead)

PAD
89   Pad1 (newage)
90   Pad2 (warm)
91   Pad3 (Polysynth)
92   Pad4 (choir)
93   Pad5 (bowed)
94   Pad6 (metallic)
95   Pad7 (halo)
96   Pad8 (sweep)

EFFECTS
97   FX1 (rain)
98   FX2 (soundtrack)
99   FX3 (crystal)
100   FX4 (atmosphere)
101   FX5 (brightness)
102   FX6 (goblins)
103   FX7 (echoes)
104   FX8 (sci-fi)

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

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

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

Song List

No.	Name	Type
1	Drum Intro	Loop
2	Drum Main A	Loop
3	Drum Main B	Loop
4	Electronic&Funk	Loop
5	Modern Pop	Loop
6	Fusion 1	Loop
7	HipHop	Loop
8	Latin Jazz 1	Loop
9	Funk 1	Loop
10	Big Band 1	Loop
11	Funk 2	Loop
12	Pop Funk 1	Loop
13	Fusion 2	Loop
14	Funk 3	Loop
15	Fusion 3	Loop
16	Funk 4	Loop
17	Fusion 4	Loop
18	Pop Funk 2	Loop
19	R&B	Loop
20	Drum & Bass 1	Loop
21	Break Beat	Loop
22	Dance	Loop
23	Drum & Bass 2	Loop
24	Latin Dance 1	Loop
25	Latin Dance 2	Loop
26	Swing 1	Loop
27	Latin Jazz 2	Loop
28	Big Band 2	Loop
29	3/4 Jazz	Loop
30	Jazz 1	Loop
31	Latin Jazz 3	Loop
32	Swing 2	Loop
33	6/8 Ballad	Loop
34	Pop Ballad	Loop
35	Pop Bossa	Loop
36	16Beat Pop	Loop
37	Pop Shuffle	Loop
38	Ballad	Loop
39	Samba 1	Loop
40	Latin Pop 1	Loop

No.	Name	Type
41	Mambo	Loop
42	Latin Rock 1	Loop
43	Latin Pop 2	Loop
44	Guitar Bossa	Loop
45	Country Blues	Loop
46	Rock	Loop
47	Reggae 1	Loop
48	60's Rock	Loop
49	Blues	Loop
50	World 1	Loop
51	World 2	Loop
52	Latin	Loop
53	Bossa	Loop
54	Samba 2	Loop
55	3/4 Pop	Loop
56	Pop	Loop
57	Jazz 2	Loop
58	Reggae 2	Loop
59	Reggae 3	Loop
60	Latin Rock 2	Loop
61	Chorused Piano Tap 1	Hit
62	Fifths Tap	Hit
63	Brightness Tap 1	Hit
64	Atmosphere	Hit
65	Chorused Piano Tap 2	Hit
66	Bass Tap 1	Tap
67	Synth string Tap	Tap
68	Brightness Tap 2	Tap
69	Bass Tap 2	Tap
70	Pad Tap 1	Tap
71	Vibraphone	Tap
72	Bass Tap 3	Tap
73	Rain Tap	Tap
74	Pizzcato Strings	Tap
75	Bass Tap 4	Tap
76	Crystal	Tap
77	Xylophone	Tap
78	Bass Tap 5	Tap
79	Pad Tap 2	Tap
80	Glockenspiel Tap	Tap

Number	Name	Beat	Tempo	Measure
1	Beat 1	4/4	100	4
2	Beat 2	4/4	100	4
3	Beat 3	4/4	100	4
4	Beat 4	4/4	100	4
5	Beat 5	4/4	100	4
6	Beat 6	4/4	100	4
7	Beat 7	4/4	100	4
8	Beat 8	4/4	100	4
9	Beat 9	4/4	100	4
10	Beat 10	4/4	100	4
11	Beat 11	4/4	100	4
12	Beat 12	4/4	100	4
13	Beat 13	4/4	100	4
14	Beat 14	4/4	100	4
15	Beat 15	4/4	100	4
16	Beat 16	4/4	100	4
17	Beat 17	4/4	100	4
18	Beat 18	4/4	100	4
19	Beat 19	4/4	100	4
20	Beat 20	4/4	100	4
1	Funk 1	4/4	110	4
2	Funk 2	4/4	90	4
3	HipHop 1	4/4	90	4
4	HipHop 2	4/4	113	4
5	Jazz 1	4/4	157	4
6	Jazz 2	4/4	187	4
7	Latin 1	4/4	190	4
8	Latin 2	4/4	200	4
9	Pop Rock 1	4/4	105	4
10	Pop Rock 2	4/4	97	4
11	Rock	4/4	100	4
12	6/8 Pop Rock	6/8	125	4
1	Funk	4/4	120	4
2	HipHop	4/4	110	4
3	Latin Jazz	4/4	130	8
4	6/8 Ballad	6/8	96	4
5	Bossanova	4/4	82	8
6	R&B	4/4	86	4
7	3/4 Jazz	3/4	120	10
8	Reggae	4/4	78	4
9	Rock	4/4	100	4
10	Fusion	4/4	103	4

Parameter List

KIT

Parameter	Abbreviation	Value
Kit Number	NUM	1—45
Kit Volume	VOL	0—32
Reverb	REV	ON / OFF
EQ High	EQH	-12 -- +12
EQ Middle	EQM	-12 -- +12
EQ Low	EQL	-12 -- +12

SONG

Parameter	Abbreviation	Value
Song Number	NUM	1—80
Accomp Volume of Song	ACC	0—32
Drum Volume of Song	DRM	0—32

UTILITY

Parameter	Abbreviation	Value
Pad Sensitivity	SEN	1—16
Pad Threshold	THR	0—16
Crosstalk	CRO	1—16
Curve	CUR	1—6
Rim Sensitivity	R-S	1—16
Splash Sensitivity	S-S	1—9
Local on/off	LOC	ON/OFF
GM on/off	GM	ON/OFF

TEMPO

Parameter	Abbreviation	Value
TEMPO	BPM	30—280

VOICE

Parameter	Abbreviation	Value
Voice Number	NUM/H-C	1—400/1—7
Voice Volume	VOL	0—32
Voice Pan	PAN	-8 -- +8
Voice Pitch	PIT	-8 -- +8
Voice Reverb	REV	0—16
MIDI Note	MID	0—127
Pad Song Switch	P-S	ON / OFF
Pad Song Number	P-N	1—80

CLICK

Parameter	Abbreviation	Value
Signature	SIG	0-9/2, 0-9/4, 0-9/8, 0-9/16
Interval	INT	1-2, 3-8, 1-4, 1-8, 1-12, 1-16
Click Volume	VOL	0—32
Click Voice	VOC	1—5

RECORD

Parameter	Abbreviation	Value
Song Number	SNG	---/1—60
Kit	KIT	1—45
Tempo	BPM	30—280
Signature	SIG	1-9/2, 1-9/4, 1-9/8, 1-9/16
Interval	INT	1-2, 3-8, 1-4, 1-8, 1-12, 1-16
Drum Off	DRM	---/ON/OFF
Pre Count	PRC	ON/OFF

BEAT

Parameter	Abbreviation	Value
Beat Type	BEA	1--20
Drum Volume	DRM	0--32

RHYTHEM

Parameter	Abbreviation	Value
Rhythm Type	RHM	1--12
Level	LEV	1--6
Drum Volume	VOL	0--32

PATTERN

Parameter	Abbreviation	Value
Pattern Type	PTN	1--10
Level	LEV	1--5
Accompany Volume	ACC	0--32
Drum Volume	DRM	0--32

MIDI Implementation Chart

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